

YAMAHA commercial audio

FULL CATALOGUE 2019

WELCOME!

DO YOU KNOW YAMAHA?

We expect you have heard of Yamaha and have seen our logo in various places. You've probably thought "Yamaha, that's the company which makes motorbikes and outboard engines. The company which also produces AV receivers. A Japanese conglomerate, a global brand name and so probably a very big organization?"

From there, you might associate the Yamaha name with robot-based industrial production. Maybe you are thinking of typical Japanese build quality? None of these impressions are wrong – but the good news is there is so much more to discover!

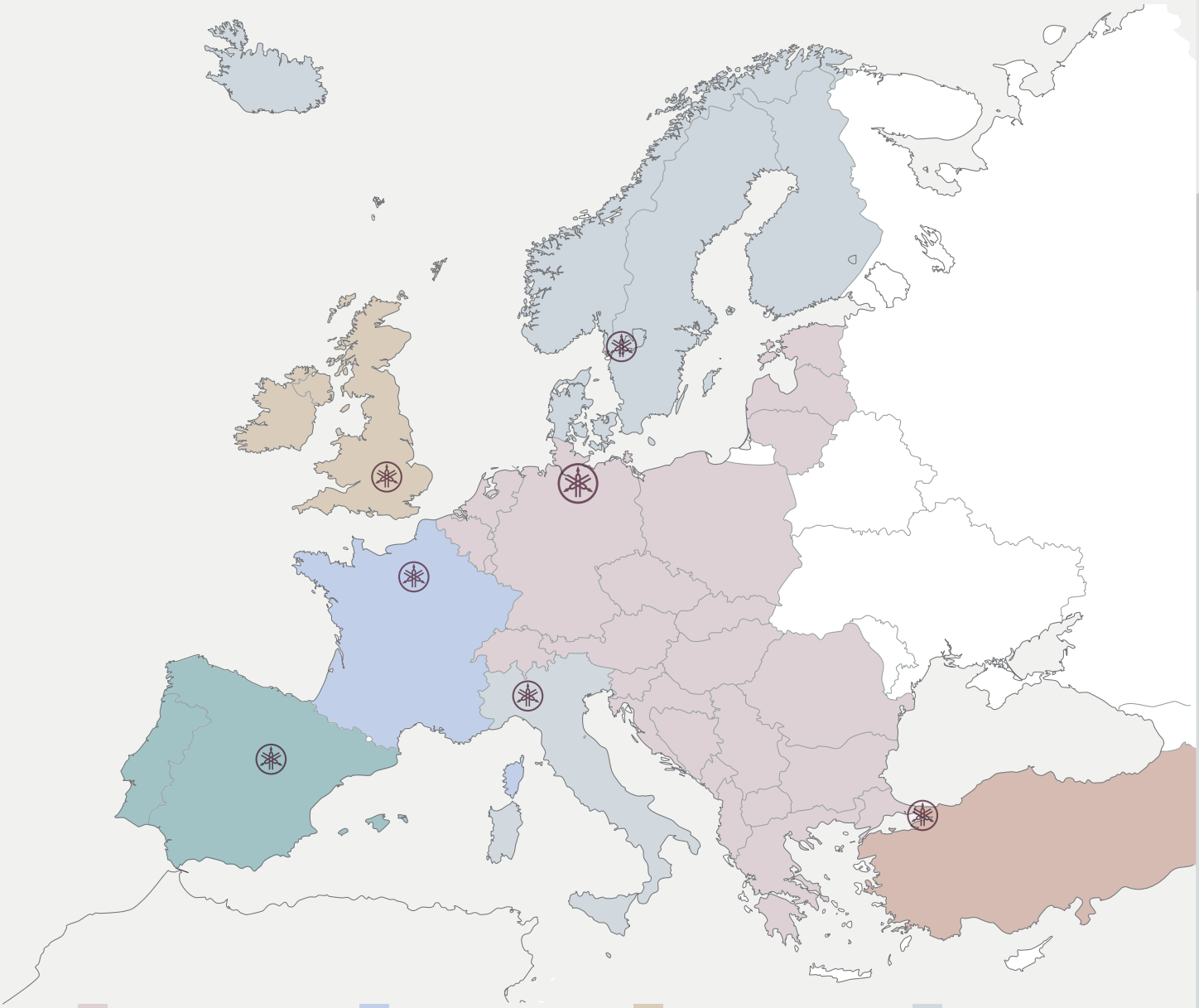
Comprising three tuning forks, the Yamaha logo symbolises products developed for one specific purpose – to inspire human beings, artistically, sportingly and professionally. In short, the purpose of Yamaha products is to culturally enrich people.
What many people may not know is that, in the 1960s, the Yamaha Motors Corporation spun off from the company that Mr Torakusu Yamaha (yes, he did exist!) founded as Nippon Gakki Ltd. Henceforth Yamaha Nippon Gakki concentrated its activities on everything that relates to musical instruments, as well as the production and reproduction of musical and audio-visual content.

The three tuning forks of the Yamaha logo denote the three fundamental elements of music: melody, harmony and rhythm. Music is one of the most important sources of human cultural development of human beings and it is the very DNA of our enterprise! But sustaining that genome requires genuine quality. Yamaha has created a culture of quality in every aspect of our business. It is a culture of highly sophisticated craftsmanship, as well as industrial production quality based on ISO9001. We pursue a philosophy of pure research in acoustics, psycho-acoustics and the physical and mathematical properties of sound, treating each with equal importance as all the others. It is a philosophy which has been rewarded with more than 40 international design awards.

While our culture of uncompromising quality – which makes Yamaha second to none in the industry – is exceptionally important, at the same time we are the only enterprise in the larger AV industry which is listed in the FTSE4 Good Index as a sign of sustainable governance. Paired with delivery reliability, financial power and a global service organization, the security and wisdom of your investment is an integral part of our company ethos.

The following pages cover many aspects of the production and reproduction of musical and audio-visual content. It's all about the production and reproduction of sound – or, rather, the culture of inspired sound!

YAMAHA MUSIC EUROPE SUBSIDIARIES



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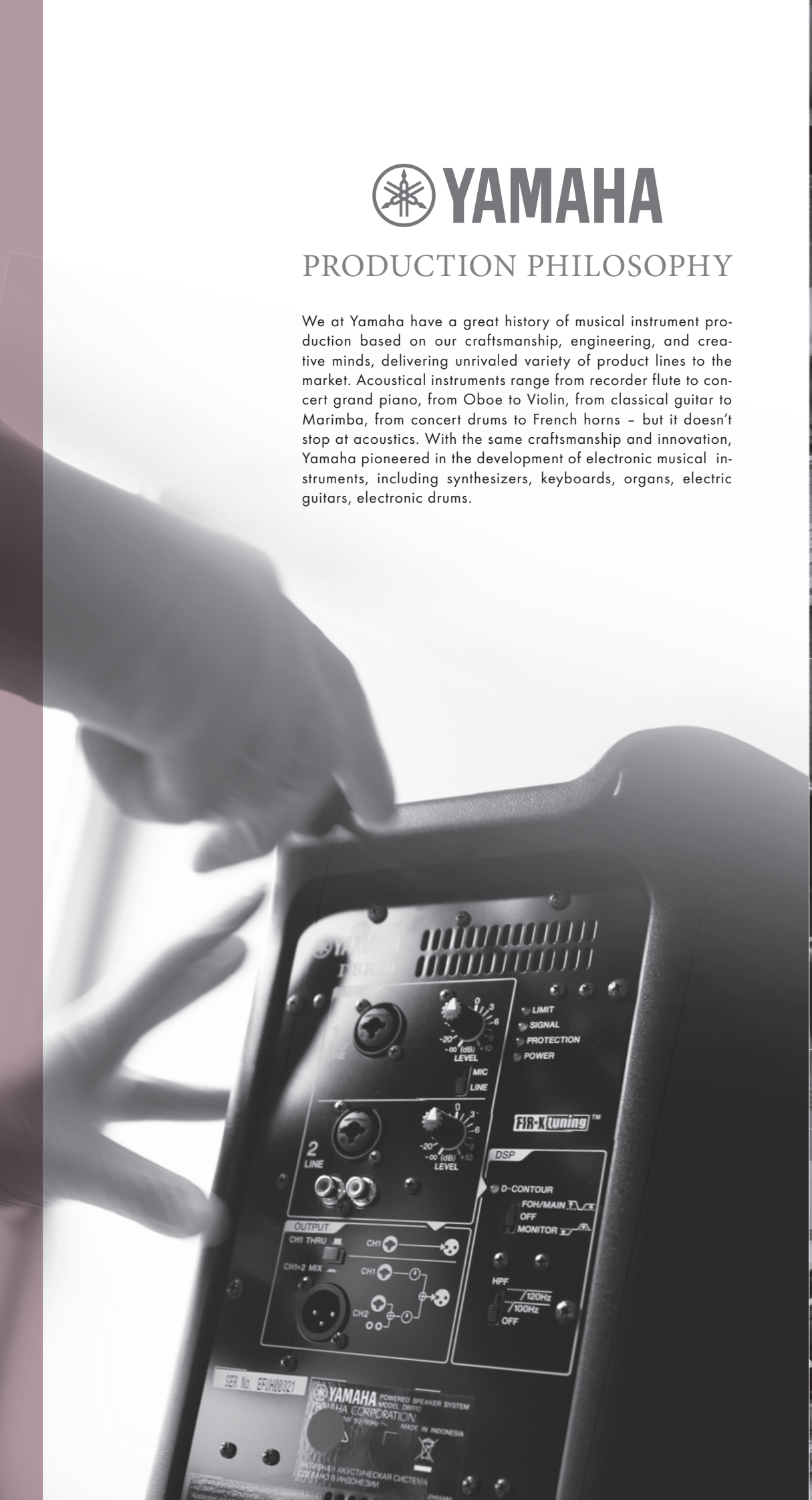
PRODUCTION PHILOSOPHY

We at Yamaha have a great history of musical instrument production based on our craftsmanship, engineering, and creative minds, delivering unrivaled variety of product lines to the market. Acoustical instruments range from recorder flute to concert grand piano, from Oboe to Violin, from classical guitar to Marimba, from concert drums to French horns – but it doesn't stop at acoustics. With the same craftsmanship and innovation, Yamaha pioneered in the development of electronic musical instruments, including synthesizers, keyboards, organs, electric guitars, electronic drums.











YAMAHA commercial audio

Yamaha entered the professional audio market 45 years ago, knowing exactly how music should sound since Yamaha covers the complete range of acoustic as well as electronic musical instruments.

YAMAHA'S PROFESSIONAL AUDIO division introduced game changing innovations such as the 'matrix' section on modular mixing consoles (PM1000, 1974), Class D power amplifiers (PD2500, 1986), DSP based Active Field Control (AFC, 1987), DSP based mixing consoles (DMP7, 1986) and networked audio distribution (NHB32C, 2003).

All these innovations, combined with a strong focus on quality, made Yamaha the most trusted equipment supplier for any audio application imaginable.





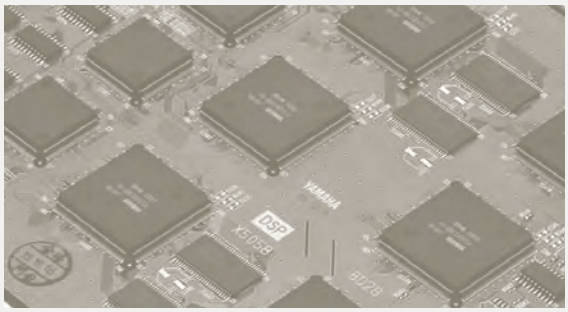








YAMAHA COMMERCIAL AUDIO CORE COMPETENCES



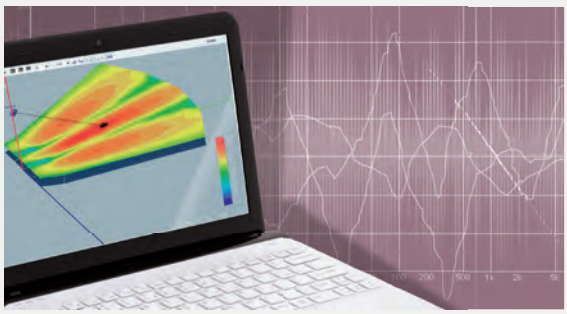
DSP

Yamaha introduced Digital Signal Processing to the live market in the eighties with the SPX90 digital effect processor, and in the nineties with the DMP7 Digital Mixing Processor. Building on 30 years of DSP experience, the current digital mixer models are built with Yamaha's 7th generation DSP platform.



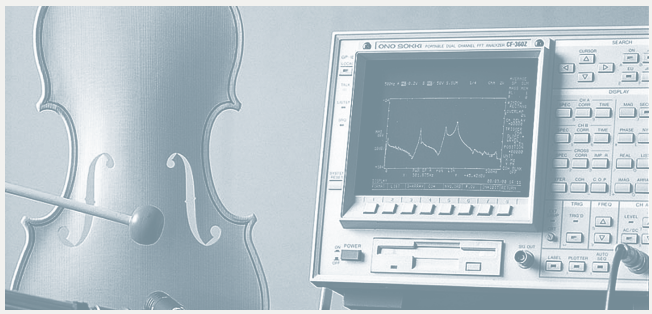
NETWORKED AUDIO

Introducing Cobranet networked systems in 2004, joined by Ethersound systems in 2006, Yamaha evolved with the market to gigabit networked environments, providing the Dante™ high capacity networked audio protocol. Being involved with networking technologies from the beginning, Yamaha has become one of the most experienced companies in the world – assuring safe investments in networked audio systems.



ELECTRO-ACOUSTICS

With more than 100 million loudspeakers sold, and thousands of acoustic and electro-acoustic designs of concert halls and theaters around the world, Yamaha has a long track record of high quality electro-acoustic systems and products.



AUDIO QUALITY

As the world's largest manufacturer of virtually all kinds of musical instruments, Yamaha professional audio product engineers respect the natural sound of electronic and acoustic musical instruments, offering the highest audio quality possible in their designs.



RELIABILITY

Since the conception of the PM consoles in the sixties, Yamaha understands the value of reliability in the live and recording industry. The result is a track record second to none – thanks to a throroughly maintained ISO9001 certified quality assurance management system.

YAMAHA GLOBAL

- CORPORATE NAME: Yamaha Corporation
- ESTABLISHED: October 12, 1897
- GROUP EMPLOYEES: 20,228
- NR. OF SUBSIDIARY COMPANIES: 63
- MUSICAL / AUDIO PATENTS: >10.000
- CONSOLIDATED NET SALES: 4,0 billion dollar

http://www.yamaha.com/about_yamaha/corporate/





Quality is one of the core values in the Yamaha Group, upholding an outstanding reputation on sound quality and reliability. Embedded in the Yamaha management, the Professional Audio Division is ISO9001 certified to assure that Yamaha products always live up to the highest quality standards, now and in the future.

HTTP://WWW.YAMAHA.COM

QUALITY



The Yamaha Group introduced its ISO14001 environmental management system in 1997. In August 2011, the ISO14001 unification was achieved for all group companies in Japan. Yamaha is listed in some of the world's most prominent SRI (Socially Responsible Investment) indexes, such as the FTSE4 Good Global Index.

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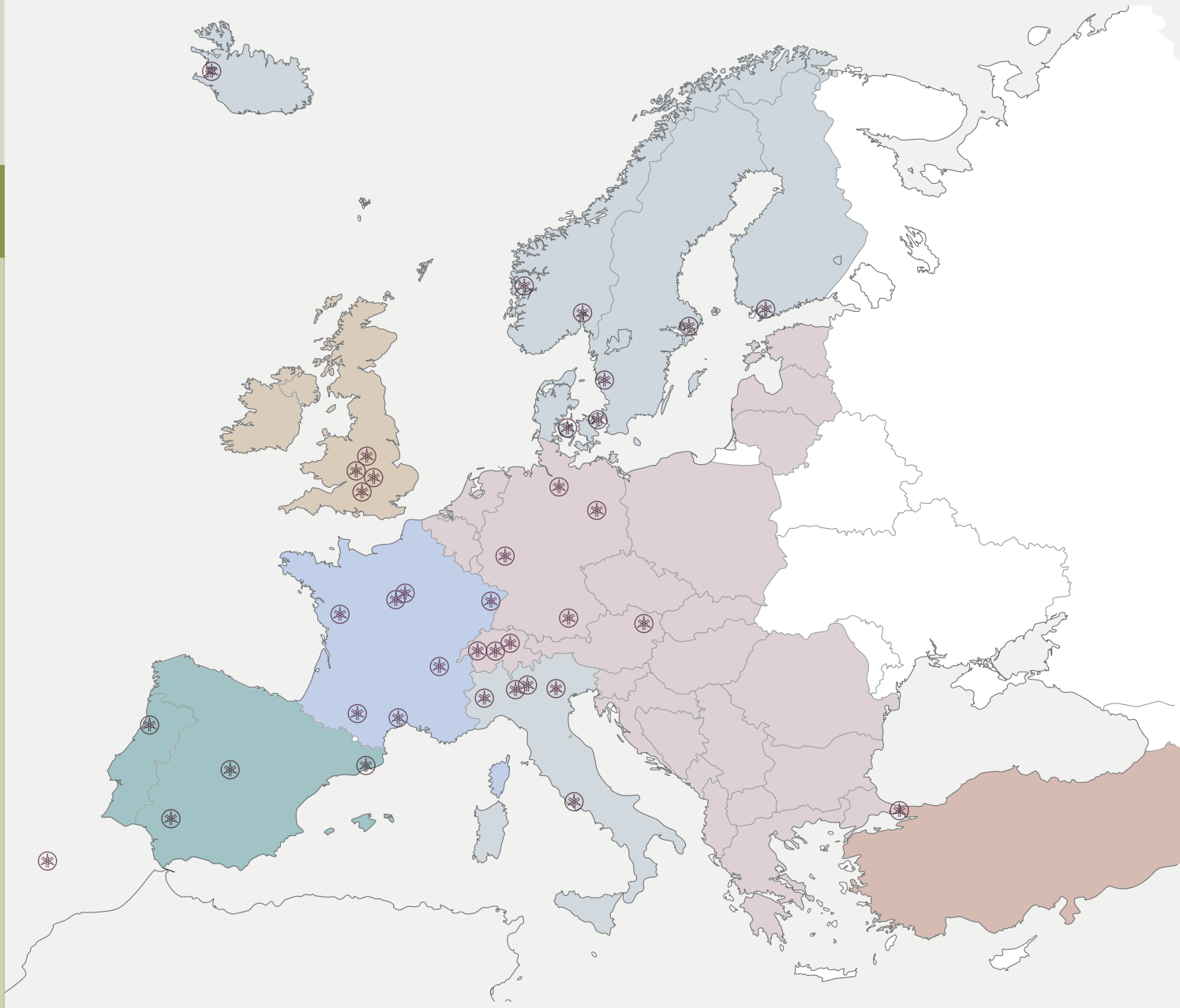
NEXT

SERVICE



SERVICE CENTER



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WWW.YAMAHAPROAUDIO.COM
provides product information and many download contents for Yamaha pro audio gear: mixers, processors, power amplifiers, speakers, and more.

- PRODUCT FEATURES, SPECIFICATIONS AND FOTOS
- PRODUCT SUGGESTIONS BY APPLICATION TYPE
- SYSTEM EXAMPLES FOR INSTALLED SOUND
- DOWNLOADS OF SOFTWARE, DATA SHEETS AND MANUALS
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TRAINING & SUPPORT





WARRANTY
In the European Economic Area (EEA) and Switzerland, a 2-year warranty guarantee is standard for all Yamaha Professional Audio products. An extended warranty guarantee from the date of original purchase guarantee is offered for Installation series speakers and accessories, selected power amplifiers & amp control products, and DSR Series Active Loudspeakers. For details, download the warranty statements from the www.yamahaproaudio.com website.

PROJECT ENGINEERING SUPPORT
Specially for the Commercial Installed Systems market a team of engineers is available to support the conceptualization, design and troubleshooting of systems. The team consists of Bsc-E-level engineers with a long experience in the professional audio market, especially on the subjects of networking, DSP and electro-acoustics.

✷ COMMERCIAL INSTALLED SYSTEMS



FRÉDÉRIC BORDE
Installed Sound Specialist



DIPL. ING. GERRIT CARSTENS
Senior Installed Sound Specialist

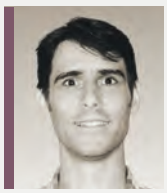


JOHN PERRY, DMS
Commercial Installation Solutions



ING. WOUTER VERKUIJL
Installed Sound Specialist

✷ NETWORKED MIXING SYSTEMS



ANDY COOPER, BSC.
Manager, Pro Audio R&D London, Application Engineering

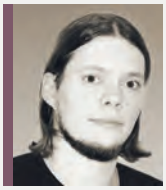


PAWEL ZACHANOWICZ
Application & Sales Engineer



ING. RUBEN VAN DER GOOR
Senior Application Engineer

✷ WIRELESS MICROPHONE SYSTEMS



ANDREAS JUWAN, MA
Product Specialist Pro Audio

✷ MUSIC AND POST PRODUCTION SYSTEMS



CHRISTOPH HÄRTWIG, BA
Product Manager Live & Production Consoles

✷ ACTIVE FIELD CONTROL SYSTEMS



ING. RON BAKKER
Systems Marketing Manager Europe

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Besides high quality products, high quality information is essential to support the design and installation of high quality audio systems. In addition to our engineering support teams and local training seminars, the **WWW.YAMAHAPROAUDIO.COM** website is a valuable source of on-demand information to support fast and accurate system conceptualization, design and installation. The scope of technical information available is unique in the professional audio market – from training videos to CAD data for individual products, it's all there. And if there's anything more required to finish a job – just call one of our sales engineers and we'll make it happen.



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Not everyone has the time to attend the CA Training Seminars. Our Self Training program allows busy users to learn at their own pace. Self Training is also a great way to prepare for an actual seminar, or review the information after attending. Online movies and technical documents are designed to make learning easy.

FAQ
Answers to frequently asked questions on product settings, operation and troubleshooting, as well as useful tips to support concept, design, installation and use of Yamaha systems.

SYSTEM EXAMPLES
From simple store systems through restaurants and conference rooms to large installations catering to hundreds of guests, a selection of total sound solutions using components from the extensive Yamaha lineup is presented.

CAD LIBRARY
DXF data files for individual products in compressed ".zip" format.

MANUALS
Owner's manuals are organized by product category. Manuals are provided in ".pdf " format.

FIRMWARE AND SOFTWARE
Mixer and processor firmware as well as driver, editor, manager, and designer software are available for all products – current and legacy. Installation guides and upgrades are also available.

DATA SHEETS
Product outlines, specifications and dimension diagrams are available in ".pdf" or ".zip" format.

SYSTEM DESIGN RESOURCES
System design resources such as CAD data, Datasheets, A&E Specs, Speaker and processing data, protocol specs, and so on are available.

NEXT

SPEAKER SYSTEMS





CONFERENCE | BACKGROUND MUSIC | ACOUSTICS

VXS SERIES



VXS5/VXS5W



VXS8/VXS8W



VXS10ST/VXS10STW

SURFACE MOUNT SPEAKERS

	VXS5/VXS5W	VXS8/VXS8W	VXS10S/VXS10SW	VXS10ST/VXS10STW
POWER RATING PGM (IEC)	150 W	180 W	200 W + 200 W	–
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω + 8 Ω	–
TRANSFORMER TAPS 100V	30W/15W/7,5W/3.8W	60W/30W/15W/7.5W	–	200W/100W/50W/25W
SENSITIVITY @1W/1M	89 dB SPL	91 dB SPL	96 dB SPL	96 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	114 dB SPL	117 dB SPL	125dB SPL	–
FREQUENCY RANGE (-10dB)	62Hz - 20kHz	51hz - 20kHz	45hz - 250Hz	45hz - 250Hz
SPEAKER TYPE	2-way bass reflex	2-way bass reflex	Subwoofer	Subwoofer
COVERAGE ANGLE (HXV)	120° x 120°	100° x 100°	–	–
WOOFER	5,25"	8"	10" dual voice coil	10" dual voice coil
TWEETER	0.75" soft dome	1" soft dome	–	–
CONNECTORS	Euroblock 4P x1	Euroblock 4P x1	Euroblock 4P x2	Euroblock 4P x2
DIMENSIONS (W x H x D)	176 x 280 x 163 mm	278 x 430 x 239 mm	260 x 500 x 389 mm	260 x 500 x 389 mm
WEIGHT	3.6 kg	8.2 kg	16.5 kg	19.5 kg
PACKAGING	per pair	per pair	per unit	per unit

SOPHISTICATED SOUND AND DESIGN FOR MATCHING ANY APPLICATION

- Series comprises two full-range models and two subwoofers available in either black or white.
- Features newly customized transducers for superb music reproduction as well as crystal clear announcements.
- Full-range models are equipped with internal transformer that allows operation at both high and low impedance.
- VXS10ST(W) comes equipped with an internal transformer, adding stronger bottom end in high impedance systems.
- VXS8(W) and VXS5(W) offer IP35 rated protection, ensuring use in outdoor applications.
- Subwoofers feature 10" dual voice coil with high pass outputs for satellite speakers.
- Comes with a dedicated bracket for safe, trouble-free speaker installation.
- Overload protection circuit provided to protect speaker components.

✹ MOUNTING ACCESSORIES (INCLUDED)





VXS SERIES F MODEL

CONFERENCE | BACKGROUND MUSIC | ACOUSTICS

COMPACT SURFACE MOUNT SPEAKER

- 3,5" FULL RANGE SPEAKER
- ATTRACTIVE, DISCRETE DESIGN BY YAMAHA DESIGN LABORATORY
- ACOUSTIC DESIGN FOR SOPHISTICATED NATURAL SOUND, MEMBER OF THE VXS FAMILY
- AVAILABLE AS LOW-Z AND HIGH-Z WITH 100V TRANSFORMER
- BLACK AND WHITE FINISH, PAINTABLE
- 40 W FULL RANGE, 105DB PEAK SPL, 150° X 160° COVERAGE







	VXS3F/VXS3FW	VXS3FT/VXS3FTW
POWER RATING PGM (IEC)	40 W	–
NOMINAL IMPEDANCE	8 Ω	–
TRANSFORMER TAPS 100V	–	15W, 7.5W, 3.8W
SENSITIVITY @1W1M	86 dB SPL *1	86 dB SPL *1
MAX SPL	105 dB SPL	–
FREQUENCY RANGE (-10dB)	130Hz - 20kHz	130Hz - 20kHz
SPEAKER TYPE	Fullrange, Acoustic suspension	Fullrange, Acoustic suspension
COVERAGE ANGLE	150° x 160°	150° x 160°
WOOFER	3,5" full range	3,5" full range
TWEETER	–	–
CONNECTORS	1 x Euroblock (4P) (Input: +/-, Loop Thru: +/-)	1 x Barrier strip (Input: +/-)
DIMENSIONS	184x130x94 mm	184x130x94 mm (184x178x139 mm*2)
WEIGHT	1.0 kg	1.0 kg (1.7kg*2)
PACKAGING	per pair	per pair

*1: Full-space (4π) , 200Hz to 10kHz pink noise
*2: with bracket (in 0° setup)



- 100V TRANSFORMER FOR VXS3-FT (INCLUDED)
- MOUNTING ACCESSORIES (INCLUDED)





VXS SERIES M/S MODEL

BACKGROUND MUSIC



VXS1ML – MINI SATELLITE SPEAKERS

- 1.5" Full range speaker with 10W (PGM)
- Minimalistic design with superior sound quality
- Various ways of installation
- Optional ceiling mount and rail mount kits available
- Black and white finish, paintable
- Very wide coverage (170°)

VXS3S – COMPACT SUBWOOFERS

- Yamaha's unique SR-Bass™ technology
- Easy system expandability
- Lo-Z (8Ω)/Hi-Z (70V/100V) switchable
- Optional in-ceiling mount kit available
- Black and white finish, paintable
- Satellite connections

VXS SERIES M







VXS SERIES S







✷ **CMA1MB / CMA1MW**
CEILING MOUNT ADAPTER FOR VXS SERIES "M MODEL"



✷ **CMA3SB / CMA3SW**
CEILING MOUNT ADAPTER FOR VXS3S



✷ **RMA1MB**
RAIL MOUNT ADAPTER FOR VXS SERIES "M MODEL"



GENERAL SPECIFICATIONS

MODEL		VXS1MLB / VXS1MLW	VXS3SB / VXS3SW
SPEAKER TYPE		Full-range, acoustic suspension type	SR-Bass™ type Subwoofer
FREQUENCY RANGE (-10dB)		180Hz-20kHz	65Hz-180Hz
NOMINAL COVERAGE	H	170°	–
	V	170°	–
COMPONENTS	LF	–	3.5" Cone
COMPONENTS	LF-HF	1.5" Cone	–
POWER RATING	NOISE	5W	20W
	PGM	10W	40W
	PEAK	20W	80W
NOMINAL IMPEDANCE		8Ω	8Ω
SATELLITE IMPEDANCE		–	8Ω load per satellite output recommended
TRANSFORMER TAPS	100V	–	15W, 7.5W, 3.8W
	70V	–	15W, 7.5W, 3.8W, 1.9W
SPL	Sensitivity (1W; 1m on axis)	79dB SPL *1	79dB SPL *1
	Peak (Calculated)	92dB SPL *2	98dB SPL *2
I/O CONNECTORS		Euroblock (2 pin) × 1	TERMINAL BLOCKS(4pin) Input: +/-, Loop-thru: +/-, TERMINAL BLOCKS (8pin) Satellite output:+/- (ST1 ST4)
PROTECTION CIRCUIT	Load protection	Full-range power limiting for protecting network and transducers	Full-range power limiting for protecting network and transducers
SHAPE		Rectangular	Rectangular
CABINET MATERIAL		ABS	ABS
FINISH		VXS1MLB: Black (approximate value: Munsell N3), VXS1MLW: White (approximate value: Munsell N9)	VXS3SB:Black (approximate value:Munsell N3) VXS3SW: White (approximate value:Munsell N9)
DIMENSIONS	W	62mm (2.4") *3	322mm (12.7") *3
	H	62mm (2.4") *3	162mm (6.4") *3
	D	82mm (3.2") *3	118mm (4.6") *3
NET WEIGHT		0.17 kg (0.37 lbs) *3	2.7kg (6.0 lbs) *3
ACCESSORIES		Wall/Ceiling Bracket	Mounting bracket, Safety wire, Spacer, Screw, Masking sheet
PACKAGING		Per unit	Per unit
CERTIFICATE		NFPA70, CE, RoHS	NFPA70, CE, RoHS

*1: VXS1ML: Full-space (4π) (300Hz-10kHz), VXS3S:Full-space (4π)

*2: Calculated based on power rating and sensitivity, exclusive of power compression

*3: Speaker only

CONFERENCE BACKGROUND MUSIC ACOUSTICS

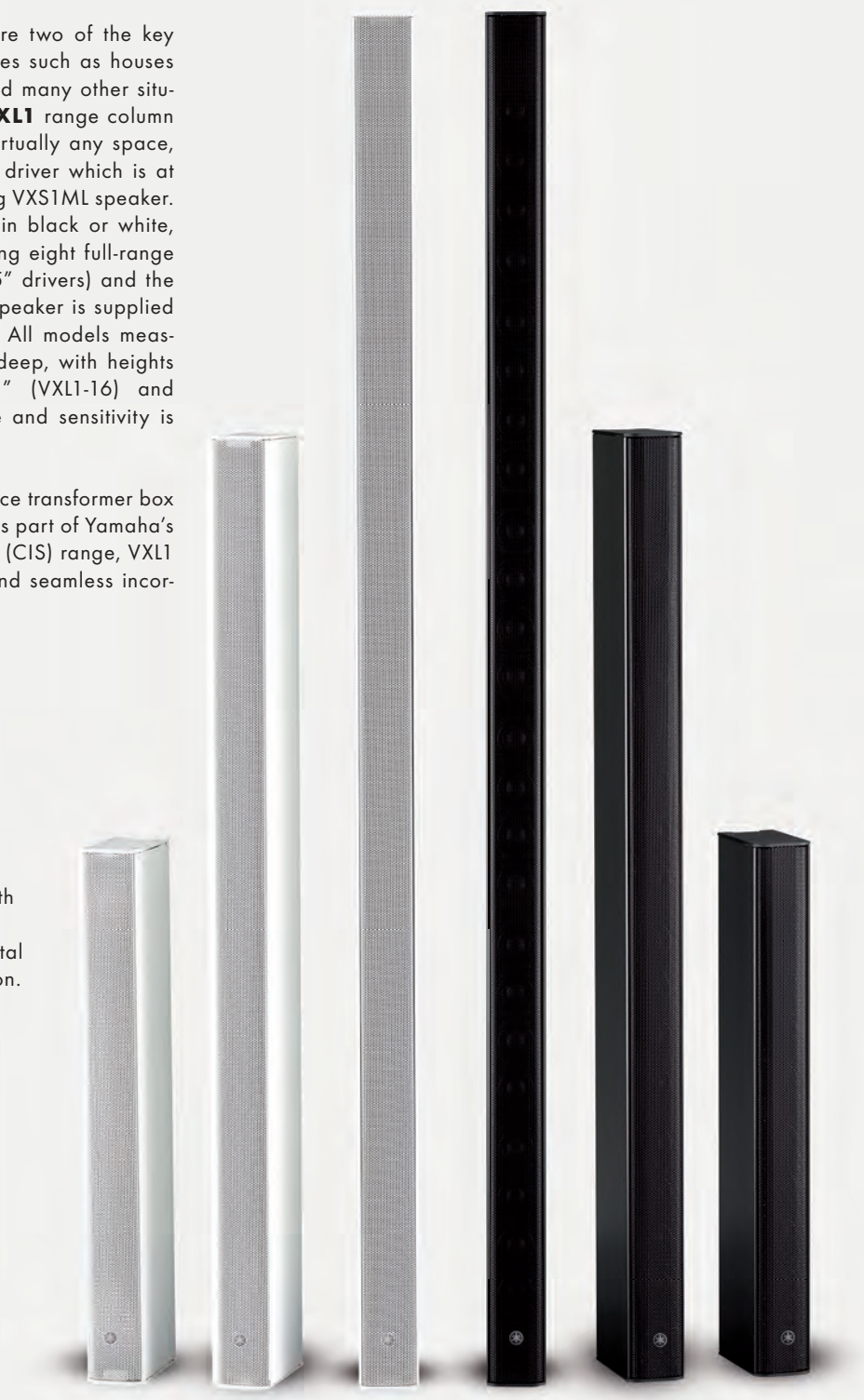
VXL SERIES

HIGH PERFORMANCE SLIM LINE ARRAY LOUDSPEAKERS

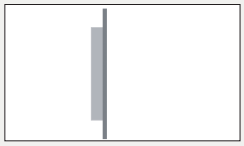
VXL SERIES

High quality audio with visual discretion are two of the key demands for installed loudspeakers in spaces such as houses of worship, boardrooms, lecture theatres and many other situations. Yamaha Commercial Audio's new **VXL1** range column loudspeakers bring sleek, smart sound to virtually any space, based on multiple arrays of the same 1.5" driver which is at the heart of Yamaha's multiple award-winning VXS1ML speaker. Featuring IP35-rated, paintable enclosures in black or white, the VXL1 series includes the VXL1-8 (featuring eight full-range 1.5" drivers), the VXL1-16 (16 full-range 1.5" drivers) and the VXL1-24 (24 full-range 1.5" drivers). Each speaker is supplied as a Lo-Z unit (a Hi-Z option is available). All models measure just 54mm/2.1" wide by 104mm/4.1" deep, with heights of 480mm/18.9" (VXL1-8), 846mm/33.3" (VXL1-16) and 1212mm/47.7" (VXL1-24). Frequency range and sensitivity is exceptionally consistent across the series.

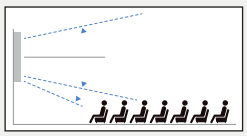
Optional accessories include a high impedance transformer box and range of alternative mounting brackets. As part of Yamaha's acclaimed Commercial Installation Solutions (CIS) range, VXL1 series loudspeakers are designed for fast and seamless incorporation into CIS-based audio networks.



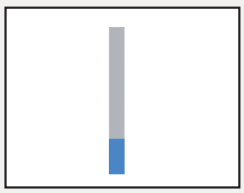
- High quality compact 1.5" drivers deliver excellent sound.
- 54mm total width enclosure to blend in with any interior design.
- Optional brackets for vertical and horizontal arrays for increase SPL and extra projection.
- Optional wall mount brackets for 2-axys adjustment.
- Transformer option for 100V operation.
- Paintable, IP35 waterproof design.



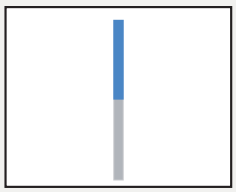
SUPPLIED BRACKET
For seamless wall mounting.
*This bracket does not allow angle adjustment



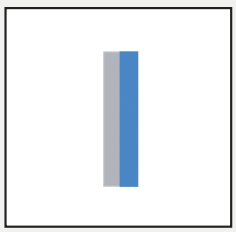
All models are supplied with a wall mounting bracket, while the VXL1-16 and VXL1-24 feature dispersion expander switches which allow the lower vertical dispersion of the array to be easily expanded without having to angle the speaker.



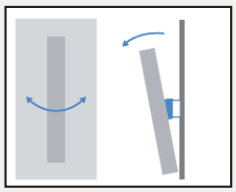
ST-L1
Transformer box for high-impedance connections. Ideal for multiple speaker layouts.



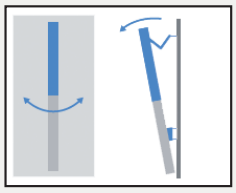
VCB-L1
Bracket for vertical mounting of two arrays, for increased SPL and extra projection.
*This VCB-L1 and WMB-L1 are used together.



HCB-L1
Bracket for side-by-side mounting of two arrays, for increased SPL and more focused horizontal dispersion that can minimize unwanted reflections from nearby surfaces.



WMB-L1
Bracket for 2-axis adjustment of a single array.
*This VCB-L1 and WMB-L1 are used together.



VCSB-L1
Bracket for 2-axis adjustment of a two vertically linked arrays.



Dispersion expander switch (VXL1-16 and VXL1-24)

GENERAL SPECIFICATIONS

		VXL1B-24 / VXL1W-24	VXL1B-16 / VXL1W-16	VXL1B-8 / VXL1W-8
SPEAKER TYPE		Full-range, Bass reflex	Full-range, Bass reflex	Full-range, Bass reflex
FREQUENCY RANGE (-10dB)		77 Hz – 20 kHz	81 Hz – 20 kHz	70 Hz – 20 kHz
COVERAGE AREA		Vertical: 15°(+7.5°– -7.5°) (NORMAL), 20°(+7.5°– -12.5°) (WIDE)	Vertical: 25°(+12.5°– -12.5°) (NORMAL), 30°(+12.5°– -15°) (WIDE)	Horizontal: 170°, Vertical: 40°(+20° – -20°)
COMPONENTS	LF-HF	1.5″ (3.75 cm) Cone × 24	1.5″ (3.75 cm) Cone × 16	1.5″ (3.75 cm) Cone × 8
POWER RATING	NOISE	110 W	80 W	40 W
	PGM	220 W	160 W	80 W
	PEAK	440 W	320 W	160 W
NOMINAL IMPEDANCE		8Ω	12Ω	16Ω
SPL	SENSITIVITY (1W; 1M ON AXIS)	91 dB SPL (1 m/1 W)	91 dB SPL (1 m/1 W)	89 dB SPL (1 m/1 W)
	PEAK (CALCULATED)	117 dB SPL (1 m)	116 dB SPL (1 m)	111 dB SPL (1 m)
	I/O CONNECTORS	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm²)	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm²)	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm²)
PROTECTION CIRCUIT	LOAD PROTECTION	Full-range power limiting to protecting network and transducers	Full-range power limiting to protecting network and transducers	Full-range power limiting to protecting network and transducers
FINISH		VXL1B-24: Black painting (approximate value: Munsell N3.0), VXL1W-24: White painting (approximate value: Munsell N9.0)	VXL1B-16: Black painting (approximate value: Munsell N3.0), VXL1W-16: White painting (approximate value: Munsell N9.0)	VXL1B-8: Black painting (approximate value: Munsell N3.0), VXL1W-8: White painting (approximate value: Munsell N9.0)
ENVIRONMENTAL		Dust and water resistant : IP34 (IP35 with port cover)	Dust and water resis tant : IP34 (IP35 with port cover)	Dust and water resistant : IP34 (IP35 with port cover)
PACKAGING		per unit	per unit	per unit
DIMENSIONS (W X H X D)		54 × 1212 × 104 mm (Speaker only), 54 × 1212 × 111.5 mm (With included bracket)	54 × 846 × 104 mm (Speaker only), 54 × 846 × 111.5 mm (With included bracket)	54 × 480 × 104 mm (Speaker only), 54 × 480 × 111.5 mm (With included bracket)
WEIGHT		5.5 kg (Speaker only)	3.9 kg (Speaker only)	2.1 kg (Speaker only)

VXL SERIES P

CONFERENCE BACKGROUND MUSIC

DANTE PoE POWERED SPEAKER

Dante PoE Powered Speaker
VXL SERIES P

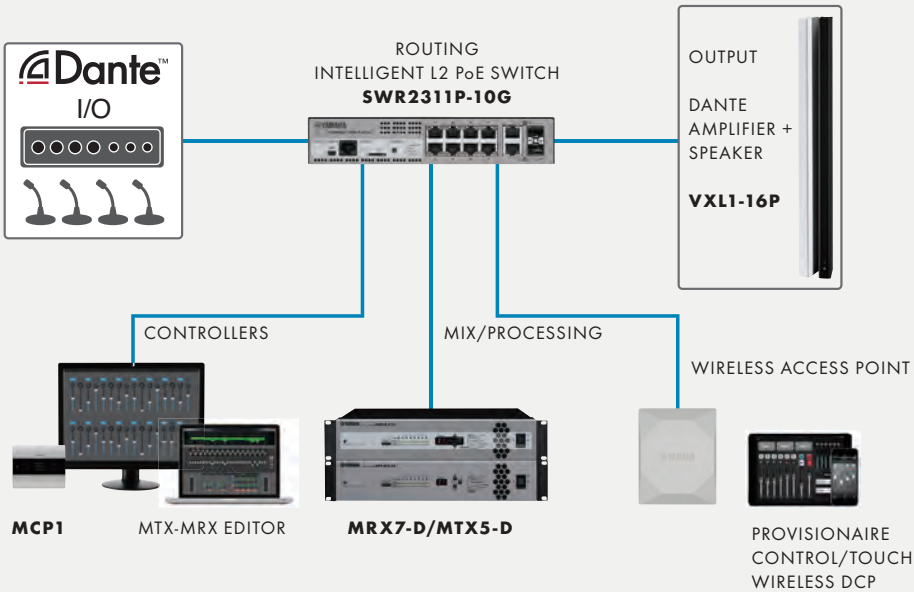
With audio distributed via a Dante network and PoE power* supplied from a PoE compliant L2 switch, the speaker system can be constructed as a network, allowing existing IT infrastructure to be effectively utilized. Simple wiring via LAN cables, easy installation, and no need for a power amp contribute to the flexibility of installation, allowing you to construct an elegant sound system that will not interfere with the design of the conference room.

* When using an IEEE 802.3at compliant PoE power supply device, the maximum speaker output is 15W; when using an IEEE 802.3af compliant PoE power supply device, the maximum speaker output is 6W.



VXL1-16P

- Dante PoE powered speaker
- 1.5 inch (3.75 cm) full-range speaker units with neodymium magnets
- Horizontal dispersion for uniform SPL over a wide area
- Slim design complements any interior décor
- Enclosures can be painted to match surroundings
- Wall mount bracket supplied
- Optional hardware for a wide range of installation needs



PoE SWITCHES



SWR2311P-10G
INTELLIGENT L2 PoE SWITCH



SWR2100P-10G
SIMPLE L2 PoE SWITCH



SWR2100P-5G
SIMPLE L2 PoE SWITCH

SPECIFICATIONS

			VXL1B-16P/VXL1W-16P
SPEAKER TYPE			Full-range, powered speaker, bass reflex
FREQUENCY RANGE (-10dB)*1			80Hz - 20kHz
COVERAGE (HORIZONTAL X VERTICAL) (-6dB)			Horizontal 170° Vertical 25° (+12.5° - -12.5°)
EFFECTIVE COVERAGE (HORIZONTAL X VERTICAL) (-10dB)			Horizontal 180° Vertical 30° (+15° - -15°)
MAXIMUM SPL (PEAK)*2 IEC NOISE@1M			102 dB SPL (when using PoE+ (IEEE 802.3at))
AMPLIFIER	POWER RATING	DYNAMIC	15W (PoE+ (IEEE 802.3 at)), 6W (PoE (IEEE 802.3 af))
		CONTINUOUS	15W (PoE+ (IEEE 802.3 at)), 6W (PoE (IEEE 802.3 af))
	COOLING		Natural convection
	PROTECTION	SPEAKER PROCESSING	Clip limiting, Integral power protection
		AMPLIFIER	Over current protection, Over temperature protection, Under voltage lock out, DC detection, Clock detection
		POWER SUPPLY	Over load protection, Over voltage protection, Under voltage lock out
	CONNECTORS		RJ-45 (Dante) x 1
	POWER REQUIIREMENTS		PoE+ (IEEE 802.3at), PoE (IEEE 802.3af)
	POWER CONSUMPTION	IDLE	3W
		1/8 (PINK NOISE)	6W (PoE+ (IEEE 802.3at)), 4.3W (PoE (IEEE 802.3af))
COMPONENT			1.5″ (3.75cm) Cone x 16
FINISH			VXL1B-16P: Black painting (approximate value: Munsell N3.0) VXL1W-16P: White painting (approximate value: Munsell N9.0)
DIMENSIONS (W X H X D)			54mm x 1120mm x 104mm (Speaker only)
NET WEIGHT			5.0 kg (Speaker only)
INCLUDED ACCESSORIES			Mounting bracket x 2, Bracket base x 2, Safety wire x 1, Machine screws (M5 x 10) x 2, Template x 1, Owner's manual
PACKAGING			per unit
OPTIONS			WMB-L1B (W), HCB-L1B, PA-L1B

*1: Half-space (2π), *2: Measured at 2m; value converted to 1m is shown (frequency range: 100Hz -10kHz)



PROVISIONAIRE TOUCH

VXL1-16P can be remotely controlled from a "ProVisionaire Touch" custom control panel for the iPad via a Wi-Fi network.

*ProVisionaire Touch and ProVisionaire Touch KIOSK can be downloaded from Apple's App Store at no charge.
*Apple, iPhone, iPod touch and iPad are trademarks of Apple Inc. registered in the U.S. and other countries. App Store is a service mark of Apple. Inc.

OPTIONAL ACCESSORIES

FOR VXL SERIES AND VXL SERIES P SLIM LINE ARRAY LOUDSPEAKERS

✹ BLACK AND WHITE VERSIONS AVAILABLE



WMB-L1

2-AXIS ADJUSTMENT WALL BRACKET



ST-L1

TRANSFORMER



HCB-L1B



VCB-L1B



VCSB-L1B



SUPPLIED BRACKET

SPEAKER SYSTEMS

CONFERENCE | BACKGROUND MUSIC | ACOUSTICS

VXC SERIES



VXC8/VXC8W VXC6/VXC6W

VXC4/VXC4W



VXC8S/VXC8SW

CEILING MOUNT SPEAKERS

	VXC4 / VXC4W	VXC6 / VXC6W	VXC8 / VXC8W	VXC8S/VXC8SW*
POWER RATING PGM (IEC)	60 W	150 W	180 W	200W
TRANSFORMER TAPS 100V	30W/15W/7.5W	60W/30W/15W	60W/30W/15W	60W/30W/15W/7.5W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω	8Ω
SENSITIVITY @1W/1M	87 dB SPL	86 dB SPL	90 dB SPL	88dB SPL
MAXIMUM SPL (CALCULATED, 1M)	108 dB SPL	111 dB SPL	116 dB SPL	114 dB SPL
FREQUENCY RANGE (-10dB, 2π)	80Hz - 20kHz	56Hz - 20kHz	55Hz - 20kHz	44Hz - 280Hz
SPEAKER TYPE	Full range, bass reflex	2-way, acoustic suspension	2-way, acoustic suspension	Band-pass Subwoofer
COVERAGE ANGLE (HALF SPACE, 2π)	130° conical	110° conical	100° conical	180° conical
WOOFER	4" cone	6,5" cone	8" cone	8" cone
TWEETER	–	0,75" soft dome	1" softdome	–
CONNECTORS	Euroblock 4P x1	Euroblock 4P x1	Euroblock 4P x1	Euroblock 4P x 1
DIMENSIONS (PHI x D)	225 x 195 mm	286 x 205 mm	325 x 259 mm	325 x 315mm
WEIGHT	2.6 kg	4.4 kg	6.6 kg	8.5 kg
PACKAGING	per pair	per pair	per pair	per unit

* tentative

A VERSATILE LINEUP FOR CLEAR AND CONSISTENT SOUND

- Series offers three different woofer sizes in either black or white.
- The VXC series feature newly customized transducers for superb music reproduction as well as crystal clear announcements.
- Designed with optimized bass-reflex tuning (VXC4,6,8) and band-pass tuning (VXC8S) to offer a firm, tight low-end.
- Equipped with internal transformers that allow both high and low impedance drive, which can be selected by simply switching the tap on the baffle.
- Anti-Drop tab allows the speakers to be mounted temporarily in the ceiling for improved safety and ease of installation.
- A flexible carrying band makes the speakers very portable and allows carrying multiple speakers at once.
- Come complete with O-rings and tile rails for safer and smoother installation.
- Overload protection circuit provided to protect speaker components.

✹ MOUNTING ACFESSORIES (VXC4(W), VXC6(W), VXC8(W): INCLUDED, VXC8S(W): OPTIONAL: AB-C8S)



VXC SERIES F-MODEL



VXC5F/VXC5FW VXC3F/VXC3FW VXC2F / VXC2FW

LOW PROFILE CEILING SPEAKERS

	VXC3F/VXC3FW	VXC5F/VXC5FW	VXC2F/VXC2FW*
POWER RATING PGM (IEC)	40 W	80 W	30W
TRANSFORMER TAPS 100V	15W/7.5W/3.8W	30W/15W/7.5W	15W/7.5W/3.8W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M	87 dB SPL	89 dB SPL	86 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	106 dB SPL	111 dB SPL	104 dB SPL
FREQUENCY RANGE (-10dB, 2π)	71Hz - 20kHz	60Hz - 20kHz	67Hz - 20kHz
SPEAKER TYPE	Full range, bass reflex	Full range, bass reflex	Full range, bass reflex
COVERAGE ANGLE (HALF SPACE, 2π)	140° conical	130° conical	160° conical
WOOFER	3,5" full range unit	4,5" full range unit	2.5" full range unit
TWEETER	–	–	–
CONNECTORS	Euroblock 4P X 1	Euroblock 4P X 1	Euroblock 4P x 1
DIMENSIONS (Ø x D)	285 × 112 mm	324 × 143 mm	225 x 76 mm
WEIGHT	2.5 kg	3.1 kg	1.9 kg
PACKAGING	per pair	per pair	per unit

* tentative

LOW-PROFILE CEILING SPEAKERS DESIGNED FOR SUPERIOR MUSIC REPRODUCTION

- Full range speaker units: VXC5F(W): 4,5", VXC3F(W): 3,5", VXC2F(W): 2.5"
- Engineered for optimum BGM reproduction
- Wide coverage allows a single speaker to cover a wide area
- Direct support for low-impedance or high-impedance connections
- Low-profile design facilitates installation in limited ceiling spaces
- Built-in carrying band increases safety during installation
- Anti-drop tab mechanism provide secure temporary positioning during installation
- Double-threaded speaker clamp screws for speedy tightening
- Paintable grilles with magnetic catches
- Black and white versions available

✷ MOUNTING ACFESSORIES (VXC3F(W), VXC5F(W): INCLUDED, VXC2F(W): OPTIONAL: AB-C2)



CONFERENCE | BACKGROUND MUSIC | ACOUSTICS

PENDANT KITS FOR VXCF CEILING SPEAKERS



PENDANT KITS are optional acessories to mount **VXCF MODEL** ceiling speakers in a pendulum configuration, allowing elegant and practical suspension of speakers at an acoustically optimal height in rooms with very high ceilings. Similar to the ceiling speakers, the pendant kits can be re-painted or even coated with any desired foil, supporting any room design.



PENDANT KIT FOR VXC2F

- **PK-C4W** white finish
- **PK-C4B** black finish

PENDANT KIT FOR VXC3F

- **PKWVXC3F** white finish
- **PKBVXC3F** black finish

PENDANT KIT FOR VXC5F

- **PKWVXC5F** white finish
- **PKBVXC5F** black finish

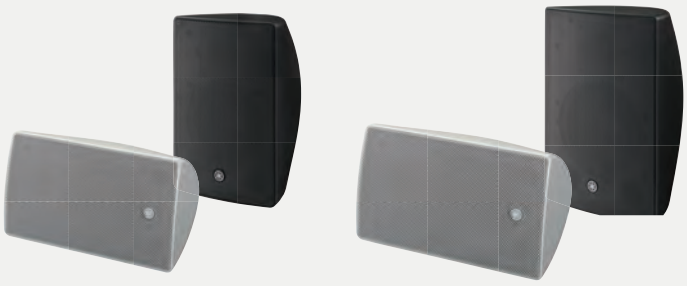
SUPPLIED ACCESSORIES FOR VXC AND VXCF SERIES

	HI-Z/LO-Z SWITCHABLE	CARRYING BAND	ANTI-DROP TAB	DOUBLE THREAD SCREW	MAGNET CATCH GRILLE	PAINTABLE GRILLE	O-RING / TILE RAIL	PACKAGING
VXC2F	Yes	Yes	-	Yes	Yes	Yes	Option (AB-C2)	Per unit
VXC3F	Yes	Yes	Yes	Yes	Yes	Yes	Included	Per pair
VXC4	Yes	Yes	Yes	Yes	–	Yes	Included	Per pair
VXC6	Yes	Yes	Yes	Yes	–	Yes	Included	Per pair
VXC8	Yes	Yes	Yes	Yes	–	Yes	Included	Per pair
VXC8S	Yes	Yes	Yes	Yes	Yes	Yes	Option (AB-C8S)	Per unit

VXS SERIES – VA VERSION

CONFERENCE

BACKGROUND MUSIC



The **VXS WALL MOUNT SPEAKERS** and the **VXC SERIES CEILING MOUNT SPEAKERS** are available as "VA" versions that add EN54-24 voice alarm system standard compliance while retaining the outstanding sonic quality and ease of installation provided by the VXS, VXC and VXC F model speakers; therefore a single speaker can optimally handle both music reproduction and emergency broadcast functions. The VA versions employ flame-retardant materials for the cabinet and baffle, ceramics for the speaker terminal support, and clamping covers on the rear panels to meet EN54-24 standard heat and moisture resistance requirements. 2 models / 4 variations for VXS-VA, 3 models / 6 variations for VXC-VA and 2 models / 6 variations for VXC-F-VA version are available.

EN54-24 CERTIFIED VA SPEAKERS

	VXS5-VA / VXS5-VAW	**VXS8-VA / VXS8-VAW**
POWER RATING PGM (IEC)	150W	180W
TRANSFORMER TAPS 100V	30W/15W/7.5W	60W/30W/15W
NOMINAL IMPEDANCE	8Ω	8Ω
SENSITIVITY @1W/1M	88 dB SPL	89 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	113dB SPL	115dB SPL
FREQUENCY RANGE (-10dB)	62Hz - 20kHz	51Hz - 20kHz
SPEAKER TYPE	2-way, Bass-reflex	2-way, Bass-reflex
COVERAGE ANGLE (HXV)	120° x 120°	100° x 100°
WOOFER	5.25" cone	8" cone
TWEETER	0.75" soft dome	1" soft dome
CONNECTORS	Ceramic terminal block 3P x1	Ceramic terminal block 3P x1
DIMENSIONS (WxHxD / O x D)	176 x 280 x 163mm	278 x 430 x 239mm
WEIGHT	3.6kg	8.2kg
EN54-24 COMPLIANCE	DoP No. 0359-CPR-00406	DoP No. 0359-CPR-00406
WATERPROOF	IP35	IP35
PACKAGING	per pair	per pair

VXS MODELS



TERMINALS

VXS MODELS



TERMINAL COVER

VXS MODELS



EN54-24 CERTIFICATE

SPEAKER SYSTEMS

VXC SERIES – VA VERSION







EN54-24 CERTIFIED VA SPEAKERS

	VXC4-VA/ VXC4-VAW	VXC6-VA/ VXC6-VAW	VXC8-VA/ VXC8-VAW	VXC3F-VA/ VXC3F-VAW	VXC5F-VA/ VXC5F-VAW
POWER RATING PGM (IEC)	30W	150W	180W	40W	80W
TRANSFORMER TAPS 100V	30W/15W/7.5W	60W/30W/15W	60W/30W/15W	15W/ 7.5W/3.8W	30W/15W/7.5W
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω	8Ω	8Ω
SENSITIVITY @1W/1M	87 dB SPL	86 dB SPL	89 dB SPL	86 dB SPL	87 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	108dB SPL	111dB SPL	114dB SPL	105 dB SPL	109 dB SPL
FREQUENCY RANGE (-10dB)	80Hz - 20kHz	56Hz - 20kHz	55Hz - 20kHz	71Hz - 20khz	60Hz - 20kHz
SPEAKER TYPE	Full-range, Acoustic suspension	2-way, Acoustic suspension	2-way, Acoustic suspension	Full range, Bass reflex	Full range, Bass reflex
COVERAGE ANGLE (HXV)	130° conical	110° conical	100° conical	130° conical	140° conical
WOOFER	4" full range	6.5" cone	8" cone	3.5" full range unit	4.5" full range unit
TWEETER	–	0.75" soft dome	1" soft dome	–	–
CONNECTORS	Ceramic terminal block 3P x1	Ceramic terminal block 3P x1	Ceramic terminal block 3P x1	Ceramic terminal block 3P x 1	Ceramic terminal block 3P x 1
DIMENSIONS (WxHxD / O x D)	225 x 232mm	286 x 241mm	325 x 295mm	285x112mm	324x143mm
WEIGHT	2.6kg	4.4kg	6.6kg	2.6kg	3.2kg
EN54-24 COMPLIANCE	DoP No. 0359-CPR-00405	DoP No. 0359-CPR-00405	DoP No. 0359-CPR-00405	DoP No. 0560-CPR-152190028	DoP No. 0560-CPR-152190027
WATERPROOF	IP32	IP32	IP32	IP32	IP32
PACKAGING	per pair	per pair	per pair	per pair	per pair

VXC MODELS



TERMINALS

VXC MODELS



TERMINAL COVER

VXC MODELS



EN54-24 CERTIFICATE

VS SERIES

CONFERENCE

BACKGROUND MUSIC



VS4/VS4W



VS6/VS6W

	SURFACE MOUNT SPEAKERS	
	VS4 / VS4W	**VS6 / VS6W**
POWER RATING PGM (IEC)	30 W	50 W
NOMINAL IMPEDANCE	8 Ω	8 Ω
SENSITIVITY @1W/1M	88 dB SPL	90 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	106dB SPL	110dB SPL
FREQUENCY RANGE (-10dB)	100Hz - 20khz	80hz - 20kHz
SPEAKER TYPE	2-way	2-way
COVERAGE ANGLE (HXV)	110° x 110°	90° x 90°
WOOFER	4"	6,5"
TWEETER / COMPRESSION DRIVER	1"	1"
CONNECTORS	2 pair barrier strip	2 pair barrier strip
DIMENSIONS (W x H x D)	152 x 243 x 172 mm	190 x 308 x 219 mm
WEIGHT	1.9 kg	2.8 kg
PACKAGING	per pair	per pair

OUTSTANDING SONIC PERFORMANCE INDOORS OR OUT, PLUS VISUAL SOPHISTICATION THAT WILL COMPLEMENT ANY DECOR.

- Compact surface mount speakers with superior sound quality and sleek, functional design.
- Series comprises two models: the VS6 (6.5" woofer) and VS4 (4" woofer) - both models feature a 1" balanced dome tweeter and are available in Black or White.
- Waterproof construction meeting the IEC60529 IPX3 rating requirements for outdoor usage.
- Internally mounted transformers allowing operation in 70V or 100V distributed sound systems.
- Dedicated, color-matched steel U-bracket enclosed for horizontal or vertical installation.
- Paintable enclosure and grill to match any decor.
- Overload protection circuit provided to protect speaker components.

INSTALLATION SERIES

LIVE CONFERENCE ACOUSTICS

Supporting even the most demanding multi-cabinet Sound Reinforcement installations, the **INSTALLATION SERIES** offers a range of models that can be combined as required while delivering the most natural sound field possible, with the greatest controllability. The **INSTALLATION SERIES** has been specifically designed to provide an acoustic „white canvas" on which the most delicate tonal gradations will stand out clearly. The entire lineup has been designed with consistent phase characteristics so that they will deliver optimum performance in any combination, and respond smoothly to equalization for unprecedented installation flexibility and natural sound.

5 YEARS GUARANTEE



INSTALLATION SERIES

- 16 models from 5" to 18".
- 4 different horn dispersion paterns available for 12" and 15" models.
- Sound and phase characteristics matched within the range of Installation Series models for optimum performance in any combination.
- Horn can be rotated 90-degrees for vertical or horizontal mounting.
- M8 and M10 suspension points for flexible rigging.
- Broad range of array frames and U-brackets available for flexible mounting.
- Parallel-wired Neutrik NL4 and barrier strip connectors.
- Black and white finish available for all models.
- Switchable passive and bi-amped mode on 12" and 15" models.
- Rotatable and removable logo.
- Speaker processing parameters included in DME designer and MTX-MRX editor.
- Electro-acoustic simulation through YS3 software. CLF and EASE data available.
- IS series speakers and accessories are available on a built to order schedule.



IF2205



IF2108



IF2208

5" AND 8" 2-WAY FULL RANGE SR SPEAKERS

	IF2205(W)	IF2108(W)	IF2208(W)
POWER RATING PGM (IEC)	200 W	200 W	400W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M	89 dB SPL	95 dB SPL	95 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	115 dB SPL	121 dB SPL	124 dB SPL
FREQUENCY RANGE (-10dB)	65Hz - 19kHz	55Hz - 19kHz	55Hz - 19kHz
SPEAKER TYPE	2-way	2-way	2-way
COVERAGE ANGLE	90° x 60° (rotatable)	90° x 60° (rotatable)	90° x 60° (rotatable)
WOOFER	2 x 5"	8"	2 x 8"
TWEETER/COMPRESSION DRIVER	1"	1,7"	1,7"
CONNECTORS	barrier strip	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	457 x 146 x 226 mm	283 x 448 x 250 mm	283 x 673 x 250 mm
WEIGHT	7.5 kg	14 kg	19 kg



IF2112M



IF2112



IF2112AS

12" 2-WAY FULL RANGE SR SPEAKERS

	IF2112M (64, 95, 99)(W)	IF2112 (64, 95, 99)(W)	IF2112AS(W)
POWER RATING PGM (IEC)	700 W	1200 W	1200 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	96 dB SPL	96 dB SPL	96 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	126 dB SPL	130 dB SPL	130 dB SPL
FREQUENCY RANGE (-10dB)	55Hz - 20kHz	50Hz - 20kHz	50Hz - 20kHz
SPEAKER TYPE	2-way, passive & bi-amp	2-way, passive & bi-amp	2-way, passive & bi-amp
COVERAGE ANGLE	see model nr.	see model nr.	60°-100° x 60°
WOOFER	12"	12"	12"
TWEETER / COMPRESSION DRIVER	1,7"	3"	3"
CONNECTORS	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	378 x 695 x 454 mm	378 x 695 x 454 mm	378 x 695 x 333 mm
WEIGHT	28 kg	31 kg	29 kg



IF2115M



IF2115



IF2115AS

15" 2-WAY FULL RANGE SR SPEAKERS

	IF2115M (64, 95, 99)(W)	IF2115 (64, 95, 99)(W)	IF2115AS(W)
POWER RATING PGM (IEC)	700 W	1200 W	1200 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	97 dB SPL	97 dB SPL	97 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	128 dB SPL	131 dB SPL	131 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	45Hz - 20kHz	45Hz - 20kHz
SPEAKER TYPE	2-way, passive & bi-amp	2-way, passive & bi-amp	2-way, passive & bi-amp
COVERAGE ANGLE	see model nr.	see model nr.	60°-100° x 60°
WOOFER	15"	15"	15"
TWEETER / COMPRESSION DRIVER	1,7"	3"	3"
CONNECTORS	NeutrikNL4 + barrier strip	Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	448 x 770 x 534 mm	448 x 770 x 534 mm	448 x 770 x 374 mm
WEIGHT	34 kg	39 kg	35 kg

✹ CONNECTIONS



✹ WHITE VERSION (W)





IF3115



IH2000



IL1115

15" 3-WAY SR SPEAKERS

	IF3115 (64, 95)(W)	IH2000 (64, 95)(W)	IL1115(W)
POWER RATING PGM (IEC)	1400 W / 250 W	250 W	1400 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (BI-AMPED)	97/106 dB SPL	106 dB SPL	97 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	131/133 dB SPL	133 dB SPL	131 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	200Hz - 20kHz	45Hz - 2.5kHz
SPEAKER TYPE	3-way, bi-amp & tri-amp	2-way, passive & bi-amp	Subwoofer
COVERAGE ANGLE	see model nr.	see model nr.	–
WOOFER	15" + 8"	8"	15"
TWEETER / COMPRESSION DRIVER	3"	3"	–
CONNECTORS	Neutrik NL8 + NL4 + barrier strip	Neutrik NL4 + barrier strip	Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	610 x 1006 x 600 mm	610 x 591 x 600 mm	610 x 591 x 600 mm
WEIGHT	64 kg	33 kg	38 kg



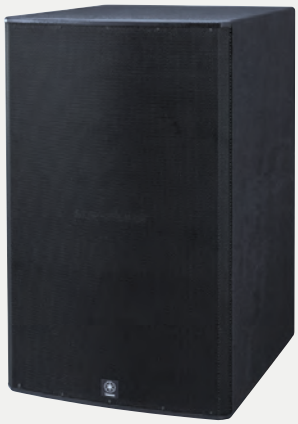
IS1112



IS1215



IS1118



IS1218

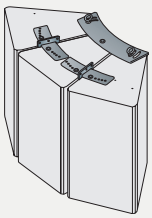
	SUBWOOFERS			
	IS1112(W)	**IS1215(W)**	**IS1118(W)**	**IS1218(W)**
POWER RATING PGM (IEC)	1400 W	2800 W	1400 W	2800 W
NOMINAL IMPEDANCE	8 Ω	4 Ω	8 Ω	4 Ω
SENSITIVITY @1W/1M	93 dB SPL	97 dB SPL	96 dB SPL	99dB SPL
MAXIMUM SPL (CALCULATED, 1M)	127 dB SPL	134 dB SPL	130 dB SPL	136 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 2kHz	40Hz - 2.5kHz	33Hz - 3kHz	33Hz - 3kHz
SPEAKER TYPE	Subwoofer	Subwoofer	Subwoofer	Subwoofer
WOOFER	12"	2x15"	18"	2x18"
CONNECTORS	Neutrik NL4 + barrier strip	Neutrik NL4 + barrier strip	Neutrik NL4 + barrier strip	Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	378 x 394 x 454 mm	448 x 883 x 610 mm	610 x 591 x 709 mm	610 x 1006 x 709 mm
WEIGHT	24 kg	63 kg	44 kg	76 kg

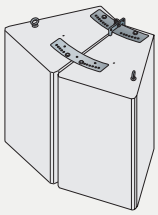
✹ CONNECTIONS

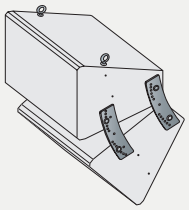


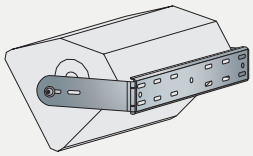
✹ WHITE VERSION (W)



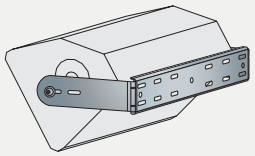








	HORIZONTAL ARRAY FRAME FOR 3 SPEAKERS (BLACK, WHITE)				HORIZONTAL ARRAY FRAME FOR 2 SPEAKERS (BLACK, WHITE)			VERTICAL ARRAY FRAME FOR 2 SPEAKERS (BLACK, WHITE)			U-BRACKETS (BLACK, WHITE)		
	HAF3-2112	HAF3-2115	HAF3-3115	HAF3-S18	HAF2-2112	HAF2-2115	HAF2-3115	VAF2-2112	VAF2-2115	VAF2-3115	UB2112	UB2115	UB2000
IF3115			•	•			•			•			
IH2000			•	•			•			•			•
IL1115			•				•						•
IF2115/ IF2115M		•				•			•			•	
IF2115AS												•	
IF2112/ IF2112M	•				•			•			•		
IF2112AS											•		
IF2208													
IF2108													
IF2205													








U-BRACKETS (BLACK, WHITE)			BG-VC1 COMPLIANT U-BRACKETS*			CEILING BRACKETS	WALL BRACKETS				BATON BRACKETS	TRI-POD SPEAKER STAND
UB2208	UB2108	UB2205	HUB2205	VUB2108	VUB2112	BCS251	BWS251-300	BWS251-400	WM2205	WM2X08	BBS251	STAGEPAS-SPKSTD
					•							•
					•							
					•							•
•						•	•	•		•	•	•
	•			•		•	•	•		•	•	•
		•	•			•	•	•	•		•	•

* BG-VC1 is a German safety requirement compliance for the installation of stage scenery products above audience areas.

LIVE CONFERENCE ACOUSTICS

CZR / CXSXLF SERIES

The **CZR** and **CXSXLF SERIES** of passive loudspeakers and subwoofers offer high power handling and outstanding sonic performance in a portable, lightweight yet rugged design. The CZR series is ideal for a range of live performance and installed sound environments - from live bands at outdoor festivals to DJ's in clubs. The CZR series deliver crystal clear, high quality sound with impressive bass response. The CXS series deliver an extended low frequency response at best-in-class SPL.

LOUDSPEAKERS CZR SERIES

SUBWOOFERS CXS XLF SERIES



CZR15 & CXS18XLF



CZR12 & CXS15XLF



CZR10 & CXS15XLF

CZR AND CXSXLF SERIES

- HF : 2" voice coil and 1" throat compression driver, titanium diaphragm
- LF: 3" voice coil for CZR and 4" voice coil for CXS, neodymium magnet
- High power input and Bi-amp capable
- Durable plywood cabinet with Polyurea coating
- Rotatable wide dispersion constant directivity horn
- Mirror set up for floor monitoring (CZR12 and CZR15)
- Dual angle pole socket
- Vertical and horizontal U-bracket
- M10 and M8 rigging points



CZR15

- 15″/2″ FULL RANGE
- 1600W / 129dB PEAK SPL



CZR12

- 12″/2″ FULL RANGE
- 1600W / 129dB PEAK SPL



CZR10

- 10″/2″ FULL RANGE
- 1600W / 127dB PEAK SPL



CXS18XLF

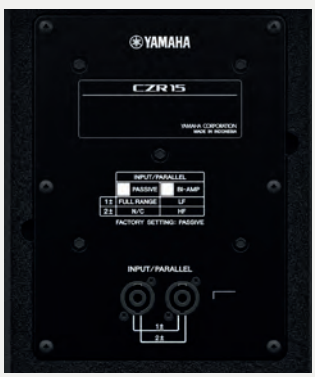
- 18″ SUB WOOFER
- 2000W / 133dB PEAK SPL



CXS15XLF

- 15″ SUB WOOFER
- 1600W/ 131dB PEAK SPL

REAR PANELS



CZR



CXSXLF

CZR WEDGE PLACEMENT



GENERAL SPECIFICATIONS

			CZR15	CZR12	CZR10	CXS18XLF	CXS15XLF
SYSTEM TYPE			2-way Speaker, Bass-reflex Type			Subwoofer, Bass-reflex Type	
FREQUENCY RANGE (-10dB)	PASSIVE		43 Hz - 20 kHz	43 Hz - 20 kHz	43 Hz - 20 kHz	32 Hz - 3kHz	33 Hz - 3.5kHz
	NORMAL *1		34 Hz - 20 kHz	42 Hz - 20 kHz	46 Hz - 20 kHz	32 Hz - 150 Hz	35 Hz - 150 Hz
	EXTEND *1		33 Hz - 20 kHz	38 Hz - 20 kHz	43 Hz - 20 kHz	29 Hz - 150 Hz	33 Hz - 150 Hz
COVERAGE ANGLE			H90° x V50° Rotatable Constant Directivity Horn	H90° x V60° Rotatable Constant Directivity Horn	H90° x V60° Rotatable Constant Directivity Horn	–	–
CROSSOVER			Passive 2.0 kHz (Bi-amp selectable)	Passive 2.0 kHz (Bi-amp selectable)	Passive 2.5 kHz (Bi-amp selectable)	Recommendation: 29 Hz - 150 Hz ('extend', with DSP)	recommendation: 36 Hz - 120 Hz ('extend', with DSP)
NOMINAL IMPEDANCE	PASSIVE		8Ω	8Ω	8Ω	8Ω	8Ω
	BI-AMP		LF: 8Ω, HF: 16Ω	LF: 8Ω, HF: 16Ω	LF: 8Ω, HF: 16Ω	–	–
POWER RATING	PASSIVE	NOISE	400 W	400 W	350 W	500 W	400 W
(EIA 426-A)		PGM	800 W	800 W	700 W	1000 W	800 W
		MAX	1600 W	1600 W	1400 W	2000 W	1600 W
POWER RATING	BI-AMP	NOISE	LF: 400W, HF: 50W	LF: 400W, HF: 50W	LF: 350W, HF: 50W	–	–
(LF: EIA 426-A)		PGM	LF: 800W, HF: 100W	LF: 800W, HF: 100W	LF: 700W, HF: 100W	–	–
(HF: AES)		MAX	LF: 1600W, HF: 200W	LF: 1600W, HF: 200W	LF: 1400W, HF: 200W	–	–
SENSITIVITY (1W, 1M)	PASSIVE		97dB SPL	97dB SPL	95dB SPL	100 dB SPL	98 dB SPL
	BI-AMP		LF: 99dB SPL, HF: 108dB SPL	LF: 97dB SPL, HF: 108dB SPL	LF: 95dB SPL, HF: 108dB SPL	–	–
MAXIMUM SPL (CALCULATED, 1M)	PASSIVE		129 dB SPL	129 dB SPL	127 dB SPL	133 dB SPL	130 dB SPL
	BI-AMP		LF: 131dB SPL, HF: 131dB SPL	LF: 128dB SPL, HF: 129dB SPL	LF: 126dB SPL, HF: 127dB SPL	–	–
TRANSDUCER		LF	15"" Cone, 3" Voice Coil, Neodymium magnet	12" Cone, 3"Voice Coil, Neodymium magnet	10" Cone, 3"Voice Coil, Neodymium magnet	18" Cone, 4"Voice Coil, Ferrite magnet	15" Cone, 4" Voice Coil, Ferrite magnet
		HF	2" Voice Coil, 1" Throat Compression Driver, Titanium diaphragm, Neodymium magnet			–	–
ENCLOSURE MATERIAL, FINISH, COLOR			Plywood, Durable Polyurea coating, Black			Plywood, Durable Polyurea coating, Black	
FLOOR MONITOR ANGLE			50° Symmetrical	50° Symmetrical	50°	–	–
DIMENSIONS (WXHXD, WITH RUBBER FEET)"			450x761x460 mm	410 x 646 x 394 mm	315 x 537 x 345 mm	550 x 657 x 720 mm	450 x 587 x 600 mm
NET WEIGHT			21.3 kg	18.0 kg	14.0 kg	43.6kg	35.6 kg
HANDLES			Aluminium die-cast, Side x 2		Aluminium die-cast, Top x 1, Side x 1	Aluminium die-cast, Side x 2	
POLE SOCKET			Φ35 mm, (Dual angle 0° or -7°)			Φ35 mm (depth 80mm), M20 threaded (depth 25mm)	
RIGGING POINTS			M10 x 12 points		M10 x 8 points, M8 x 2 points	–	–
CONNECTORS			SpeakON NL4MP x 2 (Parallel)			SpeakON NL4MP x 3 (Parallel x2, Output x1)	
OPTIONAL BRACKET			UB-DZR15H/V	UB-DZR12H/V	UB-DZR10H/V	SPW-1 (casters)	SPW-1 (casters)
OPTIONAL COVER			SPCVR-DZR15	SPCVR-DZR12	SPCVR-DZR10	SPCVR-DXS18X	SPCVR-DXS15X

OPTIONAL MOUNTING U-BRACKETS FOR CZR SERIES



UB-DZR15H



UB-DZR12H



UB-DZR10H



UB-DZR15V



UB-DZR12V



UB-DZR10V

OPTIONAL COVERS



SPVCR-DZR15



SPVCR-DZR12



SPVCR-DZR10



SPVCR-DXS18X



SPVCR-DXS15X



SPW-1

OPTIONAL CASTERS FOR

- CXS15XLF
- CXS18XLF

CBR SERIES

LIVE CONFERENCE

The **CBR SERIES** is a new lineup of passive loudspeakers developed by adopting the extensive knowledge of speaker design and acoustic technologies that Yamaha has accrued over a long and storied history of making speakers of every kind. Combining a meticulous materials selection process, thorough customization of the audio components, and a fresh, innovative approach to speaker design, our engineering team's primary focus was to deliver high-power, high-definition sound in a highly portable and versatile design that is equally at home in front-of-house, floor monitoring, or rigged configurations.



CBR15

CBR12

CBR10



- Custom designed transducers and wide-dispersion constant directivity horn for powerful high-definition sound
- HF protection and highly responsive LF unit for reliable performance at any output level
- Rugged, highly portable enclosure design
- Simple connectivity
- Smart enclosure design for floor monitoring
- Rigging points for installation applications

CBR SERIES PASSIVE SR LOUDSPEAKERS			
	CBR15	**CBR12**	**CBR10**
POWER RATING PGM (IEC)	500 W	350 W	350 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	96 dB SPL	96 dB SPL	94 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	126 dB SPL	125 dB SPL	123 dB SPL
FREQUENCY RANGE (-10dB)	46Hz - 20kHz	48Hz - 20kHz	50Hz - 20kHz
SPEAKER TYPE	2-way, bass reflex	2-way, bass reflex	2-way, bass reflex
COVERAGE ANGLE	90° x 60°	90° x 60°	90° x 60°
WOOFER	15"	12"	10"
TWEETER / COMPRESSION DRIVER	1.4"	1.4"	1"
CONNECTORS	1x speakON NL4MP, 1/4" PHONE	1x speakON NL4MP, 1/4" PHONE	1x speakON NL4MP, 1/4" PHONE
DIMENSIONS (W x H x D)	455 x 700 x 378 mm	376 x 601 x 348 mm	308 x 493 x 289 mm
WEIGHT	17.7 kg	13.9 kg	9.4 kg

OPTIONAL ACCESSORIES

FUNCTIONAL SPEAKER COVERS

SPCVR-1501





POLYESTER SURFACE WITH
PVC COATING BACKSIDE

COMPATIBLE SPEAKERS

- SPCVR-0801 DXR8
- SPCVR-1001 DXR10, DBR10, CBR10
- SPCVR-1201 DXR12, DBR12, CBR12

SPEAKER BRACKETS



BBS251
BATON BRACKET



BCS251
CEILING BRACKET



BWS251-300/400
WALL BRACKET



EYE BOLTS
(NOT INCLUDED)

LIVE CONFERENCE ACOUSTICS

DZR / DXSXLF SERIES

DZR and **DXSXLF SERIES** is positioned at the highest level of Yamaha professional live SR powered loudspeaker and Yamaha's first fully integrated & digitally connected and smart / editable Speaker Range for Professional Live Sound Productions – in particular considering the DANTE versions. Based on Yamaha's long professional audio experiences with digital processing technologies, amplifier designing and speaker development know-how, ultimate power is now available as 10", 12" and 15" 2-way enclosure and 15", 8" and 2" 3-way enclosure, matched by two new 'eXtended Low Frequency' sub woofers for a natural, balanced yet extremely powerful and clear sound. Truly musical bass sound reproduction, truly professional sound clarity and best-in- class sound pressure level guarantee a perfect performance for any music genre.

Dante™

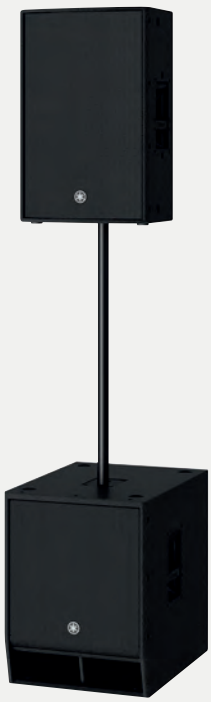
POWERED LOUDSPEAKERS DZR SERIES
POWERED SUBWOOFERS DXS XLF SERIES



DZR315(-D) & DXS18XLF(-D)



DZR15(-D) & DXS18XLF(-D)



DZR12(-D) & DXS15XLF(-D)



DZR10(-D) & DXS15XLF(-D)

DZR AND DXSXLF SERIES

- 96kHz high performance DSP for truly high-definition sound with super low latency
- Advanced FIR-X tuning, the combination of FIR filtering and EQ
- D-Contour and highly reliable protection
- Dante models listed for sophisticated integration with digital consoles
- LCD display for easy processor programming and editing
- Monitoring and editing on TF, QL, CL consoles and Pro Visionaire Touch iPad app
- High power 2000W Class-D Amplifiers
- HF : 2" voice coil and rotatable 1" throat Compression driver, Titanium diaphragm
- LF: 3" voice coil and Neodymium magnet for DZR, 4" voice coil Ferrite magnet for DXSXLF
- Durable plywood cabinet with Polyurea coating
- Wide Dispersion CD Waveguide Horn
- Mirror set up for floor monitoring (DZR12 & DZR15)
- Dual angle pole socket
- Vertical and horizontal U-bracket
- M10 and M8 rigging points



DZR315(-D)

- 15″/8″/2″ FULL RANGE
- 2000W / 143dB PEAK SPL
- D version: Dante audio networking



DZR15(-D)

- 15″/2″ FULL RANGE
- 2000W / 139dB PEAK SPL
- D version: Dante audio networking



DZR12(-D)

- 12″/2″ FULL RANGE
- 2000W / 139dB PEAK SPL
- D version: Dante audio networking



DZR10(-D)

- 10″/2″ FULL RANGE
- 2000W / 137dB PEAK SPL
- D version: Dante audio networking



DXS18XLF(-D)

- 18″ SUB WOOFER
- 1600W / 136dB PEAK SPL
- D version: Dante audio networking



DXS15XLF(-D)

- 15″ SUB WOOFER
- 1600W / 136dB PEAK SPL
- D version: Dante audio networking

DZR WEDGE PLACEMENT



REAR PANELS



DZR



DZR-D models



DXSXLF



DXS-D models

GENERAL SPECIFICATIONS

		DZR315(-D)	DZR15(-D)	DZR12(-D)	DZR10(-D)	DXS18XLF(-D)	DXS15XLF(-D)
SYSTEM TYPE		3-way, Bi-ampled Powered Speaker, Bass-reflex	2-way, Bi-amped Powered Speaker, Bass-reflex			Powered Subwoofer, bass-reflex	
FREQUENCY RANGE (-10dB)		31Hz - 20kHz	34Hz - 20kHz	39Hz - 20kHz	44Hz - 20kHz	30Hz - 150Hz	33Hz - 150Hz
COVERAGE ANGLE		H75 x V50	H90 x V50 (Rotatable)	H90 x V60 (Rotatable)	H90 x V60 (Rotatable)	–	–
CROSSOVER FREQUENCY, TYPE		700Hz (FIR-X) 2.5kHz (Passive)	1.7kHz (FIR-X)	1.8kHz (FIR-X)	1.8kHz (FIR-X)	–	–
MAXIMUM SPL [*1]		143dB SPL	139dB SPL	139dB SPL	137dB SPL	136dB SPL	136dB SPL
TRANSDUCERS	LF	15" Cone, 3" Voice Coil, Neodymium magnet	15" Cone, 3" Voice Coil, Neodymium magnet	12" Cone, 3" Voice Coil, Neodymium magnet	10" Cone, 3" Voice Coil, Neodymium magnet	18" Cone, 4" Voice Coil, Ferrite magnet	15" Cone, 4" Voice Coil, Ferrite magnet
	MF	8" Cone, 1.5" Voice Coil, Ferrite magnet	–	–	–	–	–
	HF	2" Voice Coil, 1" Throat Compression Driver, Titanium diaphragm, Neodymium magnet				–	–
ENCLOSURE MATERIAL, FINISH, COLOR		Plywood, Durable Polyurea Painting, Black					
FLOOR MONITOR ANGLE		–	50° Symmetrical	50° Symmetrical	50°	–	–
DIMENSIONS (WXHXD, WITH RUBBER FEET)		550x897x520mm	450x761x460mm	410x646x394mm	315x537x345mm	550x657x720mm	450x587x600mm
WEIGHT		41.6 kg	25.2 kg	21.4 kg	17.9 kg	48.9 kg	40.0 kg
HANDLES		Aluminium die-cast, Side x2			Aluminium die-cast, Top x1, Side x1	Aluminium die-cast, Side x2	
POLE SOCKET		–	Φ35 mm x2 (0° or -7°)			Φ35 mm (depth 80mm), M20 Threaded depth 25mm)	
RIGGING POINTS		M10 x16	M10 x12		M10 x8, M8 x2	–	
AMPLIFIER TYPE		Class-D				Class-D	
POWER RATING	DYNAMIC[*2]	2000W (LF:1000W, MF/HF: 1000W)				1600W	
CONTINUOUS		1300W (LF: 920W, MF/HF: 380W)				1230W	
COOLING		Fan cooling, Variable speeds.					
DSP, AD/DA		96kHz processing with 96kHz AD/DA and FIR filter					
CONNECTORS	ANALOG IN	Combo x2, Line level (Maximum +24dBu), Input impedance 20kΩ					
	ANALOG OUT	XLR3-32 x2, CH1: THRU (fix), CH2: THRU or DSP OUT				XLR3-32 x2, CH1/2: THRU or DSP OUT	
	DANTE (-D MODEL ONLY)	etherCON CAT5e x2 (Daisy Chain), 2 IN / 2 OUT (Fs: 44.1k,48k 88.2k,96k) and Remote Control, 1000BASE-T					
	USB	USB2.0 Host 5V 500mA, for USB memory DATA storage/load					
	AC IN	IEC AC inlet x1 (V-Lock)					
IDLE POWER CONSUMPTION		45W				40W	
1/8 POWER CONSUMPTION		150W				180W	
OPTIONS	U-BRACKET	–	UB-DZR15H/V	UB-DZR12H/V	UB-DZR10H/V	–	–
	COVER	SPCVR-DZR315	SPCVR-DZR15	SPCVR-DZR12	SPCVR-DZR10	SPCVR-DXS18X	SPCVR-DXS15X
	CASTER	–	–	–	–	SPW-1	SPW-1

[*1]: Measured peak SPL with pink noise @1m.
[*2]: Total peak power of individual outputs (AC 120V, 25°C. This value was measured at minimum load impedance, with protection released.

OPTIONAL MOUNTING U-BRACKETS FOR DZR15/12/10 (D)



UB-DZR15H



UB-DZR12H



UB-DZR10H



UB-DZR15V



UB-DZR12V



UB-DZR10V

OPTIONAL COVERS



SPCVR-DZR315



SPCVR-DZR15



SPCVR-DZR12



SPCVR-DZR10



SPCVR-DXS18X



SPCVR-DXS15X



SPW-1

OPTIONAL CASTERS FOR

- DXS15XLF(-D)
- DXS18XLF(-D)

CONFERENCE LIVE

DSR SERIES

POWER PERFECTLY PROCESSED

DSR SERIES POWERED LOUDSPEAKERS take portable loudspeakers to the extreme limits of their potential. Output levels are pushed to the highest sound pressure levels possible, yet in cabinets that are lightweight and compact. Sound resolution remains superb, no matter how hard or for how long the speakers are driven. Designed by applying our leading-edge digital and acoustic technologies developed over decades, the **DSR-SERIES** provides a listening experience that redefines high definition sound reinforcement.

- EXTREMELY LOUD
- COMPACT SPEAKERS WITH 48-BIT DSP AND FIR-X TUNING
- PREMIUM GRADE TRANSDUCERS
- 7-YEAR'S GUARANTEE

UP TO 1500W





HEAVY-DUTY POWDER-COATED STEEL GRILLES



LINE-X® COATING (DAMAGE RESISTANT)



LOCKING IEC POWER CONNECTOR



M10 RIGGING POINTS FOR SUSPENDED IN-STALLATION (DSR115/ DSR112).



BACKSIDE (DSR215/ DSR115/DSR112)

DSR215

- LF: 2x15" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1500W (LF: 1020W HF: 480W)
  Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL: 138dB SPL
- Dimensions: W 467 mm, H 1158 mm, D 520 mm
- Net weight: 49.8 kg

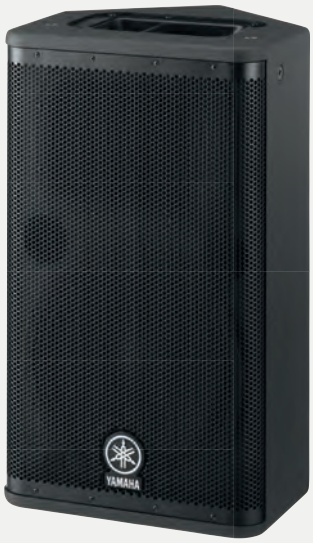




DSR115

- LF: 15" cone
- Voice Coil: 3"
- Magnet: Neodymium
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1500W (LF: 1020W HF: 480W)
  Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL: 136dB SPL
- Dimensions: W 442 mm, H 755 mm, D 423 mm
- Net weight: 28 kg

CONFERENCE LIVE



DSR112

- LF: 12" cone
- Voice Coil: 3"
- Magnet: Neodymium
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1500W (LF: 1020W HF: 480W)
  Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL : 134dB SPL
- Dimensions: W 370 mm, H 638 mm, D 368 mm
- Net weight: 21.2 kg

DSR118W

- LF: 18" cone
- Voice Coil: 3"
- Output power:
  Dynamic: 1020W
  Continuous: 800W
- Max. SPL: 132dB SPL
- Dimensions: W 520 mm, H 638 mm, D 584 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 42 kg





BACKSIDE (DSR118W)

	DSR215	DSR115	DSR112	DSR118W
TRANSDUCER: LF	2x 15"cone / 2,5" Voice Coil	15" cone / 3" Voice Coil	12" cone / 3" Voice Coil	1x 18" cone / 2,5" Voice Coil
TRANSDUCER: HF	2" Diaphragm	2" Diaphragm	2" Diaphragm	–
POWER RATING	1500W (LF:1020W/HF: 480W)	1500W (LF:1020W/HF: 480W)	1500W (LF:1020W/HF: 480W)	1020W
MAXIMUM SPL	138 dB SPL	136 dB SPL	134 dB SPL	132 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	45Hz - 20kHz	55Hz - 20kHz	40Hz - 130Hz
DSP	D-Contour	D-Contour	D-Contour	–
INPUTS / OUTPUTS	In: XLR, Phone / Out: XLR	In: XLR, Phone / Out: XLR	In: XLR, Phone / Out: XLR	In: 2xXLR / Out: 2xXLR
RIGGIN POINTS	–	3 (fits for M10x18 mm eybots)	3 (fits for M10x18 mm eybots)	–
POLE SOCKET	–	35 mm (Bottom)	35 mm (Bottom)	35 mm (Top)
COOLING	Natural convection	Natural convection	Natural convection	Natural convection
DIMENSIONS (W x H x D)	467 x 1158 x 520 mm	442 x 755 x 423 mm	370 x 638 x 368 mm	520 x 638 x 584mm
MATERIAL/FINISH	Wood, Line-X	Wood, Line-X	Wood, Line-X	Wood, Line-X
WEIGHT	49.8 kg	28 kg	21.2 kg	42 kg

SPEAKER COVERS FOR DSR SERIES

Tough as nails armored speaker covers for **DSR SERIES.** These newly designed covers are compact, collapsable & light in weight. They are an excellent choice for all situations where a full hardshell case would prove impractical.



SCDSR112



SCDSR115



SCDSR118W

SCDSR112
FOR YAMAHA DSR112

- Padded Speaker Cover for DSR112
- Tearproof polyester material
- Pouch for cable
- Handle Cutout
- Yamaha Logo
- Colour: Black

SCDSR115
FOR YAMAHA DSR115

- Padded Speaker Cover for DSR115
- Tearproof polyester material
- Pouch for cable
- Handle Cutout
- Yamaha Logo
- Colour: Black

SCDSR118W
FOR YAMAHA DSR118W

- Padded Speaker Cover for DSR118W
- Tearproof polyester material
- Handle Cutout
- Yamaha Logo
- Colour: Black

CONFERENCE LIVE

DXR SERIES MKII

POWER TO THE PEOPLE!

DXR SERIES MKII POWERED LOUDSPEAKERS offer superb high-definition sound and class-leading sound pressure levels – yet in a more compact and extremely functional design that provides a level of versatility unmatched by any speaker in its class today. Each DXR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. In addition, all full range models feature Yamaha's proprietary FIR-X tuning™ utilizing linear phase FIR filters for the crossover network.

7 YEARS GUARANTEE

YAMAHA + NEXO

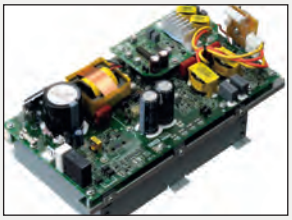
DXR MKII Series loudspeakers developed in cooperation with NEXO.

- EXTREMELY LOUD
- INTELLIGENT 3-CHANNEL-MIXER
- CLEAR VOCAL WITH NEWLY EQUIPPED 1,75" HF TRANSDUCER
- COMPACT SPEAKERS WITH 48-BIT DSP AND FIR-X TUNING
- 7-YEAR'S GUARANTEE





SYMMETRICAL ENCLOSURE DESIGN FOR MIRROR-MODE FLOOR MONITORING (DXR12/ DXR15)



HIGH-EFFICIENCY 1100W CLASS-D AMPLIFIERS



DURABLE, COMPACT ABS ENCLOSURES



BACKSIDE (DXR15MKII/DXR12MKII/ DXR10MKII/DXR8MKII)



DXR15MKII

- LF: 15" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 1.75"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1100W (LF: 950W HF: 150W)
  Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 134dB SPL
- Dimensions: W 445 mm, H 700 mm, D 380 mm
- Net weight: 21.8 kg

DXR12MKII

- LF: 12" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 1.75"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1100W (LF: 950W HF: 150W)
  Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 134dB SPL
- Dimensions: W 362 mm, H 601 mm, D 350 mm
- Net weight: 18.6 kg



CONFERENCE LIVE



DXR10MKII

- LF: 10" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1.75"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1,100W (LF: 950W HF: 150W)
  Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 132dB SPL
- Dimensions: W 305 mm, H 502 mm, D 310 mm
- Net weight: 13.9 kg

DXR8MKII

- LF: 8" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1.75"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
  Dynamic: 1,100W (LF: 950W HF: 150W)
  Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 130 dB SPL
- Dimensions: W 280 mm, H 458 mm, D 280 mm
- Net weight: 12.8 kg



DXS SERIES

POWER IN VERSATILITY

DXS SERIES is a new line of compact, high output **POWERED SUBWOOFERS** that match perfectly with **DSR, DXR** and **DBR** fullrange powered loudspeakers.

- THE DXS'S HIGH PERFORMANCE CLASS-D AMPLIFIER IS CAPABLE OF PRODUCING HIGH POWER OUTPUTS, REALIZING A HIGH SPL DELIVERED WITH EXCEPTIONAL CLARITY AND ACCURACY.
- D-XSUB BASS PROCESSING IS A DSP TECHNOLOGY THAT GIVES USERS ADDITIONAL DYNAMIC CONTROL OF THE FREQUENCY RANGE TO MEET THE DEMANDS OF A VARIETY OF APPLICATIONS OR MUSICAL STYLES.
- THE CARDIOID MODE SETTING ADDS ADDITIONAL CONTROL OF LOW FREQUENCIES FOR SUB-WOOFER ARRAYS OF TWO OR MORE DXS18 SPEAKERS, EFFECTIVELY REDUCING THE SPL OF BASS DIRECTED TOWARDS THE STAGE WHILE INCREASING THE BASS LEVELS DIRECTED TOWARDS THE AUDIENCE.



DXS18

- LF: 18" cone
- Voice Coil: 4"
- Magnet: Ferrite
- Max SPL: 136dB
- Output power: Dynamic: 1020W, Continuous: 800W
- Frequency range (-10dB): 32Hz - 120Hz
- Dimensions: W 563 mm, H 683 mm, D 721 mm
- Material: Plywood (LINE-X®, black)
- Pole socket: 35mm (depth 80mm) & M20 (depth 25mm)
- Net weight: 49.7 kg

SPW-1

OPTIONAL WHEEL KIT

For more fast and convenient setup of your DXS subwoofers, optional casters are available, featuring radial ball bearings that ensure quick, quiet transport of your gear.





DXS15MKII

- LF: 15" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- Max SPL: 135dB
- Output power:
  Dynamic: 1020W, Continuous: 800W
- Frequency Range: (-10dB): 40Hz - 150Hz
- Cardioid Mode
- Dimensions: W 480 mm, H 611 mm, D 614 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 36.0 kg
- Optional Speaker Cover (SPCVR DXS152)
- Optional Wheel Kit (SPW-1)

DXS12MKII

- LF: 12" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- Max SPL: 134dB
- Output power:
  Dynamic: 1020W, Continuous: 800W
- Frequency Range: (-10dB): 42Hz - 150Hz
- Cardioid Mode
- Dimensions: W 400 mm, H 567 mm, D 570 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 30.0 kg
- Optional Speaker Cover (SPCVR DXS122)
- Optional Wheel Kit (SPW-1)



U-BRACKETS FOR DXR SERIES FOR FLYING APPLICATION

The durable, portable design of its enclosure makes the **DXR SERIES** perfectly suited for use in a variety of environments. All DXRs come equipped with rigging points, allowing them to be flown from trussing with standard eyebolts. (DXR8MKII/DXR10MKII: M8x15 mm and DRX12MKII/DXR15MKII: M10x18 mm). When more versatility is required, optional BG-VC1 compliant U-brackets allow simple and easy rigging in both horizontal and vertical configurations.







U-BRACKET FOR

- DXR8MKII – UBDXR8 (piece)
- DXR10MKII – UBDXR10 (piece)
- DXR12MKII – UBDXR12 (piece)
- DXR15MKII – UBDXR15 (piece)


CONFERENCE


LIVE

	DXR15MKII	DXR12MKII	DXR10MKII	DXR8MKII
TRANSDUCER: LF	15" cone/2" v.coil	12"cone/2" v.coil	10" cone/2" v.coil	8" cone/2" v.coil
TRANSDUCER: HF	1,75" Diaphragm	1,75" Diaphragm	1,75" Diaphragm	1,75" Diaphragm
POWER RATING	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)
MAXIMUM SPL	134 dB SPL	134 dB SPL	132 dB SPL	130 dB SPL
FREQUENCY RANGE (-10dB)	49Hz - 20kHz	52Hz - 20kHz	56Hz - 20kHz	57Hz - 20kHz
DSP	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)
INPUTS/OUTPUTS	In: XLR, Phone, RCA / Out: XLR	In: XLR, Phone, RCA / Out: XLR	In: XLR, Phone, RCA / Out: XLR	In: XLR, Phone, RCA / Out: XLR
RIGGING POINTS	3 (fits for M10 x 18mm eybots)	3 (fits for M10 x 18mm eybots)	3 (fits for M8 x 15mm eybots)	3 (fits for M8 x 15mm eybots)
POLE SOCKET	35mm (Bottom)	35mm (Bottom)	35mm (Bottom)	35mm (Bottom)
COOLING	Fan cooling	Fan cooling	Fan cooling	Fan cooling
DIMENSIONS (W x H x D)	445x700x380 mm	362x601x350 mm	305x502x310 mm	280x458x280 mm
MATERIAL/FINISH	ABS, Matte black	ABS, Matte black	ABS, Matte black	ABS, Matte black
WEIGHT	21.8 kg	18.6 kg	13.9 kg	12.8 kg

	DXS18	DXS15MKII	DXS12MKII
TRANSDUCER: LF	18"cone / 4" Voice Coil	15"cone / 2,5" Voice Coil	12"cone / 2,5" Voice Coil
TRANSDUCER: HF	–	–	–
POWER RATING	1020W	1020W	1020W
MAXIMUM SPL	136 dB SPL	135 dB SPL	134 dB SPL
FREQUENCY RANGE (-10dB)	32Hz - 120Hz	40Hz - 150Hz	42Hz - 150Hz
DSP	D-X SUB: BOOST, XTD LF, NORMAL, CARDIOID mode	D-XSUB: BOOST, XTENDED-LF, OFF	D-XSUB: BOOST, XTENDED-LF, OFF
INPUTS/OUTPUTS	2x XLR IN/ 2x XLR Out	2x XLR IN/ 2x XLR Out	2x XLR IN/ 2x XLR Out
RIGGING POINTS	–	–	–
POLE SOCKET	35mm (depth 80mm) & M20 (threaded depth 25mm)	35mm (Top) / M20 (Top)	35mm (Top) / M20 (Top)
COOLING	Natural convection	Fan cooling	Fan cooling
DIMENSIONS (W x H x D)	563x683x721 mm	480x611x614	400x567x570
MATERIAL/FINISH	Plywood, LineX coated, Black	Plywood, LineX coated, Black	Plywood, LineX coated, Black
WEIGHT	49.7 kg	36 kg	30 kg

SPEAKER COVERS FOR DXR, DXS, DBR AND CBR SERIES

Introducing Yamaha's newly designed functional **SPEAKER COVERS** that protect your speakers from unfavorable weather conditions during outdoor performances, dusty and dirty warehouse storage, or the rigors of equipment transport on the road.

- GAPS FOR CARRYING HANDLES
- YAMAHA LOGO
- MATERIAL: SYNTHETIC



SPCVR-1501
PADDED SHEATH FOR
- DXR15MKII
- DBR15
- CBR15
- Colour: Black



SPCVR-1201
PADDED SHEATH FOR
- DXR12MKII
- DBR12
- CBR12
- Colour: Black



SPCVR-1001
PADDED SHEATH FOR
- DXR10MKII
- DBR10
- CBR10
- Colour: Black



SPCVR-0801
PADDED SHEATH FOR
- DXR8MKII
- Colour: Black



SPCVR-18S01
PADDED SHEATH FOR
- DXS18
- Colour: Black



SPCVR-DXS152
PADDED SHEATH FOR
- DXS15MKII
- Colour: Black



SPCVR-DXS122
PADDED SHEATH FOR
- DXS12MKII
- Colour: Black



SCDSR112
FOR YAMAHA
- DSR112
- Colour: Black



SCDSR115
FOR YAMAHA
- DSR115
- Colour: Black



SCDSR118W
FOR YAMAHA
- DSR118W
- Colour: Black

CONFERENCE LIVE

DBR SERIES

POWER TO PLAY

DBR SERIES loudspeakers offer high-definition sound and high sound pressure levels in a compact and extremely leightweight speaker design. Each DBR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. Yamaha implemented FIR-X tuning™ tuning technology from DSR-Series which offers linear frequency and phase response.

4 YEARS GUARANTEE

- HIGH-DEFINITION SOUND
- INTELLIGENT INTEGRATED 2-CHANNEL MIXER
- 48-BIT DSP AND FIR-X TUNING
- LIGHTWEIGHT POWERED SPEAKERS
- 4-YEAR'S GUARANTEE

UP TO 1000W





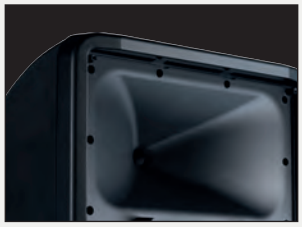
DURABLE, COMPACT DESIGN



HIGH VERSATILITY AND FUNC-TIONALITY (2 CHANNEL MIXER WITH XLR, PHONE, RCA INPUTS)



SYMMETRICAL ENCLOSURE DESIGN FOR MIRROR-MODE FLOOR MONITORING (DBR12/ DBR15)



EXTREMELY ACCURATE 90X60 CONSTANT-DIRECTIVITY HORN



DBR15



DBR12



DBR10

	DBR15	DBR12	DBR10
TRANSDUCER: LF	15″	12″	10″
TRANSDUCER: HF	1,4″	1,4″	1″
POWER RATING	1000 W	1000 W	700 W
MAXIMUM SPL	132 dB SPL	131 dB SPL	129dB SPL
FREQUENCY RANGE (-10dB)	50 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz
DSP	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)
INPUTS	In: XLR, Phone, RCA Out: XLR	In: XLR, Phone, RCA Out: XLR	In: XLR, Phone, RCA Out: XLR
RIGGING POINTS	3x (M8 x 15 mm) (Bottom x2, Rear x1)	3x (M8 x 15 mm) (Bottom x2, Rear x1)	2x (M8 x 15 mm) (Bottom x 2)
BRACKETS (OPTIONAL)	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251
POLE SOCKET	1	1	1
COOLING	Fan cooling	Fan cooling	Fan cooling
DIMENSIONS	455 x 700 x 378 mm	376 x 601 x 348 mm	308 x 493 x 289 mm
HANDLES	2	2	1
MATERIAL/FINISH	Plastic / Black	Plastic / Black	Plastic / Black
WEIGHT	19.3 kg	15.8 kg	10.5 kg

CONFERENCE LIVE



DBR15

- LF: 15" cone
- Voice Coil: 2,5"
- Magnet: Ferrite
- HF: Diaphragm 1,4"
- Type: 1,4" throat compression driver
- Magnet: Ferrite
- Output power:
  Dynamic: 1000W (LF: 800W HF: 200W)
  Continuous: 465W (LF:400W HF: 65W)
- Max SPL: 132dB SPL
- Dimensions: 455 x 700 x 378 mm
- Net weight: 19.3 kg

DBR12

- LF: 12" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1"
- Type: 1,4" throat compression driver
- Magnet: Ferrite
- Output power:
  Dynamic: 1000W (LF: 800W HF: 200W)
  Continuous: 465W (LF:400W HF: 65W)
- Max SPL: 131dB SPL
- Dimensions: 376 x 601 x 348 mm
- Net weight: 15.8 kg







DBR10

- LF: 10" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1"
- Type: 1" throat compression driver
- Magnet: Ferrite
- Output power:
  Dynamic: 700W (LF: 500W HF: 200W)
  Continuous: 325W (LF: 260W HF: 65W)
- Max SPL: 129dB SPL
- Dimensions: 308 x 493 x 289 mm
- Net weight: 10.5 kg

MS SERIES

CONFERENCE LIVE

A COMPACT, CONVENIENT APPROACH TO HIGH QUALITY MONITORING

- 10-cm full-range speaker with 10 watts output
- Three inputs: Mic 1 (Phone), Line x2 (Phone & RCA Pin)
- Tone control (high/low)
- Line output allows addition of an external speaker
- Options for stand or wall mounting (sold separately)



MS101 III



MS101 III REAR PANEL

	MS101 III
POWER RATING PGM (IEC)	10 W
NOMINAL IMPEDANCE	4 Ω
SENSIBILITÉ @1W/1M	97 dB SPL
FREQUENCY RANGE (-10dB)	75Hz - 18khz
DRIVER	10 cm
CONTROLS	volume, low, high
DIMENSIONS (LxHxP)	147 x 214 x 192 mm
WEIGHT	2.5 kg

OPTIONS



BCS20-150/210
Ceiling Bracket



BWS20-120/190
Wall Bracket



BAS10
Free-Angle Clamp



BMS-10A
Mic Stand Adaptor

MSP SERIES

BROADCAST PRODUCTION

THE FIRST CHOICE – The **MSP-SERIES** is the choice of top recording and production engineers who demand unmatched accuracy and resolution that reveals critical sonic details.

- REFERENCE-QUALITY MONITORING
- ADVANCED BI-AMP DESIGN
- MAGNETIC SHIELDING
- ONE-PIECE MOLDED ENCLOSURE WITH ROUNDED BAFFLE



MSP5STUDIO

	MSP5STUDIO
POWER	67 Watt (40 Watt LF + 27 Watt HF)
TRANSDUCER	LF: 5" / HF: 1"
FREQUENCY RANGE (-10dB)	50 Hz - 40 kHz
CONNECTORS	Inputs: XLR/Phone
CONTROLS	Level control, Low-Cut switch, High/Low Trim
DIMENSIONS	W 179 x H 279 x D 208 mm
WEIGHT	7.9 kg

REFERENCE MONITOR SYSTEM

- Precision, fatigue-free monitoring for music production systems
- High-performance 20-watt power amplifier built in
- Compact size with the high-quality sound you expect from the MSP-Series
- Input jacks and controls for extended connectivity and setup flexibility
- Optional brackets allow installation in a variety of applications



MSP3

	MSP3
POWER	20 Watt
TRANSDUCER	LF: 4" / HF: 1/8"
FREQUENCY RESPONSE	65Hz – 22kHz
CONNECTORS	RCA, XLR, Phone
CONTROLS	volume 1,2, low, high
DIMENSIONS (LXHXP)	144 x 236 x 167 mm
WEIGHT	4.4 kg

LIVE BROADCAST PRODUCTION

HPH-MT SERIES

WHEN IT'S ABOUT PRECISION

It takes a true original to become an industry standard, and since their inception Yamaha's NS-10M studio monitor speakers have become a mainstay of professional studios the world over, renowned for their legendary accuracy. From the NS-10M to the MSP and HS Series, Yamaha has remained faithful to a design philosophy focused on delivering the sonic accuracy that provides sound professionals with the perfect platform upon which to develop and establish their own signature sound. MT Series studio monitor headphones remain true to this fundamental concept, delivering precision sound reproduction that meets the demanding requirements of today's professional studio and monitoring applications.



HPH-MT8



HPH-MT7W



HPH-MT7



HPH-MT5W



HPH-MT5

HPH-MT

PROFESSIONAL MONITORING HEADPHONES

HIGH RESOLUTION SOUND - SUPERB ISOLATION. PREMIUM COMFORT - STURDY, RELIABLE CONSTRUCTION

Whether you're recording in a professional studio, putting the finishing touches on a live mix, or simply listening to your music collection at home, your headphones serve a singular purpose of delivering the best possible reproduction of the source audio. Every aspect of the MT series design, from component and material selection to connectivity and overall fit, pays strict attention to achieving the highest possible levels of fidelity and the comfort required to focus on your sound. With a lineup of three models—the MT8, MT7, and MT5–the series offers a variety of features suited to a range of monitoring environments, with one ultimate objective... accuracy.









	HPH-MT8	HPH-MT7W/HPH-MT7	HPH-MT5W/HPH-MT5
TYPE	Closed-back, Circumaural (Over Ear)	Closed-back, Circumaural (Over Ear)	Closed-back, Circumaural (Over Ear)
FREQUENCY RESPONSE	15 Hz - 28 kHz	15 Hz - 25 kHz	20 Hz - 20 kHz
SOUND PRESSURE LEVEL	102 dB/mW	99 dB/mW	100 dB/mW
IMPEDANCE (AT 1KHZ)	37 Ω	49 Ω	51 Ω
MAXIMUM INPUT POWER (AT 1KHZ)	1600 mW	1600 mW	1600 mW
DRIVER UNIT	45 mm, Dynamic, CCAW Voice Coil	40 mm, Dynamic, CCAW Voice Coil	40 mm, Dynamic, CCAW Voice Coil
CABLE	1.2 m (3.9 ft), coiled cable 3.0 m (9.8 ft), straight cable	3.0 m (9.8 ft), straight	3.0 m (9.8 ft), straight cable
CONNECTOR	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor
DIMENSIONS (WXHXD) WITHOUT CABLE&PLUG	161 x 214 x 89 mm	170 x 195 x 98 mm	165 x 203 x 88 mm
WEIGHT	350 g (0.8 lbs)	360 g (0.8 lbs)	245 g (0.5 lbs)
ACCESSORIES	1.2 m Coiled cable 3.0 m Straight cable Threaded 6.3 mm (1/4") gold-plated adaptor, Padded carrying bag	Threaded 6.3 mm (1/4") gold-plated adaptor, Padded carrying bag	3.0 m Straight cable Threaded 6.3 mm (1/4") gold-plated adaptor, Nylon carrying bag

HS SERIES

BROADCAST PRODUCTION

POWERED NEAR-FIELD MONITORS FOR THE HOME OR SMALL STUDIO

When choosing reference monitors for mixing and music production, accuracy is the prime consideration. Speakers that sound "good" on first impression may not necessarily be accurate. The **HS SERIES** monitors provide an honest reference for your mix, rather than monitors that have been tweaked or coloured to deceptively sound impressive.

- REFERENCE MONITORS FEATURING THE LEGENDARY YAMAHA WHITE CONES
- BI-AMPLIFICATION

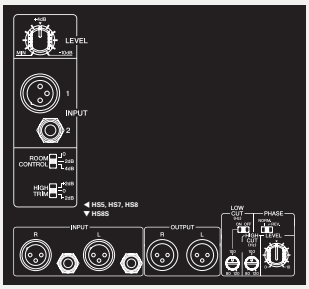


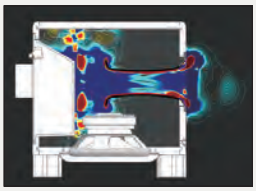
HS8S HS8 HS7 HS5 HS5W HS7W HS8W

	HS8/HS8W	HS7/HS7W	HS5/HS5W	HS8S
POWER	120 Watt (75 W LF/ 45 W HF)	95 Watt (60 W LF/35 W HF)	70 Watt (45 W LF/25 W HF)	150 Watt
TRANSDUCER: LF	8"	6,5"	5"	8"
TRANSDUCER: HF	1"	1"	1"	–
FREQUENCY RANGE (-10dB)	38 Hz – 30 kHz	43 Hz – 30 kHz	54 Hz – 30 kHz	22 Hz – 160 Hz
CONNECTORS	Inputs: XLR/Jack	Inputs: XLR/Jack	Inputs: XLR/Jack	Input: 2 x XLR / 2 x Jack Output: 2 x XLR (L&R) / 1 x XLR (EXT SUB)
CONTROLS	Level Control / EQ: High Trim & Room Control	Level Control / EQ: High Trim & Room Control	Level Control / EQ: High Trim & Room Control	Level Control / PHASE / HIGH CUT control / LOW CUT control / LOW CUT switch
WEIGHT	10.2 kg	8.2 kg	5.3 kg	12.5 kg

OPTIMUM RESPONSE IN ANY ROOM

HS Series full-range models give you extra room-matching speaker placement versatility with **ROOM CONTROL** and **HIGH TRIM** response control switches that are specifically designed to compensate for common acoustic deficiences and monitoring needs. For inputs, HS full-range speakers can accommodate a wide range of balanced and unbalanced sources such as mixers, keyboards and audio interfaces with XLR and TRS phone jacks.

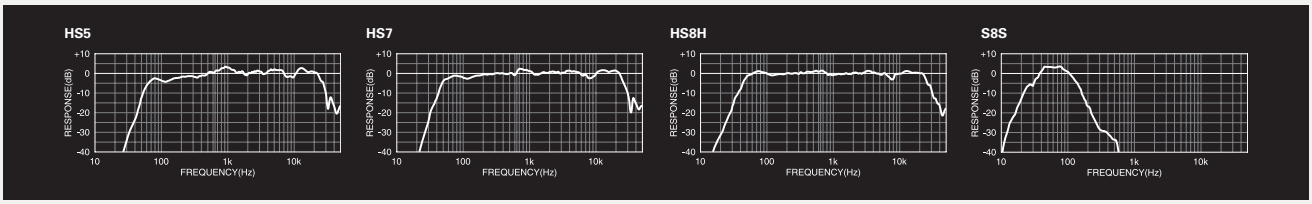



HS10W (FORMER MODEL)


HS8S (NEW MODEL)

CUTTING EDGE NOISE REDUCTION TECHNOLOGY

By adopting an advanced noise reduction technology that incorporates a thorough analysis of a visual representation of the sound, Yamaha's engineers are able to control and reduce the vortex. Through this in-depth analysis we have arrived at the ideal port design, resulting in a reduction of audible noise up to 6dB. The utilization of this state-of-the-art technology allows HS Series studio monitors to meet the demands of more strict professional production environments.



PRODUCTION BROADCAST BACKGROUND MUSIC CONFERENCE

HS SERIES – INSTALLATION VERSION

The new **HS-I MODELS** of powered speakers add mounting points to the popular **HS SERIES**, making them compatible with a wider range of monitoring, sound reinforcement and installation environments.

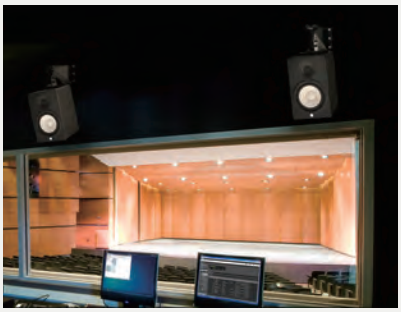
- HS HIGH QUALITY STUDIO MONITORS
- HS I SERIES SUPPORTS CEILING AND WALL INSTALLATIONS
- SUPPORT FOR BBS, BCS AND BWS MOUNTING BRACKETS
- SAME STUDIO QUALITY AS IN WORLD FAMOUS RECORDING STUDIOS
- NEW HSI SERIES PROVIDE MOUNTING POINTS

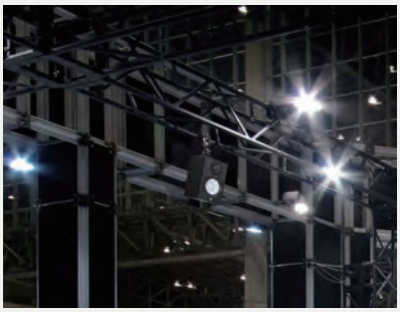












		HS5I/HS5IW	HS7I/HS7IW	HS8I/HS8IW
TYPE		Bi-amp 2-way powered speaker	Bi-amp 2-way powered speaker	Bi-amp 2-way powered speaker
OVERALL FREQUENCY RESPONSE	-3dB	74 Hz – 24 kHz	55 Hz – 24 kHz	47 Hz – 24 kHz
	-10dB	54 Hz – 30 kHz	43 Hz – 30 kHz	38 Hz – 30 kHz
CROSSOVER FREQUENCY		2 kHz	2 kHz	2 kHz
SPEAKER COMPONENTS		LF: 5" cone	LF: 6.5" cone	LF: 8" cone
		HF: 1" dome	HF: 1" dome	HF: 1" dome
OUTPUT POWER	Total	70 W (dynamic power)	95 W (DYNAMIC POWER)	120 W (dynamic power)
	LF	45 W (4 ohms)	60 W (4 OHMS)	75 W (4 ohms)
	HF	25 W (8 ohms)	35 W (8 OHMS)	45 W (8 ohms)
INPUT SENSITIVITY / IMPEDANCE		-10 dBu/10k ohms	-10 dBu/10k ohms	-10 dBu/10k ohms
INPUT CONNECTORS (PARALLEL)		1: XLR-3-31 type (balanced) 2: PHONE (balanced)	1: XLR-3-31 type (balanced) 2: PHONE (balanced)	1: XLR-3-31 type (balanced) 2: PHONE (balanced)
CONTROLS		LEVEL control (+4 dB, center click) EQ: HIGH TRIM switch (+/- 2 dB at HF), ROOM CONTROL switch (0/-2/-4 dB under 500Hz)		
INDICATOR		Power ON (White LED)		
POWER CONSUMPTION		45 W	55 W	60 W
ENCLOSURE		Bass-reflex type, Material: MDF	Bass-reflex type, Material: MDF	Bass-reflex type, Material: MDF
MOUNTING POINTS		Four surfaces x 2 x M5 (60 mm pitch)	Four surfaces x 2 x M8 (120 mm pitch)	Four surfaces x 2 x M8 (120 mm pitch)
DIMENSIONS (W X H X D)		170 x 285 x 222 mm (6-11/16" x 11-1/4" x 8-3/4")	210 x 332 x 284 mm (8-1/4" x 13-1/16" x 11-3/16")	250 x 390 x 334 mm (9-13/16" x 15-3/8" x 13-1/8")
WEIGHT		5.5 kg (12.1 lbs.)	8.7 kg (19.2 lbs.)	10.7 kg (23.6 lbs.)
PACKAGING		per unit	per unit	per unit

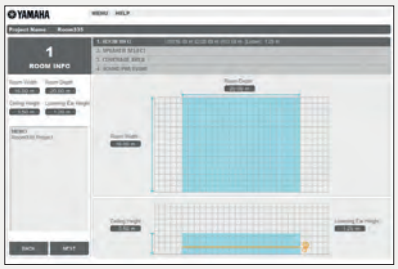
CISSCA

CONFERENCE | BACKGROUND MUSIC | SOFTWARE

COMMERCIAL INSTALLATION SOLUTIONS SPEAKER CALCULATOR (CISSCA) is a software application that quickly calculates the number of speakers required for optimum performance in a room specified by the user, plus the effective sound pressure level of the system. The user specifies the room size, type of speakers to be used, and speaker layout.



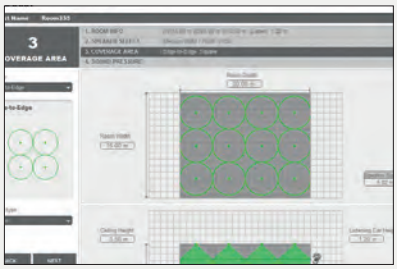
- A FAST, EASY WAY TO ESTIMATE THE NUMBER OF SPEAKERS REQUIRED FOR ANY PROJECT.
- EASY SETUP AND OPERATION.
- REPORT OUTPUT FUNCTION PROVIDES CONVENIENT DOCUMENTATION FOR SYSTEM PROPOSALS.
- SPEAKER LIBRARY INCLUDES VXC SERIES, NS-IC SERIES, S SERIES, VXS SERIES, NS-AW SERIES.



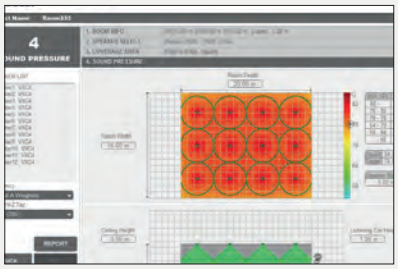
STEP 1: Enter the size of the room and the height of the listeners' ears.



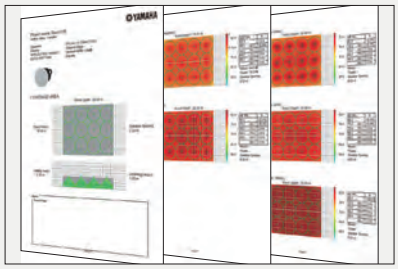
STEP 2: Select the target sound pressure level and the type of speakers to be used.



STEP 3: Select a speaker system layout. The program will provide an estimate of the number of speakers required.



STEP 4: Check the difference between the effective sound pressure level of the estimated system and the target sound pressure level entered in STEP 2. Click the "REPORT" button to output the results in report form.



REPORT: The report output function included with this application (pdf format) is a convenient way to generate support documentation for system proposals.

CISSCA V2.0 supports VXC- and VXS Series. Where more detailed information is required use the Yamaha Y-S^3 Sound System Simulator application.

LIVE SOFTWARE

Y-S3

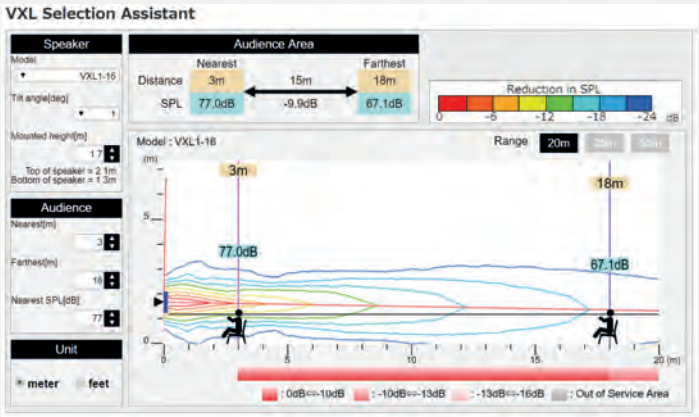
This acoustic simulation software combines the essential elements of Yamaha Professional Audio acoustic technology for all sound handled from input to output, including DSP, amps, speakers, and even the venue's design. The software provides superb accuracy and reliability thanks to the knowledge and experience of the Sound & IT Development Division, which is at the forefront of the world's acoustic technology with its Active Field Control and Acoustic Modeling, and has employed its advanced technology in the acoustic design of many concert halls.

- AUTOMATIC LAYOUT & TUNING
- DISTRIBUTED SPEAKERS
- EXPORT DME SPEAKER PROCESSOR SETTINGS AND AMPLIFIER RECOMMENDATIONS
- SPEAKER LIBRARY INCLUDES IF SERIES, S SERIES, VXS SERIES, VXC SERIES, CZR SERIES, CBR SERIES, DZR SERIES, DSR SERIES, DXR SERIES, DBR SERIES



CONFERENCE SOFTWARE

VXL SELECTION ASSISTANT



The **VXL SELECTION ASSISTANT** is a web app on the VXL product page, intended to assist the selection of the most appropriate VXL speaker model for speech reproduction applications. The web app provides an indication of whether good amplified sound can be provided across the audience area by calculating the difference in SPL between the nearest and furthest audience members, based on speaker output attenuation over distance, speaker position, audience position and SPL requirements.

https://europe.yamaha.com/en/products/proaudio/speakers/vxl/selection_assistant.html#product-tabs



NEXT

POWER AMPLIFIERS


POWER AMPLIFIER XMV8140
PROTECTION
LIMIT
SIGNAL
-dB
MUTE
A B C D E F G H
SELECT
POWER AMPLIFIER XMV8280-D
PROTECTION
LIMIT
SIGNAL
-dB
MUTE
A B C D E F G H
SELECT
POWER AMPLIFIER XMV8140-D
PROTECTION
LIMIT
SIGNAL
-dB
MUTE
A B C D E F G H
SELECT

CONFERENCE BACKGROUND MUSIC ACOUSTICS

XMV SERIES

YDIF

Dante™





XMV4140	XMV4280	XMV4140-D	XMV4280-D
4 x 140W@4Ω	4 x 280W@4Ω	4 x 140W@4Ω Dante	4 x 280W@4Ω Dante

XMV8140	XMV8280	XMV8140-D	XMV8280-D
8 x 140W@4Ω	8 x 280W@4Ω	8 x 140W@4Ω Dante	8 x 280W@4Ω Dante

- **YDIF –** a format developed by Yamaha, supporting the transport of 16 audio channels, including synchronisation, through a single CAT5E cable. YDIF allows the connection of MTX matrix processors, XMV power amplifiers and Ex i/o interface units with cable lengths of maximum 30 meters.

- **DANTE –** A multi-channel digital media networking technology based on IT industry standards, with very low latency and highly accurate synchronization. Dante supports a channel capacity of more than 500 channels per link.

MULTI-CHANNEL POWER AMPLIFIERS WITH FEATURES DESIGNED SPECIFICALLY TO BENEFIT INSTALLATION SOUND SYSTEMS.

- Four-channel or eight-channel power amp that can operate in both high-impedance (70V/100V line) or low-impedance (4Ω/8Ω) modes simultaneously.
- 70V or 100V mode can be assigned to every pair of channels without affecting the number of available output channels.
- The newly developed Double Power Mode function effectively doubles the output power of selected channels.
- Equipped with either YDIF digital audio format or Audinate's digital audio network Dante for simple and fast system configuration.
- Easy setting such as the mute on/off or attenuator changes with MTX Editor when used in system with MTX Series.
- An innovative, new, patent pending circuit improves the already highly efficient Class D circuit topology, bringing the efficiency level of the amplifier's output stage up to over 90%.
- Feature a Power Factor Correction equipped switching power supply, ensuring harmonic control and decreasing the amount of current draw while maintaining the same output power.
- Powerful, intelligent protection features for more reliable operation.

GENERAL SPECIFICATIONS

Model			XMV8280	XMV8140	XMV8280-D	XMV8140-D	XMV4280	XMV4140	XMV4280-D	XMV4140-D
Output Power	1kHz THD+N=1%, 20ms burst	4Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4
		8Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4
		4Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2
		8Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2
	High impedance	100V line	250W x 8	125W x 8	250W x 8	125W x 8	250W x 4 / 40Ω	125W x 4 / 80Ω	250W x 4 / 40Ω	125W x 4 / 80Ω
		70V line	250W x 8	125W x 8	250W x 8	125W x 8	250W x 4 / 20Ω	125W x 4 / 40Ω	250W x 4 / 20Ω	125W x 4 / 40Ω
Voltage Gain	RL=8Ω		31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB
	RL=8Ω / Double Power Mode		34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB
	100V		38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB
	70V		35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB
Input Sensitivity	RL=8Ω		+4dBu							
S/N Ratio	A-weighted		≥ 100dB							
Power Consumption	1/8 power (4Ω pink noise)		450W	250W	450W	250W	250W	150W	250W	150W
	Idle (4Ω)		73W	73W	73W	73W	37W	37W	37W	37W
	Standby		23W	23W	23W	23W	18.5W	18.5W	18.5W	18.5W
THD+N	1kHz, half power		≤ 0.2%							
Frequency Response	RL=8Ω, 100V/70V, Po=1W, 20Hz - 20kHz		0dB, ±1.0dB							
Crosstalk	1kHz, half power, 8Ω, Att. max, input 150Ω shunt		≤ -60dB							
Maximum Input Level			+24dBu							
Input Impedance			20kΩ (balanced), 10kΩ (unbalanced)							
Connectors	Analog Input		Euroblock x 4 (6P, balanced)				Euroblock x 2 (6P, balanced)			
	Digital Input / Output		RJ45 x 2 (YDIF IN / OUT)		RJ45 x 2 (Dante PRIMARY / SECONDARY)		RJ45 x 2 (YDIF IN / OUT)		RJ45 x 2 (Dante PRIMARY / SECONDARY)	
	Speaker Output		Barrier strip x 8 pairs				Barrier strip x 4 pairs			
	Network		RJ45 x 1		Shared with Dante ports		RJ45 x 1		Shared with Dante ports	
	Remote, Fault Output		Euroblock (3P) x 1				Euroblock (3P) x 1			
	AC IN		AC Inlet x 1				AC Inlet x 1			
Load Protection			POWER switch on/off: Output mute, DC-fault: Power supply shuts down, Clip limiting							
Amplifier Protection			Thermal: Output mute (heatsink temp ≥90°C) (Restored automatically), Overcurrent: Output mute (Restored automatically), Low load impedance: Output mute (Restored automatically)							
Power Supply Protection			Thermal: Amplifier shuts down automatically (heatsink temp ≥100°C) , Integrated power: Gain reduction (Restored automatically)							
Cooling Fan			3-Speed fan x 2, front-to-back airflow							
Power Requirements			100V, 120V, 230V-240V; 50Hz/60Hz							
Dimensions (WxHxD)			480 x 88 x 422mm (18.9" x 3.5" x 16.6")				480 x 88 x 422mm (18.9" x 3.5" x 16.6")			
Weight			10.1kg (22.3lbs)				8.1kg (17.9lbs)			

XM SERIES

CONFERENCE | BACKGROUND MUSIC | LIVE





5 YEARS GUARANTEE

XM4180	XM4080
4 x 250W@4Ω	4 x 120W@4Ω

COMPACT, LIGHTWEIGHT 2U AMPS PROVIDE FOUR CHANNELS OF HIGH-POWER AMPLIFICATION.

- Ideal for theatre, hall, and conference room installations.
- Four independent channels of power amplification in convenient, manageable units (XM4180 = 180W per channel, XM4080 = 80W per channel).
- Stereo, parallel, or bridged operation switchable from the rear panel.
- Balanced XLR and Euroblock connectors for easy, secure input connection.
- Output connections via five-way binding posts.
- High-pass filter with a selectable 20 Hz or 55 Hz roll-off frequency.
- Precision attenuators and independent indicators for each channel allow accurate level setup and status monitoring.
- The XM4180 can also function as a distribution power amp to drive multiple high-impedance speakers via 70V line output.
- Rear-panel Monitor/Remote jack allows the amp to be monitored and controlled from an external device.

GENERAL SPECIFICATIONS

Model			XM4180	XM4080
Output Power	1kHz, THD+N = 1%	4Ω	250W x 4	120W x 4
		8Ω	210W x 4	90W x 4
		8Ω bridge	500W x 2	240W x 2
	20Hz ~ 20kHz, THD+N = 0.1%	4Ω	230W x 4	115W x 4
		8Ω	180W x 4	80W x 4
		8Ω bridge	460W x 2	230W x 2
	Constant Voltage Line	70V Line	300W x 2/16Ω (Bridge)	-
Voltage Gain	RL=8Ω		30dB	26dB
Input Sensitivity	RL=8Ω		+4dBu	
S/N Ratio	20Hz~20kHz, DIN AUDIO		103dB	
Power Consumption	1/8 power (4Ω pink noise)		600W	400W
	Idle		40W	40W
	Standby		5W	5W
THD+N	20Hz~20kHz, 1/2 power, RL=4Ω		Less than 0.1%	
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz		+0dB, -0.5dB	
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt		Less than -60dB	
Damping Factor	RL=8Ω, 1kHz		More than 100	
Maximum Input Level			+22dBu	
Input Impedance			20kΩ (balanced), 10kΩ (unbalanced)	
Controls	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 4 (31position)	
	Rear panel		MODE switch x 2 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct)YS PROCESSING switch x 1 (ON/OFF)	
Connectors	Input		XLR-3-31 type x 4, Euroblock connector x 4 pairs (balanced)	
	Output		5-way binding post x 4 pairs	
	Monitor/Remote		D-SUB 15P x 1	
	AC IN		AC inlet x 1	
Indicators			POWER/STAND-BY x 1 (Green/Orange), PROTECT/MUTE x 4 (Red), SIGNAL x 4 (Green), CLIP/LIMIT x 4 (Red)	
Load Protection			POWER switch on/off mute, DC-fault: output relay Off (Restored automatically) Clip Limiting: THD ≥ 0.5%	
Amplifier Protection			Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 2Ω): Limits the output	
Power Supply Protection			Thermal: Amplifier shuts down automatically (Operation not restored automatically, heatsink temp ≥ 90°C)	
Cooling Fan			Variable-speed fan x 1	
Power Requirements			120V, 220V-240V; 50Hz/60Hz	
Dimensions (WxHxD)			480 x 88 x 412mm (18-7/8" x 3-7/16" x 16-1/4")	
Weight			10kg (22lbs)	9.8kg (21.6lbs)
Included Accessories			Power cable x 1, Security cover x 1, Euroblock connector x 4 (3P), Owner's manual	

XH200

CONFERENCE

BACKGROUND MUSIC





XH200

5 YEARS GUARANTEE

XH200
2 x 200W@100V

COMPACT, LIGHTWEIGHT 200W + 200W DISTRIBUTION POWER AMP FOR INSTALLED SYSTEMS.

- XH200 featuring a 2-channel high-impedance power amplifier (200W/24 ohms @70V, 200W/48 ohms @100V).
- The current switching allows for a compact and lightweight design (10 kg). This series utilizes the newly developed 2U shell.
- Highly precise dB display detented attenuators, dedicated to each channel, are located on the front panel. The models also feature a protection circuit that allows you to monitor its status with an indicator. Attention to detail for better practicality can be found wherever you look.
- Equipped with Euro-block inputs and barrier strip terminal outputs. Also equipped with monitor/remote terminals and a sub-sonic filter. The models have been designed with all sorts of usage in mind.

GENERAL SPECIFICATIONS

OUTPUT POWER	High Impedance	100V Line (RL=50Ω)	200W x 2
		70V Line (RL=25Ω)	200W x 2
VOLTAGE GAIN			38dB (100V)/35dB (70V)
INPUT SENSITIVITY	RL=8Ω		+4dBu
S/N RATIO	20Hz~20kHz, DIN AUDIO		103dB
POWER	1/8 power (4Ω pink noise)		400W
CONSUMPTION	Idle		40W
	Standby		5W
THD+N	40Hz~20kHz, 1/2 power, RL=4Ω		Less than 0.1%
FREQUENCY RESPONSE	Po=1W, HPF=40Hz, 80Hz~20kHz		+0dB, -0.5dB
CROSSTALK	1kHz, half power, Att. max, input 600Ω shunt		Less than -60dB
MAXIMUM INPUT LEVEL			+22dBu
INPUT IMPE-DANCE			20kΩ (balanced), 10kΩ (unbalanced)
CONTROLS	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 2 (31position)
	Rear panel		OUTPUT VOLTAGE switch x 1 (100V/70V), HPF switch x 1 (40Hz/80Hz, 12dB/oct)
CONNECTORS	Input		Euroblock connector x 2 pairs (balanced)
	Output		Barrier strip x 2 pairs
	Monitor/Remote		D-SUB 15P x 1
	AC IN		AC inlet x 1
INDICATORS			POWER/STAND-BY x 1 (Green/Orange), PROTECT/MUTE x 2 (Red), SIGNAL x 2 (Green), CLIP/LIMIT x 2 (Red)
LOAD PROTECTION			POWER switch on/off mute, DC-fault: Output relay Off (Restored automatically), Clip limiting: THD ≥ 0.5%
AMPLIFIER PROTECTION			Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 16Ω): Output limit
POWER SUPPLY PROTECTION			Thermal: Amplifier shuts down automatically (Operation not restored automatically, heatsink temp ≥ 90°C)
COOLING FAN			Variable-speed fan x 1
POWER REQUIREMENTS			120V, 220V-240V; 50Hz/60Hz
DIMENSIONS (WXHXD)			480 x 88 x 412mm (18-7/8" x 3-7/16" x 16-1/4")
WEIGHT			9.8kg (21.6lbs)
INCLUDED ACCESSORIES			Power cable x 1, Security cover x 1, Euroblock connector x 2 (3P), Owner's manual

* Half power = 1/2 power output level

CONFERENCE

BACKGROUND MUSIC

MA MIXING AMPLIFIERS & PA AMPLIFIERS

With quick, easy setup and intuitive operation, the compact MA and PA series power amplifiers make it easier than ever to bring your commercial space to life. The **MA2030A** and **PA2030A** are ideal audio solutions for retail stores, eateries, classrooms or public facilities like hospitals. The **MA2120** and **PA2120** meet the demands of a wide range of applications requiring higher power as well as more flexible DSP functionality and zone control. All models combine approachable, unobtrusive design with efficient, flexible performance. The **MA2030A** and **MA2120** offer mixing capability with source EQ (Bass/Treble) control, as well as some of the same state-of-the-art DSP technologies that are acclaimed features of professional Yamaha audio gear. Whether providing background music for a café or restaurant or powering a conference room or other application requiring microphone input, the MA/PA series amplifiers are simple yet powerful tools that can help establish an ideal commercial sound environment.

- Simple, user-friendly interface - Stereo and microphone inputs (MA series)
- DSP functions optimized for background music (MA series) - Switchable for low (3/4/8 Ω) and high (70/100 V) impedance speaker systems
- Stereo source EQ with enhancer function (MA series)
- EQ for optimum performance with Yamaha VXC/VXS series speakers built in
- Easy service zone expansion with PA series amplifiers (PA2030a excluded)
- Optional DCP control panels allow convenient remote volume control, microphone ON/OFF switching and chime activation (PA2030a excluded)
- Industry leading Yamaha quality control and reliability - Compact, space-saving design*



MA2030A



PA2030A



MA2120



PA2120

* All models are naturally cooled designs that require sufficient surrounding space for airflow.

GENERAL SPECIFICATIONS

MODEL		MA2120	PA2120	MA2030A	PA2030A
Output power	1kHz (THD+N=1%: 3Ω)	100W x 2 (20ms Burst)	100W x 2 (20ms Burst)	30W x 2 (20ms Burst)	30W x 2 (20ms Burst)
	High impedance: 100V line	120W x 2 or 200W x 1	120W x 2 or 200W x 1	60W x 1	60W x 1
Total harmonic distortion		≤0.2% (Line in to Speaker out, Half power @1kHz, 3Ω/4Ω/8Ω), ≤0.2% (Line in to Speaker out, Half Power @1kHz, 70V/100V, 120W/200W)		≤ 0.1% (Stereo in to Speaker out @1kHz, Half power, 3Ω/4Ω/8Ω), ≤ 0.2% (Stereo in to Speaker out @1kHz, Half power, 70V/100V)	
Frequency response		0dB, -2.5dB, +1.0dB (Line in to Line out, 20Hz to 20kHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V, 120W/200W)	0dB, -2.5dB, +1.0dB (Line in to THRU OUT, 20Hz to 20kHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V, 120W/200W)	0dB, -2.5dB, +1.0dB (Stereo in to Line out, 20Hz to 20kHz), 0dB, -3.0dB, +1.0dB (Stereo in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Stereo in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V)	0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V)
Crosstalk		≤ -70dB (MIC/LINE input to other MIC/LINE input)	-	≤ -70dB (Stereo in to other Stereo in)	-
I/O Connectors	Mic/Line Input	Input 1-6: 3.5mm Euroblock (6-pin, balanced) x 3	-	-	-
	Line Input	Input 1-6: 3.5mm Euroblock (6-pin, balanced) x 3	Input A-B:MONO RCA pin x 2 (unbalanced) or 3.5mm Euro block (6-pin, balanced)	-	-
	Speaker Output	Barrier strip x 2 pairs	Barrier strip x 2 pairs	Barrier strip x 2 pairs	Barrier strip x 2 pairs
	Line Out	LINE OUT: MONO RCA pin x2 (unbalanced)	THRU OUT: MONO RCA pin (unbalanced) x2	Stereo RCA pin (unbalanced)	-
	Control ports	RJ-45 (for DCP4V4S, DCP1V4S , DCP4S), Remote (3.5mm Euro block 3-pin)	RJ-45 (for DCP4V4S, DCP1V4S , DCP4S), Remote (3.5mm Euro block 3-pin)	RJ-45 (for DCP1V4S)	-
	Mic Input	-	-	MIC IN 1: XLR combo jack (balanced), MIC IN 2: 3.5mm Euroblock (3-pin, balanced)	-
	Stereo Input	-	-	ST IN 1: Stereo mini phone (3.5mm, unbalanced), ST IN 2 / ST IN 3: Stereo RCA pin (unbalanced)	LINE IN: Stereo RCA pin (unbalanced), 3.5mm Euroblock (3-pin, balanced) x 2
Input Level		Mic input: -56dBu (Sensitivity), -36dBu (Nominal), -8dBu (Max before clip) / Line input (unbalanced): -30dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): -24dBu (Sensitivity), -4dBu (Nominal), +24dBu (Max before clip)	Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): +4dBu (Sensitivity), +4dBu (Nominal), +24dBu (Max before clip)	Mic input: -76 dBu (Sensitivity), -66 dBu (Nominal), -22 dBu (Max before clip) / Line input: -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip)	Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): +4dBu (Sensitivity), +4dBu (Nominal), +24dBu (Max before clip)
Output Level		-10dBV (LINE OUT, Nominal)	-10dBV (THRU OUT, Nominal)	-10dBV (LINE OUT, Nominal)	-
Processors		Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)	Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)	Speaker EQ (VXS:Full Range, VXC), HPF (150Hz)	Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)
Protection circuit	Load protection	Power switch on/off: Mute the output*, Output voltage protection: Compress the output*, DC-fault: Power supply shutdown (*Restored automatically)			
	Amplifier protection	Thermal: Limit the output* → Mute* → Shutdown, Over current: Mute the output*, Integrated power limit: Compress the output* (*Restored automatically)			
	Power supply protection	Thermal: Power supply shutdown, Over voltage: Power supply shutdown, Over current: Limit the output* →Power supply shutdown (*Restored automatically)		Thermal: Power supply shutdown, Over voltage: Power supply shutdown, Over current: Power supply shutdown	
Amplifier class		Class D	Class D	Class D	Class D
Cooling		Conventional cooling, bottom to up airflow			
Power requirements		100V, 120V, 230V - 240V, 50Hz / 60Hz	100V, 120V, 230V - 240V, 50Hz / 60Hz	100V, 120V, 230V-240V; 50Hz/60Hz	100V, 120V, 230V-240V; 50Hz/60Hz
Power consumption		60W (1/8 max power, 4Ω, AC100V, pink noise at all channels)	60W (1/8 max power, 4Ω, AC100V, pink noise at all channels)	30W (1/8max. power, 3Ω, AC 100V, pink noise at all channels)	30W (1/8max. power, 3Ω, AC 100V, pink noise at all channels)
Dimensions	WxHxD	480x45x379 mm *1	480x45x379 mm *1	215x54x288 mm *1	215x54x288 mm *1
Net weight		4.9kg (10.8lbs)	4.8kg (10.6lbs)	1.8kg (4.0lbs)	1.8kg (4.0lbs)
Accessories		AC power cable, 3.5mm Euroblock plug (6-pin) x 3, Euroblock pulg (3-pin) x 1, Owner's manual, Setup guide	AC power cable, 3.5mm Euroblock plug (6-pin) x 1, Euroblock pulg (3-pin) x 1, Owner's manual, Specification sheet	AC power cable, 3.5mm Euroblock plug (3-pin) x 1, Owner's manual, Specification sheet	AC power cable, 3.5mm Euroblock plug (3-pin) x 2, Owner's manual, Specification sheet
Options		DCP4V4S, DCP1V4S, DCP4S (Digital Control Panel)	DCP4V4S, DCP1V4S, DCP4S (Digital Control Panel)	RKH1 (Rack-mount Accessory), DCP1V4S (Digital Control Panel)	RKH1 (Rack-mount Accessory)
Certificate		ENERGY STAR	ENERGY STAR	-	-
Others		Operating Temperature: 0°C to + 40°C, Storage Temperature: -20°C to + 60°C, Rack-mountable when ensuring sufficient ventilation above and below the unit			

TXN SERIES

CONFERENCE | BACKGROUND MUSIC | LIVE | ACOUSTICS

EEEngine





TX6N	TX5N	TX4N
2 x 3000W@4Ω	2 x 2300W@4Ω	2 x 2000W@4Ω

HIGH POWER TOURING AMPLIFIERS WITH INTERNAL DSP AND ADVANCED NETWORKING CAPABILITIES

- High power for tour applications: TX6n = 3000W (4 ohms/per channel), TX5n = 2500W, TX4n = 2200W (2 ohms/ per channel).
- Stable 2-ohm drive capability for line array speaker systems.
- Yamaha DSP technology provides extensive monitoring, control, input/speaker processing, and protection functions built in.
- MY card slot makes it easy to match the amplifier's I/O configuration to the system – analog or digital.
- The analog and digital inputs can be used independently, or signals can be applied to both and mixed or switched automatically for redundancy.
- Advanced remote monitoring, control, and system management capabilities via Yamaha's dedicated software.
- Legendary Yamaha quality control for consistently superior sonic quality and reliability.
- Dual mono configuration with independent power supplies for each channel.
- Yamaha EEEngine amp drive technology achieves efficiency that matches class D amplifiers.
- Exhaustive vibration-reduction measures have resulted in unprecedented sound quality.
- A durable exterior, large cooling fans and fan guards, easily replaceable filters, and other reliability features deliver dependability even under demanding tour conditions.
- A variety of I/O terminals, removable handles, and other features for maximum installation and handling versatility.
- TXN series is available on a built to order schedule.



GENERAL SPECIFICATIONS

Model			TX6n	TX5n	TX4n	TX6n	TX5n	TX4n
				120V			230V *1	
Output Power	1kHz, THD+N = 1%	2Ω	2750W x 2	2500W x 2	2200W x 2	2750W x 2	2500W x 2	2200W x 2
		4Ω	3000W x 2	2200W x 2	1900W x 2	3000W x 2	2300W x 2	2000W x 2
		8Ω	1800W x 2	1300W x 2	1100W x 2	1800W x 2	1300W x 2	1100W x 2
		4Ω bridge	5500W	5000W	4400W	5500W	5000W	4400W
		8Ω bridge	6000W	4400W	3800W	6000W	4600W	4000W
	1kHz, 20ms burst	2Ω	4100W x 2	3480W x 2	2990W x 2	4120W x 2	3600W x 2	3050W x 2
		4Ω bridge	8200W	6960W	5980W	8240W	7200W	6100W
	High Impedance	100V Line	-	1250W x 2/8Ω	-	-	1250W x 2/8Ω	-
Voltage Gain	RL=8Ω		43.8dB ~ 19.8dB, 0.1dB step					
Input Sensitivity	RL=8Ω		0.0dBu ~ 24.0dBu, 0.1dB step	-1.4dBu ~ 22.6dBu, 0.1dB step	-2.6dBu ~ 21.4dBu, 0.1dB step	0.0dBu ~ 24.0dBu, 0.1dB step	-1.4dBu ~ 22.6dBu, 0.1dB step	-2.6dBu ~ 21.4dBu, 0.1dB step
S/N Ratio	20Hz~20kHz, DIN AUDIO AES/EBU [INPUT] to [SPEAKER] output		108dB	107dB	106dB	108dB	107dB	106dB
Power Consumption	1/8 power (2Ω pink noise)		1800W	1600W	1500W	1800W	1600W	1500W
	Idle		75W	75W	75W	75W	75W	75W
	Standby		20W	20W	20W	20W	20W	20W
THD+N	20Hz~20kHz, 1/2 power, RL=4Ω		Less than 0.2%					
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz		+0dB, -1.0dB					
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt		Less than -65dB					
Damping Factor	RL=8Ω, ≤100Hz		More than 300					
Maximum Input Level			+24dBu					
Input Impedance			20kΩ (balanced), 10kΩ (unbalanced)					
Signal Delay	Fs=96kHz		0.729ms (Analog input to Speaker output)					
Controls	Front Panel		POWER switch x 1 (rocker), Rotary encoder x 2, Function button x 4, HOME button x 1, EXIT button x 1, ENTER button x 1, Mute button x 2					
Connectors	Analog input	In	XLR-3-31 type x 2					
		Thru	XLR-3-32 type x 2					
	AES/EBU input/ output	In	XLR-3-31 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
		Thru	XLR-3-32 type x 1 (2 channels)					
		Out	XLR-3-32 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
	Speaker output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs					
	Network		RJ45 x 1					
	Fault output		Euroblock connector x 1 (3P)					
Indicators			IDENTIFY, NETWORK, PROTECTION, BRIDGE, PARALLEL, POWER, STANDBY, MUTE, ALERT, CLIP, SIGNAL					
Load Protection			POWER switch on/off mute, DC-fault: Amplifier shuts down automatically, Clip limiting: THD ≥ 0.5%					
Amplifier Protection			Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 1Ω) : Limit the output					
Power Supply Protection			Thermal: Amplifier shuts down automatically (heatsink temp ≥ 100°C)					
Cooling Fan			Variable speed fan x 2					
Power Requirements			120V, 220V-240V; 50Hz/60Hz (120V models use 30A twist lock connector)					
Dimensions (WxHxD)			480 X 88 X 461mm (18-7/8" x 3-7/16" x 18-1/8")					
Weight			16kg (35.3lbs)					
Included Accessories			Handle x 2, Flat-head screw x 4, Euroblock connector x 1 (3P), Owner's manual					

PC-1N SERIES

CONFERENCE | BACKGROUND MUSIC | LIVE | ACOUSTICS

EEEngine





PC9501N	PC6501N	PC4801N	PC3301N	PC2001N
2 x 1600W@4Ω	2 x 1100W@4Ω	2 x 850W@4Ω	2 x 600W@4Ω	2 x 400W@4Ω

NEW BENCHMARKS FOR QUALITY, RELIABILITY, AND VERSATILITY IN PROFESSIONAL POWER APPLICATIONS

- In-depth analysis and circuit innovation, meticulous part selection, and advanced circuit mounting methods deliver outstanding sound quality with the lowest possible distortion.
- Advanced EEEngine technology achieves high-quality sound and exceptional power output with dramatically reduced power consumption.
- Selectable stereo, dual mono and bridged mono modes for maximum versatility.
- A comprehensive selection of rear-panel terminals and connectors for versatile connectivity.
- An impressive array of protection circuitry and indicators ensure stable operation and accurate monitoring.
- Built-in high-pass (subsonic) filter cuts frequencies below 20 Hz.
- The PC3301N has been specially designed for use as a distribution amplifier in installations, and is capable of driving high-impedance loads with multiple parallel-connected 100-volt line speakers.
- Ideal matches for the DME64N/24N Digital Mixing Engines and Installation Series speakers.
- PC01N series is available on a built to order schedule



GENERAL SPECIFICATIONS

Model			PC9501N	PC6501N	PC4801N	PC3301N	PC2001N	PC9501N	PC6501N	PC4801N	PC3301N	PC2001N
			120V/240V					230V				
Output Power	1kHz, THD+N = 1%	4Ω	1600W x 2	1100W x 2	850W x 2	600W x 2	400W x 2	1650W x 2	1150W x 2	800W x 2	700W x 2	450W x 2
		8Ω	1000W x 2	700W x 2	550W x 2	350W x 2	230W x 2	1050W x 2	750W x 2	500W x 2	400W x 2	250W x 2
		8Ω bridge	3200W	2200W	1700W	1200W	800W	3300W	2300W	1600W	1400W	900W
	1kHz, 20ms burst	2Ω	2300W x 2	1500W x 2	1200W x 2	800W x 2	500W x 2	2300W x 2	1600W x 2	1200W x 2	900W x 2	600W x 2
		4Ω bridge	4600W	3000W	2400W	1600W	1000W	4600W	3200W	2400W	1800W	1200W
	20Hz ~ 20kHz,	4Ω	1400W x 2	930W x 2	725W x 2	525W x 2	325W x 2	1500W x 2	930W x 2	700W x 2	550W x 2	400W x 2
	THD+N = 0.1%	8Ω	925W x 2	650W x 2	475W x 2	330W x 2	200W x 2	950W x 2	650W x 2	475W x 2	350W x 2	230W x 2
		8Ω bridge	2800W	1860W	1450W	1050W	650W	3000W	1860W	1400W	1100W	800W
	High Impedance	100V Line	-	-	-	625W/16Ω (Bridge)	-	-	-	-	625W/16Ω (Bridge)	-
Voltage Gain	RL=8Ω		32dB					32dB				
Input Sensitivity	RL=8Ω		+9.2dBu	+7.7dBu	+6.7dBu	+4.7dBu	+2.9dBu	+9.5dBu	+8.0dBu	+6.2dBu	+5.3dBu	+3.2dBu
S/N Ratio	20Hz~20kHz, DIN AUDIO		106dB	105dB	103dB	101dB	100dB	106dB	105dB	103dB	101dB	100dB
Power Consumption	1/8 power (4Ω pink noise)		750W/1000W	700W/800W	450W/600W	450W/500W	350W	1100W	800W	600W	500W	350W
	Idle		55W	40W	40W	40W	40W	55W	40W	40W	40W	40W
THD+N	20Hz~20kHz, 1/2 power, RL=4Ω		Less than 0.1%									
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz		+0dB, -1.0dB									
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt		Less than -70dB									
Damping Factor	RL=8Ω, 1kHz		More than 800				More than 500	More than 800				More than 500
Maximum Input Level			+22dBu									
Input Impedance			20kΩ (balanced), 10kΩ (unbalanced)									
Controls	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 2 (31position)									
	Rear panel		MODE switch x 1 (STEREO/BRIDGE/PARALLEL), HPF switch x 1 (ON/OFF) (Fc=20Hz, 12dB/oct), AMP ID switch x 1 (6P DIP)									
Connectors	Input		XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)									
	Output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs									
	Data Port		RJ45 x 2									
	Power		AC Inlet x 1									
Indicators			POWER/STANDBY x 1 (Green/Orange), PROTECTION x 1 (Red), TEMP x 1 (Red) heatsink temp ≥ 85°C, REMOTE x 1 (Green)									
Level Meters			10 point LED meter x 2									
Load Protection			POWER switch on/off mute, DC-fault: Amplifier shuts down automatically, Clip limiting: THD ≥ 0.5%									
Amplifier Protection			Thermal (heatsink temp ≥ 90°C), VI limiter (RL ≤ 1Ω)									
Cooling Fan			Variable-speed fan x 2									
Power Requirements			120V, 60Hz; 220V-240V, 50Hz/60Hz									
Dimensions (WxHxD)			480 x 88 x 456mm (18-7/8" x 3-7/16" x 17-15/16")									
Weight			12.5kg (27.6lbs) (PC9501N: 13kg (28.6lbs))									
Included Accessories			Power cable x 1, Security cover x 1, Euroblock connector x 2 (3P), Owner's manual									

XP SERIES

CONFERENCE | BACKGROUND MUSIC | LIVE | ACOUSTICS

FIVE SUPERB AMPLIFIERS OPTIMIZED FOR INSTALLATION USE.

- Advanced circuit design and anti-vibration measures inherited from the PC-1N series deliver tight, solid lows, extraordinary midrange presence, and precisely defined highs.
- Yamaha EEEngine technology achieves unmatched efficiency.
- +4dBu/26dB/32dB gain switch for flexible level matching.
- Lightweight, compact 2U design for easy handling and installation.
- Monitor and Remote terminals for remote monitoring and control.
- Precision 1-dB/step detented attenuators.
- XLR and Euroblock input terminals.
- Speakon and 5-way binding post output terminals.
- Frequency-switchable high-pass filter for subsonic noise reduction or subwoofer matching.
- Comprehensive protection circuits, indicators and variable-speed cooling.
- Ideal matches for the DME/MTX/MRX series processors and Installation Series speakers.
- XP7000 can be used to drive 70V lines (stereo), while XP3500 is compatible with 100V lines (bridged) for high-impedance multi-speaker systems.

5 YEARS GUARANTEE

EEEngine





XP7000	XP5000	XP3500	XP2500	XP1000
2 x 1100W@4Ω	2 x 750W@4Ω	2 x 590W@4Ω	2 x 390W@4Ω	2 x 155W@4Ω

GENERAL SPECIFICATIONS

Model			XP7000	XP5000	XP3500	XP2500	XP1000	XP7000	XP5000	XP3500	XP2500	XP1000
			120V/240V					230V				
Output Power	1kHz, THD+N = 1%	4Ω	1100W x 2	750W x 2	590W x 2	390W x 2	165W x 2 (120V) 155W x 2 (240V)	1100W x 2	750W x 2	590W x 2	390W x 2	155W x 2
		8Ω	750W x 2	525W x 2	390W x 2	275W x 2	135W x 2 (120V) 120W x 2 (240V)	750W x 2	525W x 2	390W x 2	275W x 2	125W x 2
		8Ω bridge	2200W	1500W	1180W	780W	330W (120V) 310W (240V)	2200W	1500W	1180W	780W	310W
	1kHz, 20ms burst	2Ω	1600W x 2	1300W x 2	1000W x 2	650W x 2	250W x 2	1600W x 2	1300W x 2	925W x 2	650W x 2	250W x 2
		4Ω bridge	3200W	2600W	2000W	1300W	500W	3200W	2600W	1850W	1300W	500W
	20Hz ~ 20kHz, THD+N = 0.1%	4Ω	950W x 2	700W x 2	450W x 2	300W x 2	125W x 2 (120V) 110W x 2 (240V)	950W x 2	700W x 2	435W x 2	295W x 2	115W x 2
		8Ω	700W x 2	500W x 2	350W x 2	250W x 2	110W x 2 (120V) 100W x 2 (240V)	690W x 2	500W x 2	350W x 2	250W x 2	100W x 2
		8Ω bridge	1900W	1400W	900W	600W	250W (120V) 220W (240V)	1900W	1400W	870W	590W	230W
	High Impedance	100V Line	-	-	625W/16Ω (Bridge)	-	-	-	-	625W/16Ω (Bridge)	-	-
		70V Line	625W x 2/8Ω	-	-	-	-	625W x 2/8Ω	-	-	-	-
Voltage Gain	RL=8Ω				26dB/32dB					26dB/32dB		
		+4dBu position	35.7dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu	35.6dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu
Input Sensitivity	RL=8Ω				+4dBu					+4dBu		
		26dB position	+13.7dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu	+13.6dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu
		32dB position	+7.7dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu	+7.6dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu
S/N Ratio	20Hz~20kHz, DIN AUDIO		104dB	103dB	102dB	100dB	96dB	104dB	103dB	102dB	100dB	96dB
Power Consumption	1/8 power (4Ω pink noise)		650W	500W	450W	320W	170W	650W	500W	450W	320W	170W
	Idle		35W	35W	30W	25W	20W	35W	35W	30W	25W	20W
	Standby		5W	5W	5W	5W	5W	5W	5W	5W	5W	5W
THD+N	20Hz~20kHz, 1/2 power, RL=4Ω		Less than 0.1%									
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz		+0dB, -1.0dB									
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt		Less than -70dB									
Damping Factor	RL=8Ω, 1kHz		More than 350		More than 200			More than 350		More than 200		
Maximum Input Level			+22dBu									
Input Impedance			20kΩ (balanced), 10kΩ (unbalanced)									
Controls	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 2 (31position)									
	Rear panel		MODE switch x 1 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct), GAIN switch x 1 (+4dBu/26dB/32dB)									
Connectors	Input		XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)									
	Output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs									
	Monitor/Remote		D-SUB 15P x 1									
Indicators			POWER/STANDBY x 1 (Green/Orange), PROTECTION x 1 (Red), TEMP x 1 (Red) heatsink temp ≥ 85°C, SIGNAL x 2 (Green), CLIP/LIMIT x 2 (Red)									
Load Protection			POWER switch on/off mute, DC-fault: Amplifier shuts down automatically (XP7000, XP5000 Operation not restored automatically) Output Relay Off (XP3500, XP2500, XP1000 returns automatically), Clip limiting: THD ≥ 0.5%									
Amplifier Protection			Thermal: Output Mute (heatsink temp ≥ 90°C) (Operation not restored automatically), VI limiter (RL ≤ 1Ω): Limit the output									
Cooling Fan			Variable-speed fan x 2		Variable-speed fan x 1			Variable-speed fan x 2		Variable-speed fan x 1		
Power Requirements			120V, 220V-240V; 50Hz/60Hz									
Dimensions (WxHxD)			480 x 88 x 456mm (18-7/8" x 3-7/16" x 17-15/16")									
Weight			XP7000, XP5000, XP2500: 14kg (30.9lbs), XP3500: 15kg (33.1lbs), XP1000: 12kg (26.5lbs)									
Included Accessories			Security cover x 1, Euroblock connector x 2 (3P), Owner's manual									

PX SERIES

CONFERENCE LIVE

DSP POWER AMPLIFIERS

Yamaha's new **PX SERIES** power amplifiers are ideal for a wide range of installation and sound reinforcement applications. This line consists of 4 models, each providing exceptional output performance and advanced processing. Equipped with smart Quick-Config mode and a wide range of Yamaha speaker presets, these amplifiers gives optimal processing and provides maximum output to the speakers. Perfect companions to Yamaha's popular speaker lines such as CBR, Club, Installation and VXS/VXC series.

- SOPHISTICATED DSP PROCESSING WITH FLEXIBLE ON-BOARD PEQ, CROSSOVER, FILTERS, DELAY AND LIMITER D-CONTOUR MULTI-BAND DYNAMIC PROCESSING
- EASY LCD OPERATION WITH USB DATA TRANSFER AND LOGGING
- NEWLY DEVELOPED CLASS-D AMPLIFIER ENGINE



PX10: 2 X 1000W



PX8 : 2 X 800W



PX5 : 2 X 500W



PX3 : 2 X 300W

GENERAL SPECIFICATIONS

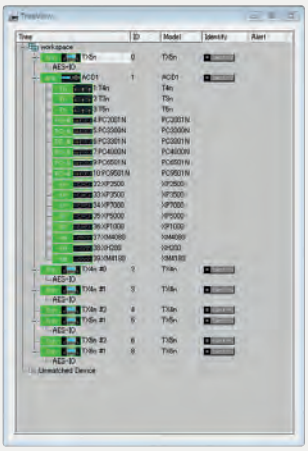
MODEL		PX10	PX8	PX5	PX3
OUTPUT POWER; 1KHZ NON-CLIP 20MSEC BURST BOTH CHANNELS DRIVEN	8Ω	1000W x 2	800W x 2	500W x 2	300W x 2
	4Ω	1200W x 2	1050W x 2	800W x 2	500W x 2
	2Ω	700W x 2	600W x 2	500W x 2	300W x 2
	8Ω/Power Boost Mode	-	-	800W x 1	600W x 1
	4Ω/Power Boost Mode	-	-	1400W x 1	1000W x 1
SAMPLING FREQUENCY RATE	Internal	48kHz	48kHz	48kHz	48kHz
A/D D/A CONVERTERS		AD/DA: 24-bit linear, 128 times over sampling			
TOTAL HARMONIC DISTORTION		0.1% (1kHz, 10W), 0.3% (1kHz, Half power)			
FREQUENCY RESPONSE		±1.0dB (1W, 8Ω, 20Hz to 20kHz)			
S/N RATIO		101dB (A-weighted, 8Ω, Gain setting = +14dBu)			
CROSSTALK		Less than -60dB (Half Power, 8Ω, 1kHz, Vol max input 150Ω shunt)			
VOLTAGE GAIN/ SENSITIVITY	8Ω Volume max	32.0dB/+9.3dBu (Gain setting: 32dB), 26.0dB/+15.3dBu (Gain setting: 26dB), 37.3dB/+4dBu (Gain setting: +4dBu), 27.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+8.3dBu (Gain setting: 32dB), 26.0dB/+14.3dBu (Gain setting: 26dB), 36.3dB/+4dBu (Gain setting: +4dBu), 26.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+6.3dBu (Gain setting: 32dB), 26.0dB/+12.3dBu (Gain setting: 26dB), 34.3dB/+4dBu (Gain setting: +4dBu), 24.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+4.1dBu (Gain setting: 32dB), 26.0dB/+10.1dBu (Gain setting: 26dB), 32.1dB/+4dBu (Gain setting: +4dBu), 22.1dB/+14dBu (Gain setting: +14dBu)
	8Ω Volume max /Power Boost mode	-	-	34.0dB/+6.3dBu (Gain setting: 32dB), 28.0dB/+12.3dBu (Gain setting: 26dB), 36.3dB/+4dBu (Gain setting: +4dBu), 26.3dB/+14dBu (Gain setting: +14dBu)	35.0dB/+4.1dBu (Gain setting: 32dB), 29.0dB/+10.1dBu (Gain setting: 26dB), 35.1dB/+4dBu (Gain setting: +4dBu), 25.1dB/+14dBu (Gain setting: +14dBu)
MAXIMUM INPUT VOLTAGE		+24dBu	+24dBu	+24dBu	+24dBu
INPUT IMPEDANCE		20kΩ (Balance), 10kΩ (Unbalance)			
I/O CONNECTORS	Speaker output ports	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2
	Line Input	XLR-3-31 x2, 1/4 "PHONE(TRS) x2			
	Others	USB 2.0 Standard-A Connector (Female) for Save/Load, Speaker preset update, Firmware update with USB memory; AC inlet x1 with AC cord clamp			
INDICATORS		POWER x1 (Green), ALERT x1 (Red), USB x1 (Green), PROTECT x2 (Red), CLIP/LIMIT x2 (Red), SIGNAL x2 (Green); Auto LED off feature			
PROCESSORS		Input summing; D-CONTOUR(FOH/MAIN, MONITOR, OFF); Delay(0 - 74msec); HPF/LPF(cutoff frequency 20Hz~20kHz with polarity control); Speaker Processor(6 band PEQ* + Limiter + Delay)			
LATENCY		1.5 msec (Analog Input to Speakers)			
PRESETS		8 user amplifier presets (Factory preset: Speaker presets for Yamaha passive speakers)			
PROTECTION CIRCUIT	Load protection	POWER switch on/off: Output mute; Output voltage protection: Over voltage limiter, user configurable by wattage and speaker preset; DC-fault: Power Supply shutdown (NOT restored automatically)			
	Amplifier protection	Thermal: Output limiter (Restored automatically) → Output mute (Restored automatically); Over current: Output mute (Restored automatically); Over voltage: Output limiter (Restored automatically); Integrated Power Limit: Output limiter (Restored automatically)			
	Power supply protection	Thermal: Output limiter (Restored automatically) → Power supply shutdown; Over voltage: Power supply shutdown; Over current: Power supply shutdown			
AMPLIFIER CLASS		Class D, Balanced output circuit (BTL)			
COOLING		16 step variable speed fan x 2, front to rear airflow			
POWER REQUIREMENTS		Depending on area of purchase; 100V 50Hz/60Hz, 120V 60Hz, 220V-240V 50Hz/60Hz *Verified as operating at rated power voltage +/- 10% voltage.			
POWER CONSUMPTION		310W (1/8 MAX power, 4Ω, Pink noise at all channels), 60W (4Ω, Idling)	280W (1/8 MAX power, 4Ω, Pink noise at all channels), 60W (4Ω, Idling)	230W (1/8 MAX power, 4Ω, Pink noise at all channels), 55W (4Ω, Idling)	160W (1/8 MAX power, 4Ω, Pink noise at all channels), 55W (4Ω, Idling)
DIMENSIONS	W x H x D	480x88x388 mm	480x88x388 mm	480x88x388 mm	480x88x388 mm
NET WEIGHT		7.4 kg	7.2 kg	6.9 kg	6.9 kg
ACCESSORIES		USB cover, Owner's Manual, Specification sheet, AC cable (2.0m) x 1			
OTHERS		USB 2.0 Standard-A Connector (Female) for Save/Load, Speaker preset update, Firmware update with USB memory; AC inlet x1 with AC cord clamp			

AMP EDITOR

CONFERENCE | BACKGROUND MUSIC | LIVE | SOFTWARE

INTUITIVE, PLUG AND PLAY AMP MANAGEMENT SOFTWARE

AMP EDITOR is a dedicated software application for Yamaha amplifiers that makes amplifier management easy. Remotely control and monitor amplifiers simply by connecting your TXn, XMV amplifiers to an Ethernet port on a computer via a standard high-speed Ethernet switch. Connection to the Amp Editor network requires no special drivers so that your system is up and running in no time. All TXn amplifier functions and available DSP parameters can be controlled using Amp Editor. Using Amp Editor will give users much more real time information about the conditions of the amplifiers than previously possible. The software can, for example, warn you when a parameter exceeds a predefined voltage, wattage, or impedance (upper/lower) value. By monitoring these parameters, you are also notified instantly if a problem is detected in the input or output signal chain, for example a blown speaker driver on an amplifier channel. Amp Editor will keep logs of these warnings into a file so it's easy to pinpoint and trouble-shoot problems.

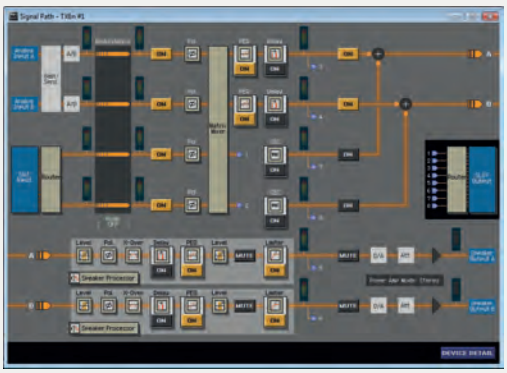




- **TREE VIEW**
  All your amplifiers in the network at a glance. Double click on an amplifier to open the „Detail View" screen.

- **SYSTEM VIEW**
  Manage multiple amplifiers using the System View window. You have access to key parameters and components from this screen. You may also choose to create your own custom control panel.



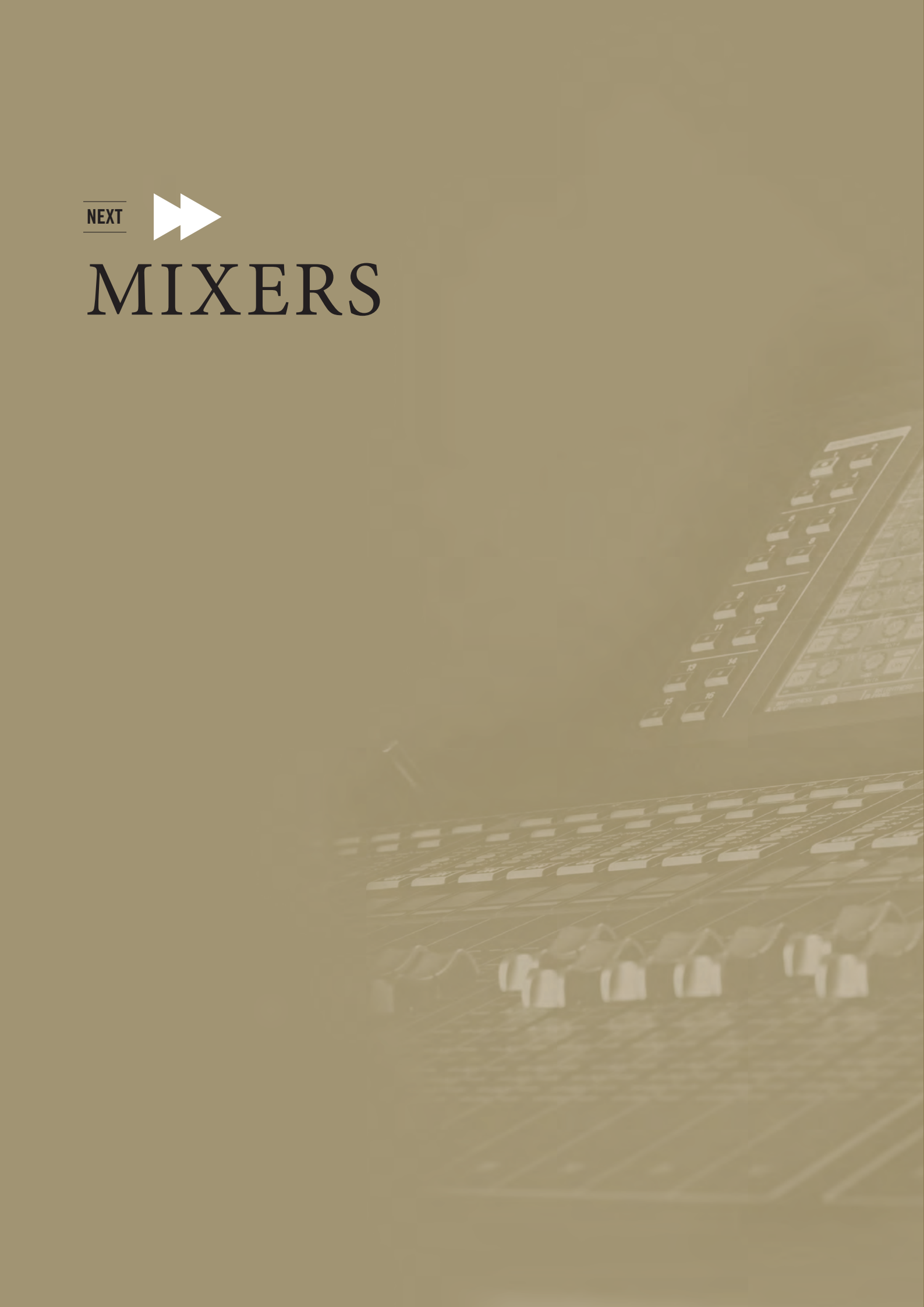


✷ **DETAIL VIEW**
This window gives you in-depth information of the selected amplifier.

✷ **SIGNAL PATH**
(This feature is for TXn series power amplifiers) Audio signal processing functions of the amplifier are placed in the signal path as modular components.

NEXT

MIXERS




YAMAHA
USER DEFINED KEYS
USB
HPF
THRESHOLD
GAIN
FREQUENCY
LOW
LOW-MID
HIGH-MID
HIGH
FADER BANK
1-32
33-64
ST IN/DCA
MIX/MATRIX
PRESS BOTH KEYS TO SWITCH
SCENE 027
YAMAHA

CONFERENCE LIVE BROADCAST

RIVAGE PM SERIES

PERFECTING THE ART OF LIVE SOUND

YAMAHA'S FIRST PROFESSIONAL LIVE SOUND CONSOLE, THE PM200, WAS RELEASED MORE THAN 40 YEARS AGO.

The PM series has provided fertile ground from which numerous significant sound reinforcement milestones have grown ever since. Many of those innovations have become benchmarks that professionals depend on to this day. The **RIVAGE PM10** launched a new generation of PM consoles that have already become standards in large-scale live sound applications because of their unequalled sound, operation, functionality, reliability, expandability, and more. Now the **RIVAGE PM7** digital mixing system expands the digital mixing options available for an even broader range of applications. The Yamaha "PM brand" continues to bring true innovation to the developing live sound scene.



A CHOICE OF SYSTEMS FOR ANY APPLICATION

THE RIVAGE PM SERIES OFFERS A CHOICE OF SYSTEMS THAT CAN BE CONFIGURED TO IDEALLY SUIT A WIDE RANGE OF APPLICATIONS.

A basic **RIVAGE PM10** system consists of the DSP-R10 DSP engine where all the signal processing magic actually happens, the CS-R10/CS-R10-S control surface for intuitive hands-on operation, one or more I/O Rack units for input and output connections, and one or more network cards for network connectivity. The flagship RIVAGE PM10 system also allows DSP mirroring for maximum dependability in mission critical applications while providing the capacity needed for large-scale setups.

A **RIVAGE PM7** system is a little more compact, with signal processing for mixing and effects built into the central CSD-R7 digital mixing console. Other required components are one or more I/O racks for input and output, and a dedicated interface card for network connectivity. The RIVAGE PM7 system's CSD-R7 digital mixing console is the same size as the RIVAGE PM10 system CS-R10 control surface and has the same control layout, and with built-in DSP it offers similarly high standards of operation and workflow efficiency in a relatively compact, portable system.

THE RIVAGE PM SOUND IS THE MUSIC ITSELF

The ideal starting point for creative audio engineering is transparent, uncolored sound. All Yamaha mixers are built on that philosophy, with the goal of allowing engineers to capture the on-stage sound accurately, without coloration, and then add creative touches as required. The merits of Yamaha's unwavering adherence to this concept are evident throughout the RIVAGE PM series.
Input circuitry and processing are critical to achieving the required sonic quality. The output end of the signal chain plays an important role in maintaining that quality too. Yamaha offers two types of high-performance I/O Rack units for RIVAGE PM system input and output, each providing compatibility with a different audio network.
One is the TWINLANe network, using optical cable to simultaneously carry up to 400 audio channels. Combinations of the RPio622 and/or RPio222 I/O racks and HY256-TL or HY256-TL-SMF audio interface cards allow input via Hybrid Microphone Preamplifiers with analog input stages that take the Yamaha "natural sound" concept to new heights, as well as digital sections with immaculate VCM-technology models of Rupert Neve Designs transformer and SILK processing circuitry that offer outstanding musicality and atmosphere.
Then there's the Dante audio network from Audinate, already standard in CL and QL series digital consoles as well as a range of other Yamaha pro audio products.
Dante equipped Rio3224-D2 and Rio1608-D2 I/O Racks and the HY144-D audio interface card can be combined to provide natural sound input at full RIVAGE PM series quality.

RUPERT NEVE QUALITY FOR ALL ENGINEERS
(RPio622 & RPio222)

When fitted with RY16-ML-SILK analog input cards the RPio622 and RPio222 I/O racks offer outstanding emulations of the transformer circuitry and SILK processing featured in microphone preamplifiers from Rupert Neve Designs, immaculately modeled using acclaimed Yamaha VCM (Virtual Circuitry Modeling) technology.

Many recording engineers value Rupert Neve microphone preamps for their appealing natural compression and saturation. SILK processing can take that seductive sonic foundation to new levels with added power and flair. Sounds that tend to get lost in the mix are given new life and luster with a lush analog-like core.

The SILK processing function provided in the RIVAGE PM series Hybrid Microphone Preamplifiers offers two variations: "RED" for sparkling energy, and "BLUE" for solidity and power. There's also a continuously variable "TEXTURE" knob that musically shapes the harmonic components to best suit the source. The benefits of SILK processing are also evident in the way channel EQ and reverb plug-ins affect the sound. The RIVAGE PM series makes the coveted Rupert Neve preamplifier sound available to a wider range of engineers who can put it to creative use.



TOSHIFUMI KUNIMOTO
ENGINEERING MANAGER,
RESEARCH & DEVELOPMENT DIVISION



RUPERT NEVE

DAN DUGAN AUTOMATIC MIXER BUILT IN

Through in-depth collaboration with Dan Dugan Sound Design, renowned Dan Dugan automatic microphone mixing with its advanced algorithms is built into the RIVAGE PM series digital mixing systems. Setup is easy: just insert the processor into up to 64 channels for automatically optimized microphone gain distribution. Gain control is smooth and natural, as though experienced human operators were doing the mix. The system also effectively reduces feedback and comb filter issues.
For speech applications, especially non-scripted situations, this allows the operator to concentrate on details other than fader operation for consistently high-quality mixes.



DAN DUGAN

POLISHED OPERATION OFFERS CONFIDENCE AND COMFORT

Since the mixing console is the engineer's primary tool, its operability is crucial, particularly in today's rapidly evolving live sound environment. RIVAGE PM series systems feature a unique Hybrid Operation Style that takes the most highly valued aspects of Yamaha digital mixing consoles to a new, highly refined level, giving engineers unprecedented expressive control. Underpinning the system's extraordinary operability is a full implementation of Yamaha's acclaimed Selected Channel interface on the right side of the prominently raised control surface, allowing all parameters of the currently selected channel to be directly and intuitively controlled. The left side of the panel features two large LCD touch screens that provide logical continuity with the faders below, offering Centralogic style control of a large number of simultaneous channels. In addition to these two interface features, encoder position visibility has been enhanced, as have a number of other details that contribute to significantly improved operability overall. With operation and features designed to comprehensively support today's live sound scene, the RIVAGE PM series allows engineers to focus on the sound and enjoy the creative process.



OVERVIEW



SELECTED CHANNEL



ERGONOMICS FADER KNOBS



HORSESHOE-SHAPED ENCODER RINGS

EVOLVING FUNCTIONALITY AND SCALABILITY

Because evolving applications continually raise new challenges and needs, Yamaha provides continuing support in the form of firmware updates that keep our digital mixers, RIVAGE PM systems included, up to date and often ahead of the curve. One of the major benefits offered by digital mixing systems is scene memory. But in order to accommodate individual situations and workflows it must be flexible and customizable. The RIVAGE PM series offers Overlay and Isolate filters as well as Event Lists functionality for significantly enhanced scene memory flexibility. RIVAGE PM series firmware Version 2.0 adds a number of important features, such as 5.1 surround panning and monitoring for broadcast applications, and two surround buses for efficient international feed production. A broadcast Mix Minus function is provided too, allowing a specified source to be removed from a specified remote feed with just a few steps. Dual Console and Port to Port functions contribute to broad system configurability, as does the DSP Mirroring functionality of the RIVAGE PM10. Version 2.5 adds theatre mode, while version 3 adds port labelling, DaNSe plug-in and much more.



OVERLAY



EVENT LIST



MIX MINUS



SURROUND MONITOR

EQ/COMP DESIGNED BY RUPERT NEVE, EVENTIDE ULTRA HARMONIZER, AND MORE

Processing quality has always been a major strength of Yamaha digital consoles. The RIVAGE PM series offers a comprehensive selection of plug-ins, including models of in-demand classics. The RIVAGE PM10 includes 51 plugins, while the RIVAGE PM7 includes 49. Ample processing power allows up to 384 instances of complex plug-ins such as the Portico 5033 or Portico 5043 to be used simultaneously. The easy-operation Rupert Neve Designs Portico 5045 introduced with firmware Version 2.0 effectively suppresses background noise at microphone inputs for enhanced clarity while significantly increasing the feedback margin, making it a valuable tool for live sound in houses of worship, stadiums, halls, and other environments where feedback can be problem. Version 3 introduces the DaNSe plug-in; a powerful, intuitive Dynamic Noise Suppressor designed by the legendary Dr. K's Labs to feature exceptional sound quality. This innovative new algorithm can learn the noise characteristics of an audio signal, and then automatically remove the noise. RIVAGE PM series plugins are carefully chosen, practical effects that can be invaluable for creative processing in real-world live sound applications.



Rupert EQ 773



Rupert EQ 810



Rupert Comp 754



Rupert Comp 830



Portico 5033



Portico 5043



Portico 5045



H3000 Live



Buss Comp 369



MBC4



Dynamic EQ4



DaNSe

SYSTEM COMPONENTS AND SOFTWARE

RIVAGE PM10 CORE COMPONENTS

THE CONTROL SURFACE WITH TWO LARGE TOUCH PANEL DISPLAYS AND 38 FADERS ENABLES YOU TO PERFORM GENERAL OPERATIONS ON THE RIVAGE PM10 SYSTEM.



CS-R10

- Display: 15" touch panel x 2
- Faders: 38 (12+12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 2
- Analog I / O: 8 in / 8 out
- Slot: 2 MY slots
- AES/EBU: 4 in / 4 out (with SRC)
- Ports: GPI (8 in / 8 out), Word Clock Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)
- Power supply: Dual redundant power supply built-in
- Dimensions (WxHxD): 1,549 x 417 x 848mm
- Net Weight: 85 kg (187 lbs)

THE CONTROL SURFACE WITH SINGLE LARGE TOUCH PANEL DISPLAY AND 26 FADERS ENABLES YOU TO PERFORM GENERAL OPERATIONS ON THE RIVAGE PM10 SYSTEM.



CS-R10-S

- Display: 15" touch panel x 1
- Faders: 26 (12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 1
- Analog I / O: 8 in / 8 out
- Slot: 2 MY slots
- AES / EBU: 4 in / 4 out (with SRC)
- Ports: GPI (8 in / 8 out), Word Clock Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)
- Power supply: dual redundant power supply built-in
- Dimensions (WxHxD): 1,128 x 417 x 848mm
- Net Weight: 67 kg (147.7 lbs)

THE DSP-R10 IS A POWERFUL DSP ENGINE THAT SERVES AS THE CORE FOR SIGNAL PROCESSING AND SYSTEM CONTROL REQUIRED FOR THE RIVAGE PM10 SYSTEM.



DSP-R10

- Superior capability of processing digital audio signals of up to 144 input, 72 MIX, 36 MATRIX, and two STEREO channels.
- Four HY card slots that are capable of transmitting / receiving up to 256 ins / outs of digital audio signals / control signals.
- Two Mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 232 x 490.8mm (5U rack size)
- Net Weight: 20 kg (44 lbs)

RIVAGE PM7 CORE COMPONENT

THE CSD-R7 IS A DIGITAL MIXING CONSOLE THAT SERVES AS THE CORE FOR SIGNAL PROCESSING AND SYSTEM CONTROL, AND ENABLES YOU TO PERFORM GENERAL OPERATIONS ON THE RIVAGE PM7 SYSTEM.



CSD-R7

- Superior capability of processing digital audio signals of up to 120 input, 60 MIX, 24 MATRIX, and two STEREO channels.
- Three HY card slots that are capable of transmitting / receiving up to 256 ins / outs of digital audio signals / control signals.
- Display: 15" touch panel x 2 Faders: 38 (12+12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 2
- Analog I / O: 8 in / 8 out
- Slot: 3 HY slots, 2 MY slots
- AES/EBU: 4 in / 4 out (with SRC)
- Ports: TC In, GPI (8 in / 8 out), Word Clock In / Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)Power supply: Dual redundant power supply built-in
- Dimensions (WxHxD): 1,549 x 417 x 848mm
- Net Weight: 94 kg (207 lbs)

I/O RACK

THE RPio622 IS AN AUDIO INTERFACE THAT ENABLES YOU TO FLEXIBLY CONFIGURE AND EXPAND I/OS FOR THE RIVAGE PM SYSTEM AS REQUIRED BY YOUR APPLICATION OR THE SCALE OF YOUR SYSTEM.



RPio622

- Six RY card slots that enable you to expand analog inputs and outputs, and / or digital inputs and outputs.
- Two HY card slots that are capable of transmitting/receiving up to 256 ins / outs of digital audio signals/control signals.
- HY card slot 1 features 256 ins/outs, and HY card slot 2 features 128 ins / outs.
- Two mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 455 x 489.7mm (10U rack size)
- Net Weight: 30 kg (66 lbs)

SYSTEM COMPONENTS AND SOFTWARE

THE RPio222 IS AN AUDIO INTERFACE THAT ENABLES YOU TO FLEXIBLY CONFIGURE AND EXPAND I/OS FOR THE RIVAGE PM SYSTEM AS REQUIRED BY YOUR APPLICATION OR THE SCALE OF YOUR SYSTEM.



TWINLANe RPio222

- Two RY card slots that enable you to expand analog inputs and outputs, and / or digital inputs and outputs.
- Two HY card slots that are capable of transmitting/receiving up to 256 ins / outs of digital audio signals / control signals.
- HY card slot 1 features 256 ins / outs, and HY card slot 2 features 128 ins / outs.
- Two mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 232 x 491mm (5U rack size)
- Net Weight: 19 kg (41.9 lbs)

THE Rio3224-D2 IS A HIGH-PERFORMANCE I/O RACK UNIT WITH BUILT-IN DANTE AUDIO NETWORKING. DESIGNED AND MANUFACTURED TO ACHIEVE OUTSTANDING SONIC TRANSPARENCY IN KEEPING WITH YAMAHA'S "NATURAL SOUND" PHILOSOPHY.



Dante™ Rio3224-D2

- 32-channel mic / line input
- 16-channel analog outputs
- AES/EBU 8-channel digital outputs.
- Dual redundant power supply built-in
- Character / icon display allowing confirmation of Dante settings and edit/check gain, high-pass filters, and phantom power settings
- Dimensions (WxHxD): 480 x 220 x 367.5mm (18.9" x 8.7" x 14.5")
- Net Weight: 13.5 kg (29.8 lbs)

THE Rio1608-D2 IS A HIGH-PERFORMANCE I/O RACK UNIT WITH BUILT-IN DANTE AUDIO NETWORKING. DESIGNED AND MANUFACTURED TO ACHIEVE OUTSTANDING SONIC TRANSPARENCY IN KEEPING WITH YAMAHA'S "NATURAL SOUND" PHILOSOPHY.



Dante™ Rio1608-D2

- 16-channel mic / line input
- 8-channel analog outputs
- Dual redundant power supply built-in
- Character / icon display allowing confirmation of Dante settings and edit/check gain, high-pass filters, and phantom power settings
- Dimensions (WxHxD): 480 x 132 x 367.5mm
- Net Weight: 9.6 kg (21.2 lbs)

AUDIO INTERFACE CARD

THE RY16-ML-SILK IS A 16-CHANNEL MIC / LINE INPUT CARD THAT SUPPORTS A 96 KHZ SAMPLING RATE. IT FEATURES A NEW REVOLUTIONARY ANALOG MIC PREAMP COMBINED WITH SILK PROCESSING FROM RUPERT NEVE DESIGNS, WHICH ALLOWS YOU TO FREELY CONTROL DEPTH AND PERSPECTIVE THROUGH MODELING IN THE DIGITAL DOMAIN. EACH INPUT CONNECTOR CAN SUPPLY PHANTOM POWER (+48V DC).



RY16-ML-SILK

for RPio622 / RPio222

- 16-channel mic / line inputs
- SILK digital processing technology that has been co-developed by Rupert Neve Designs and Yamaha
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.6 kg (3.5 lbs)

THE RY16-DA IS A 16-CHANNEL ANALOG OUTPUT CARD THAT SUPPORTS A 96 KHZ SAMPLING RATE. YOU CAN USE THE SWITCHES ON THE BOARD TO SET MAXIMUM OUTPUT LEVEL TO +15DBU, +18DBU, OR +24DBU. THE FACTORY SETTING IS +24DBU.



RY16-DA

for RPio622 / RPio222

- 16-channel analog outputs
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.5 kg (3.3 lbs)

THE RY16-AE IS A 16-CHANNEL DIGITAL I/O CARD THAT SUPPORTS THE AES/EBU FORMAT. SAMPLING RATE CONVERTERS (SRC) ARE PROVIDED FOR EACH OF THE 16 INPUT CHANNELS AND 16 OUTPUT CHANNELS.



RY16-AE

for RPio622 / RPio222

- AES/EBU 16-channel digital I / Os.
- Sampling rate converter for both inputs and outputs.
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.4 kg (3.1 lbs)

THE HY256-TL IS A DIGITAL I / O CARD FOR HY CARD SLOTS, AND COMPATIBLE WITH YAMAHA'S TWIN-LANE AUDIO NETWORK PROTOCOL. THE CARD SUPPORTS MULTI-MODE FIBER CONNECTIONS FOR RELIABLE OPERATION.



HY256-TL

for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 256 inputs / 256 outputs.
- Redundant connections are supported with ring topology.
- Ind+C58icators show communication status useful for troubleshooting.
- Recommended cable: Neutrik opticalCON DUO multi-mode fiber
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.25 kg

SYSTEM COMPONENTS AND SOFTWARE

THE HY256-TL-SMF IS A DIGITAL I / O CARD FOR HY CARD SLOTS, AND COMPATIBLE WITH YAMAHA'S TWINLANE AUDIO NETWORK PROTOCOL. THE CARD SUPPORTS SINGLE-MODE FIBER CONNECTIONS FOR RELIABLE OPERATION OVER LONG DISTANCES.



HY256-TL-SMF

for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 256 inputs / 256 outputs.
- Redundant connections are supported with ring topology.
- Indicators show communication status useful for troubleshooting.
- Recommended cable: Neutrik opticalCON DUO single-mode fiber
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.35 kg (0.8 lbs)

THE HY144-D IS A DIGITAL I / O CARD FOR HY CARD SLOTS, AND IS COMPATIBLE WITH THE DANTE DIGITAL AUDIO NETWORK OVER GIGABIT ETHERNET CONNECTIONS.



HY144-D

for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 144 inputs / 144 outputs.
- Redundant connections are supported with primary and secondary connectors. Daisy chain connections are also supported.
- Indicators show communication status useful for troubleshooting.
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.25 kg (0.6 lbs)



HY144-D-SRC

for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality with sample rate conversion, with a maximum of 144 inputs / 144 outputs.
- Redundant connections are supported with primary and secondary connectors. Daisy chain connections are also supported.
- Indicators show communication status useful for troubleshooting.
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.25 kg (0.6 lbs)



HY128-MD MADI

for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send and receive uncompressed digital audio signals of 24-bit 48 kHz quality with sample rate conversion, with a maximum of 128 inputs / 128 outputs.
- Coaxial and optical MADI transmission lines are provided for redundancy that can prevent downtime in the event that one or the other fails.
- Indicators show communication status useful for troubleshooting.
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.45 kg (1.0 lbs)

I/O RACK



Ri8-D

- 8-channel mic / line inputs



Ro8-D

- 8-channel analog outputs



RMio64-D

The RMio64-D Dante/MADI conversion I/O rack with sample rate conversion supports a wide range of broadcast and live sound applications with extraordinary flexibility, and without getting in the way.



RSio64-D

The RSio64-D is an audio interface with sample rate conversion that can convert between Dante and Mini-YGDAI formats for up to 64 inputs and 64 outputs.

L2 SWITCH



SWP1-16MMF

- etherCON Connectors: 4 front / 8 rear
- RJ45 Connectors: 4 rear
- OpticalCON Connectors: 1 front (1Gbps)
- Optional optical module slot: 1 front (1Gbps)



SWP1-8MMF

- etherCON Connectors: 4 front / 4 rear
- OpticalCON Connectors: 1 front (1Gbps)
- Optional optical module slot: 1 front (1Gbps)



SWP1-8

- etherCON Connectors: 4 front / 4 rear
- Optional optical module slot: 2 front (1Gbps)



SWP2-10MMF

- etherCON Connectors: 4 front / 6 rear
- OpticalCON Connectors: 2 front (10Gbps)



SWP2-10SMF

- etherCON Connectors: 4 front / 6 rear
- OpticalCON Connectors: 2 front (10Gbps)

SOFTWARE



RIVAGE PM STAGEMIX

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RIVAGE PM STAGEMIX provides remote control of RIVAGE PM series functions via a simple, intuitive graphical interface from anywhere within wireless range. The software has been specifically designed to allow engineers to adjust monitor mixes from the performers' positions on stage, directly controlling mix parameters via the iPad rather than having to rely on verbal directions to a second engineer.



RIVAGE PM EDITOR

The **RIVAGE PM EDITOR** is a standalone application for computers running Windows or Mac operating systems, for both extended online operation and offline setup and editing.

YAMAHA CONSOLE FILE CONVERTER

The **YAMAHA CONSOLE FILE CONVERTER** is an application that allows data to be shared between a number of Yamaha digital mixing consoles. You can share data between RIVAGE PM series, CL / QL series, PM5D, M7CL, and LS9 consoles, so data from one show doesn't have to be completely reprogrammed from scratch for the next, even if different consoles are used.

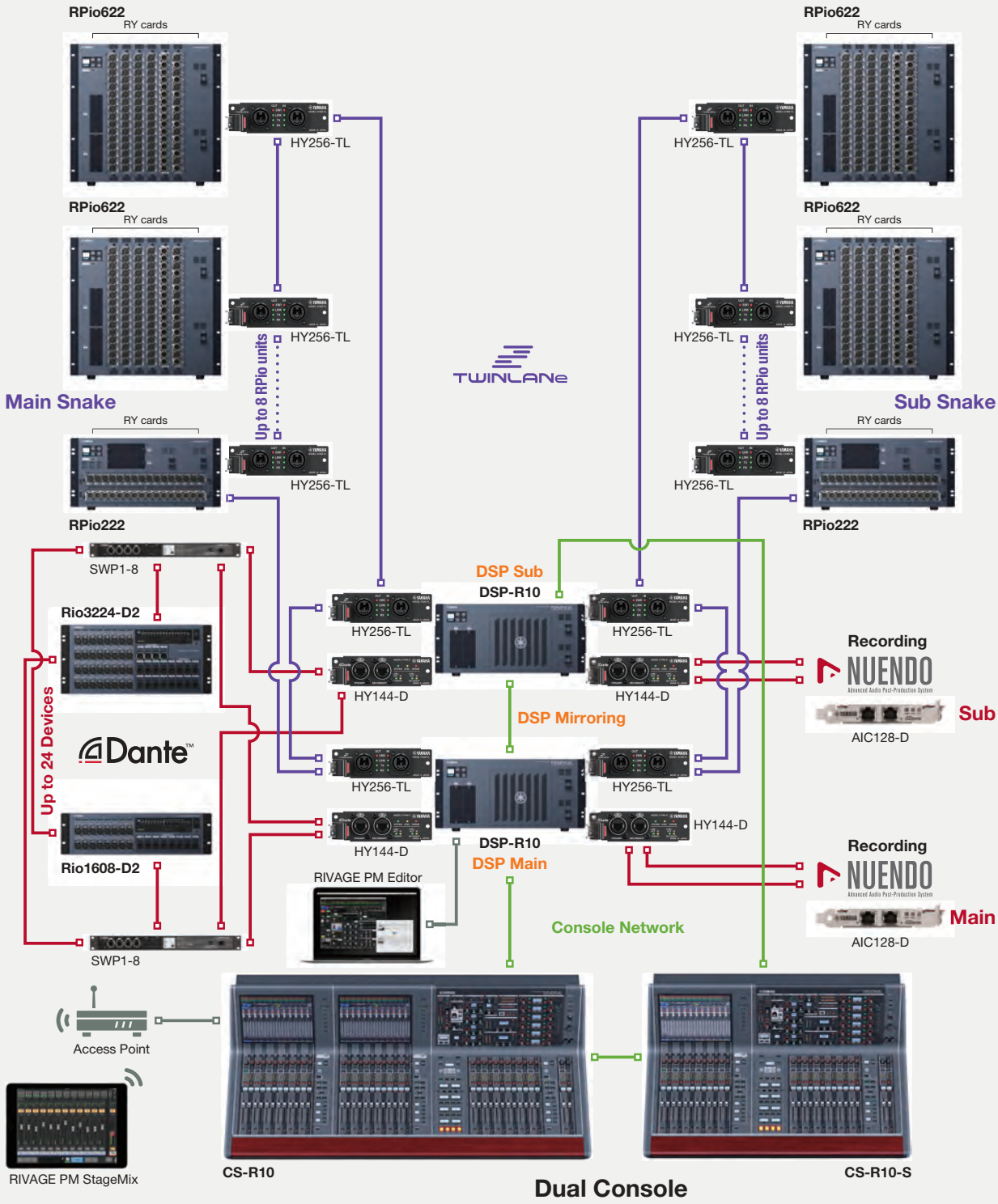
FUNCTIONAL SPECIFICATIONS

			RIVAGE PM10 (EXCLUDING I/O RACK)	RIVAGE PM7 (EXCLUDING I/O RACK)
MIXING CAPACITY	Input Mixing Channels		144mono	120mono
	Mix Buses		72	60
	Matrices		36 (Input to Matrix supported)	24 (Input to Matrix supported)
	Stereo Buses		2	2
	Mono Buses		1	1
	Cue Bus		2	2
LOCAL CONNECTORS	Analog Input	XLR	8	8
	Analog Output	XLR	8	8
	Expansion Slots	HY Slots	4 (DSP-R10)	3 (CSD-R7)
		MY Slots	CS-R10 & CS-R10-S: 2 DSP-R10: 2	2 (CSD-R7)
	Digital In	AES / EBU	4	4
	Digital Out	AES / EBU	4	4
	GPI	IN (D-Sub)	8 (CS-R10 & CS-R10-S) / 8 (DSP-R10)	8 (CSD-R7)
		Out (D-Sub)	8 (CS-R10 & CS-R10-S) / 8 (DSP-R10)	8 (CSD-R7)
	Word Clock I/O		Only Out (CS-R10 & CS-R10-S) In/Out (DSP-R10)	In / Out (CSD-R7)
	MIDI I/O		In/Out (CS-R10 & CS-R10-S) In/Out (DSP-R10)	In / Out (CSD-R7)
	USB	File	4	4
		2 Track Rec / Play	1	1
	External Redundant PSU		Built-in dual power supply	Built-in dual power supply
	Meter Bridge		On screen	On screen
	Ethernet		Yes	Yes
	Lamp		CS-R10: 4 CS-R10-S: 3	4 (CSD-R7)
	Talkback In		Yes	Yes
	Video Out		Yes	Yes
	TC In		Yes (DSP-R10)	Yes (CSD-R7)
	Fault Output		Yes (DSP-R10)	No
	Phones		2	1
	AC Inlet		CS-R10 & CS-R10-S: 2 (V-Lock Type) DSP-R10: 2 (V-Lock Type)	2 (CSD-R7, V-Lock Type)
SCENE MEMORY	Number of Scenes		1000	1000
	Recall Safe		Yes	Yes
	Focus Recall		Yes	Yes
	Fade Time		Yes (0s ~ 60s)	Yes (0s ~ 60s)
	Preview		Yes (V2.0 or later)	Yes
	Selective Load / Save		Yes (V1.5 or later)	Yes
	Global Paste		Yes (V1.2 or later)	Yes
	Event List		Yes (V2.0 or later with timecode trigger)	Yes
	Overlay		Yes (V1.2 or later)	Yes
	Isolate		Yes	Yes
	Tactile Control Keys		Yes	Yes
INPUT CHANNEL FUNCTIONS	Gain Compensation		Yes	Yes
	Silk		Yes (with RPio)	Yes (with RPio)
	Digital Gain		Yes (-96dB ~ +24dB)	Yes (-96dB ~ +24dB)
	ATT		No	No
	HPF		20Hz~2000Hz, -6/-12/-18/-24dB/oct Selectable	20Hz~2000Hz, -6/-12/-18/-24dB/oct Selectable
	PEQ		4 Band Full PEQ (4 algorithms, RTA overlay support)	4 Band Full PEQ (4 algorithms, RTA overlay support)
	Dynamics 1		Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking
	Dynamics 2		Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking
	Input Delay		Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)
	Pan		Center Nominal	Center Nominal
	DCA Group		24 (Output DCA support)	24 (Output DCA support)
	DCA Rollout		Yes	Yes
	MUTE Group		12	12
	Number of Inserts		4 slots on each 2 insert point	4 slots on each 2 insert point
	Direct Out		Yes	Yes

		RIVAGE PM10 (EXCLUDING I/O RACK)	RIVAGE PM7 (EXCLUDING I/O RACK)
OUTPUT CHANNEL FUNCTIONS	PEQ	8 Band Full PEQ	8 Band Full PEQ
	GEQ	Plug-in	Plug-in
	Dynamics 1	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking
	Output Channel Delay	Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)
	MUTE Group	12	12
	Number of Inserts	4 slots on each 2 insert point	4 slots on each 2 insert point
PLUG-IN	Number of Slots	384	384
	Number of Effect Programs	51	49 (VSS4HD and NonLin2 are not supported)
GEQ RACK	Number of GEQ Racks	48	48
	Mountable Device	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay support)	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay support)
TWINLANE	Number of I / O Channels	256 in / 256 out (with HY256-TL)	256 in / 256 out (with HY256-TL)
DANTE	Number of I / O Channels	144 in / 144 out by HY144-D(SRC)	144 in / 144 out by HY144-D(SRC)
MADI	Number of I / O Channels	128 in / 128 out by HY128-MD	128 in / 128 out by HY128-MD
RECORDING	USB Memory Recording	Yes	Yes
	DVS Recording	Yes (with HY144-D)	Yes (with HY144-D)
BROADCAST FUNCTIONS	5.1 Surround Panning	Yes (V2.0 or later)	Yes
	Surround Monitor	Yes (V2.0 or later)	Yes
	Mix Minus	Yes (V2.0 or later)	Yes
	L-Mono / R-Mono / LR-Mono	No	No
MONITOR	Solo Mode	Yes	Yes
	Oscillator	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise
OTHER FUNCTIONS	Port to Port	Yes (V1.5 or later)	Yes
	Dual Console	Yes (V2.0 or later)	Yes
	DSP Mirroring	Yes (V2.0 or later)	No
	Timecode Reader/ Display	Yes (V2.0 or later)	Yes
	Timecode Chase (Event List)	Yes (V2.0 or later)	Yes
	GPI/MIDI	Yes	Yes
	RTA	Yes	Yes
	Output Port Delay	Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)
	Cascade	Yes (V3.0 or later)	Yes (V3.0 or later)
	Bus to Input	Yes (V3.0 or later)	Yes (V3.0 or later)
	Port Labelling	Yes (V3.0 or later)	Yes (V3.0 or later)
USER INTERFACE	Display	CS-R10: 15 inch Touch Panel x 2 CS-R10-S: 15 inch Touch Panel x 1	15 inch Touch Panel x 2
	Centralogic Section	Yes	Yes
	Faders	CS-R10: 12 + 12 + 12 + 2 CS-R10-S: 12 + 12+ 2	12 + 12 + 12 + 2
	Selected Channel Encoders	All Parameters	All Parameters
	Channel Encoder	Yes	Yes
	Channel Name / Color Display	Yes	Yes
	Custom Fader Banks	Yes (6 x 2 on each bay)	Yes (6 x 2 on each bay)
	User Defined Keys	12 (x 4 banks)	12 (x 4 banks)
	User Defined Knobs	4 (x 4 banks)	4 (x 4 banks)
	Touch and Turn Knob	Yes	Yes
	Monitor Level Knob	Yes (2: A and B)	Yes (2: A and B)
	Wooden Arm Rest	Yes	Yes
SOFTWARE	Editor	RIVAGE PM Editor	RIVAGE PM Editor
	StageMix	RIVAGE PM StageMix (V2.0 or later)	RIVAGE PM StageMix
	MonitorMix	TBD	TBD
	Nuendo Live: Control integration	Yes (Future Update)	Yes (Future Update)
	Console File Converter	Yes	Yes

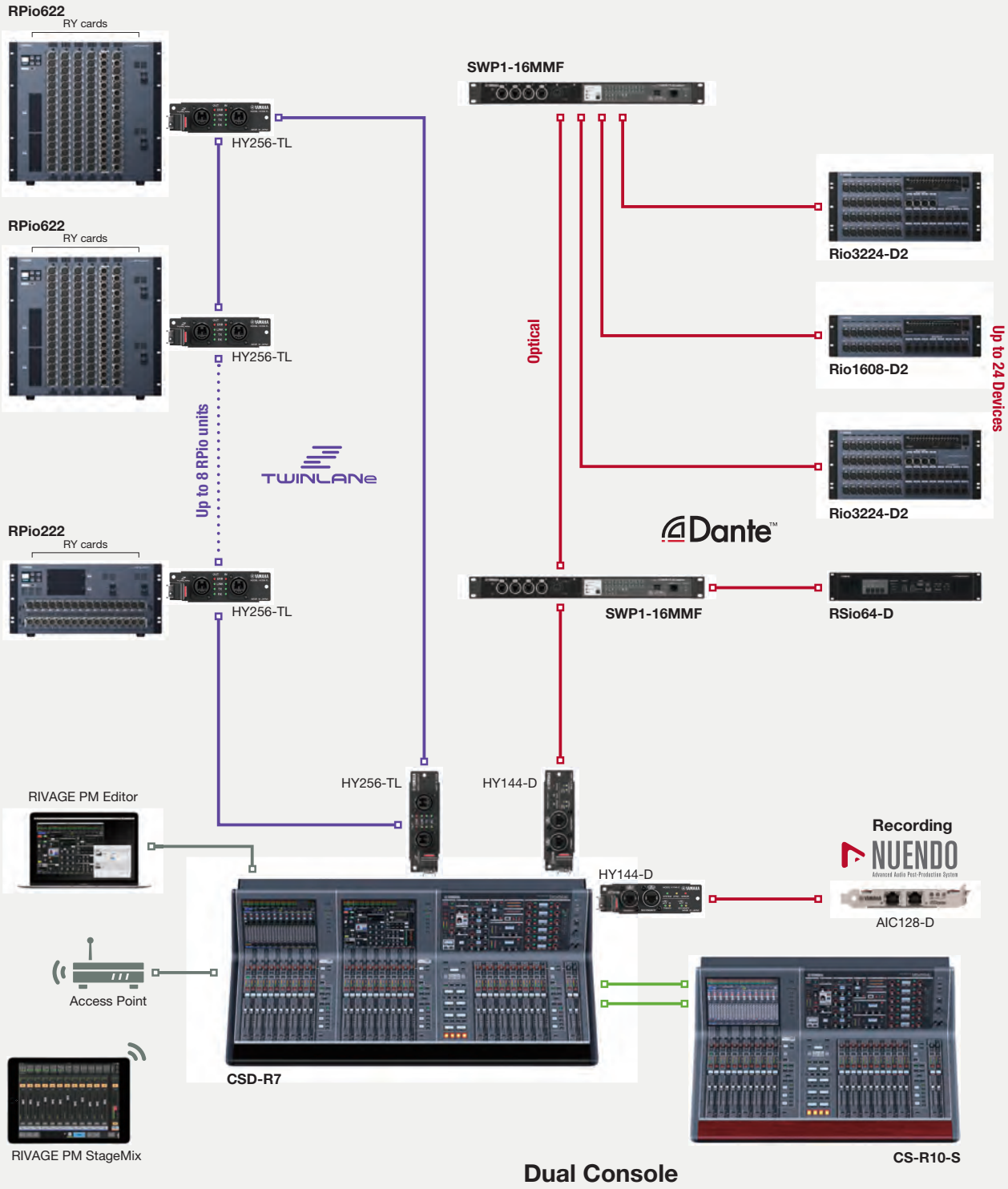
SYSTEM EXAMPLE 1: RIVAGE PM10

In this **RIVAGE PM10** system two TWINLANe cards are installed in the DSP-R10 DSP Engine to allow connection of two TWINLANe rings. Each ring can accommodate up to eight RPio622 and/or RPio222 I/O Rack units, providing ample capacity for large-scale applications. A Dante network can coexist with the TWINLANe network as required. The RIVAGE PM10 supports DSP Mirroring with two DSP-R10 DSP Engine units. If a problem occurs in the main DSP-R10 the second DSP-R10 can take over for continued operation.



SYSTEM EXAMPLE 2: RIVAGE PM7

In a **RIVAGE PM7** system the CSD-R7 Digital Mixing Console can be fitted with a TWINLANe or Dante-capable HY card for use with RPio622/RPio222 or Rio3224-D2/Rio1608-D2 I/O racks, respectively. Up to eight RPio622/RPio222 units can be connected to the TWINLANe card, or up to 24 Dante devices, including Rio3224-D2/Rio1608-D2 units, can be connected via a Dante network. TWINLANe and Dante networks can coexist in a RIVAGE PM7 system. The CS-R10-S Control Surface originally designed for use with the RIVAGE PM10 can also be connected to a RIVAGE PM7 system to serve as a sidecar for fader expansion and/or multi-operator control.



CL SERIES

DIGITAL MIXING CONSOLE

CL5





Centralogic™ StageMix MonitorMix Virtual Cinema Modeling RUPERT NEVE DESIGNS

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REV-X Dante™ MY16 NUENDO LIVE

RACK I/O: PAGE 180 PAGE 164 PAGE 136

CL3





Centralogic™ StageMix MonitorMix Virtual Cinema Modeling RUPERT NEVE DESIGNS

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REV-X Dante™ MY16 NUENDO LIVE

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CL1





Centralogic™ StageMix MonitorMix Virtual Cinema Modeling RUPERT NEVE DESIGNS

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REV-X Dante™ MY16 NUENDO LIVE

RACK I/O: PAGE 180 PAGE 164 PAGE 136

A NETWORKED LIVE MIXING SYSTEM WITH UNPRECEDENTED SCALABILITY, SOUND QUALITY AND FLEXIBILITY

VERSATILE, CREATIVE CONSOLES FOR EXPRESSIVE ENGINEERING

- Naturally superior sound plus a comprehensive range of "coloring" options.
- Acclaimed Yamaha Centralogic concept at the core of a refined user interface.
- Separate console and I/O rack components communicate via Dante™ network audio protocol.
- AES67, Dante Device Lock and Dante Domain Manager support.
- Up to eight I/O rack units can be connected to each console. 5U size Rio3224-D(2) I/O unit provides 32 ins, 16 outs, and fourAES/EBU outputs. 3U size Rio1608-D(2) I/O unit has 16 ins and 8 outs. Compact 2U size Tio1608-D provides 16 ins and 8 outs.
- Four versatile channel PEQ algorithms: Precise, Agressive, Smooth and Legacy.
- I/O rack unit sharing allows multiple consoles to control the same I/O unit, with gain compensation.
- Virtual "Premium Rack" with VCM models of the renowned Neve Portico 5043 compressor/limiter, Portico 5045 Primary Source enhancer, plus other VCM equalizers, single- and multi-band compressors, and studio quality effects.
- Virtual "Effect Rack" allows simultaneous use of up to 8 effects from a selection of 46 ambience effects and 8 insertion effects.
- Virtual "GEQ Rack" allows graphic EQ to be inserted into the output buses as required for room equalization and other functions.
- Seamlessly integrated remote control and offline editing via an Apple iPad® or other computer.
- Remote Control and Monitoring of various Yamaha and 3rd Party devices.
- Network redundancy supported for maximum reliability.
- Every detail – faders, knobs, switches, indicators, displays, etc. – designed for optimum operating feel.
- 2-track mp3 recording to USB memory.
- Tight integration with Nuendo Live (included) for serious live multitrack recording.
- Multitrack recordings can be used for "virtual sound checks" when the performers aren't available.
- Three Mini-YGDAI card slots provide easy I/O expansion as well as extra processing capabilities.
- Lake® processing can be added via expansion slots.
- Other features: editable channel names and colors, user defined keys and knobs, 300 scene memories, input and output delays, ample EQ and dynamics processing, 16 DCA groups, 8 mute groups, 5-in/5-out GPI interface, multiple user key sets, on-screen help, and more.
- Surround mixing & monitoring

CL5

THREE-SECTION FADER LAYOUT FOR EFFICIENT HANDS-ON CONTROL. THE CL5 IS THE IDEAL CHOICE FOR A DIVERSE SPECTRUM OF LIVE SOUND SYSTEMS

- Input channels: 72 mono, 8 stereo
- Fader configuration: 16-fader left section, 8-fader Centralogic section, 8-fader right section, 2-fader master section
- Stainless steel stay for iPad support
- Built-in meter bridge
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

CL3

AN IDEAL BLEND OF COMPACT SIZE AND CHANNEL CAPACITY FOR A VARIETY OF LIVE AND INSTALLED APPLICATIONS

- Input channels: 64 mono, 8 stereo
- Fader configuration: 16-fader left section, 8-fader Centralogic section, 2-fader master section
- Stainless steel stay for iPad support
- Meter bridge optional
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

CL1

DUAL 8-FADER SECTIONS IN A SPACE-SAVING CONSOLE THAT CAN BE USED ALONE OR CASCADED TO ANOTHER CL CONSOLE FOR INPUT EXPANSION

- Input channels: 48 mono, 8 stereo
- Fader configuration: 8-fader left section, 8-fader Centralogic section, 2-fader master section
- Meter bridge optional
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

GENERAL SPECIFICATIONS

Sampling frequency rate	Internal:	44.1kHz, 48kHz
	External:	44.1kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm
		48kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm
Signal Delay	Less than 2.5 ms OMNI IN to OMNI OUT (@fs=48kHz)	
Total harmonic distortion*1 OMNI IN to OMNI OUT Input Gain=Min.	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω	
Frequency response CH INPUT to OMNI OUT	+0.5, -1.5dB 20Hz to 20kHz, refer to +4dBu output @1kHz, OMNI IN to OMNI OUT	
Dynamic range (maximum level to noise level)	112dB typ., DA Converter, 108dB typ., OMNI IN to OMNI OUT, Input Gain = Min.	
Hum & noise level*2 (20Hz to 20kHz), Rs=150Ω	-128dBu Equivalent input noise, Input Gain=Max., -84dBu Residual output noise, ST master off	
Crosstalk (@1kHz) Input Gain=Min.	-100dB*3, Adjacent OMNI IN/OMNI OUT channels	
Phantom Power	+48V	
Power requirements	AC110V-240V, 50/60Hz	
Power consumption	CL5/CL3/CL1: 170W, Internal Power Supply CL5/CL3/CL1: 200W, Simultaneous use of Internal PSU and External PW800W	

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.
*3 Crosstalk is measured with a 30 dB/octave filter @22kHz.
** Excluded MBCL optional meter bridge.

MIXERS

ANALOG INPUT SPECIFICATIONS

Input terminal	GAIN	Actual source impedance	For use with nominal	Input level			Connector
				Sensitivity	Nominal	Max. before clip	
OMNI IN 1-8	+66dB	7.5kΩ	50-600Ω Mics & 600Ω Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type*
	-6dB			-10dBu	+10dBu	+30dBu	
TALKBACK	+64dB	10kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-40dBu	XLR3-31 type*
	+20dB			-26dBu	-16dBu	+4dBu	

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connector
				Nominal	Max. before clip	
OMNI OUT 1-8	75Ω	600Ω Lines	+24dB	+4dBu	+24dBu	XLR3-32 type*
			+18dB	-2dBu	+18dBu	
PHONES	15Ω	8Ω Phones	–	75mW	150mW	ST Phone Jack**
		40Ω Phones	–	65mW	150mW	

DIGITAL I/O SPECIFICATIONS

Terminal	Format	Data length	Level	Audio	Connector
Primary/ Secondary	Dante	24bit or 32bit	1000Base-T	64ch Input/64ch Output @48kHz	etherCON Cat5e

DIGITAL OUTPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
DIGITAL OUT	AES/EBU	AES/EBU Professional Use	24bit	RS422	XLR3-32 type*

I/O SLOT (1-3) SPECIFICATIONS

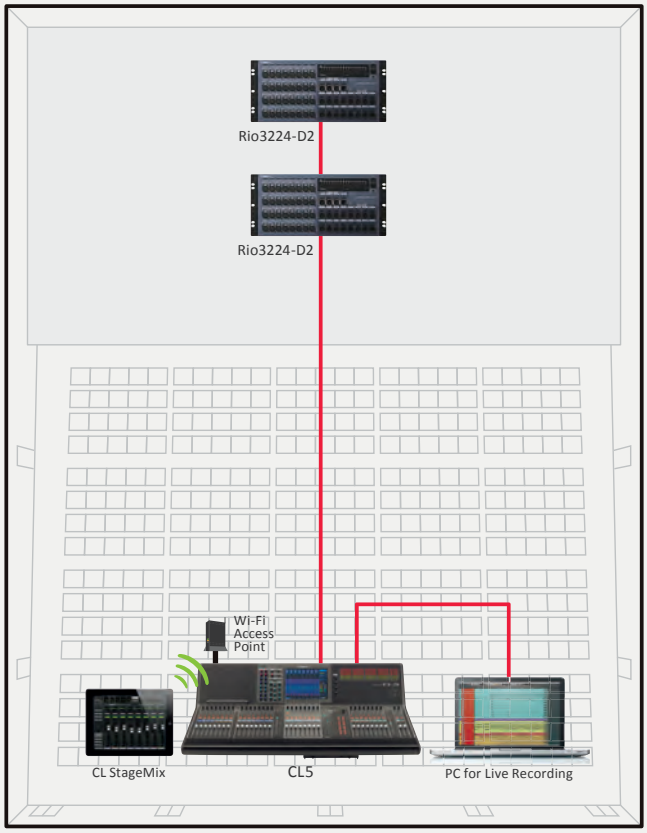
Each I/O Slot accepts a Mini-YGDAI card. Only Slot1 has a serial interface.

CONTROL I/O SPECIFICATIONS

Terminal		Format	Level
MIDI	IN	MIDI	–
	OUT	MIDI	–
WORD CLOCK	IN	–	TTL/75Ω terminated
	OUT	–	TTL/75Ω
GPI (5IN/5OUT)		–	–
NETWORK		IEEE802.3	10BASE-T/100Base-TX/
LAMP (CL5=3, CL3=2, CL1=1)		–	0V - 12V
USB HOST		USB 2.0	–
EXT DC IN		–	–
Meter Bridge (CL3/CL1 only)		–	–

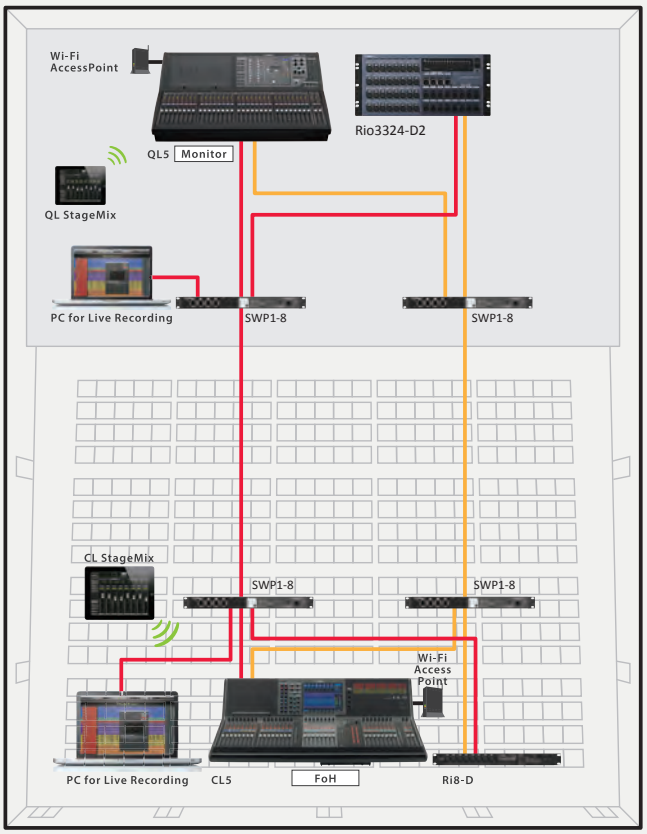
*1. Input pins: Internal TTL-level pull-up resistors provided (47kΩ). Output pins: Open-drain output (Vmax = 12V, max. sink current/pin = 75mA)
Power pins: Output voltage Vp = 5V, max. output current Imax = 300mA
*2. Pin 4 = +12V, Pin 3 = GND, lamp rating 5W. Software voltage control.

SYSTEM EXAMPLES: LIVE SOUND



A SIMPLE DAISY-CHAIN SYSTEM

Internal port switches allow the CL series to be easily set up for daisy-chain or star network congurations. In this example the Console at FOH position is directly connected to the I/O rack at the side of the stage. The network is self-configured. Of course the CL StageMix iPad app can be used even in simple systems like this one, and Dante Virtual Soundcard can be used to enable multitrack recording to a DAW such as Steinberg's Nuendo Live.



QL CONSOLE FOR MONITOR MIX AND I/O IN A RELIABLE STAR NETWORK

In this compact but capable live sound system a CL series console serves front-of-house while a stage side QL console doubles as monitor mixer and I/O device thanks to its Port to Port capability. The Gain Compensation function means that head amp gain can be safely controlled from either console without interference. For maximum system reliability a star network configuration with network switches is used for redundancy, so that a problem in one part of the network will not interrupt the overall signal flow. Live recording to multiple computers is also possible.

CONFERENCE LIVE BROADCAST

QL SERIES

DIGITAL MIXING CONSOLE









QL5

Dante StageMix MonitorMix

RACK I/O: PAGE 180 PAGE 138 PAGE 138

MY16 NUENDO live

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QL1

Dante StageMix MonitorMix 12U

RACK I/O: PAGE 180 PAGE 138 PAGE 138

MY16 NUENDO live

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EXPANDABLE ALL-IN-ONE DIGITAL MIXING CONSOLE THAT INHERITS CORE FEATURES AND PERFORMANCE DIRECTLY FROM THE CL SERIES

- Naturally superior sound plus powerful built-in processing for broad creative control.
- Built-in Dugan automixer provides optimum channel balance while allowing the operator to concentrate fully on optimizing the overall sound.
- A large touch-panel display, selected channel controls, and a "Touch and Turn" knob make up an intuitive, efficient control interface.
- Extensive built-in input and output capacity that can handle a variety of applications without the need for stage boxes or other external equipment.
- Built-in Dante networking allows for flexible system expansion.
- AES67, Dante Device Lock and Dante Domain Manager support.
- Up to 24 R series I/O rack units can be connected to each console.
- An innovative "Port to Port" feature allows the console to function as a remote I/O device for any other QL or CL console.
- "Gain Compensation" allows multiple consoles to share and control the same I/O unit.
- Four versatile channel PEQ algorithms: Precise, Agressive and Smooth.
- Virtual "Premium Rack" with VCM models of the renowned Neve Portico 5043 compressor/limiter, Portico 5045 Primary Source enhancer, plus other VCM equalizers, single- and multi-band compressors, and studio quality effects.
- Virtual "Effect Rack" allows simultaneous use of up to 8 effects from a selection of 46 ambience effects and 8 insertion effects.
- Virtual "GEQ Rack" allows graphic EQ to be inserted into the output buses as required for room equalization and other functions.
- Seamlessly integrated remote control and offline editing via an Apple iPad® or other computer.
- Remote Control and Monitoring of various Yamaha and 3rd Party devices.
- CL series compatibility: data exchangeable between QL and CL consoles.
- Direct 2-track recording to standard USB flash drives, or serious multitrack recording to a DAW via Dante.
- Multitrack recordings can be used for "virtual sound checks" when the performers aren't available.
- Dual Mini-YGDAI card slots provide easy I/O expansion as well as extra processing capabilities.
- Other features: comprehensive Fader Bank section with recallable four custom banks, editable channel names and colors, user defined keys and on-screen user defined knobs, 300 scene memories, input and output delays, ample EQ and dynamics processing, 16 DCA groups, 8 mute groups, 5-in/5-out GPI interface, multiple user key sets, on-screen help, and more.
- Surround mixing & monitoring

QL5

- 32 + 2 fader configuration adapts to a wide range of channel layouts. The QL5 is a compact console with large-scale capabilities
- Mix channels: 64 mono, 8 stereo
- Busses: 16 mix, 8 matrix (Input to Matrix supported)
- Local I/O: 32 in, 16 out
- Fader configuration: 32 + 2 (Master)
- Stainless steel iPad support stays

QL1

- 16 + 2 fader configuration in a compact, rack mountable unit
- Mix channels: 32 mono, 8 stereo
- Busses: 16 mix, 8 matrix (Input to Matrix supported)
- Local I/O: 16 in, 8 out
- Fader configuration: 16 + 2 (Master)
- Rack mountable with optional RKH1 Rack Mount Kit

SPECIFICATIONS

GENERAL SPECIFICATIONS

Sampling frequency rate	Internal:	44.1kHz, 48kHz
	External:	44.1kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm
		48kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm
Signal Delay	Less than 2.5 ms OMNI IN to OMNI OUT (@fs=48kHz)	
Fader	100mm motorized, Resolution=1024steps +10dB to –138dB, –∞dB all faders	
Total harmonic distortion*1 INPUT to OMNI OUT Input Gain=Min.	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω	
Frequency response CH INPUT to OMNI OUT	+0.5, -1.5dB 20Hz to 20kHz, refer to +4dBu output @1kHz, INPUT to OMNI OUT	
Dynamic range (maximum level to noise level)	112dB typ., DA Converter, 108dB typ., INPUT to OMNI OUT, Input Gain = Min.ww	
Hum & noise level*2 (20Hz to 20kHz), Rs=150Ω	–128dBu Equivalent input noise, Input Gain=Max., –88dBu Residual output noise, ST master off	
Crosstalk (@1kHz) Input Gain=Min.	–100dB*3, Adjacent INPUT/OMNI OUT channels	
Phantom Power	+48V	
Power requirements	AC100V-240V, 50/60Hz	
Power consumption	QL5: 200W QL1: 135W	
Dimensions (W x H x D)	QL5: 828 x 272 x 563mm (32.6" x 10.7" x 22.2") QL1: 468 x 272 x 562mm (18.4" x 10.7" x 22.1")	
Weight	QL5: 21.8kg (48.1lbs) QL1: 14.7kg (32.4lbs)	

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.
*3 Crosstalk is measured with a 30 dB/octave filter @22kHz.

ANALOG INPUT SPECIFICATIONS

Input terminal	GAIN	Actual source impedance	For use with nominal	Input level			Connector
				Sensitivity	Nominal	Max. before clip	
INPUT 1-32 (QL5) INPUT 1-16 (QL1)	+66dB	7.5kΩ	50-600Ω Mics & 600Ω Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type*
	-6dB			-10dBu	+10dBu	+30dBu	

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connector
				Nominal	Max. before clip	
OMNI OUT 1-16 (QL5) OMNI OUT 1-8 (QL1)	75Ω	600Ω Lines	+24dB	+4dBu	vt+24dBu	XLR3-32 type*
			+18dB	-2dBu	+18dBu	
PHONES	15Ω	8Ω Phones	–	75mW	150mW	ST Phone Jack**
		40Ω Phones	–	65mW	150mW	

DIGITAL I/O SPECIFICATIONS

Terminal	Format	Data length	Level	Audio	Connector
Primary/Secondary	Dante	24bit or 32bit	1000Base-T	64ch Input/64ch Output @48kHz*1	etherCON Cat5e

*1 QL1: 32ch Input/32ch Output@48kHz

DIGITAL OUTPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
DIGITAL OUT	AES/EBU	AES/EBU Professional Use	24bit	RS422	XLR3-32 type*

I/O SLOT (1-2) SPECIFICATIONS

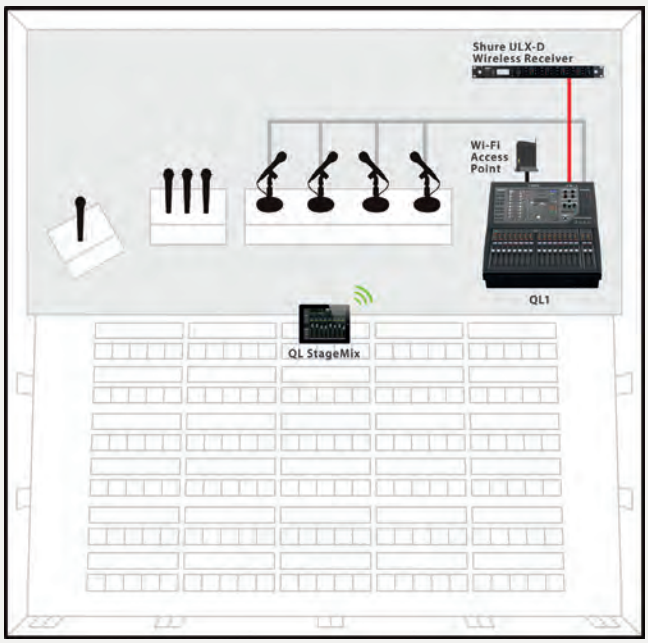
A Mini-YGDAI card can be inserted into slots 1-2. Only slot 1 supports serial interfaces.

CONTROL I/O SPECIFICATIONS

Terminal		Format	Level	Connector
MIDI	IN	MIDI	–	DIN Connector 5P
	OUT	MIDI	–	DIN Connector 5P
WORD CLOCK	IN	–	TTL/75Ω terminated	BNC Connector
	OUT	–	TTL/75Ω	BNC Connector
GPI (5IN/5OUT)		–	–	D Sub Connector 15P (Female) *1
NETWORK		IEEE802.3	10BASE-T/100Base-TX	RJ-45
LAMP (QL5=2, QL1=1)		–	0V - 12V	XLR-4-31 type*2
USB HOST		USB 2.0	–	USB A Connector (Female)

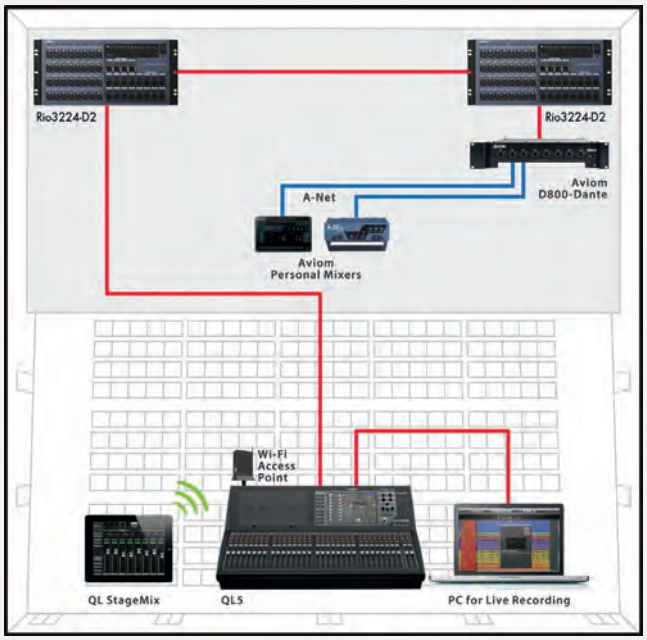
*1. Input pin: TTL level, w/ internal pull-up (47kΩ) Output pin: Open drain output (Vmax=12V, maximum sink current/pin=-75mA) Power supply pin: Output voltage Vp=5V, Max. output current =300mA
*2. 4 pin=+12V, 3 pin=GND, Lamp nominal power: 5W, Brightness (voltage) can be adjusted from the software.

SYSTEM EXAMPLES



A COMPACT SYSTEM THAT AUTOMATICALLY MIXES UP TO 16 SPEECH MICS

At conferences or speech events where space for equipment is limited, a compact all-in-one QL console can be a huge advantage. The built-in Dan Dugan Automixer can automatically provide an optimum mix of up to 16 speech microphones. Events can be recorded directly to, and pre-recorded BGM can be played back from a USB flash drive. The StageMix application can provide remote control capability for even greater efficiency and convenience.



A SIMPLE LIVE SYSTEM WITH DAISY-CHAINED I/O RACKS

This is an example of a simple live system that makes use of Dante networking. Stage side R-series I/O rack units are connected to the front-of -house QL console via network cables. An Aviom personal monitor system can also be connected to the Dante network via an Aviom D800-Dante distributor. This setup even allows multi-track recording to a computer via the Dante network.

CONFERENCE LIVE

TF SERIES

Yamaha has always made it a mission to stay in touch with the needs of sound engineers worldwide. The outcome is evident in the success of the recent CL and QL series digital mixing consoles, and the flagship RIVAGE PM10. The key to success has always been in supporting the user's creativity. Creativity is most effective when unrestricted, and now Yamaha has created a new digital mixing console that gives the user's intuition even freer rein. TouchFlow Operation™ introduced in the TF series consoles allows the user to respond to the music and artists on stage with unprecedented speed and freedom, taking live sound reinforcement to a new level of refinement. With the TouchFlow Operation interface optimized for touch panel control, experienced engineers as well as newcomers to the field will find it easier than ever to achieve the ideal mix. Recallable D-PRE™ preamplifiers support sound quality that will satisfy the most discerning professional ears, while advanced live recording features and seamless operation with high-performance I/O racks give these compact digital mixers capabilities that make them outstanding choices for a wide range of applications. Experience the intuitive control and creative freedom that a truly evolved digital console can provide.



TF5 StageMix MonitorMix NUENDO live

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TF3 StageMix MonitorMix NUENDO live

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TF1 StageMix MonitorMix NUENDO live

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TF-RACK Dante NUENDO live MonitorMix

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DIGITAL MIXING CONSOLE

TF5

- 32 channel faders + 1 master fader
- 40 mono channels + 2 stereo channels
- 20 Aux (8 mono + 6 stereo) + Stereo + Sub buses
- 32 mic/line XLR/TRS combo inputs

DIGITAL MIXING CONSOLE

TF3

- 24 channel faders + 1 master fader
- 40 mono channels + 2 stereo channels
- 20 Aux (8 mono + 6 stereo) + Stereo + Sub buses
- 24 mic/line XLR/TRS combo inputs

DIGITAL MIXING CONSOLE

TF1

- 16 channel faders + 1 master fader
- 32 mono channels + 2 stereo channels
- 20 Aux (8 mono + 6 stereo) + Stereo + Sub buses
- 16 mic/line XLR/TRS combo inputs

DIGITAL MIXER

TF-RACK

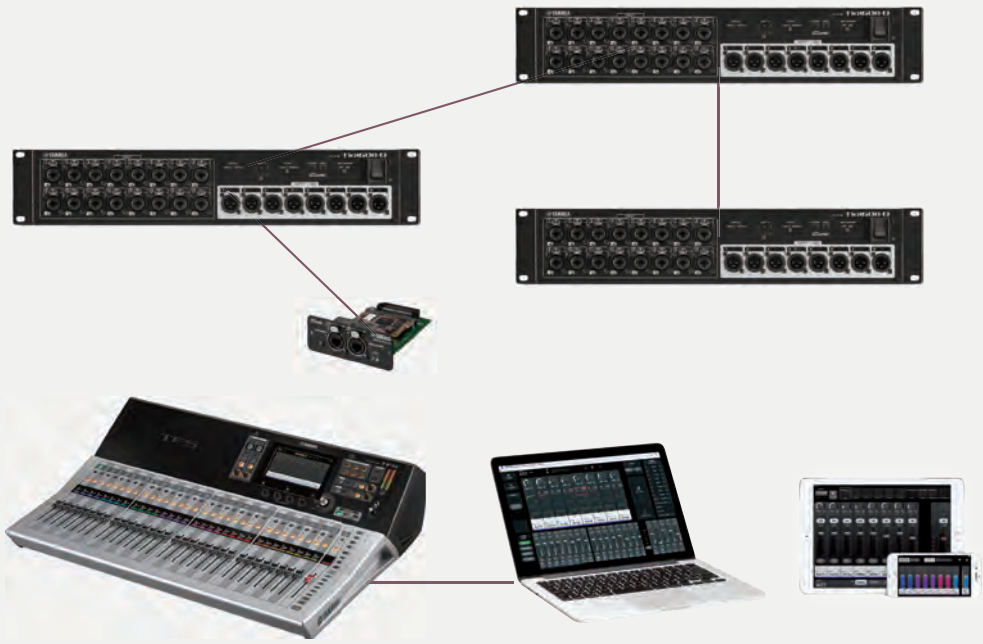
- 32 mono channels + 2 stereo channels
- 20 Aux (8 mono + 6 stereo) + Stereo + Sub buses
- 16 mic/line XLR/TRS combo inputs

TF SERIES DIGITAL MIXING CONSOLES

- TouchFlow Operation™ – smooth, natural control flow
- Intuitive user interface optimized for touch panel operation
- Touch & turn knob offers extra control precision
- 1-knob COMP™ & 1-knob EQ™: One knob to dial in the ideal sound
- GainFinder™ supports precision gain setup
- QuickPro Preset™ provides instant access to pro sound setups
- DCA roll-out enhances group control
- Comprehensive fader bank section
- TF Editor offline editing plus showtime
- TF StageMix™ for wireless mixing control
- Personal monitoring with MonitorMix
- Recallable D-PRE™ microphone preamplifiers
- Powerful processors and effects
- NY64-D expansion slot (64 in/ 64 out) for connection to a Dante network
- Tio1608-D high-performance stagebox solution that's simple to set up
- 8-channel Dan Dugan automixer
- Control of DZR-D and DXS-XLF-D functionality

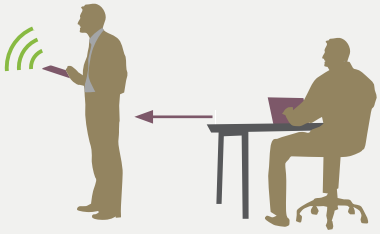
A HIGH-PERFORMANCE STAGEBOX SOLUTION THAT'S SIMPLE TO SET UP.

The natural, musical sound that was a key element of the TF Series design policy is carried on without compromise in the Tio1608-D I/O Rack. Mechanical construction, circuit board layout, power supply, grounding, and parts selection have all been executed with meticulous attention to detail and quality, and exhaustive performance and listening tests were carried out at each stage of development. For networking the same Dante protocol implemented in higher end Yamaha digital consoles is used for precise synchronization, low latency, low jitter, and high sample accuracy. In addition to superior performance, a Tio1608-D stage box system can be set up in just three easy steps.



A VERSATILE LIVE RECORDING AND PLAYBACK SOLUTION FOR ANY APPLICATION.

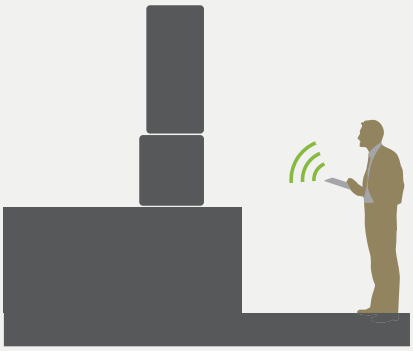
Live recording capability is becoming increasingly important in live sound systems. From simple 2-track recording and playback using a USB storage device to all-out multitrack recording with a computer based DAW (Digital Audio Workstation), the TF series is ready to roll. TF consoles come supplied with Steinberg's Nuendo Live Multitrack live recording software, providing an easy way to simultaneously record up to 34 tracks to a computer connected to the console via USB 2.0. MP3 and WAV files can be played back from USB storage devices, and audio from an iPhone or iPad can be layed back via a direct digital connection. When playing back from a DAW, analog input or DAW input can be individually selected for each channel so that pre-recorded material can be mixed with live input for virtual sound checks or rehearsals. Of course BGM and sound effects can be played back too.





OFFLINE EDITING PLUS SHOWTIME CONTROL

The TF Editor application for Windows and Mac computers provides a complete interface for offline editing and setup of TF consoles, with scene and preset management capabilities plus convenient keyboard entry of channel names. In addition to being able to set up the console offline at any convenient location and time, the TF Editor can be used online at the same time as the TF StageMix and MonitorMix applications. A Windows 10/8 PC with a multi-touch screen can use the same gestures as on the console itself. And if using Wi-Fi, a PC can function as a convenient remote-mixing device. Up to three devices running TF Editor or StageMix can be connected at the same time.





StageMix

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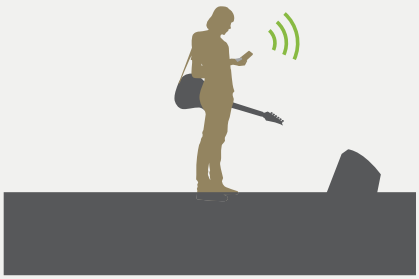
TF STAGEMIX™ FOR WIRELESS MIXING

TF StageMix is an iPad application that provides wireless control of TF series consoles, allowing remote mixing from audience seating, in front of floor monitors, or any other listening position. It can also be used at the console as an extension of the console's own interface. The TF StageMix interface is designed for similar operation and flow to the console display, making it easier than ever to refine the mix from any location.





MonitorMix

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PERSONAL MONITORING WITH MONITORMIX

The MonitorMix application for the TF Series allows individual wireless AUX mixing from up to 10 iPhone, iPad or iPod touch devices simultaneously. Each performer can have convenient control over the AUX buses assigned to them, without having to deal with complex settings or parameters. They can also create personal Group settings for even easier adjustment: all levels on just one fader, for example. Since up to three devices running TF Editor or StageMix and up to 10 devices running MonitorMix can be connected at the same time, even large bands can have the personal control they need, reducing demands on the sound engineer.

Available on the App Store

✹ TF STAGEMIX AND MONITORMIX ARE AVAILABLE FREE OF CHARGE THROUGH THE APP STORE.

GENERAL SPECIFICATIONS

MODEL		TF5	TF3	TF1	TF-RACK
FADER CONFIGURATION		32 + 1 (Master)	24 + 1 (Master)	16 + 1 (Master)	n/a
MIXING CAPACITY	Input Channels	48 (40 mono + 2 stereo + 2 return)	48 (40 mono + 2 stereo + 2 return)	40 (32 mono + 2 stereo + 2 return)	40 (32 mono + 2 stereo + 2 return)
	Aux Buses	20 (8 mono + 6 stereo)			
	Stereo Buses	1	1	1	1
	Sub Buses	1	1	1	1
	Matrix Buses	4	4	4	4
INPUT CHANNEL FUNCTIONS		8 DCA Groups			
I/O	Inputs	32 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	24 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	16 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	16 mic/line (XLR/TRS combo) + 1 stereo line (RCA pin)
	Outputs	16 (XLR)			16 (8 XLR + 8 TRS phone)
	Expansion slots	1 (for NY64-D)			
ON-BOARD PROCESSORS	DSP	8 Effects + 10 GEQ			
RECORDING / PLAY BACK	PC/Mac (USB2.0)	Recording 34 tracks, Playback 34 tracks			
	USB Storage Device	Recording 2 tracks (USB hard drive/ SSD)*, Playback 2 tracks (USB hard drive/ SSD/ thumb drive)			
GENERAL SPECIFICATIONS		**TF5**	**TF3**	**TF1**	**TF-RACK**
SAMPLING FREQUENCY RATE	Internal	48 kHz			
SIGNAL DELAY		Less than 2.6 ms, INPUT to OMNI OUT, Fs=48 kHz			
FADER		100 mm motorized, Resolution = 10-bit, +10 dB to –138 dB, -∞ dB all faders			n/a
TOTAL HARMONIC DISTORTION		Less than 0.05% 20 Hz–20 kHz @+4 dBu into 600 Ω , INPUT to OMNI OUT, Input Gain=Min. (Measured with a –18 dB/octave filter@80 kHz)			
FREQUENCY RESPONSE		+0.5, –1.5 dB 20 Hz–20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT			
DYNAMIC RANGE		110 dB typ., DA Converter, 107 dB typ., INPUT to OMNI OUT, Input Gain=Min.			110 dB typ., DA Converter, 108 dB typ., INPUT to OMNI OUT, Input Gain=Min.
HUM & NOISE LEVEL	Equivalent input noise	–128 dBu typ., Input Gain=Max. (Measured with an A-Weight filter)			
	Residual output noise	–85 dBu, ST master off (Measured with an A-Weight filter)			
CROSSTALK		–100 dB (Measured with a –30 dB/octave filter@22 kHz), adjacent INPUT/OMNI OUT channels, Input Gain=Min.			
POWER REQUIREMENTS		100–240 V 50/60 Hz			
POWER CONSUMPTION		120 W	110 W	100 W	85 W
DIMENSIONS	W x H x D	866x255x599 mm	716x225x599 mm	510x225x599 mm	480x132x409 mm
NET WEIGHT		20.0 kg (44.1lb)	17.0 kg (37.5lb)	13.5 kg (29.8lb)	9.2 kg (20.3lb)
ACCESSORIES		Quick Guide, Power Cord, Nuendo Live			
OPTIONS		Rack-mount Kit RK5014, Audio Interface Card (NY-64D), Foot Switch (FC5)			Audio Interface Card (NY-64D), Foot Switch (FC5)
OTHERS		Operating temperature range: 0–40 °C, Storage temperature range: -20–60 °C			

OPTIONAL ACCESSORIES



Tio1608-D I/O RACK



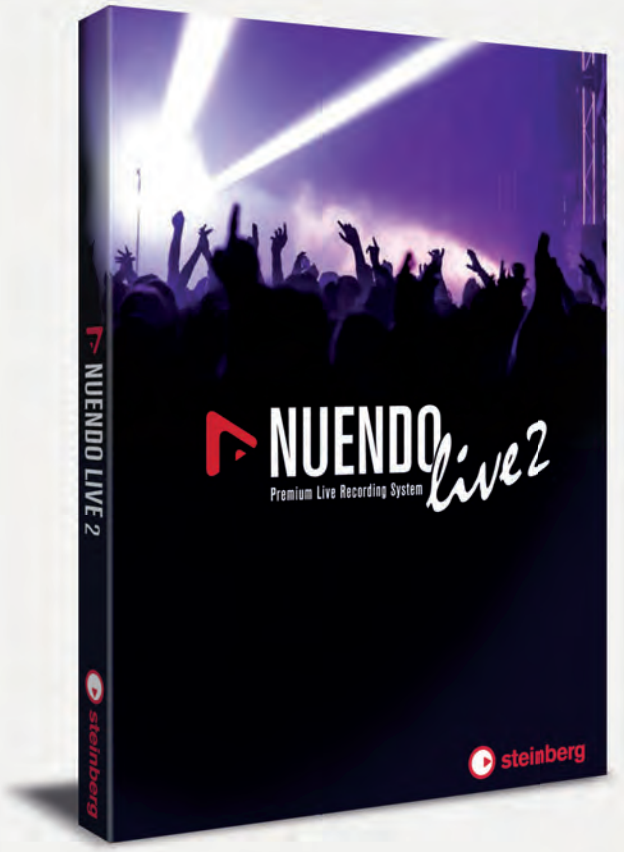
NY64-D NY CARD



RK5014 RACK MOUNT KIT

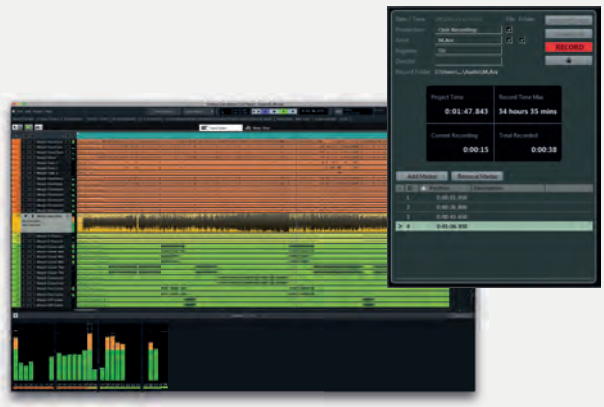
NUENDO LIVE

CONFERENCE LIVE



NUENDO live2
Premium Live Recording System

steinberg
Creativity First



A PROFESSIONAL MULTI-TRACK LIVE RECORDING SOLUTION, PERFECTLY TAILORED TO CAPTURE LIVE PERFORMANCES, FROM CLUB SHOW UP TO THE LARGEST CONCERTS AND FESTIVALS

- **ADVANCED LIVE RECORDING SYSTEM** featuring a straightforward single-window operation, a record panel, a pre-record buffer and more
- **SEAMLESS INTEGRATION** with Yamaha CL-series consoles for controlling essential Nuendo Live functions straight from the live console
- **STATE-OF-THE-ART RECORDING QUALITY BASED ON STEINBERG'S AWARD-WINNING AUDIO ENGINE** with up to 192 kHz lets your production stand apart from the competition
- **NUENDO LIVE RECORD PANEL** shows all essential session information at once– creating confidence in demanding live situations
- **ADVANCED SESSION MANAGEMENT** with auto-naming of recorded files, multiple folder creation, easy-to-use marker track, auto-save and notepad
- **ZERO SETUP TIME** thanks to automatic track creation function that make Nuendo Live record-ready in less than a minute
- **24+ HOURS RECORDING TIME** thanks to EBU-compliant RIFF 64 broadcast wave format in standard recording mode
- **VIRTUAL SOUND CHECK** allows for easy use of previous recordings for sound check, including marker recall and 1:1 output
- **DELIVER WITH CONFIDENCE** due to standardized rendering formats and Nuendo
- **EDITING ON THE ROAD** Nuendo Live includes essential editing functions, making it possible to create a rough edit of the recordings right after the show

SUPERIOR REMOTE CONTROL FROM YAMAHA CL CONSOLES

Nuendo Live seamlessly integrates with Yamaha's digital mixing consoles, the CL/QL series. Once connected, you can control all vital functions of Nuendo Live directly from the touch-sensitive surface of the console. Thanks to the Extension plug-in, a software adapter that facilitates the communication between the console and Nuendo Live, CL/QL features, such as channel name copy, marker set and transport control, are directly reflected within Nuendo Live's user interface. Record, play, stop – everything you need is just a touch away. Plus the CL/QL console also displays important information provided by Nuendo Live, such as current and remaining record time, making this system solution the perfect choice to master even the most demanding live recording tasks.

1:1 CONNECTION

The close connection between Nuendo Live and Yamaha's live recording desks can also be seen by means of the channel management. All channels of the CL console are represented 1:1 in Nuendo Live, including the channel order, names and even the colors are perfectly matched between software and hardware – integration at its best.



SYSTEM REQUIREMENTS

MAC	PC
MAC OS X version 10.12/10/13	Windows 7/ 8 / 10 (64-bit)
64-bit Intel multi-core CPU	64-bit Intel or AMD multi-core CPU
OS compatible audio hardware	OS compatible audio hardware
4GB RAM	4GB RAM
18GB of free HD space	18GB of free HD space

Internet connection required for activation, account setup and personal / product registration.
Additional downloads may be required for the installation.

STAGEMIX & MONITORMIX

StageMix MonitorMix



MIXER WINDOW



SENDS ON FADERS



PEQ



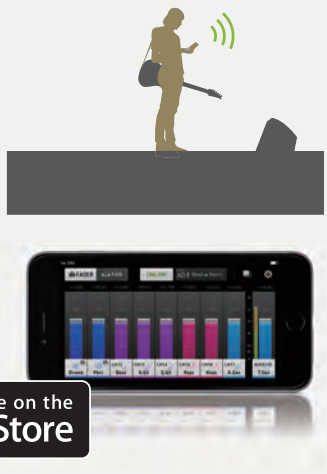
GEQ

REMOTE CONTROL APPLICATION THROUGH IPAD

Stagemix provides remote control of RIVAGE, CL, QL, TF, M7CL, LS9 via a simple, intuitive graphical interface from anywhere within wireless range. The software has been specifically designed to allow engineers to adjust monitor mixes from the performers' positions on stage, directly controlling mix parameters via the iPad rather than having to rely on verbal directions to a second engineer. The result is better mixes in less time: a huge advantage during high-pressure pre-show setup.

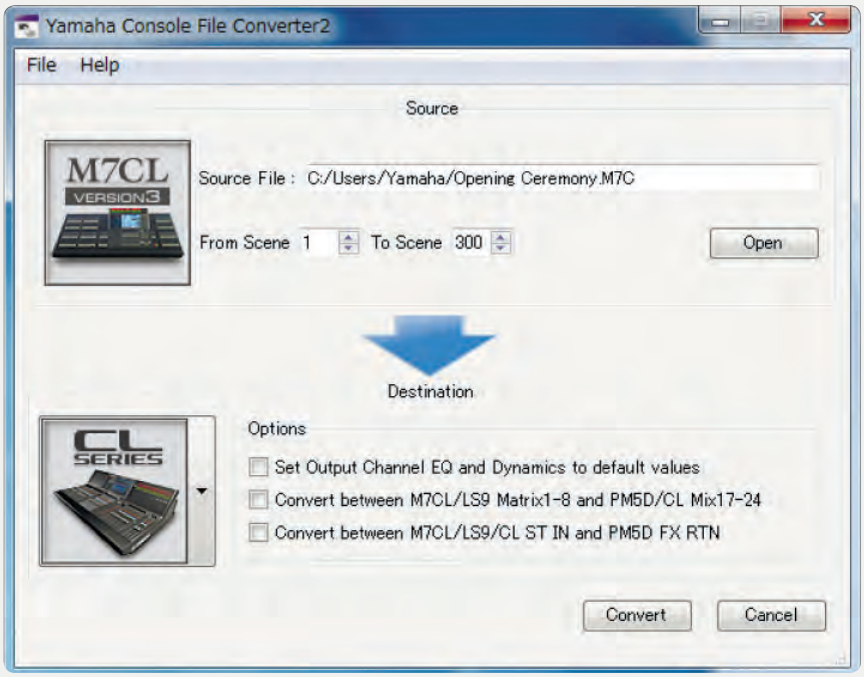
PERSONAL MONITORING WITH MONITORMIX

The MonitorMix application for the CL/QL/TF Series allows individual wireless monitor mixing from up to 10 devices simultaneously. Each performer can have convenient control over the MIX/AUX buses assigned to them, without having to deal with complex settings or parameters. They can also create personal Group settings for even easier adjustment: all instrument levels on just one fader, for example.

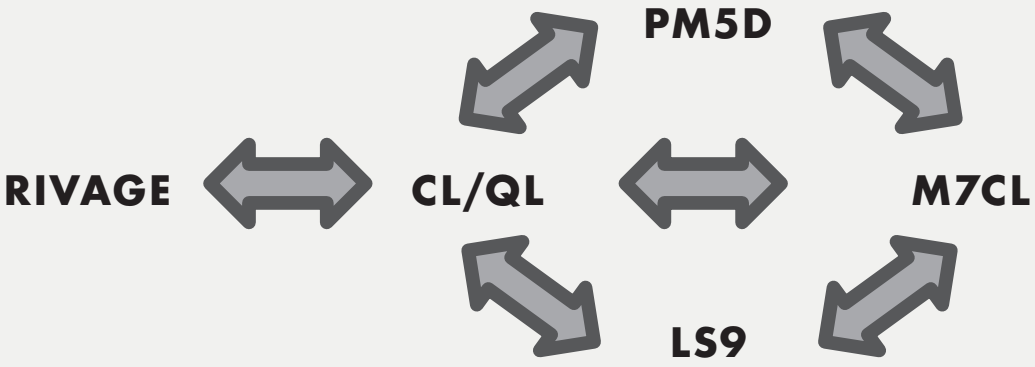


- STAGEMIX AND MONITORMIX ARE AVAILABLE FREE OF CHARGE THROUGH THE APP STORE

CONSOLE FILE CONVERTER



The **YAMAHA CONSOLE FILE CONVERTER** is an application that allows data to be shared between a number of Yamaha digital mixing consoles. You can share data between **RIVAGE SERIES, CL/QL SERIES**, **PM5D**, **M7CL**, and **LS9** consoles, so data from one show doesn't have to be completely reprogrammed from scratch for the next, even if different consoles are used.



✹ FILE CONVERTER CAN BE DOWNLOADED **FREE OF CHARGE** FROM: WWW.YAMAHAPROAUDIO.COM

DM1000VCM

LIVE PRODUCTION BROADCAST

DM 1000 VCM
DIGITAL PRODUCTION CONSOLE



PAGE 164

19-INCH DIGITAL PRODUCTION CONSOLE FOR PROFESSIONALS IN THE STUDIO OR ON THE ROAD.

- Precise 24-bit/96-kHz audio and high-performance head amps.
- Generous mixing capacity with up to 48 simultaneous inputs and 18 mix buses (8 group buses, 8 auxiliary buses, and the main stereo bus) in a compact rack-mount size console.
- Powerful channel functions with flexible control and digital patching capability.
- Four advanced multi-effect processors include surround effects.
- Scene memory and auto-mix functions for efficient workflow.
- Versatile pairing and grouping functions enhance mixing efficiency.
- Comprehensive interface with 17 touch-sensitive 100-mm motor faders.
- A generous selection of control interfaces: MIDI, USB, REMOTE, SMPTE, and word clock.
- Two mini-YGDAI expansion slots for easy I/O expansion in a variety of formats.
- Compatible with both Windows or Macintosh versions of Studio Manager version2 Software, allowing your PC and Console to work together seamlessly.
- Easy integration with computer-based DAWs (Digital Audio Workstations) or digital recorders to create an advanced digital production environment.
- A comprehensive range of features for surround production, including an enhanced surround monitoring environment with bass management.
- A new dimension of production power with the addition of Yamaha VCM effects and processing.
- Included in the THX pm3™ Studio Certification Program Approved Equipment List.
- DM1000 and accessories are available on a built to order schedule



DM1000VCM

DIGITAL PRODUCTION CONSOLE

	DM1000VCM
MIXING CHANNELS	48
MONO MICROPHONE INPUTS	16
LINE INPUTS	4 OMNI
ANALOGUE OUTPUTS	12 OMNI
MONITORING OUTPUTS	Through OMNI outputs
FADERS	17
MIX BUSES	8 bus + 8 aux + St
EFFECTS	stereo multi effects x 4
DELAYS	all channels + all mixbuses
GRAPHIC EQUALISERS	–
MY EXPANSION SLOTS	2
DIGITAL I/O	2
CASCADE PORT	–
SAMPLING FREQUENCY	44.1 - 48 - 88.2 - 96 kHz
SCENE MEMORY	99
DYNAMIC AUTOMATION	yes
TIMECODE INPUT	SMPTE (XLR)
SERIAL COMPUTER CONNECTION	yes, ESAMII Video Editor Support
CONFIGURATION MEMORY	StudioManager + Smart Media card
DIMENSIONS (W/O OPTIONS)	436 x 200 x 585 mm (19" 13U) (W X H X D)
WEIGHT (W X H X D)	9 kg
OPTIONS	meter bridge, side panels, rack mount kit

- **MB1000**
  METER BRIDGE
- **SP1000**
  WOODEN SIDE PANELS
- **RKH1**
  RACK MOUNT KIT

01V96i

CONFERENCE LIVE PRODUCTION

CAPTURE THE PERFECT MOMENT

The **01V96i** represents the next step in the evolution of an industry standard, building on the proven configuration of its predecessors to create a compact digital mixer that meets the needs of an expanding user base with 16 in/16 out USB 2.0 audio streaming at an impressive 96kHz, the full suite of Yamaha's acclaimed Virtual Circuitry Modeling DSP effects and newly improved studio-quality head amps.

01V96i DIGITAL MIXING CONSOLE

Virtual Circuitry Modeling

Developed by K's Lab

CUBASE AI

96 kHz AUDIO DSP

REV-X

MY16

PAGE 164



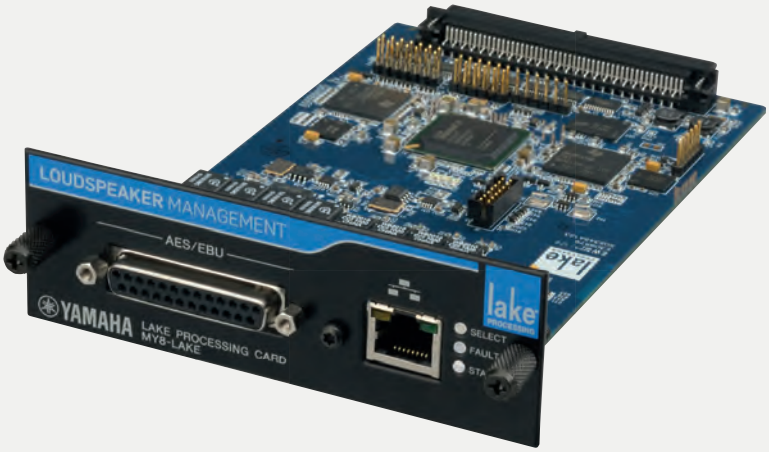
- 24 Bit/96 kHz I/O
- Integrated USB 2.0 interface streams 16x16 channels of audio
- Built-in VCM effects
- 40 inputs, 20 Buses at 96 kHz
- 16 analogue inputs
- Mini-YGDAI slot for I/O expansion
- Built-in optical adat interface
- 17 motorised faders (100 mm)
- Surround support
- Cascade link
- Studio Manager and Software Editor
- Controller function for DAW software



01V96i

	DIGITAL MIXING CONSOLE
	01V96i
MIXING CHANNELS	32 + 4 St
MONO MICROPHONE INPUTS	12 with insert
LINE INPUTS	2 stereo
ANALOGUE OUTPUTS	4 OMNI + St
MONITORING OUTPUTS	Monitor output
FADERS	17
MIX BUSES	8 bus + 8 aux + St
EFFECTS	stereo multi effects x 4
DELAYS	all channels + all mixbuses
GRAPHIC EQUALISERS	–
MY EXPANSION SLOTS	1
DIGITAL I/O	1 x SP-DIF + 1 x Adat
CASCADE PORT	– (Cascade possible through slots)
SAMPLING FREQUENCY	44.1 - 48 - 88.2 - 96 kHz
SCENE MEMORY	99
DYNAMIC AUTOMATION	–
TIMECODE INPUT	–
SERIAL COMPUTER CONNECTION	yes + USB 16ch Audio
CONFIGURATION MEMORY	StudioManager
DIMENSIONS (W/O OPTIONS)	436 x 150 x 540 mm (19" 13U) (W x H x D)
WEIGHT	7.5 kg
OPTIONS	rack mount kit

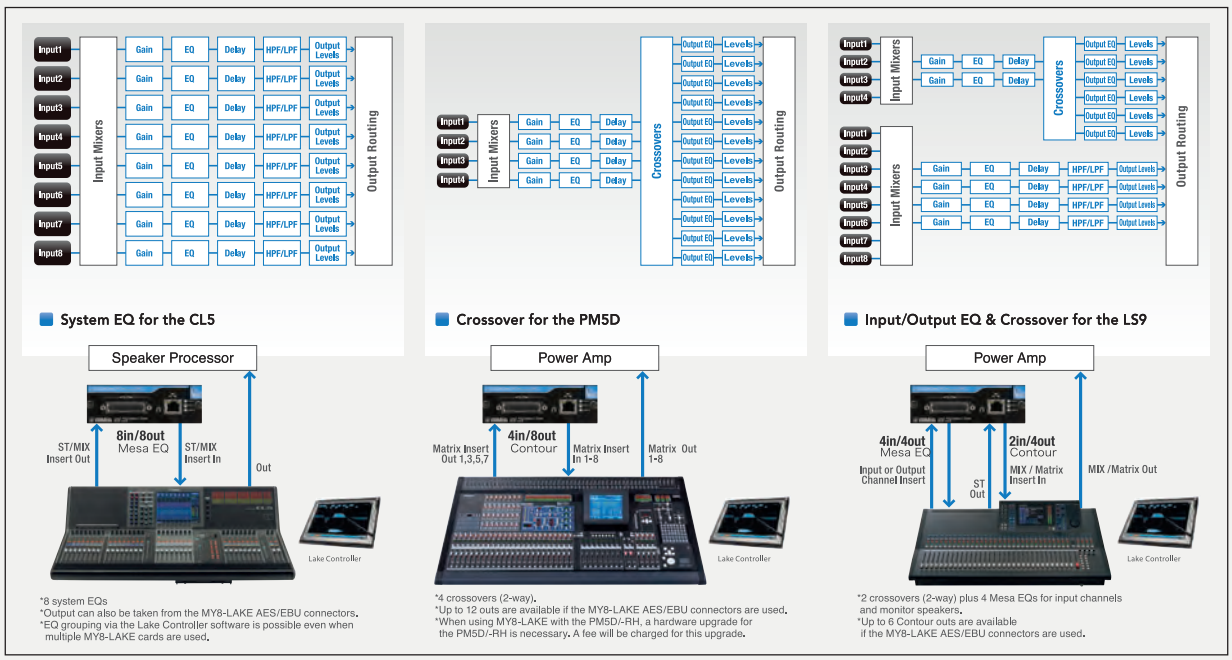
MY8-LAKE



ESTABLISHED LAKE® PROCESSING FOR YAMAHA DIGITAL MIXING CONSOLES, SIGNAL PROCESSORS, AND POWER AMPLIFIERS.

- 8-in/8-out Mesa mode (system EQ), 4-in/12-out Contour mode (crossover), or a combination of both for versatile processing.
- 96 kHz internal processing, supporting 44.1 kHz, 48 kHz, and 88.2 kHz sample rates.
- Compatible with Smaart sound system measurement software for efficient, effective speaker tuning.
- Flexible system setup via Yamaha digital mixer insert points and MY8-LAKE card AES/EBU connectors.
- Lake Controller software application allows comprehensive overall management of all Lake devices in the system.
- Over 1.000 speaker presets included for fast, accurate tuning with a wide range of systems.
- Rsio64-D supports up to 4 units to be combined in 2U rack space connecting to a Dante network.

	MY8-LAKE
SAMPLING FREQUENCY	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
INTERNAL OPERATING FREQUENCY	96 kHz
SUPPORTED MODES	Mesa 8 in / 8 out system EQ + Contour 4 in / 12 out crossover
CONNECTIONS	D-sub 25 pin 9AES/EBU 8 in / 8 out) + 100Mb Ethernet RJ45 (for Lake Controller)
COMPATIBLE HOSTS	CL5/CL3/CL1, QL5/QL1, PM5D*/ -RH*, DSP5D, M7CL, LS9, DM2000, 02R96, DM1000, 01V96i, DME64N/24N, TXn, DIO8(PM 1D). *requires hardware upgrade



*8 system EQs
*Output can also be taken from the MY8-LAKE AES/EBU connectors.
*EQ grouping via the Lake Controller software is possible even when multiple MY8-LAKE cards are used.

*4 crossovers (2-way).
*Up to 12 outs are available if the MY8-LAKE AES/EBU connectors are used.
*When using MY8-LAKE with the PM5D/-RH, a hardware upgrade for the PM5D/-RH is necessary. A fee will be charged for this upgrade.

*2 crossovers (2-way) plus 4 Mesa EQs for input channels and monitor speakers.
*Up to 6 Contour outs are available if the MY8-LAKE AES/EBU connectors are used.

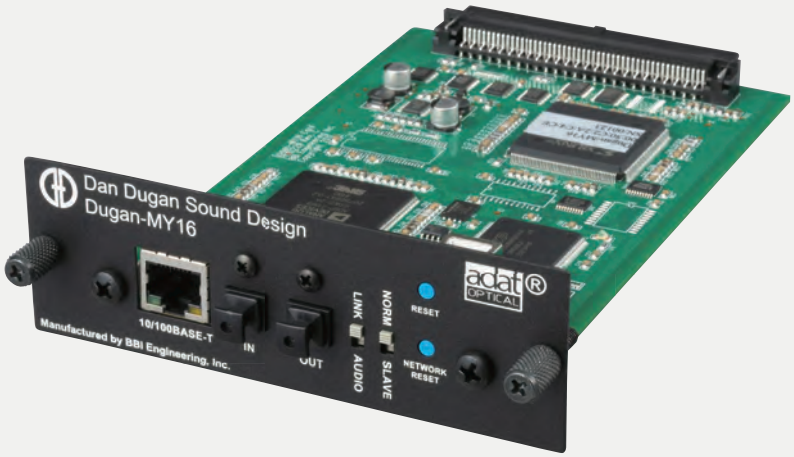
DUGAN-MY16

CONFERENCE BROADCAST

FULLY AUTOMATIC MULTI-MIC MIXING THAT DELIVERS SMOOTH, PROFESSIONAL SOUND.

- Automatic detection of active mics with automatic control of individual channel and overall gain.
- No speech cutoff due to late fader activation, for smooth, uninterrupted sound.
- Effective background noise and feedback suppression without the need for noise-gate type threshold level settings.
- Easy setup: simply insert on the appropriate mixer input channels and raise the faders.
- One card provides automatic mixing for up to 16 channels at 48 kHz, or 8 channels at 96 kHz.
- Up to 8 cards can be used simultaneously to handle up to 128 channels at 48 kHz, or 64 channels at 96 kHz.
- Channels can be grouped to make up to three independent automatic mixers.
- Can also function as an 8-channel auto-mixer + 8-channel ADAT interface.
- Dugan Control Panel software application provides remote control and level monitoring capability.
- Rsio64-D supports up to 4 units to be combined in 2U rack space connecting to a Dante network.

Dan Dugan Sound Design



	DUGAN-MY16
OPERATING MODES STANDARD	16 channels of Dugan mixing at 44.1 or 48 kHz, ADAT connectors link multiple Dugan units
HIGH-RATE	8 channels of Dugan mixing at 88.2 or 96 kHz sample rate, ADAT connectors link multiple Dugan units
SHARED	8 channels of Dugan mixing and 8 channels of general purpose ADAT I/O
DIGITAL I/O	ADAT optical, 24 bit, 44.2/48kHz (Shared mode only)
GAIN	Unity
AUDIO LATENCY	0.2ms
OPTICAL LINKING	Up to 8 units may be linked in a ring; links with Models D-2, D-3 , E, E-1 and Dugan-MY16
CONNECTORS	10/100 BASE T: RJ-45
LINKING AND DIGITAL I/O	ADAT optical
RECOMMENDED	Yamaha Mixers CL5/3/1, PM5D/-RH, DSP5D, M7CL-48ES/-48/-32, LS9-32/-16, DM2000, DM1000, 02R96, 01V96/96i, DME64N/24N, MTX5-D

MGP-SERIES

CONFERENCE LIVE PRODUCTION

DIGITAL HEART. ANALOGUE SOUL.

Yamaha has provided an impressive range of lineups in professional audio since the release of the PM200 in 1972 - our first ever professional analog mixing console. In 1987, we also released our first digital mixer, the DMP7, and have subsequently advanced technological innovations in sound quality, reliability and advanced functionalities with cutting-edge digital technologies.
Drawing from our decades of experience crafting innovative, premium analog gear, we originally developed our new discrete Class-A microphone preamps for professional use in our high-end recording equipment. Utilizing an inverted Darlington circuit design, our newly-refined D-PRE mic preamps deliver a fat, rich, smooth tone that gives the MGP Series a significant advantage over any other mixer in its class. With Yamaha's proprietary X-pressive EQ we've managed to capture ultimate analog authenticity by unlocking the mysterious secret behind the expressive sound shaping capabilities of sought-after classic EQ modules.

- PREMIUM MIXING CONSOLES WITH UP TO 32 CHANNELS
- D-PRE CLASS A MIC PREAMPS
- 2 SEPARATED EFFECTS PROCESSORS (REV-X & SPX)
- 1-KNOB COMPRESSORS
- 2 HYBRID CHANNELS WITH DSP EFFECTS (DUCKER, STEREO IMAGE, LEVELER)
- IPOD/IPHONE APP





MGP32X

- 32 channels
- 24 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 16 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- USB Devices recorder (16-bit WAV, MP3) and playback (Stereo Out)
- 31-band GEQ (9 flex-band /14 fixed-band)
- Master compressor (3-band) assigned to stereo bus
- Free MGP Editor

MGP24X

- 24 channels
- 16 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 8 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- USB Devices recorder (16-bit WAV, MP3) and playback (Stereo Out)
- 31-band GEQ (9 flex-band /14 fixed-band)
- Master compressor (3-band) assigned to stereo bus
- Free MGP Editor







MGP16X

- 16 channels
- 10 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 8 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo
- Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- DSP settings via iPod/iPhone
- Rugged, impact-resistant, powder-coated metal chassis
- Integrated rack-ears for easy rack mounting (11U+2)
- Internal universal power supply for world-wide use

MGP12X

- 12 channels
- 6 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 4 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo
- Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- DSP settings via iPod/iPhone
- Rugged, impact-resistant, powder-coated metal chassis
- Integrated rack-ears for easy rack mounting (11U+2)
- Internal universal power supply for world-wide use



MGP EDITOR
BY YAMAHA CORPORATION

MGP EDITOR is a free software application that gives you additional control of your MGP mixer's DSP settings via your iPhone and iPod touch. With a simple and intuitive graphic display, **MGP EDITOR** gives you additional, detailed control of your REV-X and SPX effects parameters – as well as Hybrid Channel's Priority Ducker, Leveler and attenuator. With MGP32X and 24X, setting of GEQ and Mastercompressor can be adjusted. Direct playback of iTunes play list is also possible.

Available on the App Store







YAMAHA MGP Series

- Requires an MGP mixing console
- Using a USB cable, connect your iPhone or iPod touch to the MGP's Apple Certified USB port.

	MGP32X	MGP24X	MGP16X	MGP12X
MIXING CHANNELS	32	24	16	12
D-PRE MIC PREAMPS	24	16	10	6
1-KNOB COMPRESSORS	16	8	8	4
EQUALIZER	3-band X-Pressive EQ	3-band X-Pressive EQ	3-band X-Pressive EQ	3-band X-Pressive EQ
FX PROCESSORS	2 separated (SPX & Rev-X Reverb)	2 separated (SPX & Rev-X Reverb)	2 separated (SPX & Rev-X Reverb)	2 separated (SPX & Rev-X Reverb)
HYBRID CHANNELS	2 with DSP Effects (Priority Ducker, Leveller, Stereo Image)	2 with DSP Effects (Priority Ducker, Leveller, Stereo Image)	2 with DSP Effects (Priority Ducker, Leveller, Stereo Image)	2 with DSP Effects (Priority Ducker, Leveller, Stereo Image)
IPOD/IPHONE APP	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)
3-BAND MASTER COMPRESSOR	Yes	Yes	No	No
GRAPHIC EQ	Yes (feature 14 band and flex 9 band)	Yes (feature 14 band and flex 9 band)	No	No
USB DEVICE RECORDING	Yes (WAV or MP3)	Yes (WAV or MP3)	No	No
AUX SENDS	4 (2x Pre/2x Pre/ Post switchable)	4 (2x Pre/2x Pre/ Post switchable)	2 (1x Pre/1x Pre/ Post switchable)	2 (1x Pre/1x Pre/ Post switchable)
GROUPS	4	4	4	4
MATRIX	2	2	No	No
RACKMOUNTS	Yes	Yes	No	No
DIMENSIONS (WXHXD)	1207 x 169 x 565 mm	819 x 169 x 565 mm	447 x 143 x 495 mm	348 x 143 x 495 mm



YAMAHA

MG

MIXING CONSOLES

D-PRE
screte Class-A Mic Preamp
th an Inverted Darlington Circ



MG-SERIES

MG20XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio Interface
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis



16 MIC 20 LINE D-PRE 1 knob comp DIGITAL MULTI EFFECT PROCESSOR METAL CHASSIS Integrated Rack Ears Universal Power Supply CUBASIS LE2 Mobile Music Production Application



MG20

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis

16 MIC 20 LINE D-PRE 1 knob comp METAL CHASSIS Integrated Rack Ears Universal Power Supply

MG16XU

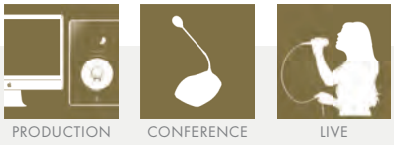
- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis





MG16

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis



MG12XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible via Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit (10U+2) available as an option (RKMG12)
- Metal chassis





MG12XUK

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit/192khz 2 in/2 out USB Audio functions
- iPod compatible via Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis





MG10XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible via Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Metal chassis







MG10XUF

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- 24-bit/192khz 2 in/2 out USB Audio functions
- iPod compatible via Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Metal chassis



MG06X

- D-Pre mic preamps with inverted Darlington circuit
- High-grade effect: SPX with 6 programs
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis



MG06

- D-Pre mic preamps with inverted Darlington circuit
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis

BROADCAST LIVE CONFERENCE PRODUCTION

AG SERIES

MULTIPURPOSE MIXER WITH USB AUDIO INTERFACE



AG03



AG06

AG03

- D-Pre mic preamp with inverted Darlington circuit
- Stereo LINE input
- USB interface, 192kHz / 24 bit, including CUBASE AI download
- 1-TOUCH DSP Compressor/EQ and SPX reverb

AG06

- Two D-Pre mic preamps with inverted Darlington circuit
- Two stereo LINE inputs
- USB interface, 192kHz / 24 bit, including CUBASE AI download
- 1-TOUCH DSP Compressor/EQ, SPX reverb effect plus guitar amp simulation



FLEXIBLE CONNECTIVITY

Phantom Power and a Hi-Z switchable input allow you to connect a variety of microphones, instruments and external audio players directly into your AG, while front panel volume knobs and a fader* provide fast and easy volume control.
*AG03 only

HIGH RESOLUTION (192KHZ / 24BIT) PLAYBACK AND RECORDING

AG's high-resolution sound reproduces every subtlety of your performances and recordings with flawless fidelity and accurate imaging, ideal for music production, mixing and broadcasting, as well as high-definition listening.

D-PRE STUDIO QUALITY MIC PREAMP

AG features the same premium mic preamps developed by Yamaha for high-end recording consoles, capturing most detailed nuances of your vocal or instrumental performance.

1-TOUCH DSP OFFERS PROFESSIONAL SOUND WITH A SINGLE TOUCH

AG features 1-TOUCH DSP that utilizes Yamaha's state-of-the-art signal processing technology. COMP/EQ will hone your tone while EFFECT adds ambient reverb, and AMP SIM* delivers a classic, warm tube amp sound – all at the touch of a button.
*AG06 only

GENERAL SPECIFICATIONS

		AG06	AG03
Frequency Response (nom. output level @ 1kHz)	Input (MIC) to MONITOR OUT via USB IN/OUT	+0.5 dB/-1.5 dB (20 Hz to 48 kHz @ Fs = 192 kHz), GAIN knob: Min, TO PC: DRY CH1-2G	
Total Harmonic Distortion (THD+N)	Input to MONITOR OUT	0.05% @ 0 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.01% @ +4 dBu (1 kHz), GAIN knob: Min	
Hum&Noise (20 Hz to 20 kHz)	Equivalent Input Noise	-128 dBu (Mono Input Channel, Rs: 150 Ω, GAIN knob: Max)	
	Residual Output Noise	-103 dBu (MONITOR OUT, MONITOR knob: Min)	
Crosstalk (1 kHz)		-80 dB	
Input Channels		Mono (MIC/LINE): 2 including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.), Stereo (LINE): 2, USB IN: 1, AUX IN: 1	Mono (MIC/LINE): 1 including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.), Stereo (LINE) / Mono (GUITAR) :1, USB IN:1, AUX IN:1
Output Channels		STEREO OUT: 1, MONITOR OUT: 1, PHONES: 2 including HEADSET PHONES (PHONES and HEADSET PHONES cannot be used simultaneously.)	MONITOR OUT: 2, PHONES: 2 including HEADSET PHONES (PHONES and HEADSET PHONES cannot be used simultaneously.)
Bus		Stereo: 1	
Input Channel Function (CH1)	PAD	26 dB	
	DSP	CH1: COMP/EQ, EFFECT (SPX Reverb) CH2: AMP SIM, EFFECT (SPX Reverb)	COMP/EQ, EFFECT (SPX Reverb)
	PEAK LED	LED turns on when the signal reaches 3 dB below clipping level.	
Level Meter	USB Output Level	2x2 point LED meter [PEAK, SIG]	
USB Audio	2 IN / 2 OUT	USB Audio Class 2.0 compliant Sampling Frequency: Max 192 kHz Bit Depth: 24-bit	
FOOT SW		EFFECT Mute on/off	
Power Requirements		DC 5 V, 500 mA	
Power Consumption		Max. 2.5 W	
Dimensions (W x H x D)		155 x 63 x 202 mm	129 x 63 x 202 mm
Net Weight		1.0 kg	0.8 kg
Included Accessories		USB Cable (1.5 m), CUBASE AI DOWNLOAD INFORMATION, Owner's Manual, Technical Specifications	
Optional Accessories		Foot Switch: FC5, Mic Stand Adaptor: BMS-10A	



LOOPBACK FUNCTION FOR INTERNET LIVE STREAMING

The LOOPBACK function consolidates all input channels and playback tracks, and routes the mix to your internet streaming software for easy live streaming of performances to the internet.



CLASS COMPLIANT MODE FOR IPAD CONNECTION

AG is compatible with Apple's second generation iPad or later, allowing you to create high quality recording and playback using an iOS compatible music app such as Cubasis.
*Apple iPad Camera Connection Kit/ Lightning to USB Camera Adapter required



DURABLE, COMPACT METAL CHASSIS

The tough metal body of the AG is extremely portable and easy to place on a keyboard, on a guitar case, or even on a mic stand using an optional adapter.



USB BUS POWERED OR MOBILE BATTERY

AG can operate using USB bus power eliminating the need for an external adaptor. AG can also be driven by a mobile battery for use with an iPad providing users with a true mobile mixing and audio interface solution.

CONFERENCE LIVE

EMX SERIES

EMX

1-knob Comp

SPX DIGITAL MULTI EFFECT PROCESSOR

YSProcessing

FCL

(EXCEPT EMX 5016CF)

FRC

(EMX5016CF ONLY)

EQ MAXIMIZER

(EMX5016CF ONLY)

FEEDBACK SUPPRESSOR

(EMX5016CF ONLY)



INTEGRATED SOLUTIONS FOR SUPERIOR LIVE SOUND

Experienced musicians, performers, speakers, and club operators know the importance of a high-quality sound system with the right features and performance to deliver their sound. Where portability and convenience are important criteria, a system based on a high-performance Yamaha EMX-series powered mixer is definitely the way to go. In one integrated, portable unit you have a mixer to combine and balance your microphone and instrument and line sources, effects to refine and polish your sound, and power to drive the main speakers and even monitor speakers as well. But that's nowhere near the whole story - Yamaha EMX-series Powered Mixers offer a range of features that let you mix, process, and deliver your sound with maximum quality and creative control ... and, of course, that unrivalled Yamaha sound.

CONSOLE-STYLE POWERED MIXERS THAT CAN TAKE YOUR LIVE SOUND TO THE NEXT LEVEL

- EMX2: 8 INPUTS, UP TO 4 MICROPHONES, 2 X 110W
- EMX5: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 500W
- EMX7: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 600W, GRAPHIC EQUALIZER
- EMX5014C: 14 INPUTS, UP TO 8 MICROPHONES, 2 X 320W, GRAPHIC EQUALIZER
- EMX5016CF: 16 INPUTS, UP TO 12 MICROPHONES, 2 X 320W, DIGITAL EQUALIZER



EMX5016CF



EMX5014C

	EMX5016CF	EMX5014C
OUTPUT POWER (1 KHZ/8 OHMS)	2x320W	2x320W
CHANNELS	16	14
MICROPHONE INPUTS	12	10
STEREO LINE INPUTS	4	4
BUS OUTPUTS	ST	ST
AUX OUTPUTS	3 (1FX)	3 (1FX)
EFFECTS	2x SPX, 2x Digital 9-band GEQ, Feed-back suppressor, Frequency response correction, Maximizer, YSProcessing	2x SPX, 2x 9-band GEQ, YSProcessing
DIMENSIONS	444 x 155 x 493 mm	444 x 155 x 493 mm
POIDS	11 kg	10.5 kg
OPTIONAL RACK MOUNT KIT	RK5014	RK5014

CONFERENCE LIVE

EMX SERIES



EMX7 EMX5 EMX2

	EMX7	EMX5	EMX2
OUTPUT POWER (1KHZ/8OHM)	2x600W	2x500W	2x110W
CHANNELS	12	12	10
MICROPHONE INPUTS	8	8	4
STEREO LINE INPUTS	4	4	3
BUS OUTPUTS	ST	ST	ST
AUX OUTPUTS	2 (1fx)	2 (1fx)	1 (fx)
EFFECTS	SPX Algorithm 24 programs, Feedback suppressor, Graphic equalizer, Speaker processor	SPX Algorithm 24 programs, Feedback suppressor, Master EQ, Monitor EQ	SPX Algorithm Reverb 4 programs, MASTER EQ (SPEECH to MUSIC), Feedback suppressor
DIMENSIONS	465x308x325mm	465x308x325mm	375x147x220mm
WEIGHT	9.5 kg	9.5 kg	4.2 kg
OPTIONAL RACK MOUNT KIT	RK7	RK7	RK2



SCMG1620



RKEMX7



RKEMX2



RK5014

ACCESSORIES EMX SERIES

SCMG1620	RKEMX7	RKEMX2	RK5014
SOFT CASE FOR EMX5014C, EMX5016CF	RACK MOUNT KIT FOR EMX5, EMX7	RACK MOUNT KIT FOR EMX2	RACK MOUNT KIT FOR EMX5014C, EMX5016CF (12U+1)

STAGEPAS SERIES

The **STAGEPAS SERIES** features two sleek, lightweight speakers and a detachable powered mixer, along with one pair of speaker cables and a power cord, giving you a complete, extremely portable sound solution that can be set up quickly and easily in a variety of configurations and environments. The latest models feature Bluetooth® wireless audio streaming, SPX digital reverb, 1-knob master EQ and feedback suppressor.



STAGEPAS 600BT



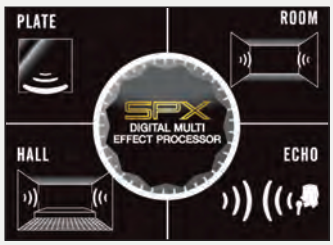
STAGEPAS 400BT

	STAGEPAS 600BT	STAGEPAS 400BT
MAX. POWER / MAX. SPL	680 W / 129dB	400 W / 125dB
SPEAKER UNIT	LF: 10" Cone / HF: 1,4" v.c. Driver	LF: 8" Cone / HF: 1" v.c. Driver
CHANNELS	10 Channels	8 Channels
EQ	3-Band EQ	2-Band EQ
FX	SPX digital reverb	SPX digital reverb
OUTPUT PROCESSOR	Feedback processor, 1-knob master EQ	Feedback processor, 1-knob master EQ
BLUETOOTH INPUTS	Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10 m	Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10 m
SPEAKER MOUNT	34.8-35.2 mm pole socket with StageLok™	34.8-35.2 mm pole socket with StageLok™
PHANTOM POWER	30V	30V
SUBWOOFER OUTPUT	with auto HPF	with auto HPF
DIMENSIONS (W X H X D)	Speaker: 335 x 545 x 319 mm Mixer: 348 x 197 x 135 mm	Speaker: 289 x 472 x 275 mm Mixer: 308 x 180 x 116 mm
WEIGHT	25.6 kg	18.3 kg



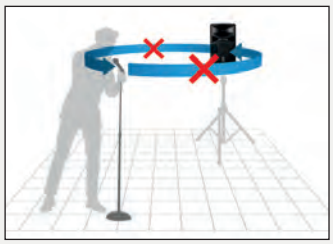
BLUETOOTH® WIRELESS AUDIO STREAMING

Equipped with a Bluetooth input for wireless audio streaming from smartphones or tablets, the STAGEPAS-BT models let you seamlessly play backing tracks for gigs, or set the tone of parties, conferences, or events with the audio playback of your choice.



SPX DIGITAL REVERB

One knob gives you access to four different high-quality reverb settings, perfect for vocals and acoustic instruments. Simply turn the knob to change the reverb type and time, and then you're ready to apply just the right amount of high-resolution effect to each channel.



FEEDBACK SUPPRESSOR

Avoid the uncomfortable feedback that plagues so many sound reinforcement novices and professionals alike. Usually found only on high-end gear, this intelligent function removes feedback automatically with the push of a button, giving you a clear, professional sound.

OPTIONAL ACCESSORIES

- **SCSTAGEPAS400i**
  Trolley for Stagepas 400i
  (without image)

- **SCSTAGEPAS600i**
  Trolley for Stagepas 600i
  (image similar)



- **STAGEPASSPKSTD**
  Speaker stand
  (image similar)





- **DXS12MKII AND DXS15MKII SUBWOOFERS**
  (connect to subwoofer output)



- **BMS-10A**
  Microphone stand adaptor

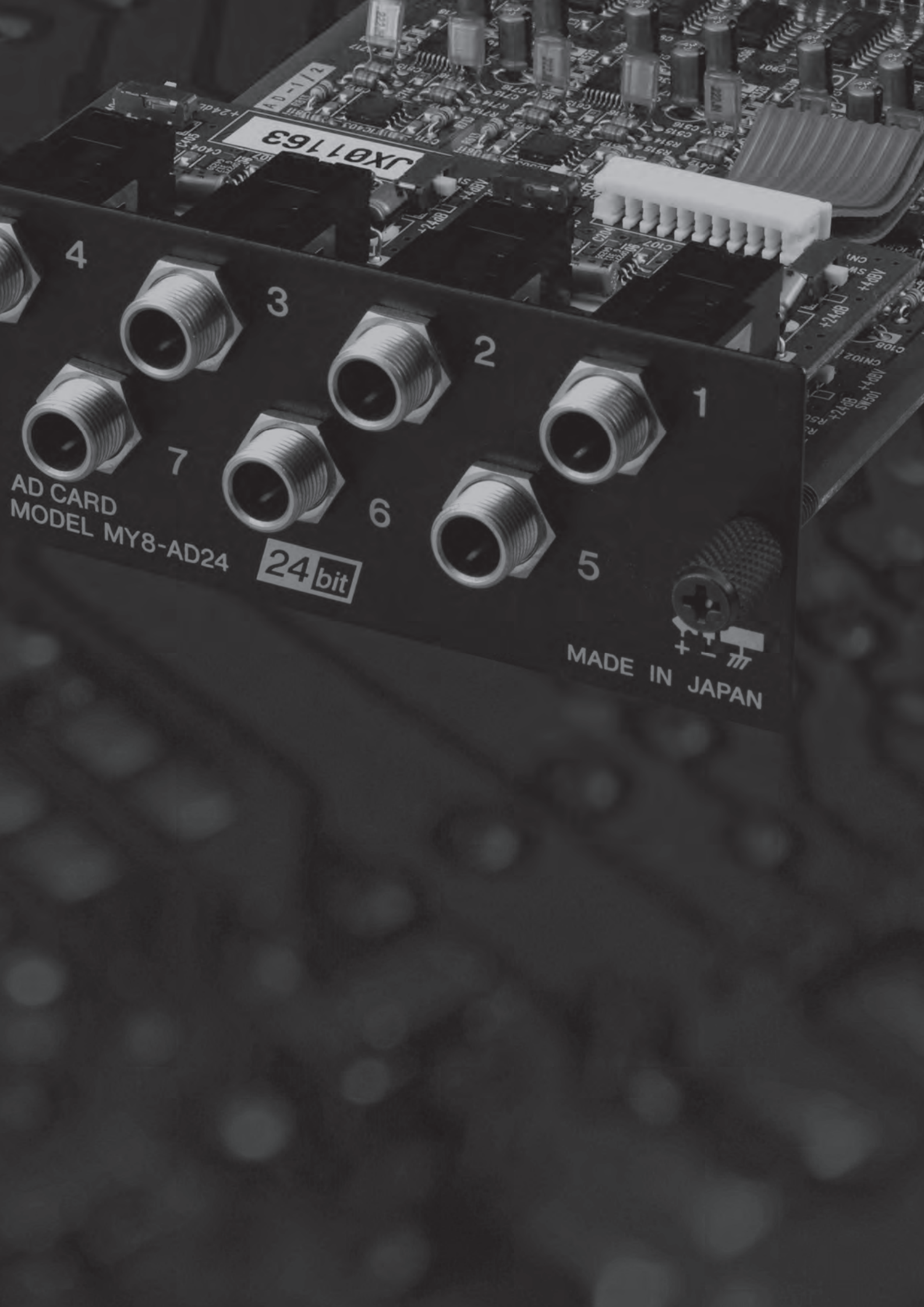


- **STAGEPASMIXSTD**
  Microphone stand

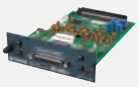
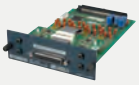


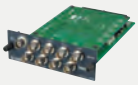
NEXT

INTERFACES


4
3
2
1
7
6
5
AD CARD
MODEL MY8-AD24
24bit
MADE IN JAPAN

MINI-YGDAI CARDS

MODEL	CH	RESOLUTION	CONNECTOR	
ANALOG				
✸ AD/DA				
MY8-ADDA96 	8in 8out	24bit	Euroblock x 16	96kHz compatible 8-in / 8-out analog audio interface. Max input / output level: +24dBu. 8x Euro block connectors (balanced).
✸ AD				
MY8-AD96 	8in	24bit	D-sub 25 pin x 1	96kHz compatible 8-in analog audio interface. Max input level: +24dBu(default) / +18dBu; GAIN switches at each input port. 1x D-sub 25pin connector.
MY8-AD24 	8in	24bit	TRS Phone x 8	8-in analog audio interface. Max input level: +24dBu(default) / +4dBV; GAIN switches at each input port. 8x TRS phone jacks (balanced).
MY4-AD 	4in	24bit	XLR3-31 x 4	4-in analog audio interface. Max input level: +24dBu(default) / +18dBu / +4dBV; GAIN switches at each input port. 4x XLR-3-31 type connectors (balanced).
✸ DA				
MY8-DA96 	8out	24bit	D-sub 25 pin x 1	96kHz compatible 8-out analog audio interface. Max output level: +18dBu. 1x D-sub 25pin connector (balanced).
MY4-DA 	4out	20bit	XLR3-32 x 4	4-out analog audio interface. Max output level: +18dBu(default) / +4dBV; GAIN switches at each output port. 4x XLR-3-32 type connectors (balanced).
DIGITAL				
✸ ADAT				
MY16-AT 	16in 16out	24bit	OPTICAL x 4	16 in / 16 out ADAT interface. * If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
MY8-AT 	8in 8out	24bit	OPTICAL x 2	8in / 8 out ADAT interface. * If you use the card in Double Channel mode (FS: 88.2/96kHz), four inputs and four outputs are available.

MODEL	CH	RESOLUTION	CONNECTOR	
✹ AES/EBU				
MY16-AE 	16in 16out	24bit	D-sub25 pin x 2	16 in / 16 out AES/EBU interface. If you use the MY16-AE in Double Channel mode, selecting on the console's Word Clock Select page a slot that has the card installed enables the console to synchronize to the 88.2kHz or 96kHz clock signal.
MY8-AE96S 	8in 8out	24bit	D-sub25 pin x 1	96kHz compatible 8-in / 8-out AES/EBU interface. Equipped with a sampling rate converter at the input.
MY8-AE96 	8in 8out	24bit	D-sub25 pin x 1	96kHz compatible 8-in / 8-out AES/EBU interface.
MY8-AE 	8in 8out	24bit	D-sub25 pin x 1	8-in / 8-out AES/EBU interface.
MY8-AEB 	8in 8out	24bit	BNC x 9 (IN x 4, OUT x 4, REF Video x 1)	8-in / 8-out AES-3id-1995 compliant digital audio interface. x BNC for AES In/Out; 1x BNC for Reference Video In with the eXi-Clock sync capability.
✹ MADI				
MY16-MD64 	16in 16out	24bit	BNC x 2 Optical x 2 RJ-45 x 2	16-in / 16-out MADI interface. Expandable to 64 in / 64 out with MY16-EX expansion cards. 2x BNC connectors and 2x SC fiber connectors for MADI I/O and 2x RJ45 for MY16-EX connection.
✹ SDI				
MY8-SDI-ED 	1in 1thru 2out	24bit	BNC x 1 BNC (same signal) x 2	HD-/SD-SDI embed/de-embed card. Capable to de-embed two of the 4 audio groups out of an HD-SDI signal to the console. Capable to embed two audio groups into an HD-/SD-SDI signal for output. 2x BNC Connectors for HD-/SD-SDI output (parallel), 1x BNC connector for Thru, and 1x BNC connector for HD-SDI input.

MODEL	CH	RESOLUTION	CONNECTOR	
✹ TDIF				
MY16-TD* 	16in 16out	24bit	D-sub 25 pin x 2	16-in / 16-out TASCAM (TDIF-1) interface. 2x D-sub 25 pin connectors.
*Stock availability is limited in certain countries.				

NETWORK

✹ AVIOM A-NET				
16/o-Y1 	16out	24bit	etherCON CAT5e	16-out A-Net Pro16 interface for use with Aviom A-16II personal mixers. 1x etherCON CAT5 connector. Made by Aviom: http://www.aviom.com/
6416Y2 	16in 16out	24bit	etherCON CAT5e x2 D-sub 9 pin	16-in / 16-out A-Net Pro64 interface. Compliant with Yamaha HA Remote protocol. Made by Aviom: http://www.aviom.com/
✹ COBRANET				
MY16-CII 	16in 16out	24bit	RJ-45 x 2	16-in / 16-out CobraNet interface. Compliant with Yamaha HA Remote protocol via slot. If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
✹ DANTE				
MY16-AUD2 	16in 16out	16bit 24 bit 32 bit	RJ-45 x 2 D-sub9 x 1	16-in / 16-out Dante interface with support for Daisy chain switch mode, device clock and AES67 at low power consumption. 9-pin D-Sub support for Yamaha HA Remote protocol. Made by Audinate: http://www.audinate.com
✹ ETHERSOUND				
MY16-ES64 	16in 16out	24bit	etherCON x 2 (EtherSound) RJ-45 x 2 (for MY16-EX)	16-in / 16-out EtherSound (ES100) interface. Compliant with Yamaha HA Remote protocol. Expandable to 64 in / 64 out with MY16-EX expansion cards. If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
AVY16-ES100 	16in 16out	24bit	etherCON CAT5e x 2 RJ45(Third port) D-sub 9 pin	16-in / 16-out EtherSound (ES100) interface. Compliant with Yamaha HA Remote protocol. Made by AuviTran: http://www.auvitran.com/

MODEL	CH	RESOLUTION	CONNECTOR	
✸ I/O EXPANSION				
MY16-EX 	16in 16out	24bit	RJ-45 x 4	16-in / 16-out expansion card for MY16-ES64 and MY16-MD64. 4x RJ-45 connectors.
✸ OPTOCORE				
YG2 	16in 16out	24bit	LC (single-/ multi-mode) x 2 RJ-45 x 2 D-sub 9 pin x 1	16-in / 16-out Optocore interface. Expandable to 64 in / 64 out with YS2 expansion cards. 2x LC (single-/multi-mode) connectors for Optocore network, 2x RJ-45 connectors for YS2 card, and 1x D-sub 9 pin for RS232-C/USB. Made by Optocore: http://www.optocore.de/
YS2 	16out	24bit	RJ-45 x 2 D-sub 9 pin x 1	6-in / 16-out expansion card for YG2 Optocore interface. 2 x RJ-45 connectors for YG2/YS2 card, and 1x D-sub 9 pin for upgrade internal logic. Made by Optocore: http://www.optocore.de/
✸ ROCKNET				
RN.341.MY 	16in 16out	24bit	etherCON CAT5e x 2 D-sub 9 pin (HA Remote) RJ-45 x 1 USB 1.1/2.0 x 1	16-in / 16-out RockNet300 Interface. 2x etherCON CAT5 connectors for RockNet network, 1x D-sub 9 pin for RS232-C, 1x RJ45 connector for 10/100 Base-T Ethernet, and USB port for USB 1.1/2.0. Made by RIEDEL: http://www.riedel.net/
RN.141.MY 	16in 16out	24bit	etherCON CAT5e x 1 D-sub 9 pin (HA Remote) RJ-45 x 1 USB 1.1/2.0 x 1	16-in / 16-out RockNet100 Interface. 1x etherCON CAT5 connectors for RockNet network, 1x D-sub 9 pin for RS232-C, 1x RJ45 connector for 10/100 Base-T Ethernet, and USB port for USB 1.1/2.0. Made by RIEDEL: http://www.riedel.net/
✸ PIVITEC				
E16I/O-MY 	16in 16out	24bit	Neutrik Ethercon/RJ45 x 1	A direct connection between compatible Yamaha consoles and other Pivitec network audio devices. Supports 48kHz sampling frequency. Made by Pivitec: http://www.pivitec.com/

MY CARD COMPATIBILITY CHART

			CL	QL	PM5D	M7CL	LS9	DM2K	02R96	DM1K	01V96i	MTX	DME	DA824	TXn	RSio	CS-R10	CS-R10S	CSD-R7	DSP-R10	RPIO-622	RPIO-222
Analog	AD/DA	MY8-AD-DA96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	AD	MY8-AD96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AD24	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY4-AD	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	DA	MY8-DA96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY4-DA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
Digital	ADAT	MY16-AT	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
		MY8-AT	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES
	AES/EBU	MY16-AE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE96S	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AEB	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	MADI	MY16-MD64	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	SDI	MY8-SDI-ED	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
	TDIF	MY16-TD	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
Network	AVIOM A-Net	16/o-Y1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
		6416Y2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
	CobraNet	MY16-CII	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	Dante	MY16-AUD2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	EtherSound	MY16-ES64	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		AVY16-ES100	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	I/O Expansion	MY16-EX	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	OPTOCORE	YG2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES
		YS2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES
	PIVITEC	e16i/o-MY	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	ROCKNET	RN.341.MY	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		RN.141.MY	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Specialty	Acoustic Echo Canceller	MY4-AEC	-	-	-	-	-	-	-	-	-	YES	YES	-	-	-	-	-	-	-	-	-
	Waves SoundGrid	WSG-Y16	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	Lake Processing	MY8-LAKE*	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
	Automatic Mixing Controller	Dugan-MY16	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES

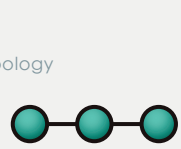
NETWORK AUDIO PROTOCOL

DANTE – GIGABIT ETHERNET BASED DIGITAL AUDIO NETWORK

Dante is a flexible Internet Protocol and Gigabit Ethernet based digital audio network technology developed by Audinate which offers easy and low-cost setting, low latency, and high scalability. Audinate provides software applications for using Dante; Dante Controller allows users to configure and route audio around Dante networks, and Dante Virtual Soundcard enables direct connection to PC/Mac for multi-channel recording, processing and playback. **AES67** compatibility supports connectivity with other AES67 compatible network solutions such as Q-LAN, Ravenna and Livewire, in addition to Dante.

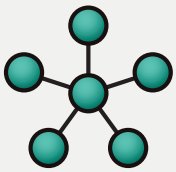
- **MY16-AUD2** Dante Interface Card
- **QL SERIES** networked mixing consoles
- **CL SERIES** networked mixing consoles
- **NY64-D** Dante interface card for TF series
- **HY144-D & HY144-DSRC** Dante interface card for RIVAGE PM10 series
- **AIC128-D** Dante PCI Audio Interface Card for NUAGE
- **MTX5-D** Matrix processor
- **MRX7-D** Signal processor
- **R-I/O SERIES** interfaces
- **NIO SERIES** interfaces
- **RSIO64-D** I/O rack
- **RMIO64-D** Dante / Madi bridge
- **MMP1** Studio monitor system
- **PGM1** Paging microphone
- **DZR-D** and **DXS-D** Powered speakers
- **SWP1** Dante optimized switches
- **SWP2** Dante optimized switches
- **SWR2100P** PoE switches
- **SWR2311P** managed PoE switches

Topology



Daisy Chain Configuration

Topology



Star Configuration

ETHERSOUND – 100MB ETHERNET BASED DIGITAL AUDIO NETWORK

EtherSound is a protocol for network audio developed by Digigram which provides bi-directional, low-latency transmission of synchronized audio channels and control data over standard Ethernet. EtherSound technology enables users to both transmit and receive up to 64 channels of 24-bit/48-kHz audio data via a single CAT5 cable (maximum100m/330 feet).

- **M7CL-48ES**
- **SB168-ES** Stage Box
- **DME8I-ES/DME8O-ES/DME4IO-ES** Audio I/O Distribution and DSP Expansion Units
- **MY16-ES64** EtherSound / Interface Card
- **MY16-EX** EtherSound / Interface Card
- **NAI48-ES** Network Audio Interface

Topology



Daisy Chain Configuration

COBRANET – 100MB ETHERNET BASED DIGITAL AUDIO NETWORK

CobraNet is a digital audio transfer technology developed by Peak Audio (now Cirrus Logic) which uses a single CAT5 cable to simultaneously transfer 64-input/64-output signals. CobraNet technology supports transmission of uncompressed audio signals in 16-, 20-, and 24-bit resolutions at sampling frequencies of 48Hz and 96Hz.

- **DME8I-C/DME8O-C/DME4IO-C** Audio I/O Distribution and DSP Expansion Units
- **MY16-CII** EtherSound / Interface Card
- **NHB32-C** Network Hub and Bridge
- **ACU16-C** D/A convertor and Monitor / Control Unit

Topology



Star Configuration

CONFERENCE LIVE BROADCAST

SWP SERIES
L2 SWITCH

L2 SWITCH
SWP SERIES
SWP2-10SMF / SWP2-10MMF
SWP1-16MMF / SWP1-8MMF / SWP1-8



SWP2-10SMF

SWP2-10MMF

SWP1-16MMF

SWP1-8MMF

SWP1-8

EASY SETUP AND COMPREHENSIVE NETWORK VISIBILITY

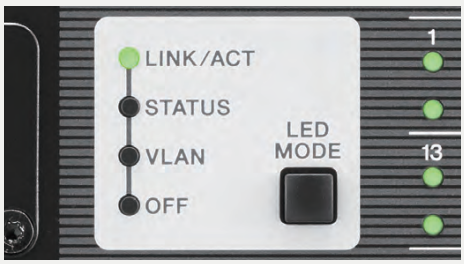
DIP SWITCH DANTE OPTIMIZATION

Simple Dante networks are not difficult to set up and operate, but as network complexity grows the switches used need to be optimized for Dante operation in order to achieve maximum stability. Setting up QoS, IGMP Snooping, and other parameters on an intelligent switch can be a complex task, requiring specialized knowledge that is more the domain of IT technicians than audio engineers. The SWP series allows a Dante optimized setup to be recalled by simply flipping one DIP switch. No expertise or training is required.



3 PRESET VLAN TYPES

A truly efficient network should be able to handle multiple services simultaneously: Dante communication, StageMix and other smart device functions, computer software that allows digital mixer or power amplifier control, and perhaps more. But the more communication you combine on one network, the greater the chance for interference and problems. The use of virtual VLAN domains to isolate the various types of data is the ideal solution, but this type of setup also requires some IT expertise. The SWP series includes three VLAN presets that can be simply selected via a DIP switch. There's also a USER mode that allows fully customized VLAN setup.



SWP2-10SMF/SWP2-10MMF

VLAN PRESET	Rear panel ports						Front panel ports					
	1	2	3	4	5	6	7	8	9	10	11	12
NORMAL	1	1	1	1	1	1	1	1	1	1	1	1
A	1	1	1	1	2	2	1	1	2	2	Tr1	Tr1
B	1	1	1	1	2	2	1	2	Tr1	Tr1	Tr2	Tr2
C	1	1	1	2	2	2	1	1	2	2	1	2

SWP1-8/SWP1-8MMF

Rear panel ports				Front panel ports					
1	2	3	4	5	6	7	8	9	10
1	1	1	1	1	1	1	1	1	1
1	1	2	2	1	1	2	2	Tr	Tr
1	1	2	2	1	2	Tr	Tr	Tr2	Tr2
1	1	2	2	1	1	2	2	1	2

SWP1-16MMF

Rear panel ports												Front panel ports					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	2	2	1	1	2	2	1	1	2	2	Tr	Tr
1	1	1	1	1	1	2	2	1	1	2	2	1	2	Tr	Tr	Tr2	Tr2
1	1	1	1	2	2	2	2	1	1	2	2	1	1	2	2	1	2

TR: TRUNK ETHERCON OPTICALCON

*SWP1-8 ports 9 and 10, SWP1-8MMF port 10, and SWP1-16MMF port 18 become available when the optional MMF-SWP1 is installed.

RELIABILITY AND CONNECTIVITY



ETHERCON CONNECTORS FOR LIVE SOUND RELIABILITY

Reliability is essential in live sound applications. Nothing can be allowed to interrupt the show. Conventional network switches usually have RJ45 connectors to match the connectors on the computers to which they will be connected, but the SWP series features durable, reliable etherCON connectors that are directly compatible with the etherCON connectors on Yamaha CL/QL series consoles and other Dante capable devices.



OPTICAL FIBER AND NETWORK REDUNDANCY SUPPORT

The SWP1-8MMF, SWP1-16MMF and SWP2-10MMF include multi-mode fiber capable opticalCON connectors and SWP2-10SMF includes single-mode fiber capable opticalCON connectors. Both multi and single-mode models allow for longer distance transmission. MMF models allow transmission over distance of up to 300 meters and the SMF model allows transmission over distance of up to 10 kilometers. The optional MMF-SWP1 optical fiber module for SWP1 seiries can be added to allow two optical fiber cables to be run for redundant connection. Rapid spanning tree protocol (RSTP) is also supported for more advanced redundant networking.



EXT DC INPUT FOR POWER SUPPLY REDUNDANCY

SWP series switches include an XLR-4-32 type EXT DC INPUT connector in addition to the standard AC IN connector. +24V DC supplied to the EXT DC INPUT connector provides redundant power that can keep the device running if a problem occurs in the AC supply. For further reliability the AC connector is a locking type (V-Lock) that minimizes the possibility of accidental disconnection.

AC ADAPTER FOR PROVIDING REDUNDANT POWER SUPPLY FOR SWP1, SWP2, AND RSIO64-D

- Input power voltage: AC100–240V
- Output power voltage: DC24V
- XLR4-11C type connector
- Dimensions*: 59 (W) x 32 (H) x 139 (D) mm

*without cables



PA-700

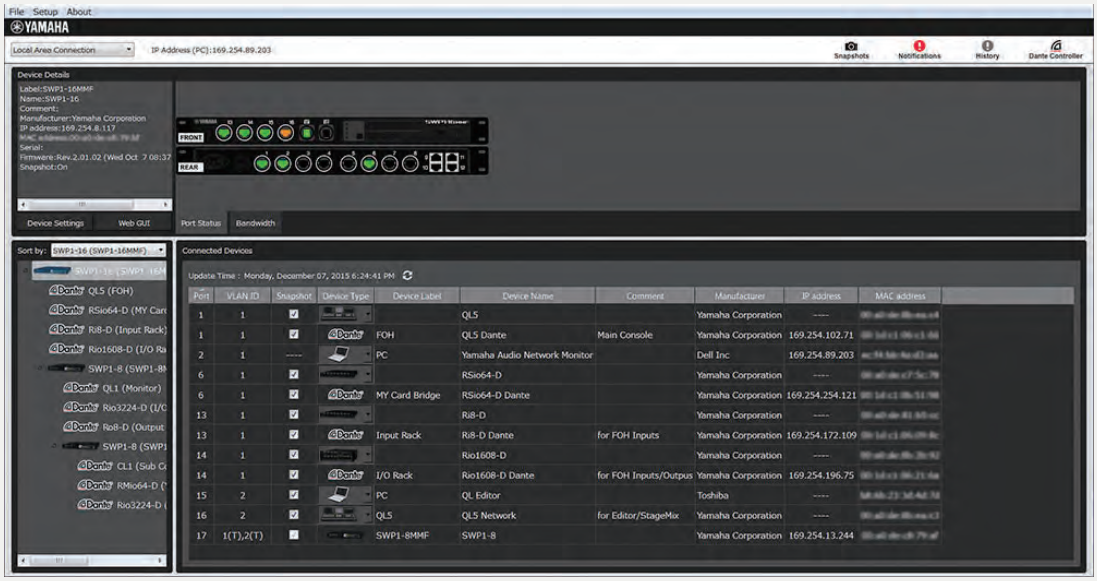
NETWORK VISIBILITY ADVANTAGES

NETWORK VISIBILITY



Effective Dante network management hinges on a range of parameters such as network traffic, switch status, and individual Dante device information. The dedicated Yamaha LAN Monitor application for Windows computers provides a comprehensive single-screen view of all necessary parameters when used with SWP series* switches. We refer to this type of graphical overview as "network visibility." You can even take a snapshot of the normal network status and set an alarm to warn you if any of the parameters changes, so that problems can be identified and resolved quickly and easily. The Dante Controller application can also be launched from the Yamaha LAN Monitor with a single click, providing a total Dante network solution on a single computer.

*Please use LAN Monitor 1.3.6 or later for the SWP2 series



LAN MAPPING FOR A COMPLETE NETWORK OVERVIEW

Understanding how multiple switches installed in different locations are connected, plus how network devices are connected to those switches, can be a difficult, time-consuming task. The Yamaha LAN Monitor makes overall network topology clearly visible, giving the user a comprehensive overview of how multiple switches and Dante network devices are interconnected. Simply connect a Windows PC to the nearest SWP switch and launch the Yamaha LAN Monitor software.

PORT STATUS AND BANDWIDTH UTILIZATION

The Yamaha LAN Monitor includes a port status and bandwidth display that clearly shows the connection status of each network switch port, information about the connected devices, the communication speed at each port, and the bandwidth utilization at each port.



PORT STATUS



BANDWIDTH

DANTE DEVICE INFO

Device information and monitoring is also available for any Dante devices connected to SWP series switches on the network. The ability to monitor primary and secondary port status as well as transmit and receive flow is important to achieving stable, reliable Dante audio communication. This capability lets you keep an eye on the overall "health" of the network.

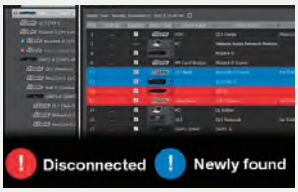


1-CLICK DANTE CONTROLLER LAUNCH



A Dante Controller button at the top of the Yamaha LAN Monitor interface lets you launch the Dante Controller with a single click (the Dante Controller software must be installed on the computer). Seamless switching between the Yamaha LAN Monitor and Dante Controller provides total Dante network control from a single computer.

SNAPSHOT FUNCTION MAKES TROUBLESHOOTING EASY



You can take a "snapshot" of the network status when set up as required. The software can then automatically keep track of the settings and alert you to any changes. You could take a snapshot of the network during rehearsal, and then you'd be alerted if a cable is disconnected, if a device is turned off, or if a wrong connection is made prior to the performance, for example.

ENHANCED DEVICE ID WITH ICONS, LABELS, AND COMMENTS



Identifying devices connected to a switch by only their IP or MAC address is a difficult and error-prone approach. Connected Dante devices are identified by a Dante icon as well as a device ID previously set up via the Dante Controller software. You can also enter additional info, such as the location of the device, in the Label and Comment fields.

DETAILED SWITCH SETTINGS AND FIRMWARE UPDATES



The web GUI for each device can be recalled to provide access to "deep" user config settings and allow firmware updates.

SPECIFICATIONS

		SWP2-10SMF	SWP2-10MMF	SWP1-16MMF	SWP1-8MMF	SWP1-8
NUMBER OF PORTS	TOTAL	12	12	18	10	10
	10G OPTICAL CON	2 (2 singlemode optical modules are installed as standard)	2 (2 multimode optical modules are installed as standard)	–	–	–
	1G OPTICAL CON	–	–	2 (1 multimode optical module is installed as standard)	2 (1 multimode optical module is installed as standard)	2 (optical modules are not installed as standard)
	1G ETHERCON	10	10	12	8	8
	1G RJ-45	–	–	4	–	–
SWITCHING CAPACITY		128 GBIT/S	128 GBIT/S	36 GBIT/S	20 GBIT/S	20 GBIT/S
DIMENSION (WXHXD)		480 x 44 x 362mm	480 x 44 x 362mm	480 x 44 x 362mm	480 x 44 x 362mm	480 x 44 x 362mm
WEIGHT		4.5 kg	4.5 kg	4.6 kg	4.2 kg	4.2 kg

OPTION: This optical kit includes components necessary to install multimode optical capability with opticalCON connectors in the dedicated expansions slots provided



MMF-SWP1

CONFERENCE

BACKGROUND MUSIC

SWR SERIES L2 SWITCH

L2 SWITCH WITH DANTE OPTIMIZATION FUNCTION AND PoE POWER SUPPLY

SWR series L2 PoE switches can supply power to PoE powered devices on the network. Yamaha has integrated its own expertise in networking and professional audio fields and developed it as an L2 switch optimized for audio networks. The SWR series can take advantage of "Yamaha LAN Monitor" a dedicated Windows application that provides 'network visibility' for comprehensive monitoring and control.

L2 SWITCH

SWR2311P-10G
SWR2100P-10G
SWR2100P-5G

SWR2311P-10G INTELLIGENT L2 POE SWITCH



SWR2311P-10G

- Recommended settings for stable operation of a Dante network (such as QoS, EEE, and IGMP Snooping) can be made easily
- LAN ports equipped with PoE supply: 8 (#1-8)
- LAN/SFP combo ports: 2 (#9,10) (The LAN port and SFP slot are exclusively used)
- PoE supply is compliant with IEEE 802.3at, and can supply up to 30W to all PoE ports (All ports 240W)

HARDWARE / PERFORMANCE

microSD | Console | SFP x 2 | 20Gbit/s | PoE (240W)

FUNCTION

QoS | SNMP | SYSLOG | L2MS Master/Slave | VLAN | DHCP Client
SNTP Client | IGMP SNOOPING | Spanning tree | Loop detection | LAG | ACL
DHCP Server | Web GUI | COMAND | EEE

SWR2100P SERIES SIMPLE L2 POE SWITCH

- Ports available for PoE power supply:
  SWR2100P-10G: #1-9/Up link port: 10
  SWR2100P-5G: #1-4/Up link port: 5
- Maximum 30W can be supplied from each PoE-compliant port (All ports 70W)



SWR2100P-10G

HARDWARE / PERFORMANCE

Fanless | CONFIG Switch | 20Gbit/s | PoE (70W)

FUNCTION

L2MS Slave | Loop detection | EEE



SWR2100P-5G

HARDWARE / PERFORMANCE

Fanless | CONFIG Switch | 10Gbit/s | PoE (70W)

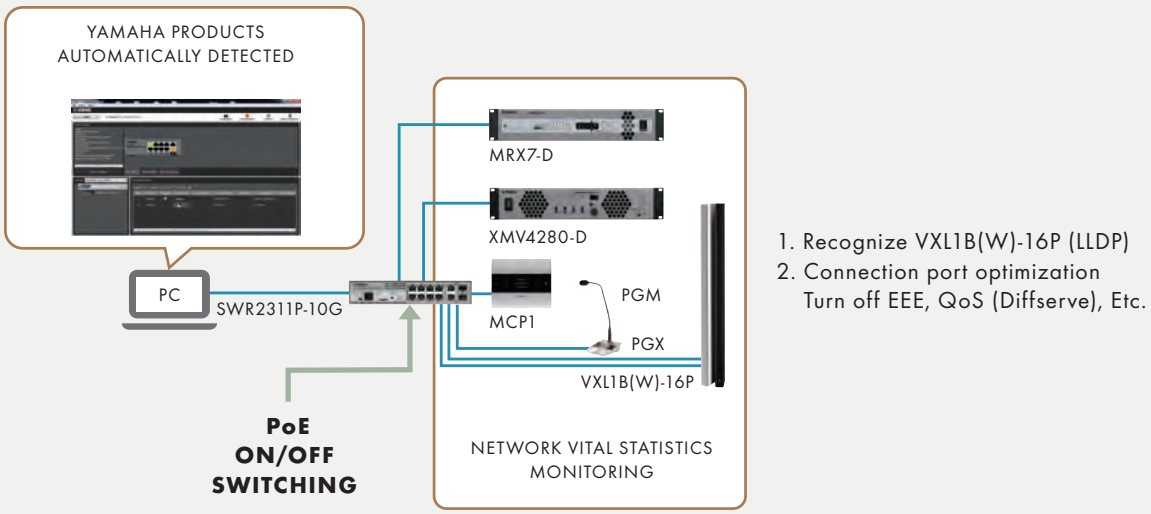
FUNCTION

L2MS Slave | Loop detection | EEE

YAMAHA LAN MONITOR

YAMAHA LAN MONITOR IS FREE OF CHARGE SOFTWARE THAT CAN BE DOWNLOADED FORM THE SWR AND SWP SERIES PRODUCT PAGES

- You can check the PoE power supply status, turn the PoE power supply, and use the snapshot function to inform you whether a fault has occurred by detecting any difference in the state of the network since it was set up.
- When you connect the VXL1-16P to the SWR2311P-10G, optimal settings for Dante are made automatically via LLDP that is a protocol for passing system management data between a device and its neighboring device.



SNAPSHOT FUNCTION MAKES TROUBLESHOOTING EASY

You can take a "snapshot" of the network status when set up as required. The software can then automatically keep track of the settings and alert you to any changes.

ENHANCED DEVICE ID WITH ICONS, LABELS AND COMMENTS

Connected Dante devices are identified by a Dante icon as well as a device ID previously set up via the Dante Controller software. You can also enter additional info, such as the location of the device, in the Label and Comment fields.

"LAN MAP LIGHT" FOR SWR2311P-10G

SWR2311P-10G supports the "LAN Map Light" visualization function by WebGUI*. Switch settings can be made on graphical screens, not by command entry. By utilizing WebGUI, it has an extensive monitoring functions such as POE device monitoring setting, restart of PoE device in case of device trouble, setting of mail to notify errors etc. With Yamaha's proprietary communication protocol "L2MS", you can check the IP addresses of the Yamaha network devices such as the SWR2311P-10G, SWR2100P series, and SWP1 and the network devices connected to them.

* Log in to the WebGUI from Yamaha LAN Monitor. Please install Yamaha LAN Monitor in advance.

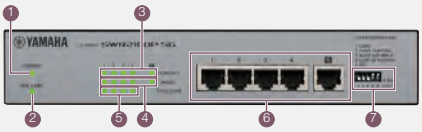
SPECIFICATIONS

		SWR2311P-10G	SWR2100P-10G	SWR2100P-5G
EXTERNAL DIMENSIONS (W X D X H)		220 x 294 x 42.4 mm (Without any protrusion or feet)	220 x 250 x 40.5 mm (Without any protrusion or feet)	
WEIGHT		2.3 kg (without accessories)	1.8 kg (without accessories)	1.6 kg (without accessories)
POWER SUPPLY VOLTAGE AND FREQUENCY		AC100 - 240V, 50/60Hz		
MAXIMUM POWER CONSUMPTION		280 W	90 W	86 W
LAN PORTS	STANDARD	IEEE 802.3 (10BASE-T/100BASE-TX/1000BASE-T)		
	NUMBER OF PORTS	10 ports Ports available for PoE power supply: 8	10 ports Ports available for PoE power supply: 9	5 ports Ports available for PoE power supply: 4
	AUTOMATIC NEGOTIATION	Available		
	CONNECTOR TYPE	RJ-45		
	MAC ADDRESS	Printed on top surface label		
	AUTO MDI/MDI-X	Available		
PoE	STANDARD	IEEE 802.3at		
	POWER SUPPLY SYSTEM	Alternative A		
	MAXIMUM POWER SUPPLY	30W/port, 240W/entire unit	30W/port, 70W/entire unit	
	COMPATIBLE POE POWERED DEVICES	PoE powered devices that comply IEEE 802.3af standards or IEEE 802.3at standards		
COMBO PORTS	LAN PORTS	IEEE 802.3 (1000BASE-T) 2 ports (use is mutually exclusive with SFP ports)	-	
	SFP PORTS	SFP (Small Form-factor Pluggable) 2 ports (use is mutually exclusive with LAN ports)	- -	
MICROSD SLOT	STANDARD	SD/SDHC	-	
	NUMBER OF SLOTS	1 slot	-	
CONSOLE PORT	STANDARD	RS-232C, USB2.0	-	
	CONNECTOR TYPE	RJ-45, USB mini-B (5pin)	-	
	DATA TRANSMISSION SPEED	9600 bit/s	-	
INDICATORS		POWER, microSD, LED MODE, LAN port, SFP port	POWER, PoE LIMIT, LINK/ACT, SPEED, PoE STATE	
OPERATING ENVIRONMENT CONDITIONS	AMBIENT TEMPERATURE	0 to 40°C		
	AMBIENT HUMIDITY	15 to 80%, non-condensing		
STORAGE ENVIRONMENT CONDITIONS	AMBIENT TEMPERATURE	-20 to 50°C		
	AMBIENT HUMIDITY	10 to 90%, non-condensing		
ACCESSORIES		Owner's Manual, power cord (3-prong), power cord, clamp, legs		

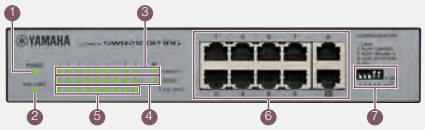
CONTROLS AND CONNECTORS

1. POWER INDICATOR
2. POE LIMIT INDICATOR
3. LINK/ACT INDICATOR
4. SPEED INDICATOR
5. POE STATE INDICATOR
6. LAN PORTS
7. CONFIGURATION SWITCH
8. MINI-USB CONSOLE PORT
9. RJ-45 CONSOLE PORT
10. MICRO-SD INDICATOR
11. MICRO-SD SLOT
12. MODE BUTTON AND MODE INDICATOR
13. LAN/SFP COMBO PORTS
14. COOLING VENTS

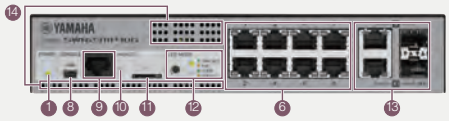
SWR2100P-5G



SWR2100P-10G



SWR2311P-10G



THE FUNCTIONS WHICH CAN BE SET VIA THE CONFIGURATION SWITCHES ARE AS FOLLOWS.

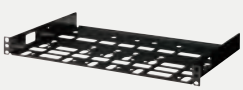


CONFIGURATION SWITCHES

NO.	SETTING FUNCTION	OFF	ON
1	L2MS (Layer 2 Management Service) function	Disabled	Enabled*
2	Flow control	Disabled	Enabled*
3	Auto MDI/MDI-X	Disabled	Enabled*
4	Loop detection function	Disabled*	Enabled
5	Low power consumption mode	Disabled*	Enabled

* This is the factory default setting.

OPTIONAL ACCESSORIES



RACK MOUNT ACCESSORY
RK-SWR (FOR SWR2311P-10G)



WALL MOUNT ACCESSORY
WK-SWR



SFP MODULE
SFP-SWRG-SX



SFP MODULE
SFP-SWRG-LX

RSio64-D

CONFERENCE LIVE BROADCAST

THE EXTENSIVE MINI-YGDAI CARD LINEUP ON A DANTE NETWORK

The **RSio64-D**, the latest addition to the R series, is an audio interface that can convert between Dante and Mini-YGDAI formats for up to 64 inputs and 64 outputs. It provides versatile routing capability as well. Four Mini-YGDAI card slots allow cards for a wide variety of input/output formats as well as processing functions to be connected to a Dante network for live sound, broadcast, recording, post production, and other applications. The **RSio64-D** also supports remote setup from CL and QL series consoles.

Dante™

RSio64-D



- Accepts a wide range of Mini-YGDAI input/output and processing cards
- Seven general routing presets, including routing between Mini-YGDAI cards
- Supports matrix patching from R Remote V3 or a CL/QL series console
- Sample rate converters for all four Mini-YGDAI slots
- EXT DC INPUT for PA700 redundant power supply
- Supports Dante redundancy (primary/secondary)



CL SERIES

Sound, operation, function, and reliability all took a notable evolutionary leap forward with the **CL SERIES** digital live sound consoles. High-end effects created through a convergence of Yamaha VCM technology and expertise from Rupert Neve Designs, refined operability based on the acclaimed Centralogic concept, and flexible remote control functionality provide the most advanced capabilities available for live sound and live recording applications.



QL SERIES

With natural sound inherited from the CL series, outstanding operability, and built-in Dante digital audio network support for flexible system setup, all-in-one **QL SERIES** digital consoles are favorites in a wide variety of sound applications.



NUAGE

First-class control surfaces that bring out the best in Steinberg DAW software plus audio interfaces that thoroughly satisfy the needs of professionals combine in a superior commercial production system solution.

AC ADAPTER FOR PROVIDING REDUNDANT POWER SUPPLY FOR SWP1, SWP2, AND RSIO64-D

- Input power voltage: AC100–240V
- Output power voltage: DC24V
- XLR4-11C type connector
- Dimensions*: 59 (W) x 32 (H) x 139 (D) mm

*without cables



PA-700



64 CHANNEL DANTE / MINI YGDAI AUDIO INTERFACE

	RSio64-D
SAMPLING FREQUENCY (EXT. CLOCK)	44.1kHz, 48kHz, 88.2kHz, 96kHz
SIGNAL DELAY SLOT IN TO SLOT OUT, 96KHZ	less than 0.2 ms
SAMPLE RATE CONVERTOR	SRC clock range 39.7 kHz - 101.7 kHz SRC ratio 1:2.6 to 2.6:1
DANTE	64ch Input / 64ch Output @ 48kHz, 24 bit or 32 bit 32ch Input / 32ch Output @ 96kHz, 24 bit or 32 bit
CONNECTORS	etherCON CAT5e x 2 (Primary, Secondary) Wordclock IN BNC x 1 ext. DC input XLR-4-32 x 1 MY slot x 4
DIMENSIONS (W x H x D)	480 x 88 x 365 mm
WEIGHT	6.1 kg



SEVEN GENERAL ROUTING PRESETS, INCLUDING ROUTING BETWEEN MINI-YGDAI CARDS

To make the **RSio64-D** even more convenient and easy to use as a format converter and router, presets for seven basic routing patterns are built in, including routing between Mini-YGDAI cards. A rotary switch on the front panel allows direct selection of one-to-one Dante/Mini-YGDAI routing, branched Mini-YGDAI/Mini-YGDAI routing, and other options designed to suit a variety of applications. One programmable user setup is also provided.



SUPPORTS MATRIX PATCHING FROM R-REMOTE V3 OR A CL/QL SERIES CONSOLE

Used with the R Remote software application or a CL or QL series console, full matrix patching is supported so that more complex routing can be set up as required.

R-I/O SERIES

CONFERENCE LIVE BROADCAST

Dante™

HIGH-PERFORMANCE REMOTE I/O FOR CL SERIES AND OTHER DIGITAL MIXING CONSOLES

- Sonic performance that brings out the best in any system
- Dante network protocol contributes to greater system scalability and flexibility
- Support for CL series consoles as well as other Dante based systems
- Automatic digital-stage compensation for analog gain changes (CL series only)
- Four models flexibly accommodate any system requirements Rio3224-D2, Rio1608-D2, Ri8-D, Ro8-D



Rio3224-D2



Rio1608-D2



Ri8-D



Ro8-D

DANTE RACK I/O

	Rio3224-D2	Rio1608-D2	Ri8-D	Ri8-DEC	Ro8-D	Ro8-DEC
ANALOGUE INPUTS	32	16	8	8	-	-
ANALOGUE OUTPUTS	16	8	-	-	8	8
DIGITAL OUTPUTS	4 pair AES/EBU	-	-	-	-	-
NETWORK I/O	32X24 Dante (AES67)	16x8 Dante (AES67)	8x0 Dante (AES67)	8x0 Dante (AES67)	0x8 Dante (AES67)	0x8 Dante (AES67)
CONNECTORS	32 XLR In / 16 XLR Out 4 x AES/EBU XLR 2x EtherCON	16 XLR In / 8 XLR Out 2x EtherCON	8 XLR In 2 x RJ45	8 XLR in 2 x EtherCON	8 XLR Out 2 x RJ45	8 XLR Out 2x EtherCON
HEAD AMP CONTROL	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	n/a	n/a
DANTE DEVICE LOCK / DDM	yes	yes	yes	yes	yes	yes
REDUNDANT POWER SUPPLY UNITS	yes	yes	no	no	no	no
DISPLAY	yes	yes	no	no	no	no

RMio64-D

LIVE BROADCAST

DANTE/MADI CONVERSION FOR BROADCAST AND LIVE APPLICATIONS

- Bridging formats with seamless efficiency
- Dante Redundancy for resilient infrastructure
- MADI redundancy via alternative cable types
- Dual MADI connectors offer more than just conversion
- Tight integration for QL, CL and Nuage series



RMio64-D

DANTE / MADI BRIDGE	
RMio64-D	
AUDIO FORMAT	MADI (AES10-2008), 64 channels i/o 24-bit @ 48kHz
AUDIO NETWORK PROTOCOL:	Dante, 64 channels i/o 24-bit
SUPPORTED SAMPLE RATES	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4khz, 192khz
SRC	SRC lock range 38.59khz – 216khz, SR ratio limit 6:1
CONNECTORS	MADI IN/OUT: BNC, SC Dante Primary & Secondary: etherCON 1000Base-T Wordclock: BNC IN, IN SRC, OUT

LIVE BROADCAST

NIO SERIES

HIGH PERFORMANCE AES/EBU AND LINE LEVEL AUDIO I/O UNITS

- SONIC PERFORMANCE UP TO 192KHZ
- DANTE NETWORK PROTOCOL CONTRIBUTES TO GREATER SYSTEM SCALABILITY AND FLEXIBILITY
- AES/EBU, ANALOGUE LINE LEVEL AND COMBINED MODELS
- WORDCLOCK AND SYSTEM LINK, REDUNDANT DANTE CONNECTION



NIO-A16



NIO-D16



NIO-A8D8

	NIO-A16	NIO-D16	NIO-AD8D8
CONFIGURATION	16 analogue line level I/O	16 AES/EBU I/O (8 pairs)	8 analogue line level I/O + 8 AES/EBU I/O (4 pairs)
SAMPLING FREQUENCY	Internal	44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192kHz	
	External	44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192kHz	±200ppm
FREQUENCY RESPONSE	±0.5dB, 20Hz-20kHz,ref to the nominal output level @1kHz, Input&Output Gain:0dB, Input level +4dBu(typ)		
THD+N *1	Less than 0.005%, input to output, GAIN:0dB		
DYNAMIC RANGE	120dB typ.,ADC		
CROSSTALK@1KHZ	-100dB, CH1-16 , adjacent inputs		
POWER REQUIREMENTS (WATTAGE)	51W	51W	51W
POWER REQUIREMENTS	Other: 110-240V 50/60Hz		
DIMENSIONS (W X D X H)	480 x 369 x 88 mm (18-7/8" x 14-1/2" x 3-1/2")		
NET WEIGHT	6.4 kg	6.7 kg	6.7 kg
INCLUDED ACCESSORIES	Power cable, Ferrite core, Ruber stoppers (4), Operation Manual		

MLA8

CONFERENCE PRODUCTION BROADCAST

8-CHANNEL MIC/LINE AMPLIFIER

EIGHT-CHANNEL MICROPHONE AND LINE PREAMPLIFIER INHERITS ACCLAIMED DM2000 HEAD-AMP TECHNOLOGY

- Unparalleled articulation and sonic quality descended from Yamaha's internationally acclaimed digital mixing consoles.
- 26 dB pad, adjustable 44 dB gain trim, 80 Hz high-pass filter, and phantom-power switch on each channel in a space-saving 1U design.
- Convenient color-coded control interface.
- XLR connectors are provided for audio input, while output connections can be made via either D-sub 25-pin or Euroblock connectors.
- The D-sub 25-pin connector is compatible with the MY8-AD96 8-channel Mini-YGDAI A/D card, providing seamless connectivity with Yamaha digital mixers.



MLA8

8-CHANNEL MIC/LINE PRE-AMPLIFIER

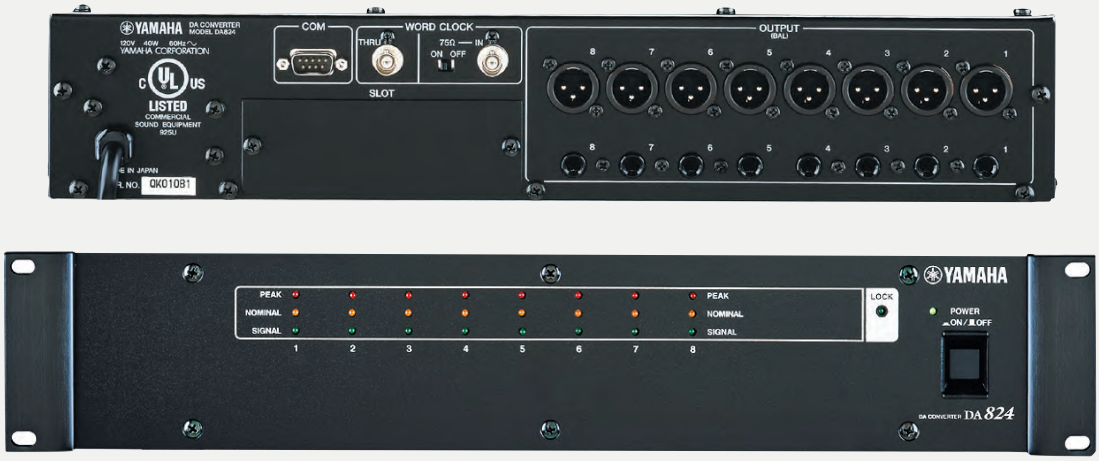
	MLA8
ANALOGUE INPUTS	8
ANALOGUE OUTPUTS	2 x 8 (splitter)
INPUT CONNECTORS	8x XLR
OUTPUT CONNECTORS	8x EuroBlock 1x D-Sub 25 pin

DA824

D/A CONVERTER

RELIABLE, HIGH-QUALITY 24 BIT/48 KHZ CONVERSION OF 8-CHANNEL DIGITAL AUDIO INPUT INTO ANALOG OUTPUT

- High quality 24-bit digital-to-analog converters
- Balanced XLR and 1/4" phone jack output connectors
- Maximum +4, +15, +18, or +24 dBm output level individually selectable for each channel
- Expansion slot supports optional mini-YGDAI cards for AES/EBU, ADAT and TASCAM digital format
- Word clock input and thru connectors
- Signal, nominal, and peak LED indicators



DA824

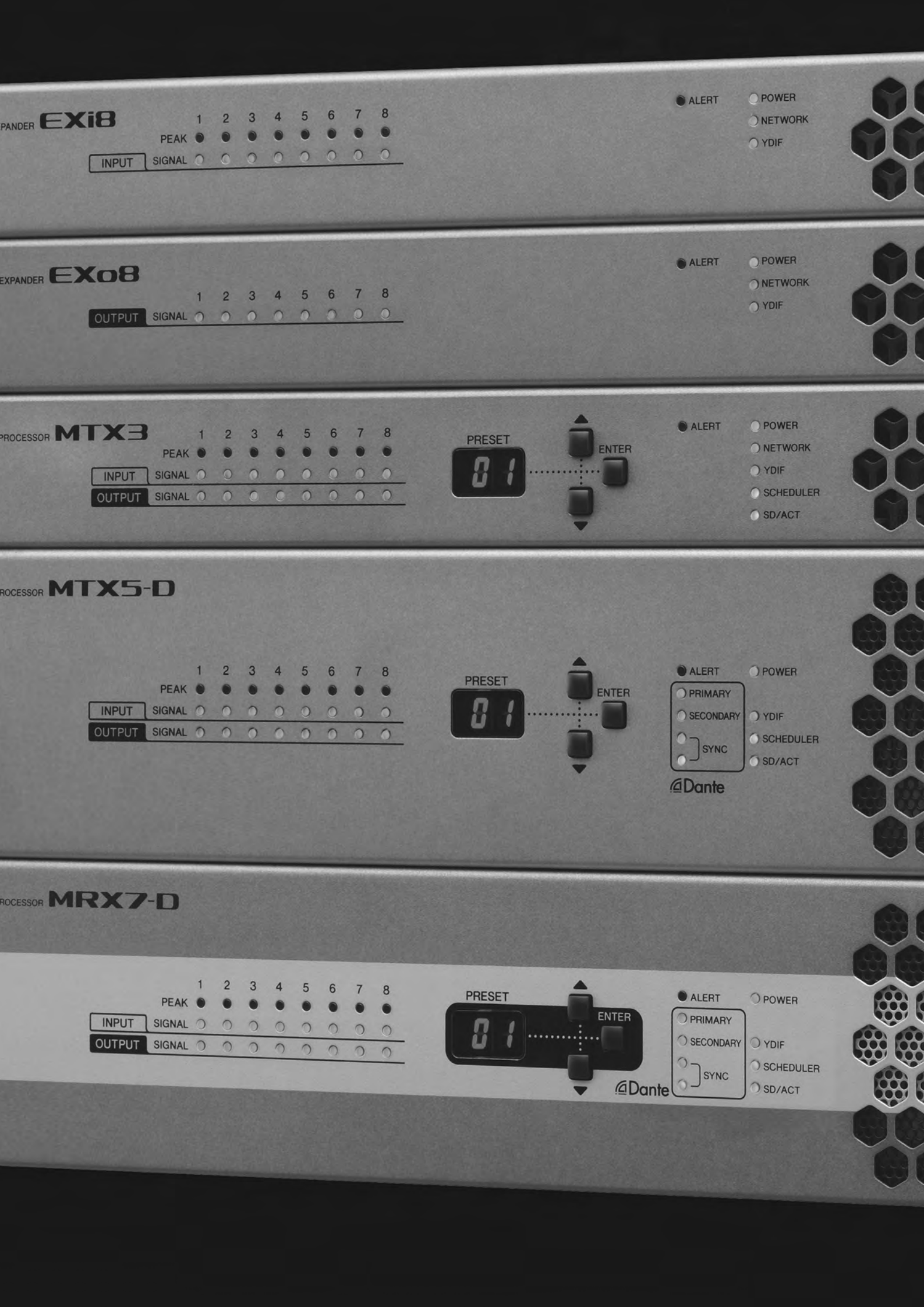
8 CHANNEL D/A CONVERTER

	DA824
ANALOGUE OUTPUTS	8 line level
INPUTS	MY8 compatible slot
CONNECTORS	outputs: XLR, jack D-Sub 9 pin (COM) BNC (Wordclock In, Out)



NEXT

SIGNAL PROCESSORS


PANDER EXi8
1 2 3 4 5 6 7 8
PEAK
INPUT SIGNAL
ALERT
POWER
NETWORK
YDIF
EXPANDER EXo8
1 2 3 4 5 6 7 8
OUTPUT SIGNAL
ALERT
POWER
NETWORK
YDIF
PROCESSOR MTX3
1 2 3 4 5 6 7 8
PEAK
INPUT SIGNAL
OUTPUT SIGNAL
PRESET
01
ENTER
ALERT
POWER
NETWORK
YDIF
SCHEDULER
SD/ACT
ROCESSOR MTX5-D
1 2 3 4 5 6 7 8
PEAK
INPUT SIGNAL
OUTPUT SIGNAL
PRESET
01
ENTER
ALERT
POWER
PRIMARY
SECONDARY
SYNC
YDIF
SCHEDULER
SD/ACT
Dante
ROCESSOR MRX7-D
1 2 3 4 5 6 7 8
PEAK
INPUT SIGNAL
OUTPUT SIGNAL
PRESET
01
ENTER
ALERT
POWER
PRIMARY
SECONDARY
SYNC
YDIF
SCHEDULER
SD/ACT
Dante

MTX SERIES

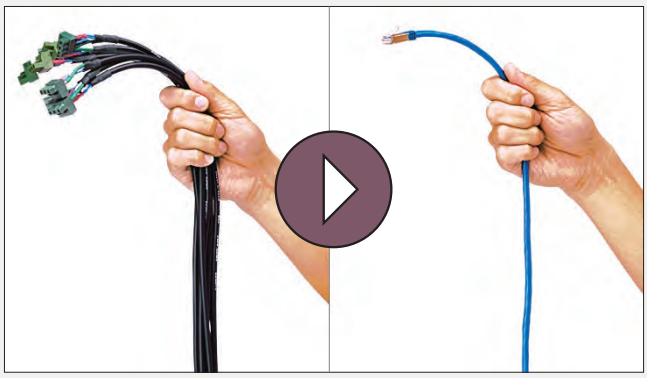
CONFERENCE

BACKGROUND MUSIC



MTX – THE IDEAL DIGITAL SIGNAL PROCESSOR FOR SMALL TO MID-SIZE COMMERCIAL APPLICATIONS

Designed primarily for multi-zone commercial installations, **MTX SERIES** matrix processors are equipped with flexible processing functions that are essential to a wide variety of applications such as retail stores, restaurant/bars or conference rooms. Responsible for the primary processing functions at the heart of your system's design, MTX processors allow you to configure, program, and manage your entire sound solution via the intuitive interface of the accompanying MTX-MRX Editor software applications. The series is comprised of two models with varying DSP capacities and expansion capabilities, allowing MTX processors to meet the demands of a truly impressive range of commercial environments.



YDIF – AT THE HEART OF THE CIS SERIES LINE-UP

MTX processors feature the newly developed YDIF digital transmission format; a unique proprietary Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ethernet cable. YDIF can be used for cascading multiple MTX Series or for feeding audio signal to XMV Series power amplifiers with very simple cabling up to 30 metres.



YDIF

Dante™





MTX SERIES processors come equipped with a variety of programmable features designed to maximize the performance of sound systems in commercial installations. With a focus on reliability and worry-free operation, functions such as Feedback Suppressor can automatically locate and eliminate acoustic feedback, while Auto Gain Control maintains a constant output level when input signals vary. For ancillary applications or environments that require public speaking, MTX processors feature a Priority Ducker function which automatically attenuates the output level a specified amount when the input signal from a separate sound source exceeds its threshold – as well as an Ambient Noise Compensator which adjusts system gain to compensate for fluctuating background noise. The Dan Dugan automixer (4ch on MTX3, 8ch on MTX5-D) provides world class automixing functionality. Combined with an onboard speaker processor for optimized speaker performance and sound quality, the **MTX SERIES** makes it easy to design and configure a complete audio system from input to output.

Control of MTX based systems can be offered through the WIRELESS DCP app for iOS and Android devices, through the PROVISIONAIRE TOUCH and PROVISIONAIRE TOUCH KIOSK apps for iPad and through the PROVISIONAIRE CONTROL app for Windows.





DCP SERIES

Up to 8 **DCP SERIES** control panel units can be daisy-chained over distances of up to 200 meters via CAT5e Ethernet cable. Power is also supplied via the CAT5e cable, allowing control panels to be installed at any convenient locations.



EU STANDARDIZED SIZE MODELS

PGM1 PAGING STATION

The PoE powered Dante enabled paging station **PGM1** comes with eight buttons and a gooseneck microphone for use with MTX5-D and MRX7-D, and can be expanded to 24 buttons by adding up to two PGX1 expansion units. The SWR series PoE switches can be used to connect PGM1 paging stations to the MTX series processors.



PAGE 174



MCP LCD WALL MOUNT PANEL

Up to 16 MCP1 PoE powered wall mount panels can be used with MTX and MRX7-D systems. The MCP1's dot matrix display and 6 buttons support multiple languages and dynamic labelling.

PAGE 174

MTX

CONFERENCE

BACKGROUND MUSIC

MATRIX PROCESSOR EQUIPPED WITH A VARIETY OF PROGRAMMABLE FEATURES DESIGNED TO MAXIMIZE THE PERFORMANCE OF SOUND SYSTEMS IN COMMERCIAL INSTALLATIONS.

- Inputs; 8 mono (mic/line), 2 stereo (line), 16digital (via YDIF*) .
- Outputs; 8 mono (line), 16 digital (via YDIF*) .
- I/O configuration can be expanded by Exi/Exo expanders via the YDIF* interface
- 16 Channel I/O on-board Dante network port for larger installations. (MTX5-D only)
- MY card slot offers further expandability and compatibility with other audio formats. (MTX5-D only)
- SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card.
- Functions for worry-free operation; Feedback Suppressor, Auto Gain Control, Priority Ducker, Ambient Noise Compensator.
- Two useful digital processors “Reverb” and “Echo” for entertainment applications.
- Remotely control the volume and presets of multiple zones with DCP and MCP series wall mount digital controllers.
- Up to 24 zone paging with the PGM1 paging station (MTX5-D and MRX7-D only).
- Dan Dugan automixer: 4 channels on MTX3, 8 channels on MTX5-D.
- Wireless DCP for iPhone, iPod Touch and Android devices are available on the App store and Google Play store.
- ProVisionaire Touch, ProVisionaire Touch Kiosk iPad apps and the ProVisionaire Control Windows app provide free programmable graphic user interfaces.
- Equipped with Network port and GPI ports that offer compatibility with media control systems.
- Easy setup and parameter control with MTX-MRX Editor.



MTX5-D



MTX3

	MTX5-D	MTX3
MATRIX INPUT CHANNELS	34	26
MATRIX OUTPUT CHANNELS	16	8
MIC/LINE INPUTS	8 Euroblock	8 Euroblock
STEREO INPUTS	2 cinch	2 cinch
ANALOGUE OUTPUTS	8 Euroblock	8 Euroblock
MY CARD SLOT	1	–
YDIF I/O INTERFACE	2 x RJ45	2 x RJ45
DANTE I/O INTERFACE	2 x RJ45 (16/16)	–
GPI I/O	16/8 Mini Euroblock	8/4 Mini Euroblock
DCP INTERFACE	1 x RJ45	1 x RJ45
RS232/RS422	1 x D-Sub 9 pin	1 x D-Sub 9 pin
SD CARD SLOT	1	1
DIMENSIONS (W x H x D)	480 x 88 x 366 mm (19" 2U)	480 x 44 x 362 mm (19“ 1U)
WEIGHT	6.5 kg	4.8 kg

*YDIF: the newly developed digital transmission format; a unique propriety Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ether cable.

INPUT EXPANDER/OUTPUT EXPANDER

✹ EXI8 INPUT EXPANDER

YDIF 1U

EXI8 INPUT EXPANDERS convert analog microphone/line audio to digital and transmits the signal using Yamaha's YDIF format. The EXi8's preamps can be controlled remotely from an MTX processor via Ethernet cable.

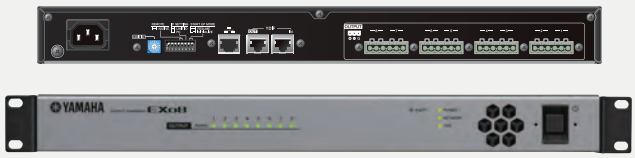
✹ EXO8 OUTPUT EXPANDER

YDIF 1U

EXO8 OUTPUT EXPANDERS feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX Series processors via YDIF.



EXI8



EXO8

	EXI8	EXO8
MIC/LINE INPUTS	8	–
ANALOGUE OUTPUTS	–	8
INPUT CONNECTORS	8 x Euroblock	–
OUTPUT CONNECTORS	–	8 x Euroblock
YDIF I/O INTERFACE	2 x RJ45	2 x RJ45
DIMENSIONS (W x H x D)	480 x 44 x 351 mm (19" 1U)	480 x 44 x 351 mm (19" 1U)
WEIGHT	4.3 kg	4.3 kg

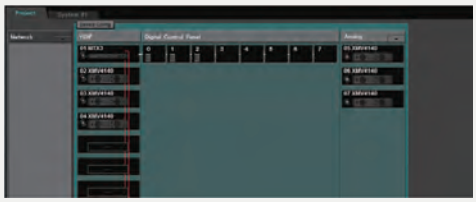
MTX-MRX EDITOR FOR MTX

MTX-MRX EDITOR allows you to design sound systems for small to mid-size installations built around MTX Series processors. With a workflow that closely emulates the actual physical configuration of an installation application, MTX-MRX Editor's wizard guides you through a simple yet thorough step process. What's more, in addition to the MTX Series, MTX-MRX Editor lets you incorporate EXi8 and EXo8 expanders, DCP, MCP, PGM Series digital control panels, and even XMV Series power amplifiers into your system and adjust parameter settings accordingly. With MTX-MRX Editor, you can design, configure and manage a complete installation audio system from microphones right through to speakers – with a single program.

THE WORKFLOW OF MTX-MRX EDITOR

DEVICE CONFIGURATION

By simply following the instructions of the MTX-MRX Editor wizard, you can easily configure a complete sound system comprised of MTX Series matrix processors as well as XMV Series power amplifiers, DCP, MCP1 Series digital control panels, Rio/ Tio series i/o racks, PGM1 paging stations, or EXi8/ EXo8 expanders.



MTX SERIES PARAMETER SETTINGS

Once your system is configured you can set the parameters for the MTX Series. The Main window gives you an overview of each channel's settings and the Channel Edit window lets you adjust each of the selected channel's parameters in detail.



INPUT PROCESSING SETTINGS

By selecting GAIN/HPF/EQ you can adjust 3-Band PEQ settings for each input channel, as well as each microphone channels' HPF. GATE/COMP sets Gate and Compressor parameters and FBS/AGC features feedback suppressors that eliminate acoustic feedback, as well as the Auto Gain Control function that maintains a constant output level with input signals that vary in level.





MATRIX/PRIORITY PROCESSING SETTINGS

In the matrix mixer, the input channels and output buses are arranged in a checkerboard configuration. You can adjust the group balance for each output bus, or use the faders to adjust the signal from all input channels to a specific matrix bus when Sends On Faders mode is enabled.

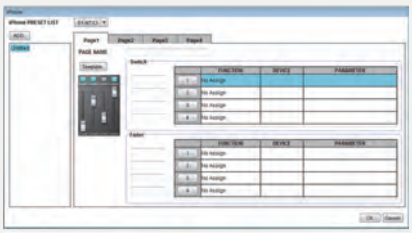


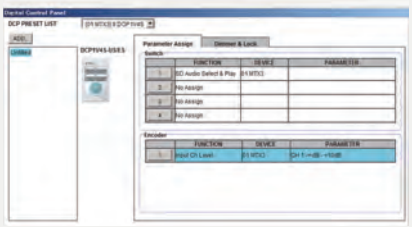
The signal from the matrix mixer is sent to 8 units of Priority Processor. Here, you can make detailed adjustments to the parameter settings of the Ducker function as well the Ambient Noise Compensator.



OUTPUT PROCESSING SETTINGS

After Priority Processor settings have been applied, signals are sent to output channels through the Router. Each output channel is equipped with a 4 Band PEQ, Delay and Speaker Processor. The Speaker Processor has stored presets for a range of Yamaha speakers allowing you to easily select the optimum settings for the speakers in your system. Settings for 4-Band PEQ and Delay can also be adjusted to match the audio output with the acoustic characteristics of various installation environments.





EXTERNAL CONTROLLER SETTINGS

MTX-MRX Editor can also be used to configure the settings of external controllers. MTX processing functions can be easily assigned to the switches and knobs of DCP and MCP Series wall-mounted controllers, the PGM1 paging station, or to the dedicated PC/iPhone/ Android software application.



DAN DUGAN AUTOMIXER

Dan Dugan automixers are available to support conference applications. 4 channels can be used on MTX3, 8 channels can be used on MTX5-D.

MRX7-D

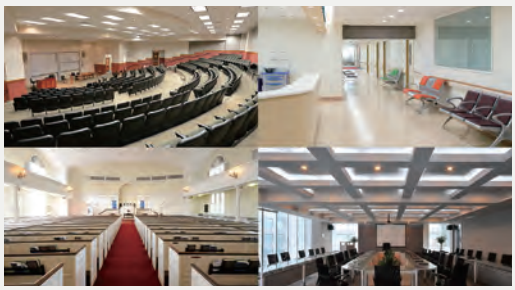
CONFERENCE | BACKGROUND MUSIC | LIVE | ACOUSTICS | BROADCAST

SIGNAL PROCESSOR
MRX7-D



SIMPLE, FLEXIBLE CONTROL FOR COMPLEX, HIGH-CAPACITY SOUND SYSTEMS

Sound system requirements for corporate conference rooms, educational facilities, shopping malls, and a variety of other environments are becoming increasingly large and complex. The MRX7-D offers outstanding control efficiency and flexibility for a broad spectrum of audio installations.



FEATURES FOR A WIDE RANGE OF INSTALLATION NEEDS

AEC (Acoustic Echo Canceller) for remote conferencing systems, automatic mixing for multiple microphone inputs, a speech privacy function that can mask conversations in hospital or corporate systems where confidential information must be protected, and more. The MRX7-D offers a comprehensive range of components that offer effective solutions for a variety of issues faced in today's audio installations.



LARGE SCALE SYSTEM SUPPORT

Built-in Dante digital audio networking capability makes it easy to set up systems of just about any scale while significantly reducing cabling cost and labor. Dante capable devices can be added to the system at any time, allowing flexible reconfiguration and expansion as needed.



FLEXIBILITY AND OPERATION EASE

As the scale and control requirements of an audio system grow, the number of devices required and overall complexity increase correspondingly. With the MRX7-D and dedicated MTX-MRX Editor software, input and output devices can be quickly arranged via a software wizard and internal MRX7-D processing components can be combined as needed. One simple software application provides everything needed for comprehensive system design and management.



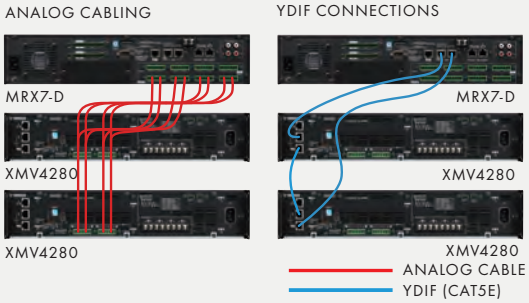


MRX7-D

AMPLE I/O AND EXPANSION CAPABILITY

- 8 mono microphone/line inputs and 2 stereo line inputs, 8 analog mono outputs
- 64 in/out Dante capacity supports large digital audio networks
- I/O expansion via YDIF connected MTX series matrix processor, EXi8 input expander, and EXo8 output expander units
- High expandibility offered by Mini-YGDAY card slot





DANTE – The MRX7-D, MTX series matrix processors, XMV series power amplifiers, and other Dante equipped devices can be easily connected via CAT5e or better Ethernet cables and gigabit switches to provide audio data networking in streamlined sound systems of any scale.

YDIF is an original Yamaha digital audio protocol that allows standard CAT5e Ethernet cable to be used for bidirectional transfer up to 16 channels of audio plus word clock signals over distances of up to 30 meters. It allows cascading of multiple MTX series units as well as signal transfer to XMV series power amplifiers via connections that are fast and simple to set up.



The MRX7-D features one Mini-YGDAI card slot that can accommodate cards supporting a variety of audio formats, and expansion by up to 16 I/O channels.



An SD memory card slot allows direct playback of MP3/WAV format audio files.

	MRX7-D
MEMORY BANK	PRESETS: 50
SAMPLING FREQUENCY RATE	48kHz/44.1kHz
SIGNAL DELAY	1.9 msec (AD-DA @48kHz)
TOTAL HARMONIC DISTORTION*	0.05% (+4dBu, Gain:-6dB, 48kHz) 0.1% (+4dBu, Gain: +66dB, 48kHz)"
FREQUENCY RESPONSE	20Hz to 20kHz: max:+0.5dB, min:-1.5dB
DYNAMIC RANGE	107dB (typ. Gain:-6dB)
PHANTOM POWER	+48V
CROSSTALK (@1KHZ)	-100dB
HEAT DIFFUSION	55.9kcal/h max
POWER REQUIREMENTS	AC100V-240V 50Hz/60Hz
POWER CONSUMPTION	65W
DIMENSIONS (W x H x D)	480 x 88 x 366 mm (19" 2U)
WEIGHT	6.5 kg
INCLUDED ITEMS	Power cord, Euroblock plugs (3-pin, tabbed) x16, Euroblock plugs (16-pin) x2, Cable Ties, Manual

BROAD SUPPORT FOR EXTERNAL CONTROLLERS

CONTROLLER COMPATIBILITY CHART

	ProVisionaire Control	ProVisionaire Control KIOSK	ProVisionaire Touch	ProVisionaire Touch KIOSK	MCP1	PGM1	DCP	Wireless DCP
UI DESIGN	✖		✖					
CONTROL	✖	✖	✖	✖	✖	✖	✖	✖
SIGNAL PROCESSOR MTX, MRX SERIES	✖	✖	✖	✖	✖	✖*	✖	✖
POWER AMP XMV SERIES	✖	✖	✖	✖				
POWER AMP MA/PA SERIES							✖	
POWER AMP NXAMP SERIES	✖	✖	✖	✖				
VXL1-16P POE SPEAKER	✖	✖	✖	✖				
DIGITAL MIXER CL, QL, TF SERIES	✖	✖	✖	✖				
I/O DEVICE EX, R, T I/O SERIES	✖	✖	✖	✖				
MUSICCAST			✖	✖				
BLU-RAY DISK PLAYER			✖	✖				
DISKLAVIER			✖	✖				
SUPPORT OS	Windows	Windows	iPad	iPad	Hardware	Hardware	Hardware	iPhone, iPod touch, iPad, Android

* MRX7-D, MTX5-D only

DCP

DIGITAL CONTROL PANELS – DCP Series Digital Control Panel provide flexible external control of several functions such as preset recall, levels, and SD card playback. All three models are available in either US or EU standardized sizes, built to meet the specifications of most regions around the globe.

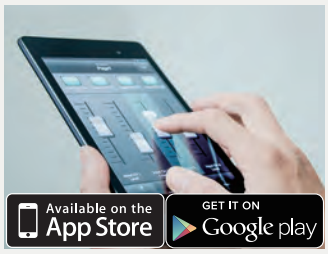








DCP1V4S	DCP4S	DCP4V4S	DCH8
1 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series	4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series	4 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series	DCP Hub for star topology connection of up to 8 DCP panels



WIRELESS DCP

Wireless DCP allows remote control from an iPad, Android smart device, or other compatible device. This is an easy, intuitive way to control volume, select presets, and control SD player operation from a convenient location.

* Wireless DCP can be downloaded from Apple's App Store and Google Play at no charge. Provisionaire Touch can be downloaded from Apple's App Store at no charge. App Store is a service mark of Apple Inc. Android and Google Play are trademarks of Google Inc.).

MCP1/PGM1

MCP1 PoE WALL MOUNT CONTROLLER

The Yamaha **MCP1** is an advanced wall-mount control panel for controlling MTX and MRX systems. Its dot-matrix display and universal character support facilitates dynamic labelling. Up to 36 parameters can be assigned to either the main Home page or any of the six sub pages. Any of these pages can be secured from unauthorized access by using a programmable PIN code. Up to 16 units of MCP1 can be added to an MTX/MRX system.



MCP1

- 6 buttons can be assigned to any function
- MTX/MRX series functions (components) are specified via the MTX-MRX Editor
- Multi-language displays supported
- Four user levels for access management
- Up to 16 units can be connected per system
- PoE powered
- On and In-Surface mount adaptor supplied

PGM1 PAGING STATION

The **PGM1** is a Dante enabled paging station with 8 buttons and gooseneck microphone for use with Yamaha MTX5D and MRX7-D processors. By adding up to 2 PGX1 expansion panels, the PGM1 can be used to support up to 24 paging destinations. The microphone paging signal is available over the network through Dante.

- Dante network support
- PoE powered
- Up to 2 PGX1 Function Expansion panels can be added
- Up to 24 buttons can be assigned to any destination via the MTX-MRX Editor design software
- Up to 4 units can be connected per system



PGM1

THE SWR SERIES POE SWITCHES CAN BE USED TO CONNECT MCP1 WALL MOUNT PANELS AND PGM1 PAGING STATIONS TO THE MTX AND MRX SERIES PROCESSORS

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PROVISIONAIRE TOUCH & PROVISIONAIRE CONTROL

FLEXIBLE DESIGN AND A VARIETY OF CUSTOM CONTROL PANELS

Yamaha provides a versatile range of remote control options to suit the various installation types as well as the customer's unique requirements. These range from simple wall panel remotes to fully customizable software based control for either iOS or Windows based platforms.

ProVisionaire Control



PROVISIONAIRE SERIES – ProVisionaire provides an easy, intuitive way to create original controllers that are ideally configured for the target installation. Multiple design pages are available so that different control panels can be provided for different audio zones and/or users, with presets and parameter settings optimized for each. No specialized programming skills are required. An intuitive interface makes it easy to create faders for volume control and switches for source selection.

PROVISIONAIRE CONTROL – ProVisionaire Control can operate a wide range of Yamaha PA equipment such as MTX/MRX series signal processors, CL/QL/TF series digital mixers, the Rio and Tio series I/O racks and the XMV series power amplifiers. The software programmer can define which parameters from their selection of products are to be included in the ProVisionaire Control design, thus creating a completely customized control surface for their client. ProVisionaire Control offers a total Yamaha control solution.

ProVisionaire Control can be downloaded free of charge from the Yamaha website.



ProVisionaire Touch

PROVISIONAIRE TOUCH

This handy iPad application allows MTX/MRX system control via a Wi-Fi network, also supporting Yamaha XMV and NEXO NXamp power amplifiers, Ex / R I/O / T I/O units, CL, QL and TF-rack mixing consoles, MusicCast devices such as WXC-50, Receivers, Blue Ray players and Disklavier Enspire. A variety of control widgets can be arranged as required to create custom control panel layouts that are ideally configured for individual systems.

ProVisionaire Touch can be downloaded from Apple's App Store at no charge.(Apple, iPad are trademarks of Apple Inc., registered in the U.S and other countries. App Store is a service mark of Apple Inc.).

MEDIA CONTROL SYSTEMS

The MRX7-D includes RS232C and Ethernet connectors that facilitate connection to a variety of external controllers such as those manufactured by AMX and CRESTRON®.

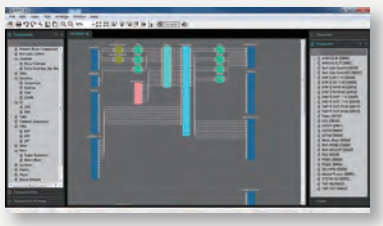
MTX-MRX EDITOR FOR MRX

The **MTX-MRX EDITOR** software facilitates sound system design with a workflow that simulates standard installation procedure. An easy-to-use wizard lets you start by arranging the devices to be used in the desired layout, then processing components can be added wherever needed. MTX series matrix processors, EXi8 input expanders, EXo8 output expanders, XMV series power amplifiers, and DCP digital control panels can be added according to the needs and scale of the application. The **MTX-MRX EDITOR** provides comprehensive, intuitive tools for designing sound systems from input to output.



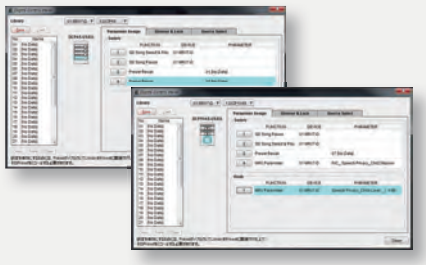
DEVICE LAYOUT WIZARD

In addition to the MRX7-D, the wizard allows MTX series matrix processors, XMV series power amplifiers, DCP and MCP1 digital control panels, Rio and Tio series i/o racks, PGM1 paging stations and EXi8/EXo8 input and output expanders to be added and arranged as needed.



COMPONENT CONFIGURATION

The MRX7-D features a versatile range of built-in processing components: faders, ON/OFF switches, matrix source selectors, GEQ, Dugan automatic mixing, speech privacy, echo canceller, and more. Simply select the required components and arrange them via a graphical interface.



EXTERNAL CONTROLLER SETUP

Parameters that will be available to the end user can be specified via the MTX-MRX Editor. A variety of external controllers can be accommodated to ideally match the requirements of each installation.

COMPONENT

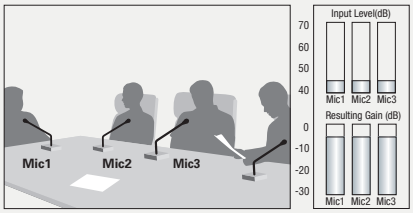
- Ambient Noise Compensator
- Auto Gain Control
- Acoustic Echo Canceller
- Combiner (Room Combiner, Room Combiner plus Automixer, Delay)
- Dynamics (Compressor, Ducking, Gate, Limiter)
- EQ (GEQ, PEQ)
- Fader
- Feedback Suppressor (Pitch shift & Notch type)
- Filter (HPF, BPF, LPF)
- Meter
- Mixer (Dugan Automixer, Matrix Mixer, Delay Matrix)
- Oscillator
- Polarity
- Router
- Source Selector
- Speaker Processor
- Speech Privacy
- Paging
- Audio detector
- Delay
- Revolabs Executive Elite control



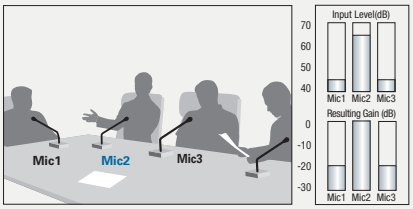
MRX7-D COMPONENTS

CONFERENCE ROOMS, BANQUET HALLS, HOSPITALS, AND MORE: BUILT-IN SOLUTIONS FOR DIVERSE NEEDS

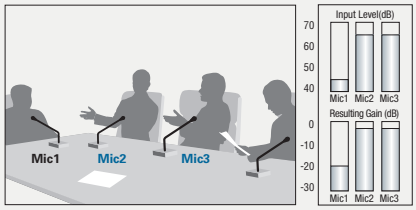
DUGAN AUTOMIXER – PREVENT FEEDBACK AND UNWANTED PICKUP WITH MULTIPLE MICROPHONES



When nobody is speaking the input level at all microphones is low and the gain is equal. Rather than being muted, gain is distributed equally between all microphones.



When one person is speaking the gain of that person's microphone is instantly increased to 0dB while the gain of the remaining microphones is lowered. The same occurs when any other one person is speaking.

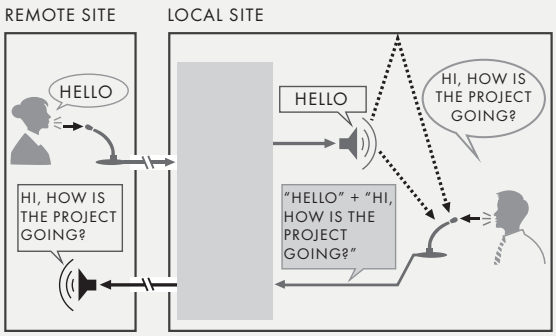


If two people speak simultaneously the gain distribution between the active microphones is adjusted to achieve consistent overall gain, while the gain of the remaining microphone is lowered.

ACOUSTIC ECHO CANCELLER – ELIMINATE REMOTE CONFERENCING ECHO FOR MAXIMUM INTELLIGIBILITY

In remote conferencing situations speech from the remote location emanating from the local speaker can be pickup up by the local microphone and returned to the remote location in addition to the local speech. This type of echo can significantly degrade the intelligibility of the sound heard at the remote location.

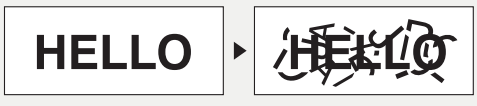
The Acoustic Echo Canceller effectively suppresses this type of unwanted echo, maximizing clarity and intelligibility. The sound received at the microphone is compared with the sound emanating from the speaker and analyzed. An adaptive filter is employed to subtract the speaker output from the microphone input, preventing the speaker output from being returned as an echo by the microphone. Please note that this function is not designed to eliminate the room's own acoustic reflections or reverberation.



SPEECH PRIVACY SYSTEM – KEEP CONFIDENTIAL INFORMATION IN THE CONFERENCE ROOM

The need to protect privacy in conference rooms and meeting areas, particularly in financial or medical institutions, is a growing concern. The Speech Privacy System uses an original sonic masking technique to prevent leakage of confidential information.

Rather than masking the conversation with high volume noise, an "information masking tone" synthesized from elements of human speech using an original process effectively camouflages spoken information. This approach allows the information to be protected by relatively low volume masking, helping to maintain the comfort of the conference environment.



Sound synthesized from human speech renders conversation unintelligible to eavesdroppers. This function does not silence the sound of the conversation.

DME

FREE CONFIGURABLE PROCESSORS

With unparalleled DSP power the Yamaha **DME64N** and **DME24N** Digital Mixing Engines offer customizable audio system solutions for a wide range of applications. These versatile mixing engines offer an impressive array of DSP components that can be combined and programmed to precisely accommodate just about any audio requirements – even in highly complex systems. Superior sound quality, generous DSP power, extensive scalability, and network capability – all supported by an intuitive interface – offer unprecedented freedom and efficiency for designing audio systems for installations and live sound.



DME24-N



DME64-N

	DME24-N	DME64-N
PROCESSING I/O CHANNELS	24	64
MIC/LINE INPUTS	8	–
LINE OUTPUTS	8	–
MY CARD SLOTS	1	4
GPI	8 in / 8 out	16 in / 16 out
MIDI	in / out / thru	in / out / thru
RS232C/RS422	D-Sub 9 pin	D-Sub 9 pin
USB	Yes	Yes
ETHERNET	100Mb	100Mb
DIMENSIONS (W x H x D)	480 x 101 x 412 mm (19" 2U)	480 x 145 x 412 mm (19" 3U)
WEIGHT	8 kg	9.5 kg



CP4SF

wall mount control panel for DME series: 4 faders + 4 switches + 4 LEDs. GPI connection through Euroblock I/O



CP4SW

wall mount control panel for DME series: 4 switches + 4 LEDs. GPI connection through Euroblock I/O



CP1SF

wall mount control panel for DME series: 1 switch + 1 LED. GPI connection through Euroblock I/O

✹ **ATTENTION:** The hardware specification for DME Firmware V3.8x or later differs from the one for Firmware V3.5x or earlier. Therefore firmware V3.5x or earlier cannot be upgraded to V3.81 or later. Also, firmware V3.81 or later cannot be downgraded to V3.5x or earlier.

DME DESIGNER

A COMPONENT APPROACH TO VERSATILE SYSTEM DESIGN

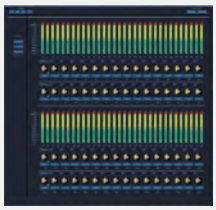
Yamaha DME processors include a variety of components for an extensive range of applications. There are crossovers and other speaker processing essentials. Dynamics processors such as companders, compressors, and gates are indispensable for general audio processing. EQ is necessary in most applications, so a dazzling array of equalizers is provided. WAV players, event schedulers, and other functions provide advanced capabilities and operability for commercial installations. For effortless speech processing there's Auto Gain Control. A Room Combiner facilitates flexible zoning for applications such as hotels and banquet halls. And automated functions like the Program Ducker can be a huge advantage for live broadcasts. No matter what the application, there are DME components that will significantly enhance performance and efficiency.

MATRIX MIXER

A number of matrix mixers with up to 64 x 64 matrix mixing capability are included. There's also a Delay Matrix Mixer that provides delay parameters for each matrix point, enabling level control and time alignment in a single convenient component.



INPUT MASTER



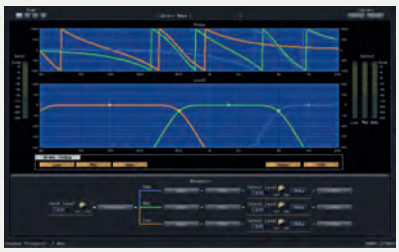
OUTPUT MASTER



64 X 64

SPEAKER PROCESSING

Speaker processing can be essential for achieving maximum performance from professional speaker systems as well as for delivering optimum sound quality throughout the listening area. DME processors include everything needed for precision speaker tuning and room matching: versatile crossover processors with APF (All Pass Filter for phase control), horn EQ, delay, limiter functions and more.



SPEAKER PROCESSOR



PEQ8

ROOM COMBINER

The Room Combiner component adds multiple audio signals to "virtually" combine the acoustic spaces of multiple rooms. Mono and stereo components that combine 4, 8, 12, or 16 rooms are available. This component provides an effective solution for situations in which several rooms or areas can be physically partitioned or combined to handle different types of events or numbers of participants. Sources and outputs can easily be switched as required, and the processing for multiple areas can be handled by a single DME unit.



ROOM COMBINER



AUTO GAIN CONTROL

AUTO GAIN CONTROL
This function automatically adjusts gain to maintain a consistent level even if the volume of a speaker's voice varies, for example. An indispensable function for meeting rooms and conferences.



PROGRAM DUCKER

PROGRAM DUCKER
The Program Ducker component features significantly longer attack and release times. Mono and stereo types can be flexibly configured to accommodate a wide range of applications. The Program Ducker offers all the versatility required for installations ranging from banquet halls to theme parks, while additionally providing camera tally link capability for broadcasting - a field in which the DME series is finding increasing acceptance.

SPX

YAMAHA SPX EFFECTS are recognized as being some of the best and most "musical" in the industry. In the DME processing engines you have full-featured SPX multi-effect processors that are on a par with those provided in top-line Yamaha production and live sound consoles.

EVENT SCHEDULER & WAV FILE PLAYER

As their names imply the Wav File Player component plays specified Wav audio files, and the Event Scheduler can be used to trigger it at predefined times and repeating cycles. This could be used to play opening and closing themes for a retail outlet or mall, for example. Event Scheduler triggering is not limited to Wav File Player operation, however, and it could be used to schedule a GPI output that could start an external CD player or other device, for example. Programming the scheduler is easy, and can be done by the end user simple via wall-mounted remote control units or other remote controllers. Playback level and on/off switching can also be accomplished via the same type of controller.

COMPONENT LIST

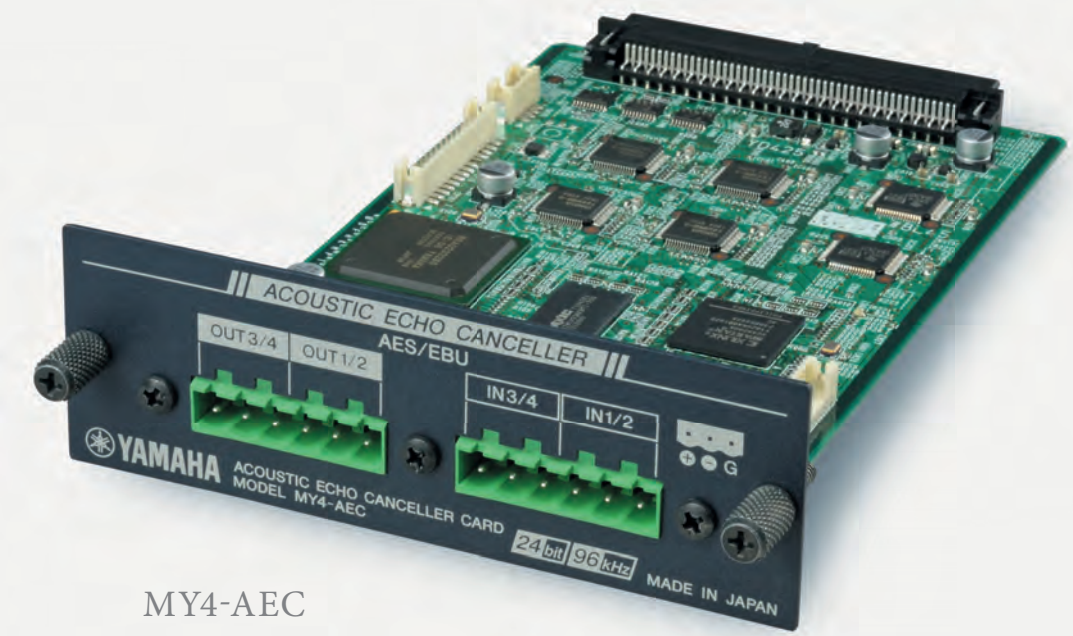
CATEGORY	COMPONENT		DME64-N	DME24-N
Processors	Remote Controlled Internal HA			Yes
	Delay	Long, Short	Yes	Yes
	Dynamics	Gate, Ducking, Expander, Compander, Compressor, De-Esser, Limiter	Yes	Yes
	Filter	BPF, HPF, LPF, Notch	Yes	Yes
	EQ	PEQ, GEQ	Yes	Yes
	Fader		Yes	Yes
	Pan	LR, LCR, 3-1, 5.1, 6.1	Yes	Yes
	Meter		Yes	Yes
Mixers	Simple Mixer		Yes	Yes
	Auto Mixer (II)		Yes	Yes
	Matrix Mixer		Yes	Yes
	Delay Matrix		Yes	Yes
I/O functions	Analog I/O			Yes
	Cascade I/O		Yes	
	MY card I/O		Yes	Yes
	CobraNet I/O (16IN/16OUT)			
	EtherSound I/O (16IN/16OUT)			
Source	Oscillator		Yes	Yes
	Wav File Player		Yes	Yes
Routing functions	Source Selector		Yes	Yes
	Router		Yes	Yes
Crossover	Crossover		Yes	Yes
	Crossover processor (II)		Yes	Yes
Speaker Processor	Speaker processor		Yes	Yes
Other functions	Acoustic Echo Canceller		Yes	Yes
	Room Combiner		Yes	Yes
	Feedback suppressor		Yes	Yes
	Ambient Noise Compensator		Yes	Yes
	Program Ducker		Yes	Yes
	Audio Detector		Yes	Yes
	Auto Gain Control		Yes	Yes
	Event Scheduler		Yes	Yes
	SPX		Yes	Yes

MY4-AEC

CONFERENCE BROADCAST

The **MY4-AEC** card provides 4 channels of acoustic echo cancellation for remote conferencing using Yamaha's DME 24N / DME 64N digital mixing engines and the MTX7-D and MTX5-D Matrix Processor. As well as the echo cancellation function, the **MY4-AEC** card also offers a noise reduction function which removes steady-state background noise such as air conditioning and projector fans etc. The card also has a feedback suppressor with 42 notch filters per channel to aid the suppression of feedback in PA systems. Any of the 8 internal mic/line inputs of the DME24N can be routed to the **MY4-AEC**. In the case of the DME64N, any of the MY card slots or CASCADE bus can route to the **MY4-AEC**. The AES/EBU inputs and outputs(with sample rate conversion) can route to either the **MY4-AEC** or be used independently in a DME design.

*For datails about Yamaha AEC technology, please refer to www.yamahaproaudio.com



MY4-AEC

HIGH PERFORMANCE CONFERENCE SYSTEM SOLUTION WITH YAMAHA AEC TECHNOLOGY*

- 4ch Acoustic Echo Canceller
- Maximum echo time delay (Tail length) 400ms
- High definition sound (frequency range 20Hz-20kHz)
- 4ch far-end input for multipoint meeting
- 4ch Noise Reduction
- 4ch Feedback Suppressor
- Additional 4ch AES/EBU I/O with SRC

	MY4-AEC
SAMPLING FREQUENCY	44.1kHz, 48kHz, 88.2kHz, 96kHz (-10%, +6%)
DSP FUNCTIONS	adaptive AEC Feedback Suppressor Ambient Noise Compensation Matrix Mixer
CONNECTORS	AES/EBU Euroblock (4in/4out)
COMPATIBLE EQUIPMENT	DME24N, DME64N firmware 4.0 or higher
FREQUENCY RANGE	20Hz - 20kHz
ARRIVAL TIME OF DIRECT SOUND	120ms maximum
ECHO TIME DELAY	400ms maximum
ECHO CANCELLATING CAPACITY	60dB maximum
NOISE REDUCTION	17dB maximum

ACOUSTIC ECHO CANCELLER
The balance between echo reduction level and sound quality can be easily evaluated and maximized during installation. Echo suppression is maximized by setting the Distance parameter to reflect the physical distance between microphone and loudspeaker.

MATRIX MIXER
Multi-point conference systems are easily incorporated using the Matrix Mixer which allows up to 4 far-end inputs for each channel of AEC.

FEEDBACK SUPPRESSOR
There are 42 notch filter bands whose width and depth parameters can be adjusted for best gain before feedback depending on the room acoustics. Each band will analyze suppression point automatically.

NOISE REDUCTION
Any constant and disturbing fan or HVAC noise can be attenuated using the Noise Reduction feature.

GENERAL SPECIFICATIONS

- Compatible Hosts DME24N, DME64N (V4.0 or later software is required), MTX5-D, MTX7-D
- Sampling Frequency 44.1kHz, 48kHz, 88.2kHz, 96kHz (-10%, +6%)

DIGITAL INPUT/OUTPUT CHARACTERISTICS

TERMINAL	FORMAT	AUDIO DATA LENGTH	LEVEL	CONNECTOR
AES/EBU In 1/2, 3/4	AES/EBU	24bit	RS422	Euroblock
AES/EBU Out 1/2, 3/4	AES/EBU (Professional use)	24bit	RS422	Euroblock

AUDIO

SIGNAL PROCESSING	Adaptive Echo Canceller, Feedback Suppressor Noise Reduction, Matrix Mixer
FREQUENCY RANGE	20Hz to 20kHz
ARRIVAL TIME OF DIRECT SOUND	120ms
ECHO TIME DELAY	400ms maximum
ECHO CANCELLING CAPACITY	60dB maximum
NOISE REDUCTION	17dB maximum

SP2060

DIGITAL SPEAKER PROCESSOR

ADVANCED SPEAKER PROCESSING PERFORMANCE IN A COMPACT 1U UNIT THAT IS IDEAL FOR LIVE SOUND OR INSTALLATIONS

- All of the functionality required for most speaker processing applications in a compact 1U unit.
- An impressive array of built-in functions: gain, delay, PEQ, comp, crossover, and limiter.
- All-Pass Filter precisely controls phase without affecting gain.
- Two analog inputs, six analog outputs, and two AES/EBU digital inputs.
- Original audio processing LSI provides full 24-bit, 96-kHz processing capability for outstanding sound quality with a dynamic range in excess of 110 dB.
- Detailed programming can be accomplished using the DME Designer application software running on a personal computer.
- Ethernet port and comprehensive panel interface.
- Optimized for Yamaha Installation Series Speakers.





SP2060

1U

SIGNAL PROCESSORS

	SP2060
SCENE	99 (PRESET: 12, USER: 87)
SAMPLING FREQUENCY RATE	Internal: 96kHz External: Normal rate: 44.1kHz, 48kHz (±0.1%) Double rate: 88.2kHz, 96kHz (±0.1%)
SIGNAL DELAY	Less than 761µs INPUT to OUTPUT (@fs=96kHz)
TOTAL HARMONIC DISTORTION	Less than 0.05%, 20Hz to 40kHz @+4dBu into 600Ω (@fs=96kHz) Less than 0.007%, 1kHz @+22dBu into 600Ω (@fs=96kHz)
FREQUENCY RESPONSE	20Hz - 20kHz, +0.5, -1.0dB, @+4dBu into 600Ω (@fs=96kHz)
DYNAMIC RANGE	106dB typ. AD+DA
HUM & NOISE LEVEL (20HZ TO 20KHZ), RS=150Ω	-82dBu residual noise
CROSSTALK (@1KHZ)	-80dB input to output
POWER CONSUMPTION	30 W
DIMENSIONS (W x H x D)	480 x 44 x 360.2mm (18.7" x 1.75" x 14.1"), 1U
WEIGHT	4.2 kg (9.7lbs)

SPX2000

LIVE

LATEST GENERATION SPX EFFECT UNIT WITH 24-BIT 96-KHZ PROCESSING AND ADVANCED REV-X REVERB ALGORITHMS

- Superb sonic quality with 24-bit/96-kHz processing throughout.
- 96-kHz DSP LSI with 32-bit internal processing (58-bit accumulator).
- 24-bit, 128-times oversampling AD and DA converters achieve 106 dB dynamic range and flat response from 20 Hz to 40 kHz at the 96-kHz sampling rate.
- REV-X reverb programs deliver the richest reverberation tone and smoothest decay available.
- In addition to a large range of ambience programs, including many that use the acclaimed REV-X reverb algorithms, the SPX2000 includes popular SPX programs such as gate reverbs, delays, pitch effects, modulation and other special effects.
- Other advanced algorithms – such as Multi-band Dynamic Processors – are inherited from the DM series Digital Production Consoles
- Professional analog and digital audio I/O and control connectors.
- SPX2000 Editor software provides a common operating environment and interface for the SPX2000 and Yamaha digital mixing consoles.





SPX2000

	SPX2000
DIGITAL INPUT	1 x XLR (AES/EBU, AES-3)
ANALOGUE INPUT	2 x XLR + 2 x jack
DIGITAL OUTPUT	1 x XLR (AES/EBU, AES-3)
ANALOGUE OUTPUT	2 x XLR + 2 x jack
USB	Yes
MIDI	in / out / thru
WORDCLOCK INPUT	1 x BNC
DIMENSIONS (W x H x D)	480 x 44 x 360 mm (19" 1U)
WEIGHT	4 kg

EFFECT PROGRAM NO. LIST

NO.	EFFECT NAME	CLASSIFICATION	LCD COLOR
1	REV-X LARGE HALL	HALL	CYAN
2	REV-X MED HALL		
3	REV-X SMALL HALL		
4	REV-X TINY HALL		
5	REV-X WARM HALL		
6	REV-X BRITE HALL		
7	REV-X HUGE HALL		
8	AMBIENCE		
9	STEREO HALL		
10	VOCAL CHAMBER		
11	BRIGHT HALL		
12	BREATHY REVERB		
13	CONCERT HALL		
14	REVERB FLANGE		
15	REVERB STAGE		
16	REV-X VOCAL PLT	PLATE	
17	REV-X BRIGHT PLT		
18	REV-X SNARE PLT		
19	VOCAL PLATE		
20	ECHO ROOM 1		
21	ECHO ROOM 2		
22	PRESENCE REVERB		
23	ARENA		
24	THIN PLATE		
25	OLD PLATE		
26	DARK PLATE		
27	REV-X CHAMBER	ROOM	
28	REV-X WOOD ROOM		
29	REV-X WARM ROOM		
30	REV-X LARGE ROOM		
31	REV-X MED ROOM		
32	REV-X SMALL ROOM		
33	REV-X SLAP ROOM		
34	FAT REFLECTIONS		
35	BIG SNARE		
36	BAMBOO ROOM		
37	REFLECTIONS		
38	STONE ROOM		
39	CONCRETE ROOM		
40	REVERSE PURPLE	GATE REVERB	
41	FULL METAL GATE		
42	REVERSE GATE		
43	DRUM MACH. AMB S	DRUM MACHINE	
44	DRUM MACH. AMB L	REVERB	
45	ELECT. SNR PLAT		
46	MONO DELAY	DELAYS	WHITE
47	120 BPM MONO DDL		
48	120 BPM X-DDL		
49	STEREO DELAY		
50	DELAY LCR		
51	KARAOKE ECHO		

NO.	EFFECT NAME	CLASSIFICATION	LCD COLOR
52	GOOD OL P.CHANGE	PITCH EFFECTS	MAGENTA
53	VOCAL SHIFT		
54	STEREO PITCH		
55	PITCH SLAP		
56	HALO COMB		
57	GRUMPY FLUTTER		
58	ROGER ON THE 12		
59	BOTTOM WHACKER		
60	VOICE DOUBLER		
61	SYMPHONIC	MODULATION	
62	REV+SYMPHONIC		
63	DETUNE CHORUS		
64	CHORUS & REVERB		
65	BASS CHORUS		
66	STEREO PHASING		
67	CLASSY GLASSY		
68	SILKY SWEEP		
69	UP DOWN FLANGE		
70	TREMOLO		
71	ROTARY SPEAKER		
72	AUTO PAN		
73	PHASER		
74	RING MODULATION		
75	MOD FILTER		
76	DYNA FLANGE		
77	DYNA PHASER		
78	DYNA FILTER	FILTER	YELLOW
79	M. BAND DYNA		
80	MULTI FILTER		
81	FILTERED VOICE		
82	DISTORTION	DISTORTION	
83	AMP SIMULATOR		
84	DIST -> FLANGE		
85	DIST -> DELAY		
86	REV -> CHORUS	MULTIPLE	
87	REV+FLANGE		
88	REV -> SYMPHONIC		
89	REV -> PAN		
90	DELAY+ER 1		
91	DELAY+ER 2		
92	DELAY -> ER 1		
93	DELAY -> ER 2		
94	DELAY+REV		
95	DELAY -> REV		
96	RESO DRONE		
97	FREEZE	SAMPLING	



NEXT

MUSIC AND POST PRODUCTION



PRODUCTION SOFTWARE

NUENDO8

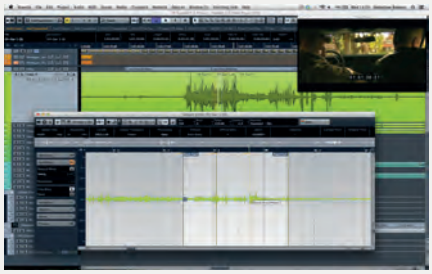
ADVANCED POST AND AUDIO PRODUCTION SYSTEM



NUENDO8
Advanced Audio Post-Production System

steinberg
Creativity First


ADR


EDITING


MIXING

- The world's most innovative audio post-production environment, featuring industry-leading tools for TV, film, advertising and game audio productions
- World-class mixing console with up to 13.1 support, including Channel Strip, automatable mix buses, VCA fader support and a fully integrated loudness measurement and processing toolset
- ReConform: Integrated re-conforming solution for automatic audio-to-picture alignment, including preview functions
- Game Audio Connect provides a direct connection with the Audiokinetic Wwise game audio middleware, including integration with Perforce
- Professional ADR taker and foley solution for voice and foley recording, including video (text) overlay
- Advanced multitrack audio-to-picture editing, providing the best audio editing environment to date, including TrackVersion playlists and video-follows-audio editing
- Automated Batch Export for exporting several versions of a mix in one go, including many user-definable attributes
- Cutting-edge plug-in collection features more than 70 high-class VST 3 plug-ins, including EQs, reverbs, surround panners, compressors and more
- State-of-the-art post-production environment comes with MediaBay content management, monitoring matrix, a superior automation system for film and TV production plus networking capabilities
- Full system integration with the Yamaha Nuage post-production system, seamless connection to the Nuendo SyncStation synchronizer and EuCon support
- Immersive 3D surround panner supporting native Dolby Atmos mixing



MIXER HISTORY



LOUDNESS METER



IOSONO ANYMIX PRO



CHANNEL SETTINGS



VOXENGO CURVEEQ



ADR TAKER

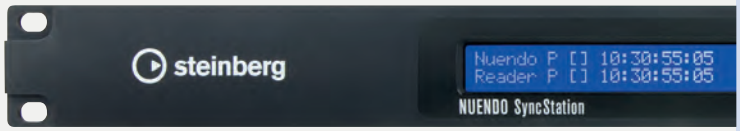


BRICKWALL LIMITER



DOLBY ATMOS PANNER

NUENDO SYNCSTATION



NUENDO SYNCSTATION is a hardware synchronizer that facilitates sample-accurate timecode synchronization between audio and video equipment. All Nuage interfaces include BNC and AES/EBU connectors for direct connection to Syncstation, as well as full support for the sample-accurate VST System Link.

- Sample-accurate time code synchronization when used with Nuendo.
- Allows MTP synchronization with many other DAWs (restrictions may apply according to DAW specifications and version).
- Cross-platform support for Nuendo SyncStation together with Nuendo on Mac OS X, Windows 7, Windows Vista and Windows XP

✹ MORE DETAILS ABOUT NUENDO AND NUENDO SYNCSTATION CAN BE FOUND AT THE STEINBERG WEB PAGE: HTTP://WWW.STEINBERG.NET

NUAGE VERSION 2.0

Dante™



NUAGE
Yamaha & Steinberg

- NUAGE FADER
- NUAGE MASTER
- NUAGE I/O (16A•16D•8A8D)
- NUAGE WORKSPACE (LARGE • SMALL)

*Custom desk, monitor displays, and keyboard are sold separately by third-party vendors.

DANTE ACCELERATOR PCIe CARD



Dante™

NUAGE I/O



NUAGE WORKSPACE



NUAGE FADER

NUAGE MASTER

NCS500CT	NCS500FD	NIO500A16	NIO500A8D8	NIO500D16	NWS500LG	NWS500SM
central controller	16 fader panel	16 analogue I/O	8 analogue, 8 AES/EBU I/O	16 AES/EBU	large workspace panel	small workspace panel



NUAGE – POST PRODUCTION SYSTEM

Digital audio workstations, controllers, interfaces: professional post-production capabilities can only be realized when all components work together in perfect harmony. **NUAGE** Integrated Audio Production System brings it all together in a collaboration that defines new standards of quality and workflow efficiency for virtually every aspect of the production process. Yamaha control and interface hardware seamlessly integrates with Steinberg Nuendo DAW software in a purpose-built system that offers unprecedented productivity and flexibility as well as premium audio quality. For maximum system versatility the dedicated Yamaha control surface and audio interface hardware is modular, so you can easily create a custom configuration that ideally matches your application. Nuage for mixing, editing, dialog replacement in audio post production applications. Top-class hardware and software in perfect harmony at last.

SUPPORT FOR NUENDO 8 AND ITS IMPROVED WORKFLOW

At the heart of the Nuage system is Steinberg Nuendo, an audio post production DAW that is a favorite with sound designers, mixing/recording engineers, and editors for its blazing editing speed, efficiency enhancing convenience, unrivalled sonic quality, and rock-solid stability. The latest version of Nuendo adds VCA faders, support for game audio middleware, and other advanced features that provided an enhanced workflow.

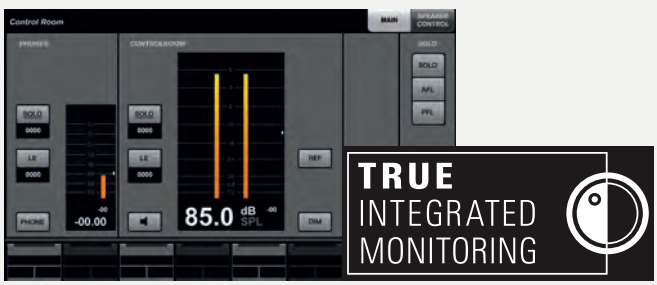
MMP1 SUPPORT FOR UNRIVALLED MONITOR CONTROL & QUALITY

The Nuage Version 2 update reinforces the system's monitor and communication capabilities by providing tight integration with the Yamaha MMP1 Studio Monitor Management System. The MMP1 is an ideal monitoring, communication, and processing solution for audio formats from basic stereo to complex immersive surround. It can be used with just about any DAW and peripheral equipment, but Nuage Version 2 adds remote control capability so that source selection, levels, downmix and dimmer switching, talkback, and other functions can be controlled directly from physical controls on a Nuage Master or Nuage Fader unit. And because these functions can be accessed even when there is no computer or DAW online, monitor section operation is as direct and immediate as on a mixing console.

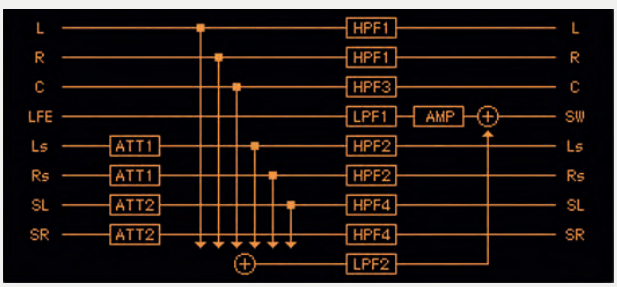
AVID PRO TOOLS CONTROL

Nuage can switch between as many as three connected DAWs. Of course those DAWs can be Steinberg Nuendo or Cubase, but with the dedicated NUAGE PT Bridge driver Avid Pro Tools installations can be used as well. In response to requests from Pro Tools users, Nuage provides Pro Tools control using Yamaha´s NUAGE PT Bridge driver for greater control and convenience.

- Using the Plug-in Panel shown on the monitor display as a guide, the Nuage Fader Multi Function Knobs can be used for Pro Tools plug-in control.
- The twelve Nuage Master User Assignable Buttons can be assigned to Pro Tools shortcut keys, allowing the user to use familiar shortcuts directly from the Nuage system.
- Supported versions of Pro Tools are: Pro Tools 10,11,12 and Pro Tools HD 10,11,12 (Mac versions only).
- A maximum of two Pro Tools instances can be connected to a Nuage system.



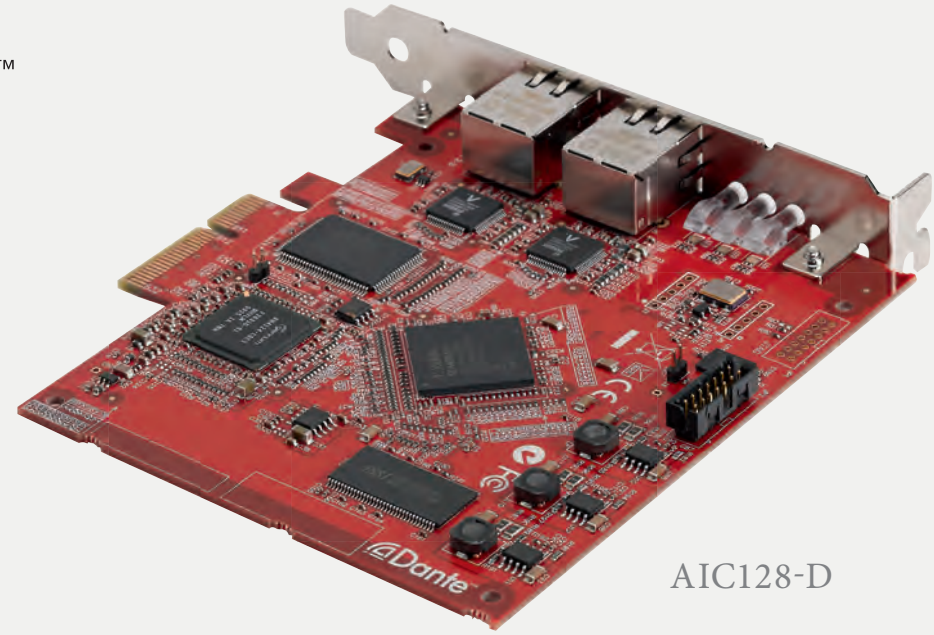
LOW LATENCY MONITORING



SURROUND STUDIO MONITOR SECTION

LIVE PRODUCTION BROADCAST

DANTE ACCELERATOR



AIC128-D



MUSIC AND POST PRODUCTION

ULTRA-LOW LATENCY AND SOLID RELIABILITY WITH HIGH CHANNEL COUNTS

The **DANTE ACCELERATOR** audio interface card can be installed in the computer running the Nuendo DAW to provide extra low-latency transfer of as many as 128 simultaneous channels of audio data, for a distinct performance advantage when communicating with Nuage I/O units. The **DANTE ACCELERATOR** card also features a secondary port that can be used to provide redundant connections for failsafe reliability.

GENERAL SPECIFICATIONS

	AIC128-D
PCI EXPRESS CARD	Compatible with PCI Express X4 slots v1.0 and above
PCI EXPRESS CARD	Compatible with PCI Express X4 slots v1.0 and above
AUDIO INTERFACE	ASIO (Windows 7 /8 /8.1) or Core Audio (Mac OS X 10.75 /10.8/10.9*1)
AUDIO CHANNELS	256 channels (128 in/128 out @ 96 kHz or less) 128 channels (64 in/64 out @ 176.4 kHz or more)
SUPPORTED SAMPLE RATES	44.1, 48, 88.2, 96, 176.4, and 192kHz
PULL-UP/PULL-DOWN	+4.1667, +0.1, -0.1, and -4.0 %
SAMPLE BIT-DEPTH	24 bit
DANTE NETWORK INTERFACE	Gigabit (1000Mbps; 1Gbps) Ethernet RJ45 port x2

SYSTEM REQUIREMENT

	WIN	MAC
OS	Windows 7 (SP1), Windows 8/8.1, Windows 10	Mac OS 10.7.5/10.8.x/10.9.x/10.10.x/10.11.x/ 10.12.0
PC	32-bit: Intel Core i5 / Intel Core i7 (2nd Generation "Sandy Bridge" Core i7 or later recommended 64-bit: Intel Core i5 / Intel Core i7 (2nd Generation "Sandy Bridge" Core i7 or later recommended	Mac Pro (Early 2009) or later
MEMORY	8GB or more	6GB or more
HDD	64M Cache (recommended) 7200rpm	64M Cache (recommended) 7200rpm
PCIE SLOT	x4 lane or above	x4 lane or above2

[1] Also compatible with OSX 10.6.8 for use without Nuage or Nuendo without Nuage or Nuendo when using Dante Accelerator Driver v1.0.1 or earlier for Mac. Pull up/down function for the audio sample rate is not supported in OSX 10.8. Noise may occur when pull up/down function is used. Please use OSX 10.7 if you need to use the pull up/down function

[2] The Dante Accelerator must be installed in slot 2(directly above the graphic card)

[3] However, PT Bridge is supported for up to 10.12.x.

NUAGE & NUENDO

CONFIGURATIONS

- SMALL SCALE SETUP WITH 1X NUAGE FADER



- SMALL SCALE SETUP WITH 1X NUAGE MASTER



- SMALL SCALE SETUP WITH 1X NUAGE FADER & 1X NUAGE MASTER



- MID SCALE SETUP WITH 2X NUAGE FADER & 1X NUAGE MASTER



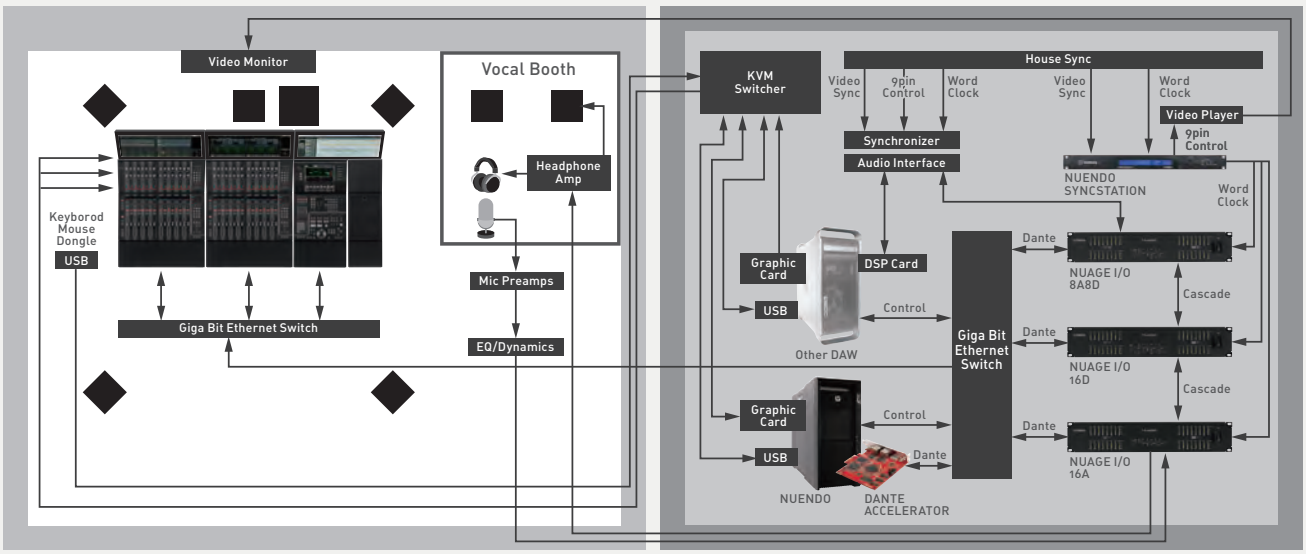
- LARGE SCALE SETUP WITH 3X NUAGE FADER & 1X NUAGE MASTER



SYSTEM EXAMPLE

CONTROL ROOM

MACHINE ROOM



PRODUCTION BROADCAST

MMP1



Audio production is evolving rapidly. Many functions that were previously handled by the mixing console are now built into high-performance DAW systems. But even today's most practical in-the-box mixing systems require a number of peripheral devices for full studio functionality, including some sort of monitor controller. Immersive audio formats have made the requirements for monitor control and management even more varied and complex. Yamaha has applied a great deal of time and effort to developing monitoring environments and studio systems for current and future audio production needs, and has come up with an ideal one-stop solution. The **MMP1 STUDIO MONITOR MANAGEMENT SYSTEM** offers all essential audio processing functionality for DAW-based production environments in one streamlined, versatile, great-sounding, space-saving unit that provides efficient overall system management at surprisingly low cost. The heart of the **MMP1** is a 40 x 36 channel monitor matrix* that can handle stereo, 5.1 channel, and 7.1 channel formats with ease, while also providing plenty of capacity for the rapidly growing array of immersive audio formats such as Dolby Atmos. To accommodate the widest possible range of installations, the **MMP1** includes eight cue outputs and eight studio speaker outputs, with two talkback systems that function with those outputs. Comprehensive, integrated management of monitoring, cue, and talkback functions allows this powerful matrix to efficiently connect and route all essential audio throughout the studio. Two software applications contribute to stress-free MMP1 setup and operation. The **MMP1 Editor*** for Windows and Mac computers provides all-function access for everything from system design through file management to day-to-day operation. A setup wizard makes setup fast, easy, and precise. When the system is up and running the MMP1 Controller** app for iPad offers convenient, intuitive control of essential parameters.

FEATURES

COMPREHENSIVE MONITOR CONTROL

Up to 32 channels of monitor processing supports formats from stereo to immersive audio, plus comprehensive management of studio communication and audio devices.

OUTSTANDING SPEAKER MANAGEMENT PRECISION

Time alignment delay, EQ, and other final-stage audio output adjustment tools are provided on all channels.

POST-PRODUCTION RECORDING SUPPORT

In addition to an ample selection of talkback, cue, and GPI functions, commentary functions provide extended voice-over recording support.

FLEXIBLE BASS MANAGEMENT

Bass management using standard or FIR crossover filters can be flexibly configured within a 32 x 32 channel speaker matrix.

FULL-FEATURED CHANNEL PROCESSING

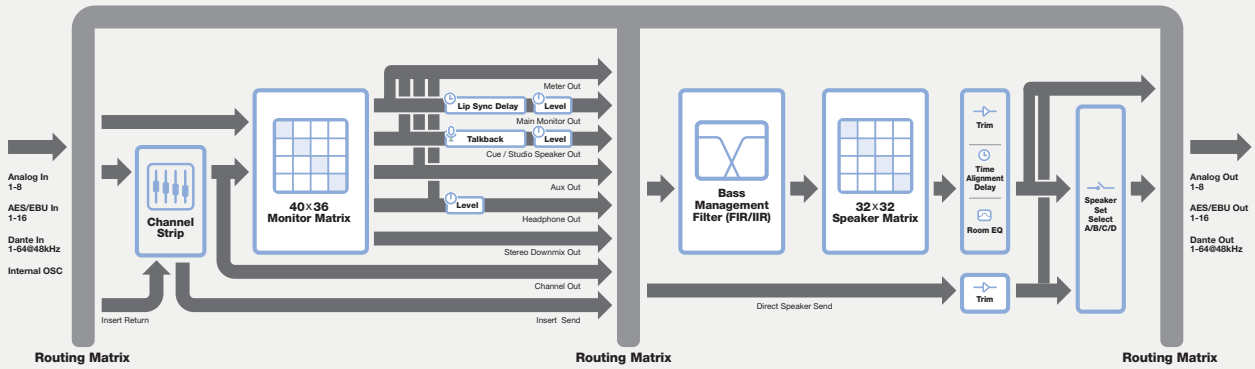
Eight channel strips feature four types of EQ, VCM vintage compressors, and more, for extensive processing capability in a remarkably compact space.



The MMP1 can be controlled directly from the monitor section of Yamaha's NUAGE DAW system, supporting monitor source selection and level control, mute and dim functions, talkback, user-assignable functions, and channel strip control.

* The MMP1 Editor can be downloaded from the Yamaha Pro Audio website.
** The MMP1 Controller app can be downloaded from the Apple App Store.

DSP BLOCK DIAGRAM



SPECIFICATIONS



MMP1

	MMP1
INPUTS	Analogue Inputs 1-8: D-SUB 25P (female) Digital AES/EBU Inputs 1-16: D-SUB 25P (Female)
OUTPUTS	Analogue Outputs 1-8: D-SUB 25P (female) Digital AES/EBU Outputs 1-16: D-SUB 25P (Female)
NETWORK	Dante 64ch@48kHz, 32ch@96kHz, 16ch@192kHz: Ehtercon x2
CONTROL I/O	16 GPI Inputs, 10 GPI Outputs: D-SUB 25P (Female)
MONITOR MATRIX	(32 inputs + 8 DSP channel inputs) x (32 outputs + stereo downmix outputs + stereo headphone outputs) @44.1, 48, 88.2, and 96kHz 20 inputs x 20 outputs @176.4 and 192 kHz
SPEAKER MATRIX	32 inputs x 32 outputs @44.1, 48, 88.2, and 96kHz 16 inputs x 16 outputs @176.4 and 192 kHz
BASS MANAGEMENT CROSSOVER FILTER	LPF 80Hz / HPF 80Hz
TIME ALIGNMENT DELAY	Up to 30msec
ROOM EQ	6-band parametric EQ
LIP SYNC DELAY	Up to 50msec
CHANNEL STRIP	Comp260, EQ (Precise, Aggressive, Smooth, Legacy)
SCENES	20 Scenes
SNAPSHOTS	20 Snapshots



NEXT

ACTIVE FIELD CONTROL


ACTIVE FIELD CONTROLLER
AFC3
MUTE
CANCEL
ENTER
PHONES
0
+10
PHONES LEVEL
MONITOR
POWER

AFC

ACOUSTICS



For over 125 years Yamaha craftsmen have created some of the world's finest musical instruments. Superior sound quality has always been the driving force behind Yamaha products and systems. Whether manufacturing instruments, developing state-of-the-art audio technologies or designing performance halls and theatres, the company is always seeking new ways to deliver the best possible listening experience.

First implemented by Yamaha in 1985, **ACTIVE FIELD CONTROL (AFC)** is an acoustic conditioning system designed to adjust and enhance the architectural acoustic characteristics of facilities such as performing arts venues, houses of worship, theatres and concert halls, while maintaining the natural sonic characteristics of the space. AFC represents the third generation of innovative AFC systems from Yamaha, the most trusted name in audio.





With increasing pressure for facilities to become more multi-purpose and accommodate a wider range of applications, AFC provides a cost-effective alternative to mechanical means of modifying room acoustics. It is a truly scalable solution which can be installed in a wide range of venues, including concert halls, opera houses, theatres, cultural community centres, small churches, auditoriums and even sports venues and stadiums. Acoustics changes can be made at the push of a button, allowing the performance environment to be adjusted almost instantly. Yamaha AFC systems are currently installed in over 100 facilities worldwide.

As a 'hybrid regenerative' system, AFC is able to deliver the same high quality acoustics to both the onstage performers and the audience. This is crucial where performers and listeners need to be in the same acoustic space - meaning they not only have a visible connection, but also an audible one. To support such a close connection, not only does the quality of the early reflections and the diffuse reverberation field need to be uniformly excellent, but the response of the system to any sound source (on the stage, in the orchestra pit and in the audience) also needs to be exactly as it would in an original acoustic environment. AFC offers all this and more.

OPERA NA ZAMKU, SZCZECIN, POLAND

WHAT IS AFC?

ACTIVE FIELD CONTROL is an acoustic enhancement system that is used to improve or enhance the architectural acoustic characteristics of a room and optimise reverberation, while all the time preserving that room's natural acoustic 'signature'. An AFC system consists of multiple microphones, Digital Signal Processors (DSP), power amplifiers and loudspeakers. AFC uses a 'hybrid regenerative' technique that adjusts acoustic conditions by using acoustic feedback combined with DSP reverberation and early reflection algorithms. This makes AFC different from, and superior to, other techniques that are based on pure feedback or the dedicated use of digital reverbs to simulate room characteristics. Yamaha was the first to apply the hybrid regenerative technique to a commercial product range in 1987, developed as a unique collaboration between engineers from Yamaha's digital processing research and development laboratories with acousticians from Yamaha's spatial audio department, who had long experience in the architectural design of concert halls in Japan.



ACOUSTICS

Yamaha AFC is not a PA system. Instead, it fully respects the original acoustics, applying the hybrid regenerative technology to shape both the sound field and the response to sound sources in the acoustic space in a completely natural way.This is why AFC is being applied in concert halls and opera houses that need their acoustics to be improved – sometimes a subtle touch-up, in other cases a more extensive enhancement, for example after a renovation. In that case, the architect has more design freedom in shaping the hall and achieving usage and cost efficiency.





VARIABILITY

AFC systems are highly variable. Firstly in system scope; they can be applied in very small rooms such as rehearsal rooms and conference rooms, using just a few microphones and loudspeakers, up to very large venues such as opera houses and concert halls with thousands of seats - in which case a system may comprise several hundred loudspeakers. Secondly, in enhancement scope; AFC can support a broad range of reverberation time enhancement ratios. These range from small enhancements for concert halls and opera houses that need a delicate 'touch up' in their reverberation time and acoustic connection between the stage, orchestra pit and hall, all the way through to full multi-purpose venues designed to support cinema, amplified music, a philharmonic orchestra or even a church organ. In these cases, variability of reverberation time may easily span a range of 0.5 seconds up to 3 seconds, with several easily selectable presets that all support a fully natural sound and response.

RELIABILITY

Reliability is a fundamentally important quality, as acoustic enhancement systems are installed as part of the fabric of a venue. A system's life expectancy needs to span decades, with many performances to be enjoyed by critical audiences listening to world famous soloists and orchestras - therefore nothing must go wrong. Don't worry, AFC is built on rock solid hardware, using components that have proven their reliability for more than 50 years in the global professional audio market. This is possible because AFC uses the same hardware platform as Yamaha's sound reinforcement digital signal processors and digital mixing consoles - a field where Yamaha is the market leader, with millions of units sold. As a result of Yamaha's rigorous, fully ISO9001-certified manufacturing quality control, the reputation of its products for both quality and reliability is unique.


DNV Business Assurance
Management System Certificate
YAMAHA CORPORATION
PRO AUDIO DIVISION


YAMAHA CORPORATION GROUP
CERTIFICATE

OPEN PLATFORM

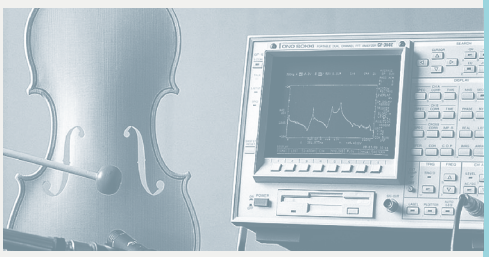
The AFC infrastructure is based on extremely powerful DSP engines that can support any audio functionality as well as AFC. This means that AFC systems can easily share their amplifiers and loudspeakers with other systems, such as mixing consoles and immersive sound systems like Dolby 5.1 and 7.1 Cinema Surround, Dolby Atmos and BARCO Iosono. Sharing multi-channel functionality can be done through Dante and AES67 audio networking, but also through legacy audio protocols such as AES/EBU and MADI, supporting virtually any external sound system.

Dante™



QUALITY

AFC system hardware is recognised by the global audio professional community for its outstanding sound quality. However, an acoustic enhancement system also relies on acoustic design and tuning. This is why AFC systems are designed and tuned by international teams of experienced professionals, each with a track record of projects in opera houses, concert halls and multi-purpose venues with enhanced acoustics, ensuring both performers and audiences are satisfied with every performance.



OPERATION

AFC systems come as standard with both a bespoke iPad-based graphic user interface, as well as one or more optional wall-mounted panels, both offering easy selection of the system's presets. No technically skilled staff are required for operation, systems can be switched to the required mode by the simple touch of a button. In addition, AFC systems can support media control systems such as Crestron and AMX, responding as an integral part of a venue's overall control infrastructure.



THE MUSIC

Yamaha is the largest manufacturer of musical instruments on the planet, producing virtually any musical instrument imaginable - from a concert grand piano to a marimba, from a flute to a French horn, acoustic and electric guitars to Latin percussion. It's that background that is the motivation for Yamaha to have also become the world's largest manufacturer of professional audio and AV components, including AFC systems. Although Yamaha is regarded as the world's most innovative pioneer in professional audio technology, the unique DNA of everything that the company does is the sound source: a human being playing an instrument, which includes the human voice. All Yamaha professional audio products pay tribute and respect the sound source and music. This 'musical DNA', combined with innovative DSP technology and decades of knowledge and experience in acoustics, has shaped the third generation of Active Field Control systems: AFC.



RECENT AFC INSTALLATIONS

REHEARSAL HALL AT ROYAL SWEDISH OPERA, STOCKHOLM, SWEDEN



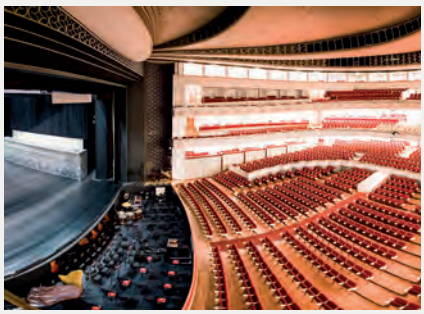
MUNICPIAL ARTISTIC SCHOOL, MIŃSK MAZOWIECKI, POLAND



CIMINELLI RECITAL HALL, BUFFALO, NY



GRAND THEATRE OF THE NATIONAL OPERA, WARSAW, POLAND



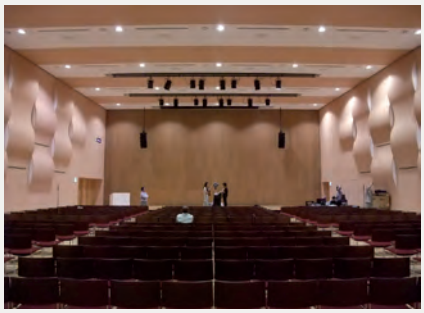
NANYANG TECHNOLOGICAL UNIV., SINGAPORE



AMSTERDAM HOGESCHOOL VOOR DE KUNSTEN, AMSTERDAM, THE NETHERLANDS



PLAZA VERDE, NUMAZU, JAPAN



TYUMEN PHILHARMONIE, RUSSIA



THE GOTHENBURG OPERA, GOTHENBURG, SWEDEN



HIGH COURT AUDITORIUM, SEOUL, KOREA



THE CASTLE OPERA, SZCZECIN, POLAND



PARKGEBOUW, RIJSSEN, THE NETHERLANDS



SUDECKA PHILHARMONY, WAŁBRZYCH, POLAND



GROVES HIGH SCHOOL, UNITED STATES



KULTURHUSET NAJADEN, HALMSTAD, SWEDEN



TOKYO INTERNATIONAL FORUM, JAPAN



WEST GIMHAE CULTURE CENTER, SOUTH KOREA



CINEMA THEATRE SYRENA, WIELUŃ, POLAND




NEXT
LINE 6


AUDIO
BATTERY
RF
MUTE
TRANSMITTER
STATUS
LINE 6
PUSH TO SET
SETUP
EXIT
9:40
XD-V75
2.4GHz DIGITAL WIRELESS SYSTEM

CONFERENCE LIVE

LINE6 XD SERIES

WIRELESS MICROPHONE SYSTEMS



SAFETY FROM INTERCEPTION

THE 4TH GENERATION OF THE STANDARD IN DIGITAL WIRELESS MICROPHONE SYSTEMS SINCE 1995

2.4GHZ BAND OPERATION, LICENSE FREE. Ensuring peace of mind and the most reliable performance, the XD series wireless microphone systems operate in the 2.4GHz band, which is free from interference due to TV broadcast, public safety announcements, cell phone towers and other transmitting devices. Encoded DCL™ (Digital Channel Lock) technology prevents reception of any audio interference from other 2.4 GHz devices and ensures signal integrity. Up to 14 systems can be used simultaneously sharing bandwidth with other Wifi services such as Yamaha Stagemix™, which makes the XD series ideal for live music, presentation and conference applications. No need to worry about wireless regulations and license fees; all XD series systems are fully FCC compliant and operate license free worldwide.

SIMPLICITY IS THE KEY. Setting up the system is a one-step process: simply choose a channel on the transmitter and receiver and they lock together automatically – job done. For complete flexibility, XD series handheld, lavalier, headset and instrument components from the V35, V55 and V75 series can be mixed and matched as required.

SUPERIOR SOUND QUALITY. Unlike traditional analog wireless systems, the XD series wireless microphone systems don't use signal companding, providing a full dynamic range at all times – just like a wired mic. Combined with a proven 4th-generation digital wireless platform with 24-bit, 10Hz-20kHz compander-free performance with ultra low latency, an unmatched full-range audio clarity and response is a standard.

THE SOUND OF THE WORLD'S BEST WIRED MICS, WIRELESS. Featuring exclusive microphone modeling technology, the XD-V55 and XD-V75 series handheld transmitters offer the world's most popular wired live-sound microphones including the Shure SM58®, Shure Beta 58A®, Sennheiser e 835®, Audio-Technica AE4100®, Electro-Voice N/D767a®. Lavalier and head-set versions are available for unintrusive and precise sound reinforcement.

ANTENNAS MADE EASY. The XD-AD8 antenna distribution unit and the built-in loop-through antenna distribution system on the XD-V75 eliminate the need for multiple external antenna units with multiple systems, which saves setup time, rack space and money. For increased coverage, optional paddle antennas (180°, 360°) can be used.

SAFE AND SOUND: SIGNAL ENCRYPTION FOR CONTENT PROTECTION. Where content is confidential e.g. at presentations and conferences, the XD-V75 series offer signal encryption, protecting the content from being exposed to others. Simply put, the system is protected from hacking.

XD-V75 SERIES

- Professional digital wireless system for high quality performances with license-free operation worldwide
- Exclusive microphone modeling based on* the world's most popular mics including:
  - Shure SM58®, Beta 58A®, SM57®
  - Sennheiser e 835®, e 935®
  - AKG D5®
  - Audio Technica AE4100®
  - Audix OM5®
  - Electro-Voice N/D767a®
  - Line 6 custom-voiced microphone
- Superior transient response and 24-bit digital conversion
- Proven 4th-generation digital wireless, FCC compliant; immune to the FCC Consumer Alert regarding wireless microphones
- 2.4GHz-band operation, free from interference due to TV broadcast, cell phone towers and other transmitting devices.
- Up to 14 available channels, up to 100-meter range
- Signal encryption for maximum signal privacy and integrity
- One-step setup
- Transmitter LCD Display for selected channels, battery status and mic models
- Dynamic Filter to combat unwanted environment noise
- Robust metal body resistant to handling noise and metal receiver chassis
- Channel Scanning for best RF management in multi-system applications
- 2 powered BNC antenna inputs – for daisy chaining multiple systems. Up to 4 systems can use one pair of antennas without the need for a splitter.

XD-V75 SYSTEMS



XD-V75 SYSTEM

with premium hand-held transmitter with dynamic microphone capsule, interchangeable with capsules from other industry-standard microphones. System includes hand-held microphone transmitter with protective storage case, 1/2U receiver, 2 x 1/2 wave antennas, front- mount antenna kit, rackmount kit, two AA alkaline batteries. Super cardioid SC and Earthworks V40 transmitters available as option.



XD-V75HS SYSTEM

with premium omni-directional condenser microphone – for professional hands-free performance, Standard TA4F mini-XLR input for integrating 3rd-party microphones, System includes premium lavalier microphone, bodypack transmitter with protective storage case, 1/2U receiver, 2 x 1/2 wave antennas, front-mount antenna kit, rackmount kit, two AA alkaline batteries. Available with black and tan color headsets.



XD-V75L SYSTEM

with premium cardioid condenser lavalier microphone and standard TA4F mini-XLR input for integrating third-party microphones. System includes lavalier microphone with discreet clothing attachment, bodypack transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries and carry case.



XD-V75TR SYSTEM

with bodypack transmitter and receiver supporting 3rd party TA4F mini-XLR input microphones. System includes bodypack transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries and carry case

XD-V75 COMPONENTS



V75-RX

receiver



V75-HHTX

hand-held transmitter



HS70

(BLK, TAN) headset microphone



LM4-T

lavalier microphone



V75BP

body pack



CAT12WAVE

1/2 wave antenna pair



CCTBP12

Belt pack carrying case



CCHHT

hand-held transmitter carrying case

XD-V55 SERIES

- Professional digital wireless system for high quality performances with license-free operation worldwide
- Exclusive microphone modeling based on the world's most popular mics including:
  - Shure SM58®
  - Shure SM57®
  - Sennheiser e 835®
  - Line 6 custom-voiced microphone
- Superior transient response and 24-bit digital conversion
- Proven 4th-generation digital wireless, FCC compliant; immune to the FCC Consumer Alert regarding wireless microphones
- 2.4GHz-band operation, free from interference due to TV broadcast, cell phone towers and other transmitting devices.
- Up to 12 available channels, up to 100-meter range
- One-step setup
- Transmitter LCD Display for selected channels, battery status and mic models
- Dynamic Filter to combat unwanted environment noise
- Robust metal body resistant to handling noise and metal receiver chassis

XD-V55 SYSTEMS



XD-V55 SYSTEM

with premium hand-held transmitter with dynamic microphone capsule, interchangeable with capsules from other industry-standard microphones. System includes hand-held microphone transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries.



XD-V55HS SYSTEM

with premium omni-directional condenser microphone headset, and standard TA4F mini-XLR input for integrating third-party microphones. System includes headset microphone, bodypack transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries and carry case. Available with black and tan color headsets.



XD-V55L SYSTEM

with premium cardioid condenser lavalier microphone and standard TA4F mini-XLR input for integrating third-party microphones. System includes lavalier microphone with discreet clothing attachment, bodypack transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries and carry case

XD-V55 COMPONENTS



V55-RX	V55-HHTX	HS70	LM4-T	V55BP	CAT12WAVE	CCTBP12	CCHHT
receiver	hand-held transmitter	(BLK, TAN) headset microphone	lavalier microphone	body pack	1/2 wave antenna pair	Belt pack carrying case	hand-held transmitter carrying case

XD-V35 SERIES

- Professional digital wireless system for high quality performances with license-free operation worldwide
- Superior transient response and 24-bit digital conversion
- Proven 4th-generation digital wireless, FCC compliant; immune to the FCC Consumer Alert regarding wireless microphones
- 2.4GHz-band operation, free from interference due to TV broadcast, cell phone towers and other transmitting devices
- Up to 6 available channels, up to 80 meter range
- One-step setup
- Dynamic Filter to combat unwanted environment noise

XD-V35 SYSTEMS



XD-V35 SYSTEM

with road-ready polycarbonate premium hand-held transmitter with dynamic microphone capsule, interchangeable with capsules from other industry-standard microphones. System includes hand-held microphone transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries.



XD-V35L SYSTEM

with premium cardioid condenser lavalier microphone with 1/4" jack connector. System includes lavalier microphone, bodypack transmitter, receiver, 2 x 1/2 wave antennas, two AA alkaline batteries and carry case.

XD-V35 COMPONENTS



V35-RX

receiver



V35-HHTX

hand-held transmitter



LM4-4

lavalier microphone



V35BP

body pack



CAT12WAVE

1/2 wave antenna pair

SPECIFICATIONS






		XD-V75	XD-V75HS(T)	XD-V75L	XD-V75TR
SYSTEM	FREQUENCY BAND	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz
	MAX. CHANNELS*	up to 14	up to 14	up to 14	up to 14
	RANGE	up to 100 meter	up to 100 meter	up to 100 meter	up to 100meter
	DYNAMIC RANGE	>120 dB	>120 dB	>120 dB	>120 dB
	FREQUENCY RESPONSE	10Hz - 20kHz	10Hz - 20kHz	10Hz - 20kHz	10Hz - 20kHz
	SYSTEM LATENCY	<2.9 ms	<2.9 ms	<2.9 ms	<2.9 ms
	DSP	10 mic models	9 filter models	9 filter models	9 filter models
	ENCRYPTION	Yes	Yes	Yes	Yes
	LICENSE FREE	Yes	Yes	Yes	Yes
RECEIVER	AUTO RF CHANNEL SCANNING	Yes	Yes	Yes	Yes
	LEDMETERING & LCD	LED: signal strenght, battery level, audio; LCD			
	CHASSIS	metal	metal	metal	metal
	RECEIVER RACK MOUNTABLE	Yes (kit included)	Yes (kit included)	Yes (kit included)	Yes (kit included)
	ANTENNA SPLITTER	Yes (2 x BNC outputs)			
TRANS-MITTER	TYPE	hand held	body pack	body pack	body pack
	LCD	Yes	Yes	Yes	Yes
	BATTERY	2 x AA (8 hours)	2 x AA (8 hours)	2 x AA (8 hours)	2 x AA (8 hours)
	INPUT	–	TA4F Mini-XLR	TA4F Mini-XLR	TA4F Mini-XLR
MICRO-PHONE	TYPE	cardioid capsule	HS70(T) headset: black (tan)	lavalier omni LM4T	not included
	DYNAMIC RANGE	115 dB	120 dB	120 dB	–
PACKAGE	INCLUDED COMPONENTS	V75RX receiver, V75HTTX hand hel microphone	V75RX receiver, V75BP body pack, HS70(T) headset black(tan)	V75RX receiver, V75BP body pack, LM4T lavalier microphone	V75RX receiver, V75BP body pack
	INCLUDED ACCESSORIES	rack mount kit, transmitter carrying case, 2x1/2 wave antennas, front mount antennakit, 2x AA Alkaline batteries			
	OPTIONAL ACCESSORIES	P180, P360 antenna, XD-HD8 antenna distribution unit, V75-CS super cardioid hand held, V7540V Earthworks super cardioid hand held, V75-SCC capsule(chrome, black), carrying cases			

* Depending on Wifi environment

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XD-V55	XD-V55HS(T)	XD-V55L	XD-V35	XD-V35L
2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz	2.4 Ghz
up to 12	up to 12	up to 12	up to 6	up to 6
up to 100 meter	up to 100 meter	up to 100 meter	up to 80 meter	up to 80 meter
>117 dB	>117 dB	>117dB	>115 dB	>115 dB
10Hz - 20kHz	10Hz - 20kHz	10Hz - 20kHz	10Hz - 20kHz	10Hz - 20kHz
<2.9 ms	<2.9 ms	<2.9 ms	<3.5 ms	<3.5 ms
4 mic models	3 filter models	3 filter models	–	–
Yes	Yes	Yes	–	–
Yes	Yes	Yes	–	–
–	–	–	–	–
LED: signal strenght, battery level, audio; LCD			LED: signal strength, battery	
metal	metal	metal	polycarbonate	polycarbonate
Yes (optional)	Yes (optional)	Yes (optional)	–	–
–	–	–	–	–
hand held	body pack	body pack	hand held	body pack
Yes	Yes	Yes	–	–
2 x AA (8 hours)	2 x AA (8 hours)	2 x AA (8 hours)	2 x AA (8 hours)	2 x AA (8 hours)
–	TA4F Mini-XLR	TA4F Mini-XLR	–	1/4"jack
cardioid capsule	HS70(T) headset: black(tan)	lavalier omni LM4-T	cardioid capsule	lavalier omni LM44
113 dB	117 dB	117 dB	115 dB	115 dB
V55RX receiver, V55HTTX hand held microphone	V55RX receiver, V55BP body pack, HS70(T) headset black(tan)	V55RXreceiver, V55BPbodypack,LM4T lavaliermicrophone	V35RX receiver, V35HTTX hand held microphone	V35RX receiver, V35BP body pack, LM44 lavalier microphone
transmitter carrying case, 2x1/2 wave antennas, front mount antenna kit, 2x AA Alkaline batteries			2x AA Alkaline batteries	
P180, P360 antenna, XDHD8 antenna distribution unit, rack mont kit, carrying cases			HS30 headset, carrying cases	

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COMPONENTS AND ACCESSORIES

CATEGORY	PRODUCT CODE	DESCRIPTION	SYSTEM COMPATIBILITY (V2.0 FIRMWARE OR LATER) XD-V75	XD-V55	XD-V35
HANDHELD MICROPHONE TRANSMITTERS	V75-HHTX	handheld wireless transmitter with cardioid capsule (chrome), 14 channels, dynamic filter, 10 mic modeling, encryption mode, metal body	•	•	•
	V75-40V	V75 handheld wireless transmitter with Earthworks WL40V hyper-cardioid capsule (black), metal body, including touring case	•	•	•
	V55-HHTX	handheld wireless transmitter with cardioid capsule (chrome), 12 channels, dynamic filter, 3 mic modeling, metal body	•	•	•
	V35-HHTX	handheld wireless transmitter with cardioid capsule (black), 6 channels, polycarbonate body	•	•	•
CAPSULES	V75SCCHROME	Super Cardioid capsule for V75-HTTx, Chrome	•		
	V75SCCAPBL	Super Cardioid capsule for V75-HTTx, Black	•		
HEADSET AND LAVALIER MICRO-PHONES	HS70	omni-directional headset microphone, TA4F mini XLR connector, adjustable arm, windscreen included, black colour	•	•	
	HS70T	omni-directional headset microphone, TA4F mini XLR connector, adjustable arm, windscreen included, tan colour	•	•	
	HS30	uni-directional headset microphone, 1/4" TRS connector, adjustable arm, windscreen included, black colour			•
	LM4-T	omni-directional headset microphone, 1/4" TRS connector, adjustable arm, windscreen included, black colour	•	•	
	LM4-4	Lavalier condenser microphone, includes windscreen and tie clip. Connector: 1/4" TRS jack.			•
BODYPACKS	V75-BP	body pack transmitter, 14 channels, TA4F mini XLR connector, encryption mode	•	•	
	V55-BP	body pack transmitter, 12 channels, TA4F mini XLR connector	•	•	•
	V35-BP	body pack transmitter, 6 channels, 1/4" TRS connector	•	•	•
RECEIVERS	V75-RX	receiver, 14 channels, dynamic filter, 10 mic modeling	•	•	•
	V55-RX	receiver, 12 channels, dynamic filter, 3 mic modeling	•	•	•
	V35-RX	receiver, 6 channels	•	•	•
ANTENNAS & CABLES	CAT12WAVE	1/2 wavelength antenna (pair)	•	•	•
	P180	directional active paddle antenna with mic stand mount (pair)	•	•	
	P360	omni-directional active paddle antenna with mic stand mount (pair)	•	•	
	XD-AD8	Antenna Distribution Unit: provides power for CAT12WAVE antenna and P180 and P360 remote paddle antennas to connect to up to 8 receivers. Rack Mountable 1U.	•	•	
	CG55V55ATSPK	antenna splitter kit, provides power for CAT12WAVE antenna and P180 and P360 remote paddle antennas to connect to 2 receivers.		•	
	AEC06	BNC-BNC antenna extension cables, 0,15 m (6")	•	•	
	AEC15	BNC-BNC antenna extension cables, 4,47m (15 ft)	•	•	
	AEC25	BNC-BNC antenna extension cables, 7,62m (25 ft)	•	•	
	AEC50	BNC-BNC antenna extension cables, 15,24m (50 ft)	•	•	
CASES & RACK MOUNTKITS	CCHALFRACK	half-rack system carry case	•	•	
	CCTBP12	body pack carry case	•	•	•
	CCHHT	hand-held transmitter carry case	•	•	•
	G55V55RK	rack mount kit for XD-V55		•	



XD-AD8











XD-AD8	V75SCCHROME	V75SCCAPBL	LM4-4	LM4-T	P180
Antenna Distribution Unit	Super Cardioid capsule for V75 hand-held - chrome	Super Cardioid capsule for V75 hand-held - black	Lavalier microphone	lavalier microphone	Paddle antenna pair













P360	AEC06/15/25/50	CG55V55ATSPK	HS70	HS70T	HS30
Paddle antenna pair	Antenna cables	Antenna splitter kit (for use with rack mount kit)	Head set microphone (black) with TA4F mini XLR connector omni-directional	Head set microphone (tan) with TA4F mini XLR connector omni-directional	Head set microphone (black) with 1/4" TRS jack Cardioid











V75-40V	CCHALFRACK	CCTBP12	CCHHT	GT55V55RK
Hand-held transmitter with Earthworks 40V capsule	Half rack carrying case	Belt pack carrying case	Hand-held transmitter carrying case	Rack mount kit for XD-V55



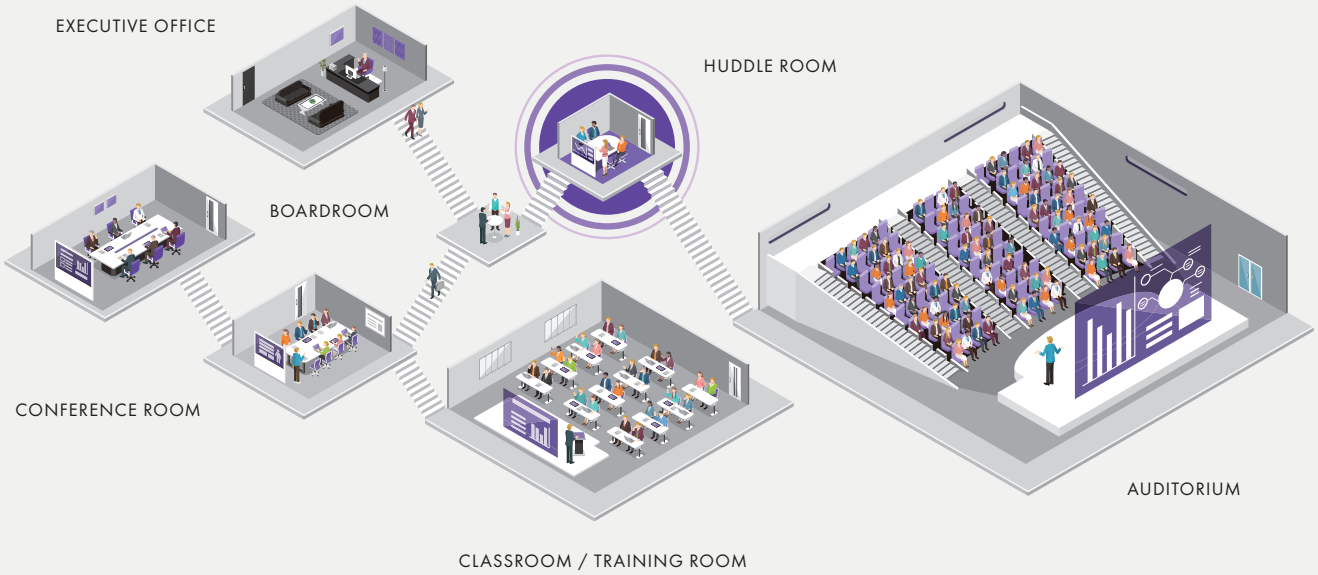
NEXT

UNIFIED COMMUNICATIONS


YAMAHA
YAMAHA

UNIFIED COMMUNICATIONS

UNIFIED COMMUNI-CATIONS





Audio and video conferencing solutions from Yamaha streamline collaboration and boost productivity wherever people need to speak openly, share freely and create exceptional things. Yamaha's considered approach to building enterprise-grade microphone systems, conference phones, and video sound bars ensures exceptional audio quality, ease of connectivity and flexibility for meetings across the table or across the globe. Wired and wireless options complement today's nuanced and hectic business systems. With core tenets of simplicity, clarity and efficiency, Yamaha brings to unified communications a passion for sound and performance that has been creating excitement and inspiration for more than 130 years.

REVOLABS EXECUTIVE ELITE

WIRELESS MICROPHONE SYSTEMS



- Administer from anywhere using the remote management interface
- Easily integrates with other solutions in the room such as room controls systems and recording solutions
- Microphone charging tray ensures extra microphones are always charged
- Distributed architecture simplifies installations
- High channel density
- Elegant microphone design
- High definition audio
- Open integration interfaces

Revolabs Executive Elite™ 2-, 4- and 8-channel wireless microphone systems are the latest products in the Revolabs family of boardroom and conference room audio solutions. Architected to support deployments requiring increased number of microphones, they provide enhanced integration with room control systems, leverage a distributed architecture for straightforward, trouble-free installations, and facilitate remote management capabilities. Finally, the Executive Elite products feature the superior audio quality required for exceptional audio and video conferencing.

Utilizing a distributed architecture, Executive Elite separates the remote antenna receiver unit from the Executive Elite base digital signal-processing (DSP) unit. A standard CAT5e or CAT6 cable supporting Power over Ethernet (PoE) connects the antenna receiver and base DSP unit, enabling simplified distributed or in-room installations. Whether ceiling- or wall-mounted, the remote antenna receiver unit can be placed in the room with the wireless microphones, regardless of the location of the receiver base DSP unit. 2-channel Revolabs Executive Elite systems support up to 2 microphones. 4- and 8- channel Revolabs Executive Elite systems support up to four or eight microphones, with Yamaha Unified Communications automatic synchronization technology allowing deployment of multiple Revolabs Executive Elite receivers to optimize usage of the available audio channels. In Europe, Africa, Asia, and Australia, Executive Elite receivers can support 76 or more microphones in one area. The distributed architecture serves to further support deployments requiring significant numbers of microphones for audio and unified communication applications, especially in managed environments.

Executive Elite is easy to integrate, with the 2-channel unit supporting audio mixing with dedicated analogue outputs, and the 4- and 8-channel units supporting digital (AVB) and analog individual audio inputs and outputs, as well as an open control interface for room control systems.

The Executive Elite system pairs exclusively with the full suite of Revolabs Executive Elite microphones and adapters. The suite includes omnidirectional, directional, gooseneck (6-inch and 12-inch variations), and wearable microphones as well as a TA4 (mini XLR) adapter and XLR adapter. Microphones and adapters can be mixed and matched to suit the user's deployment requirements. The Revolabs Executive Elite microphones introduce new and improved audio capabilities enabling significantly enhanced audio pickup, improved signal-to-noise ratio, and expanded digital signal communication over the wireless link. Combined with Revolabs "Designed for Speech" technology, the Executive Elite microphones provide the highest quality audio for any communication application.



REVOLABS EXECUTIVE ELITE

Best of all, the Executive Elite microphones are extremely easy to use. Participants simply remove the microphone from the charger, un-mute the microphone, and begin speaking. Whether in a boardroom, collaboration room, classroom, lecture hall, broadcast application, or other enterprise environment, Revolabs Executive Elite allows for easy, "untangled" audio via a flexible wireless solution adaptable to any of today's complex communication requirements.

To simplify system integration and system administration tasks, Revolabs Executive Elite provides several local and remote system management interfaces. The base DSP unit's display provides administrators with information on microphone status, audio and radio signal strength, and system performance. The web-based interface also allows both installers and system administrators to manage the system by connecting a laptop or tablet directly to the base DSP unit via USB or the network. The enhanced integration capabilities supporting third-party room control systems enable management of the audio behavior in the room from a single console.

Revolabs Executive Elite ensures that private communication stays private by supporting the highest standards in security. All wireless communication between the microphones and remote antenna receiver units are AES-256 encrypted, with encryption keys automatically updated every few minutes. Wired communication between the Executive Elite remote antenna receiver and base DSP unit is also AES-256 encrypted with automatic key updates.

Revolabs wireless microphone systems communicate within the 1.9 GHz band, making the equipment immune to interference from TV, radio, and RF traffic. The 1.9 GHz band is reserved solely for digital audio communication and is regulated to ensure that different vendor devices do not interfere with each other. To simplify system setup, the Executive Elite remote antenna receiver and microphones dynamically negotiate the frequency and channels for the best possible audio transmission. This relieves end-users and AV managers from having to manually reconfigure systems in the event new wireless devices are put in place in the vicinity. All Revolabs Executive Elite tabletop microphones utilize standard AA nickel metal hydride (NiMH) rechargeable batteries. The XLR adapter, TA4 adapter, and the wearable microphone use a field-replaceable, sealed lithium ion battery. With talk times of 20 hours (8 hours for the wearable microphone, the TA4, and the XLR adapter) and standby times of up to 72 hours, even the longest meetings and events can be completed with ease. Average charge time for microphones is approximately six hours. For installations that require permanent microphone fixtures with wireless audio, Yamaha Unified Communications offers a Cross-Over™ adapter to transform Executive Elite tabletop microphones into an affixed, permanently-powered, wireless audio solution. The Cross-Over adapter also provides "ease of mind," as it allows the microphones to be used while being charged.

SYSTEM COMPONENTS & ACCESSORIES

EXECUTIVE ELITE BASE DSP UNITS	
ELITEEXEC8	Executive Elite 8 Channel system, w/o mics
ELITEEXEC4	Executive Elite 4 Channel system, w/o mics
ELITEEXEC2	Executive Elite 2 Channel system, w/o mics

EXECUTIVE ELITE ACCESSORIES	
DECTMTR01	DECT Monitor (Approval Required before Purchase)
ANTCEIMNTKIT	Remote Antenna dropped ceiling mount kit
ELITEREMANT8	Elite Remote Antenna, 8 mic system FRU
ELITEREMANT4	Elite Remote Antenna, 4 mic system FRU

SPECIFICATIONS

		2-channel	4/8-channel
GENERAL	CHANNELS	2	4,8
	MICROPHONES PER SYSTEM (EU)	2	76 (160 channels available)
	RADIO FREQUENCY (EU)	1880-1900 MHz (DECT EU)	1880-1900 MHz (DECT EU)
	RANGE	90m line-of-sight	90m line-of-sight
		out of range alarms	out of range alarms
	SYNCHRONIZATION	–	Three-wire Synchronization bus
		–	AVB synchronization Radio Frequency
	ENCRYPTION	256-bit key (AES)	256-bit key (AES)
		Automatic key update every few minutes	Automatic key update every few minutes
	BANDWIDTH	20 Hz - 20kHz	20 Hz - 20kHz
BASE DSP UNIT	POWER REQUIREMENTS	100-240 VAC 50/60 Hz, 15W	100-240 VAC 50/60 Hz, 15W
	DISPLAY	Monochrome graphic display; 216 x 64 pixels; 2.8 x 0.8 in (71 x 21 mm)	Monochrome graphic display; 216 x 64 pixels; 2.8 x 0.8 in (71 mm x 21 mm)
	ANTENNA	External receiver, digital connectivity	External receiver, digital connectivity
	ANALOGUE AUDIO OUTPUTS	Mini Phoenix terminal blocks	Mini Phoenix terminal blocks
		Line level input per channel	Line level input per channel
		Selectable line/mic level	Selectable line/mic level output per channel
		Separate output or mixed output	
	AVB AUDIO OUTPUT	–	8 channels, 48kHz, 24 bit
	CONTROL INTERFACES	USB, RS232, Ethernet (10/100 Mbps)	USB, RS232, Ethernet (10/100 Mbps)
	DIMENSIONS	1-U rack-mount, 17.25 x 10 x 1.75 x 8 in (43.03 x 25.5 x 4.42 cm)	1-U rack-mount, 17.25 x 10 x 1.75 x 8 in (43.03 x 25.5 cm x 4.42 cm)
	WEIGHT	2.95 kg	2.95 kg
REMOTE ANTENNA RECEIVER	MOUNT	On wall or ceiling	On wall or ceiling
	CONNECTOR	RJ45	RJ45
	POWER	PoE from base DSP unit	PoE from receiver
	DIMENSIONS	17.3 x 17.3 x 5.1 cm (6.8 x 6.8 x2 in)	17.3 x 17.3 x 5.1 cm (6.8 x 6.8 x2 in)
	WEIGHT	0.45 kg	0.45 kg
CHARGING TRAY	POWER	24V DC 1A (110-240V, 50 Hz – 60Hz power supply included)	24V DC 1A (110-240V, 50 Hz – 60Hz power supply included)
	DIMENSIONS	7.8 x 5 x 1.75 in (19.8 x 12.7 x 4.4 cm)	8 microphone charger: 7.8 x 10 x 1.75 in (19.8 x 25.4 x 4.4 cm)
			4 microphone charger: 7.8 x 5 x 1.75 in (19.8 x 12.7 x 4.4 cm)
	WEIGHT	0.39 kg	0.45 kg
			0.39 kg



EXECUTIVE ELITE (8CH) REAR PANEL

REVOLABS EXECUTIVE ELITE WIRELESS MICROPHONES



UNMATCHED PERFORMANCE, STUNNING STYLE

Revolabs Executive Elite™ microphones merge best-in-class audio with eye-catching design, setting the gold standard for excellence in wireless conference room audio. These innovative wireless microphones feature advanced technologies and extended capabilities that ensure superior audio pickup and sound quality, improved signal-to-noise ratio, enhanced digital signal communication over wireless links, and a user-friendly interface.

HIGHER DENSITY, LONGER USAGE, STRONG SECURITY

The latest advances in the use of the available frequencies allow more Executive Elite microphones to be deployed and used in the same space. Depending on the application, 44 or more wireless microphones can be used per area or room in the Americas and Japan, and 76 or more microphones in Europe and most other countries. In larger installations, several Revolabs Executive Elite base DSP units communicate to coordinate their microphone channels automatically, freeing users from the task of manually assigning and reassigning channels. For longer meetings, Executive Elite microphones work up to 20 hours on a single battery charge, even in settings where receivers are up to 300 feet away. In addition, the microphones intelligently conserve power when they are not in use, enabling standby times of up to 72 hours with a remaining talk time of at least one hour. Revolabs Executive Elite tabletop microphones use standard AA nickel metal hydride (NiMH) rechargeable batteries, while the wearable microphone, the XLR adapter, and the TA4 (mini XLR) adapter are powered by lightweight, sealed, field-replaceable lithium ion batteries with a talk time of up to eight hours.

EASY TO USE, EASY ON THE EYES

Boasting a sophisticated Fortune 500 look and feel, the Executive Elite microphone line includes omnidirectional, directional, gooseneck, and wearable microphones, as well as XLR and TA4 adapters. The line's stylish microphone charger tray lets you charge up to four or eight microphones of any type in the same charger simultaneously. Charge time for a tabletop microphone is approximately six hours.

Once removed from the charger and placed on the conference room table, the Executive Elite microphones are ready for use. A single-button interface enables easy muting and unmuting of microphones, while indicator lights clearly identify the mute status of each unit and make it visible to all meeting participants. The wearable microphone can be comfortably worn by a user on a lapel, shirt, or blouse; there's no need for wires or a bulky battery pack. With the XLR and TA4 adapters, you can use existing microphones and make them wireless on the Executive Elite system.

FLEXIBLE POWER AND CHARGING OPTIONS

If 20 hours of talk time is not enough or if the microphones are not being placed back into the charging tray in order to re-charge fully, the Revolabs Cross-Over™ adapter provides a small charger option that visually disappears under a microphone but allows a microphone to be charged while it is in use. The charger can either be for semi-permanent placement, installed on the table, or serve as an emergency charger in the instance that microphones have not been charged. The Cross-Over adapter also supports a permanent-powered installation, where microphones cannot be moved by users. This solution is perfect for environments where it is difficult or cost prohibitive to run audio wiring, but power is available at the location where the microphones are installed. In permanent installations, the microphone cannot be removed from the Cross-Over charger attachment.

MICROPHONE TYPES



OMNIDIRECTIONAL TABLETOP MICROPHONE

The Revolabs Executive Elite omnidirectional tabletop wireless microphone is the perfect solution for audio and video conferencing in smaller conference rooms. It features a 360 degree pickup pattern to capture all speech above and around the microphone.





DIRECTIONAL TABLETOP MICROPHONE

Perfect for applications ranging from audio and video conferencing in small conference rooms to voice amplification in large auditoriums, the Executive Elite directional tabletop microphones are specifically designed to pick up the speech of one to three people in front of the microphone.





GOOSENECK TABLETOP MICROPHONE, 6" OR 12"

For boardroom and conference settings where participants require individual microphones, Revolabs Executive Elite Gooseneck microphones provide the perfect solution in 6-inch and 12-inch versions. The goosenecks are designed to take up minimal space on the tabletop.





CROSS-OVER ADAPTER

The Revolabs Executive Elite Cross-Over adapter allows powering of any tabletop microphone while the microphone is active. The adapter comes with options for permanent placement of the microphone, or moveable microphones. It serves as an emergency charger for microphones that were not placed in the charger tray at the end of a prior meeting.



WEARABLE MICROPHONE

Presenter microphone for audio and video conferencing sporting a sleek and compact design with a convenient clip for fastening to a lapel, shirt or blouse. Backchannel audio and a headset connector provide user-selectable two-way audio on the Executive Elite system.



XLR ADAPTER

The Revolabs Executive Elite XLR adapter simply plugs into any dynamic handheld microphone, instantly transforming the unit into a wireless microphone on the Executive Elite system for use in audio or video confer-encing, voice amplification, and other applications.



TA4 (MINI XLR) ADAPTER

The Executive Elite TA4 (mini XLR) adapter is ideal for broadcasters, announcers, and presenters who favor small lapel or over-the-ear microphones. This compact mini XLR adapter eliminates the need for bulky belt packs. Backchannel capability provides two-way audio via a headset connector on the adapter, for applications such as simultaneous audio capture and translation for multiple language meetings or conferences.

REVOLABS EXECUTIVE ELITE WIRELESS MICROPHONES

TECHNICAL SPECIFICATIONS

	POLAR PATTERN	BATTERY	ALWAYS ON OPTION	MUTE LED	BATTERY LED	FREQUENCY RESPONSE
OMNIDIRECTIONAL TABLETOP	Omnidirectional	2 AA Rechargeable (NiMH)	✓	✓	✓	100Hz - 20,000Hz
DIRECTIONAL TABLETOP	Cardioid		✓	✓	✓	100Hz - 20,000Hz
GOOSENECK 6IN	Cardioid		✓	✓	✓	100Hz - 20,000Hz
GOOSENECK 12IN	Cardioid		✓	✓	✓	100Hz - 20,000Hz
WEARABLE	Omnidirectional	Sealed Li-Ion (field replaceable		✓	✓	100Hz - 20,000Hz
XLR ADAPTER				✓	✓	20Hz - 20,000Hz
TA4 (MINI XLR) ADAPTER						

GENERAL

CHANNELS
- 4 or 8 channels per system
- 32 or more microphones (60 channels available), North and South America and Japan, HD audio
- 44 or more microphones (80 channels available), North and South America and Japan, regular audio
- 56 or more microphones (120 channels available), Africa, Asia, Australia, and Europe, HD audio
- 76 or more microphones (160 channels available), Africa, Asia, Australia, and Europe, regular audio

SYNCHRONIZATION
- Three wire synchronization bus
- AVB synchronization

RADIO FREQUENCY BANDWIDTH
- North and South America: 1920 to 1930 MHz
- Japan: 1893.5 – 1906.1 MHz
- Africa, Asia, Australia, and Europe: 1880 to 1900 MHz

RANGE
- 300 feet (90 meters) line-of-sight
- Out-of-range alarms

ENCRYPTION
- 256-bit key (AES)
- Automatic key updates every few minutes

BANDWIDTH
- 20 Hz – 20,000 Hz

RF ARMOR	SIGNAL NOISE RATIO	CHARGE TIME	TALK TIME	STANDBY TIME	DIMENSIONS	WEIGHT
✓	70dB@1kHz 94dB SPL	6 hours	20 hours	72 hours	7.9 x 7.9 x 2.9cm (3.125x3.125x1.125in)	134 gr
✓					7.9 x 7.9 x 4.4cm (3.125x3.125x1.75in)	141 gr
✓					9.58 x 7.96 x 18.49cm (3.77x3.14x7.28in)	183.6 gr
✓					9.58x7.96x32.62cm (3.77x3.14x12.84in)	196.2 gr
✓		3 hours	8 hours	44 hours	7.6 x 3.2 x 1.9cm (3 x 1.25 x 0.75in)	35 gr
✓					11.03 x 3.21x 2.534cm (4.34 x 1.26 x 1in)	61 gr
	80dB SPL @1kHz 0dBV Input Signal				10.10 x 3.21 x 2.77cm (3.98 x 1.26 x 1.09in)	56.7 gr

MICROPHONE MODELS & ACCESSORIES

EXECUTIVE ELITE WIRELESS MICROPHPONES	
ELITEMICXLR	Elite XLR Wireless Adapter for Dynamic Handheld Microphone
ELITEMICTA4	Elite TA4 Microphone adapter (belt pack)
ELITEMICWR	Elite Wearable Microphone
ELITEMICOM	Elite Omnidirectional Tabletop Microphone
ELITEMICGN6	Elite 6 inch Gooseneck Microphone
ELITEMICGN12	Elite 12 inch Gooseneck Microphone
ELITEMICDR	Elite Directional Tabletop Microphone
ELITECROV4	Elite Cross-Over adapter 4 pack (includes 4 permanent and 4 removable Cross-Over plates
ELITECROV	Elite Cross-Over adapter (includes permanent and removable Cross-Over plates, (1) 500 mA
ELITEMICBAT	TA4 / Wearable mic replacement battery
ELITEMICBATAA	AA mic replacement battery
ELITECHGPWR	Elite Charger Power supply
08ELITECHG	Elite 8 mic Charger FRU
04ELITECHG	Elite 4 mic Charger FRU

REVOLABS ELITE WIRED MICROPHONES

WIRED MICROPHONES WITH LOCAL AND EXTERNAL CONTROL



Elite Wired Microphones with Local and External Control are available in Omnidirectional and Directional (Cardioid) versions, as well as 6 in (15 cm) and 12 in (30 cm) gooseneck microphones.

Using the same form factor and user interface as Revolabs Executive Elite Wireless Microphones, the Wired Microphones are also ideal for environments in which wired and wireless microphones are used in tandem, increasing the maximum number of microphones available in a space and combining wireless flexibility with the security of wired microphones.

The mute functionality and the indicator lights can be controlled either on the microphone, or in conjunction with a post-processing and control system like a DSP. The local mute capabilities allow muting the audio right on the microphone, before it is delivered to any post-processing equipment. Popular mute functionality like push-to-talk, push-to-mute and mute/unmute toggle are supported on the microphone. The indicator light can be selected to indicate the mute state, typically showing a green light for a live microphone, and a red light for a muted microphone.

Revolabs Elite Wired Microphones provide superior audio quality, setting new standards for signal-to-noise ratio and the supported frequency range. The microphones are impervious to GSM noise from wireless devices.

To match the design and architectural requirement of customer environments, all Elite Wired Microphones with Local and External Control are available in black, white, and brushed nickel. Specifically the different colors of the gooseneck microphones open new opportunities for designers and architects to match technology and room design.

All Elite Wired Microphones come with a mounting adapter, enabling permanent mounting of the microphones.

BENEFITS

SUPERIOR AUDIO QUALITY
Flat frequency response across the supported bandwidth for realistic sound capture.

WIDE VARIETY OF APPLICATIONS
Omnidirectional, Directional (Cardioid), and Gooseneck (Cardioid) versions available supporting a wide variety of environments and applications.

GREAT PRICE, STYLISH DESIGN
Fortune 500 look at an SMB price provides a rich user experience.

REVOLABS RF ARMOR™
Protects against RF noise on the microphone and wiring.

AUDIO DEPENDABILITY
Balanced output for increased immunity to noise over long cable runs.

EASY INSTALLATION
Microphones include 15 foot, 5-wire unterminated shielded wire.

FEATURES

SUPPORTED FUNCTIONALITY

LOCAL CONTROL: push-to-talk, push-to-mute, mute toggle.

EXTERNAL CONTROL: button press provides falling edge (mute toggle), or low level (push-to-mute, push-to-talk); bi-color LED light controlled by ground and +3.3 to +5V.

POLAR PATTERNS



DIRECTIONAL/GOOSENECK



OMNIDIRECTIONAL

REVOLABS ELITE WIRED MICROPHONES

SPECIFICATIONS

	SIGNAL/ NOISE RATIO	IMPEDANCE	LOCAL ATTENUATION	FREQUENCY RESPONSE	DYNAMIC RANGE	PHANTOM POWER	OUTPUT SENSITIVITY	DIMENSIONS	WEIGHT
OMNI-DIRECTIONAL	70 dB	150 ohms	>90 dB	125 to 18,000 Hz	87 dB	23 to 52 V DC phantom, 2.0 mA	-35 dBV/ Pa ±1 dB	79.6 x 79.6 x 29.5 mm (3.13 x 3.13 x 1.17 in)	188 gr.
DIRECTIONAL	68 dB	150 ohms	>90 dB	125 to 18,000 Hz	84 dB	23 to 52 V DC phantom, 2.0 mA	-36 dBV/ Pa ±1 dB	79.6 x 79.6 x 29.5 mm (3.13 x 3.13 x 1.17 in)	204 gr.
GOOSENECK 6 INCH	68 dB	150 ohms	>90 dB	125 to 18,000 Hz	84 dB	23 to 52 V DC phantom, 2.0 mA	-36 dBV/ Pa ±1 dB	89 x 96 x 190 mm (3.5 x 3.77 x 7.48in)	241 gr.
GOOSENECK 12 INCH	68 dB	150 ohms	>90 dB	125 to 18,000 Hz	84 dB	23 to 52 V DC phantom, 2.0 mA	-36 dBV/ Pa ±1 dB	89 x 96 x 190 mm 3.5 x 3.77 x 7.48 in	246 gr.

MICROPHONE MODELS & ACCESSORIES

EXECUTIVE ELITE WIRED MICROPHPONES	
EWM5DRB	Elite Wired Microphone – 5 Wire – Directional Tabletop Microphone - Black
EWM5OMRB	Elite Wired Microphone – 5 Wire – Omnidirectional Tabletop Microphone - Black
EWM5GN12B	Elite Wired Microphone – 5 Wire – 12 inch Gooseneck Microphone - Black
EWM5GN6B	Elite Wired Microphone – 5 Wire – 6 inch Gooseneck Microphone - Black
EWMMNTKIT4B	Elite Wired Microphone – Mounting kit, 4 pack - Black

REVOLABS EXECUTIVE HD

WIRELESS MICROPHONE SYSTEMS



- 4 and 8 Channel systems
- Expandable up to 40 microphones per area
- Optional management software available for management and control
- DECT protocol protects your investment against radio frequency changes
- 128-bit encryption ensures privacy of microphone signal
- Compatible with a variety of HD Wireless™ Microphones

Executive HD™ 4 and 8 Channel wireless microphone system is the perfect solution for executive boardrooms and large conference rooms. The Executive HD is designed for environments requiring a large number of wireless microphones.

The Executive HD wireless microphone system supports up to eight microphones per unit. In North and South America and Japan, four Executive HD Systems can be linked together to support up to 32 microphones in Maximum Density Mode. The Executive HD System also lets you reduce power, which allows more Executive HD Systems to be used in a given area. The ability to reduce the power also enhances the use in sensitive environments as the range can be limited to within a facility. The higher end of Revolabs' HD family of products, the 4 and 8 Channel systems utilizes Revolabs "Designed For Speech" technology, which consists of proprietary audio processing algorithms resulting in the accurate reproduction of human speech. This technology provides wideband frequency, which improves the intelligibility and presence of speech.

The Executive HD has high definition audio allowing the system to pick up the entire human voice spectrum. Revolabs HD wireless microphone systems can be used as audio input for voice and video calls, voice capture for boardrooms or other meetings, voice reinforcement in large auditoriums or for voice applications that require wireless freedom and flexibility.

All Revolabs HD wireless microphones include the RF Armor™ technology, which enables the microphone to operate even when in direct contact with other wireless electronic devices known to cause unwanted audio interference, such as GSM mobile phones, smart phones, etc. Fail-safe security is integrated with all Revolabs wireless microphones using 128-bit encryption, preventingpeople from listening in on conversations.

The HD system includes an LCD display on the front of the Base Station for easy access to system information. There is management software available for remotely monitoring, upgrading and controlling the system through the ethernet connection. The HD Base Station also has serial (RS-232) connectivity, which allows integration with all room control systems.

REVOLABS EXECUTIVE HD



The **EXECUTIVE HD** 4 and 8 Channel wireless systems can be mixed and matched with a variety of HD wireless microphones. Offered separately, the microphones are sleek in design and come in several styles: wearable, tabletop directional, tabletop omnidirectional, XLR Adapter for handheld and broadcast quality microphones, and adapters for Countryman™ micophones. Revolabs microphones and adapters are extremely easy to use. Just remove the microphone from the charger base, un-mute and talk. Additional benefits include are rechargeable battery providing up to eight hours of talk time on a full charge. It takes approximately two hours to fully charge the battery. And best of all, the system is wireless. Enterprise users can move about their conference room and still be heard!

SPECIFICATONS

AUDIO	CHANNELS	4,8
	MICROPHONES PER SYSTEM (EU)	40 (120 channels available)
	RADIO FREQUENCY (EU)	1880-1900 MHz (DECT EU)
	RANGE	90 m line of sight, out of range alarm
	BANDWIDTH	50Hz - 14kHz
BASE STATION	POWER	100V-2409V, 50Hz-60Hz, 20W, IEC universal connector
	CONNECTORS / INTERFACES	High resoluton LCD display
		Channel LED indicators
		Pairing Push Buttons
		USB port (firmware update only)
		RJ45 LAN
		DB9 RS232 serial port
		Configuration DIP switches x 4/8
		3.5 mm Mini Phoenix Line Level Inputs and Line/ Mic Level Outputs x 4/8
		Analogue input 1/4 inch jack / male XLR combo
CHARGER BASE	POWER	Included 24V DC power adaptor, 100-240 VAC 50/60 Hz, 5W
	CONNECTOR	Propietary 4-pin CLR charge jack x 4/8



EXECUTIVE HD (8CH) REAR PANEL

SYSTEM COMPONENTS, MICROPHONES & ACCESSORIES

EXECUTIVE HD BASE DSP UNITS	
HDEXECNM	Executive HD System 8-Channel, w/o mics
HDEXEC4NM	Executive HD System, 4-Channel, w/o mics
ANTEXEC8KIT	Antenna Extension Kit for 8-channel Solo Executive/Executive HD
ANTEXEC4KIT	Antenna Extension Kit for 4-channel Solo Executive/Executive HD/HD Venue

EXECUTIVE HD WIRELESS MICROPHONES	
HDXLRMIC	HD XLR Wireless Adapter for Dynamic Handheld Microphone
HDTBLMICOM	HD Omnidirectional Tabletop Microphone
HDTBLMICDR	HD Directional Tabletop Microphone
HDEXEMIC	HD Wearable Microphone
HDCOMAN	HD Countryman Microphone Adapter

EXECUTIVE HD ACCESSORIES	
HDTBLCHGC	Always-on HD/FLX Wireless Tabletop Microphone Charger
HDMICBAT	Field Replaceable Microphone Battery for HD Microphones
BATCHGADPC	HD/FLX Battery Charger Insert
HDPWR	Power Supply for Executive HD Charger Base
8BATHDCHGC	8 bay charger base with 8 HD/FLX battery charger inserts
4BATHDCHGC	4 bay charger base with 4 HD/FLX battery charger inserts
08HDCHGC	Charger Base for 8-channel Executive HD System
04HDCHGC	Charger Base for 4-channel Executive HD System

UNIFIED COMMUNICATIONS

CS-700

VIDEO SOUND BAR™ FOR HUDDLE ROOMS







IDEAL FOR
- Huddle rooms
- Small conference rooms

KEY BENEFITS
- Wall-mounted all-in-one system
- Super wide-angle camera to capture everybody in small rooms
- Beamforming microphone array
- Audio sound bar
- Remote configuration and management via network
- Simple to install and use

MODELS
- CS-700AV (AV only)
- CS-700SP (AV with SIP interface)

VIDEO AND SOUND HUDDLE ROOM COLLABORATION SOLUTION WITH USB, BLUETOOTH® AND SIP CAPABILITIES

- Fulfills video, audio, and screen sharing requirements in one simple, wall-mounted system addressing all communication and collaboration requirements of the huddle room.
- Industry-leading camera with 120 degree viewing angle, allows viewing of all participants at all times, even in small rooms with no panning or zooming. Just set it and forget it.
- Beamforming microphone array and four speaker sound bar ensures that every word spoken is delivered intelligibly.
- Supports business communication applications typically found in business environments like Microsoft Skype for Business, Google Chromebox for Meetings, BlueJeans, Zoom, GotoConference, Vidyo and others.
- Easy configuration and management of all systems is possible from a remote location simply using a web browser. The integrated provisioning-server interface allows roll out of large number of units with minimal configuration effort.

MODELS

CS700AV	Huddle Room Video Sound Collaboration System (Europe & UK)
CS700SP	Huddle Room Video Sound Collaboration System with VoIP (Europe & UK)
XMCS700	CS-700 Extension Microphone

YAMAHA commercial audio

YVC-200

PERSONAL USB & BLUETOOTH SPEAKERPHONE





IDEAL FOR

- Home offices
- Travel
- BYOD
- Huddle rooms
- Open work spaces
- Remote Collaboration

KEY BENEFITS

- Easy connection for collaboration anytime, anywhere
- Portable design for professional-quality, remote conversations

PERSONAL USB & BLUETOOTH® SPEAKERPHONE FOR ENHANCED AUDIO QUALITY ON THE GO

- Multiple connection options to laptop, phone or tablet by USB, Bluetooth or NFC
- Connect and collaborate easily to your preferred conference application
- Power through rechargable battery for complete portability up to 10 hours or longer through USB connection
- Headphone plug for private listening
- Listen to music in between calls
- Yamaha's professional quality DSPs (Adaptive Echo Cancellation and super-wideband audio)



MODELS

YVC200	Personal USB- & Bluetooth Conference Phone, battery powered, rechargeable, black
YVC200W	Personal USB- & Bluetooth Conference Phone, battery powered, rechargeable, white

UNIFIED COMMUNICATIONS

YVC-300

PORTABLE USB & BLUETOOTH CONFERENCE PHONE



IDEAL FOR
- Huddle rooms
- Small conference rooms
- Touchdown spaces

KEY BENEFITS
- Portable, lightweight design
- Optimized for small group conferencing
- Perfect for open collaboration spaces

PORTABLE USB & BLUETOOTH® CONFERENCE PHONE FOR USE IN HUDDLE SPACES AND SMALL CONFERENCE ROOMS

- USB, Bluetooth and audio in/out connection interfaces
- Calls placed simultaneously over multiple connection interfaces bridge into a single call
- Conveniently powered by USB
- Perfect BYOD phone for use in unequipped conferencing spaces

MODELS

YVC300	Personal USB- & Bluetooth Conference Phone, USB-powered (black)

YAMAHA commercial audio

YVC-1000 / YVC1000MS

USB & BLUETOOTH CONFERENCE PHONE



Certified for Skype for Business

IDEAL FOR

- Medium conference rooms
- Large conference rooms
- Classrooms and training rooms
- Multi-purpose rooms

KEY BENEFITS

- Better audio for computer-based conferencing
- Easy to install and use
- Unlocks full audio capabilities of unified communications solutions

USB CONFERENCE PHONE FOR COMPUTER-BASED AUDIO AND VIDEO CONFERENCING WITH BLUETOOTH® CAPABILITY

- Separate microphone and speaker unit allows speaker to be placed close to a video display and microphone to remain in the center of the table
- Up to five microphones can be daisy-chained together to accommodate rooms with special table configurations, such as a horseshoe setup
- Bridge calls from a smartphone connected by Bluetooth to calls from a video conferencing unit or a computer-based conferencing application connected by USB
- Auto-tuning function detects and monitors the acoustics of the environment to optimize sound processing, which is especially useful after changing a room's configuration and microphone placement
- Yamaha YVC-1000MS brings Skype for Business to life for large meeting spaces

MODELS

YVC1000	USB & Bluetooth Conference Phone for medium spaces, black
YVC1000MS	USB & Bluetooth Conference Phone for medium spaces, skype certified, black
YVC-MIC1000EX	Extension Microphone for YVC-1000

REVOLABS FLXUC 500

USB CONFERENCE PHONE



AVAILABLE IN BLACK AND WHITE

IDEAL FOR
- Huddle rooms
- Small to medium conference rooms
- Executive and home offices

KEY BENEFITS
- Better audio for computer-based conferencing
- Easy to install and use
- Unlocks full audio capabilities of unified communications solutions

USB CONFERENCE PHONE FOR COMPUTER-BASED AUDIO AND VIDEO CONFERENCING
- Realistic sound and easy to understand conversations; ultra-wide-band audio supports frequencies across the full range of human speech
- Two element speaker design improves the quality and volume of sound over a single speaker design
- Four microphones provide full 360° sound pickup and signal processing suppresses background noise
- Integrated control with all major UC soft clients (volume, mute, on/off hook)
- Simultaneous audio capture and play back (full duplex) allows multiple people to speak at once and still be heard
- Unlocks the ultra-wideband audio capabilities available in leading unified communications solutions

MODELS

FLXUC500	USB Conference Phone - International, black
FLXU500W	USB Conference Phone - International, white

REVOLABS FLXUC 1000/1500

IP & USB CONFERENCE PHONE



IDEAL FOR
- Huddle rooms
- Small to large conference rooms

KEY BENEFITS
- Single device for both USB and VoIP communications
- Better audio for computer-based and SIP conferencing
- Easy to install and use
- Unlocks full audio capabilities of unified communications solutions

USB + VOIP CONFERENCE PHONE FOR COMPUTER-BASED AUDIO AND VIDEO CONFERENCING AND TRADITIONAL IP CONFERENCING IN A SINGLE DEVICE

- Bridges IP and USB calls into a single conference
- Realistic sound and easy to understand conversations; ultra-wide-band audio supports frequencies across the full range of human speech
- Two element speaker design improves the quality and volume of sound compared to phones with a single element speaker
- Four microphones provide full 360° sound pickup and signal processing suppresses background noise
- Integrated control with all major UC soft clients (volume, mute, on/off hook)
- SIP compatible and integrates with all market-leading call manager environments
- Simultaneous audio capture and play back (full duplex) allows multiple people to speak at once and still be heard
- Unlocks the ultra-wideband audio capabilities available in leading unified communications solutions
- Power over Ethernet (PoE) eliminates extra wires; optional power injector available

MODELS

FLXUC1000	IP & USB Conference Phone
FLXUC1500	IP & USB Conference Phone with 2 expension MIcs

REVOLABS FLX 2

WIRELESS CONFERENCE PHONE



IDEAL FOR
- Small conference rooms
- Executive offices

KEY BENEFITS
- Wireless freedom in a conference phone
- Flexible placement of microphones and speakers

MODELS
- VoIP with 1 speaker
- VoIP with 2 speakers
- Analog with 1 speaker
- Analog with 2 speakers

MICROPHONES
- Wearable lapel
- Omnidirectional tabletop
- Directional tabletop

THE WORLD'S FIRST WIRELESS CONFERENCE PHONE

- Modular design allows complete flexibility for placement of microphones, speaker and dialer from one meeting to the next
- Turn a smartphone call into a conference call by connecting over Bluetooth
- Wireless dialer serves as handset for dialing and taking private calls
- Connect video conferencing units and personal computers using audio in/out ports
- Bridge calls from an IP PBX or a smartphone connected with Bluetooth to calls from a video conferencing unit or a computer-based UC client
- Mix and match any two microphones
- 8 hours talk time

SYSTEM COMPONENTS, MICROPHONES & ACCESSORIES

FLX2200VOIP	FLX 2 VoIP SIP System w/ two Omnidirectional Tabletop Microphones
FLX2200POTS	FLX 2 Analog POTS System w/ two Omnidirectional Tabletop Microphones
FLX2200DLVOIP	FLX 2 VoIP SIP System w/ two Omnidirectional Tabletop Microphones and two speakers
FLX2200DLPOTS	FLX 2 Analog POTS System w/ two Omnidirectional Tabletop Microphones and two speakers
FLX2101VOIP	FLX 2 VoIP SIP System w/ one Omnidirectional Tabletop and one Wearable Microphone
FLX2101POTS	FLX 2 Analog POTS System w/ one Wearable & one Omnidirectional Tabletop Microphone
FLX2020VOIP	FLX 2 VoIP SIP System w/ two Directional Tabletop Microphones
FLX2020POTS	FLX 2 Analog POTS System w/ two Directional Tabletop Microphones
FLX2BASEVOIP	FLX 2 VoIP Base Station
FLX2BASEPOTS	FLX 2 Analog POTS Base Station

MICROPHONES	
FLXMICWR	FLX Wearable Microphone
FLXMICOM	FLX Omnidirectional Tabletop Microphone
FLXMICDR	FLX Directional Tabletop Microphone

ACCESSORIES	
FLXSPEAKER	FLX Wireless Speaker
FLXSNDSPKKIT	FLX 2nd Speaker Bundle (Speaker, Charger Base)
FLXHDDIALER	FLX Wireless Bluetooth Dialer
FLXBASEPWR	Power Supply for FLX Analog POTS Base Station
FLXCHGPWR	Power Supply for FLX Charger Base
FLX2CHG	Charger Base for 2 Channel FLX
FLXHDDLERBAT	Battery for FLX Wireless Bluetooth Dialer
FLXMICBAT	Battery for FLX Wireless Microphone
FLXSPKERBAT	Battery for FLX Wireless Speaker

REVOLABS HD SINGLE / DUAL / VENUE

WIRELESS MICROPHONE SYSTEMS



IDEAL FOR
- Auditoriums
- Classrooms and training rooms

KEY BENEFITS
- Clear, intelligible sound
- Freedom to move around the room without wires
- Choice of plug-and-play or rackmount installation

MODELS
- HD Single 1-channel
- HD Dual 2-channel
- HD Venue 2-channel (rackmount)

MICROPHONES
- Wearable lapel
- Directional tabletop
- Omnidirectional tabletop
- Countryman adapter
- XLR adapter

WIRELESS MICROPHONE SYSTEM FOR LECTURE ROOMS AND CONFERENCE SPACES REQUIRING A SMALL NUMBER OF MICROPHONES
- Use for voice amplification/reinforcement and lecture capture
- Use with video conferencing systems and on video carts
- Wideband audio picks up frequencies across the full range of human voice for clear, intelligible reproduction of speech
- Control audio options using switches to select output, line and microphone levels
- Mix microphone channels on multi-channel systems in the base unit or manage channels independently
- 128-bit encryption prevents unwanted people from being able to listen in
- 8 hours talk time, 2 hours charge time

SYSTEM COMPONENTS, MICROPHONES & ACCESSORIES

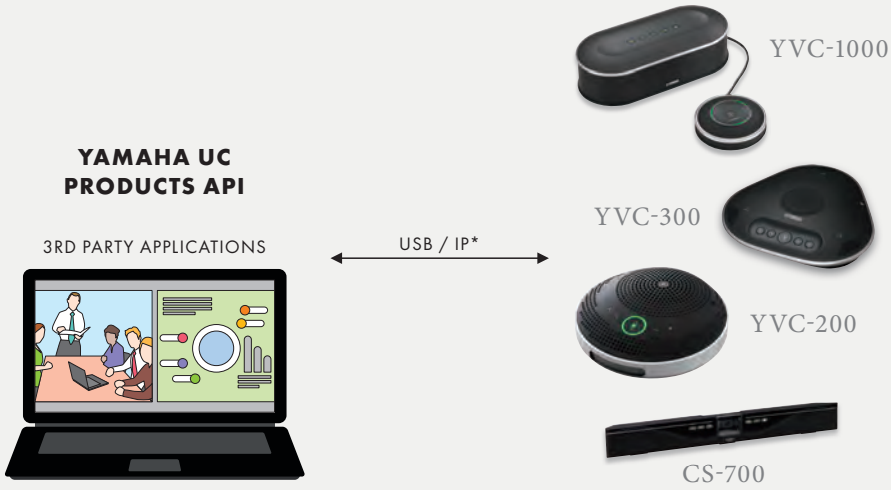
HD SINGLE/DUAL/VENUE	
HDSGLNM	Single Channel System, 1-Ch, 1 analog I/O, w/o mic
HDDUALNM	Dual Channel System, 2-Ch, 2 analog I/O, w/o mic
HDVENUNM	Rackmount HD 2-Channel, XLR/ ¼" I/O, w/o mics

HD WIRELESS MICROPHONES	
HDXLRMIC	HD XLR Wireless Adapter for Dynamic Handheld Microphone
HDTBLMICOM	HD Omnidirectional Tabletop Microphone
HDTBLMICDR	HD Directional Tabletop Microphone
HDEXEMIC	HD Wearable Microphone
HDCOMAN	HD Countryman Microphone Adapter

ACCESSORIES	
HDTBLCHGC	Always-on HD/FLX Wireless Tabletop Microphone Charger
HDVENBSECHG	HD Venue Charger
HDDUALCHG	HD Dual Charger
HDMICBAT	HD MIC BATTERY Replacement Lithium Ion

YAMAHA UC PRODUCTS API

Yamaha provides APIs (Application Programming Interfaces) for third-party application control of the **YVC-1000**, **YVC-300**, **YVC-200** and **CS-700**. Programmers can use all functions featured on the YVC-1000, YVC-300, YVC-200, and the CS-700 through the API, and manage the unit directly without the use of Yamaha's standard interfaces.



* IP ACCESS IS ON THE CS-700 ONLY.

- THE API AND FULL DOCUMENTATION FOR EACH PRODUCT CAN BE DOWNLOADED FROM THE YAMAHA WEBSITE FOR FREE.

PRODUCT



YVC-1000
Unified Communications Microphone & Speaker System



YVC-200
Unified Communications Speakerphone



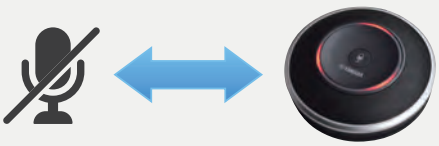
YVC-300
Unified Communications Speakerphone



CS-700
Video Sound Collaboration System for Huddle Rooms

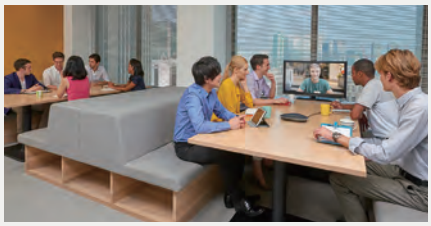
WHAT YOU CAN DO WITH THE API

MICROPHONE MUTE SYNCHRONIZATION WITH UC APPLICATIONS



Monitor and issue microphone mute event to/from Yamaha products

CHANGE THE MICROPHONE PICKUP MODE FOR OPEN SPACES



Disable AGC function and fix microphone pick-up direction to eliminate noise

CONTROL MICROPHONE AND SPEAKER EQ



In a room with strong reverberation, cut the low frequency factor from the sound picked up by the microphone

INCREASE SUPPORT EFFICIENCY



Get serial number, firmware version and more configuration information

...AND MORE

MORE INFORMATION

To get the API for your product, please visit https://uc.yamaha.com/resources/support/api/
To find out more, contact us at https://uc.yamaha.com/contact-us/



NEXT

AUDIO VISUAL PRODUCTS


STATUS
1
STANDBY
CONNECT
USB
5V ⎓ 0.5A
STATUS
2
STANDBY
CONNECT
USB
5V ⎓ 0.5A
STATUS
3
STANDBY
CONNECT
USB
5V ⎓ 0.5A
STATUS
4
STANDBY
CONNECT
USB
5V ⎓ 0.5A
MusicCast

CONFERENCE

BACKGROUND MUSIC

MULTI-ROOM AMPLIFIERS

RACK MOUNT MUSICCAST 4 ZONE, 8 CHANNEL POWER AMPLIFIERS



AirPlay

MusicCast Wireless Music System

Spotify For music.

XDA-QS5400RK & XDA-AMP5400RK





XDA-QS5400RK QUAD STREAMER

Specially designed for custom integration of whole home audio systems, the "QS" (Quad Streamer) provides four zones of audio streaming and eight channels of high-performance audio amplification in an ultra-slim, 1U-high, rack-mountable enclosure. Expandable and extremely flexible, the QS works with the MusicCast multi-room audio system, allowing it to be linked with home theater AV receivers, sound bars and Hi-Fi gear in a wide variety of configurations.

XDA-AMP5400RK QUAD AMPLIFIER

Multi-Room Amplifier (4 Zone, 8 Channel)

Specially designed for custom integration of whole home audio systems, the "AMP" serves as a companion amplifier for the Yamaha XDA-QS5400RK to expand speaker coverage and/or increase power output. It may also be used to expand secondary zone speaker coverage for Yamaha AV receivers that have Zone pre outs.



- Designed for custom integration of a MusicCast multi-room audio system connected via Ethernet LAN in a rack or cabinet
- Streams four zones of audio per unit, expandable to 32 zones with simultaneous playback in linked groups of up to 20 zones each
- Eight channels of audiophile-grade Class D amplification assignable to any zone, bridgeable and 4-ohm capable, featuring a unique ground loop/hum-free circuit design
- Built-in Pandora®, Spotify Connect, SiriusXM Internet Radio, TIDAL, Deezer, Napster and more, plus access to music libraries and linked external sources
- Easy control via a free MusicCast app and 3rd-party control systems
- 1U high, rack-wide enclosure; removable rack ears and faceplate included



- Works together with Yamaha XDA-QS5400RK to expand speaker coverage in custom integrated multi-room audio systems
- Eight channels of audiophile-grade Class D amplification, bridgeable and 4-ohm capable, featuring a unique ground loop/hum-free circuit design
- Four audio buses and included jumpers allow for wide variety of speaker configurations
- Interlocks power on/off with XDA-QS5400RK via Trigger I/O
- Integration-friendly features include audio sensing inputs, IR I/O and more
- 1U high, rack-wide enclosure; removable rack ears and faceplate included

	XDA-QS5400RK	XDA-AMP5400RK
FILE FORMAT	MP3/WMA/MPEG-4 AAC, ALAC: up to 96 kHz/ 24-bit, WAV/FLAC/AIFF: up to 192 kHz / 24-bit	–
ETHERNET	Yes (2 terminals)	–
AIRPLAY	Yes	–
CHANNEL	8 channel (2 channel x 4)	8 channel (2 channel x 4)
MINIMUM SPEAKER LOAD CAPABILITY	4 ohm	4 ohm
BTL CONNECTION	Yes	Yes
SPEAKER OUTPUT TERMINAL	4 (Euroblock)	4 (Euroblock)
PREOUT TERMINAL	4	–
AUDIO INPUT TERMINAL	RCA: 2 (CUT IN, AUX), USB: 4	RCA: 4
AUDIO OUTPUT TERMINAL	RCA (2-ch through out): 2 (CUT IN, AUX)	RCA (2-ch through out): 4
TRIGGER IN / OUT	0 / 4	0 / 4
REMOTE IN / OUT	1 / 1	1 / 1
CHIME	4	–
RATED OUTPUT POWER (1 KHZ, 0.9% THD, 2CH DRIVEN)	Normal (4/8 ohms): 90/50W, Bridge (8 ohms): 100W	Normal (4/8 ohms): 90/50W, Bridge (8 ohms): 100W
RATED OUTPUT POWER (1 KHZ, 0.9% THD, 1CH DRIVEN)	Normal (4/8 ohms): 100/50W, Bridge (8 ohms): 200W	Normal (4/8 ohms): 100/50 W, Bridge (8 ohms): 200W
DYNAMIC POWER (20 HZ-20 KHZ, 0.08% THD, 2CH DRIVEN, 20 MS BURST)	Normal (4/8 ohms): 80/40W, Bridge (8 ohms): 150W	Normal (4/8 ohms): 80/40W, Bridge (8 ohms): 150W
DYNAMIC POWER (1 KHZ, 0.9% THD, 2CH DRIVEN, 20 MS BURST)	Normal (4/8 ohms): 100/50W, Bridge (8 ohms): 200W	Normal (4/8 ohms): 100/50 W, Bridge (8 ohms): 200W
DYNAMIC POWER (1 KHZ, 0.9% THD, ALL CH DRIVEN, 20 MS BURST)	Normal (4/8 ohms): 80/50 W, Bridge (8 ohms):170W	Normal (4/8 ohms): 80/50W, Bridge (8 ohms): 170W
MAXIMUM EFFECTIVE OUTPUT POWER	[1-ch driven, 1 kHz, 10% THD] Normal (4/8 ohm): 130/65W, Bridge (8 ohm): 260W	[1-ch driven, 1 kHz, 10% THD] Normal (4 / 8 ohm):130 / 65 W, Bridge (8 ohm): 260 W
TOTAL HARMONIC DISTORTION	[SP OUT, 20 Hz-20 kHz, 25 W, 8 ohm] 0.04%, [PRE OUT, 20 Hz-20 kHz, 1 V] 0.005%	[SP OUT, 20 Hz-20 kHz, 25 W, 8 ohm] 0.04%
FREQUENCY RESPONSE	[1 kHz + 0 / -3 dB] PRE OUT NET/USB IN, AUX IN: 10 Hz-22 kHz, SP OUT NET/USB IN, AUX IN: 10 Hz-22 kHz	[1 kHz + 0 / -3 dB] SP OUT AUX IN: 5 Hz-40 kHz
SIGNAL TO NOISE RATIO	[PRE OUT NET / USB IN] 114 dB, [PRE OUT AUX IN] 108 dB, [SP OUT NET / USB IN] 106 dB, [SP OUT AUX IN] 104 dB	[SP OUT AUX IN] 108 dB
RATED OUTPUT LEVEL / OUTPUT IMPEDANCE	[PRE OUT L / R, 1 kHz] 2.0 V / 470 ohm	–
MAXIMUM OUTPUT LEVEL	[PRE OUT L / R, 0.9% THD] 4.0 V	–
MAXIMUM INPUT SIGNAL	[PRE OUT L / R, 0.9% THD] 2.4 V	[PRE OUT L / R, 0.9% THD] 1 V
GAIN	[SP OUT 1 V Input] 25.8 dB	[SP OUT 1 V Input] 25.8 dB
INPUT SENSITIVITY	[1 W Power, 8 ohm] 150 mV, [MAX (50W) Power, 8 ohm] 1.0 V	[1 W Power, 8 ohm] 150 mV, [MAX (50W) Power, 8 ohm] 1.0 V
WEB SETUP	Yes	–
DIRECT MODE	Yes	–
MONAURAL DOWNMIX	Yes (stereo playback or monaural downmix selectable)	–
COMPRESSED MUSIC ENHANCER	Yes	–
VOLUME ADAPTIVE EQ	Yes	–
VOLUME CONTROL	Support Terminals: PRE OUT / SP OUT, Range: Mute, -80 dB ~ 0 dB, Step: 0.5 dB	–
EQ CHARACTERISTICS	[Bass] Variable Width: +6.0 dB ~ -6.0 dB/0.5 dB step, Centre Frequency: 350 Hz, [Mid] Variable Width: +6.0 dB ~ -6.0 dB/0.5 dB step, Centre Frequency: 1.1 kHz, [Treble] Variable Width: +6.0 dB ~ -6.0 dB / 0.5 dB step, Centre Frequency: 3.5 kHz	–
BASS EXTENSION	Yes	–
POWER CONSUMPTION	130W, [All Zone On] No Signal Condition: 40W, [All Zone Off] Chime On: 18.2W, Cut In Power On Enable: 18.2W	130W, [All Zone On] No Signal Condition: 32W, [All Zone Off] Audio Sense On: 14.8W
STANDBY POWER CONSUMPTION	Network Standby Off: 0.2W, Network Standby On (1 Zone): 3.2W, Network Standby On(All Zone): 6.0W	Audio Sense Disable: 0.3W, Audio Sense Enable / Mode Standby: 0.5W
POWER MANAGEMENT (AUTO POWER STANDBY)	5/20 min, 2/4/8/12 hours selectable	Yes (On/Off)
DIMENSION (W × H × D)	Table Top Mount with Adhesive Feet: 437x46x 443mm; Table Top Mount with Adhesive Feet and Faceplate: 437x46x453mm; Rack Mount: 481x44x443mm; Rack Mount with Faceplate: 481x44 x453mm	Table Top Mount with Adhesive Feet: 437x46x443mm; Table Top Mount with Adhesive Feet and Faceplate: 437x46x453mm; Rack Mount: 481x44x443mm; Rack Mount with Faceplate: 481x44x453mm;
WEIGHT	6.3 kg	6.0 kg



XDA-QS5400RK REAR PANEL



XDA-AMP5400RK REAR PANEL

CONFERENCE

BACKGROUND MUSIC

MUSICCAST WXC-50 & WXA-50

SIMPLE AND FLEXIBLE, FOR ULTIMATE LISTENING FREEDOM

The **WXC-50** is a new-concept audio component that goes beyond conventional audio thinking. It let you access a wide variety of audio content such as music from streaming services or stored on a smartphone, and enjoy high quality sound and style thanks to the ability to network with Yamaha's exclusive MusicCast multi-room audio system. High functionality and performance bring you musical enjoyment for domestic, retail, hospitality, conference, presentation and many more applications





WXC-50



WXA-50

	WXC-50	WXA-50
NETWORK SECTION	DLNA version 1.5	DLNA version 1.5
FILE FORMAT	MP3, WMA, MPEG4, AAC, WAV, FLAC, AIFF, ALAC, DSD	MP3, WMA, MPEG4 AAC, WAV, FLAC, AIFF, ALAC, DSD
WI-FI / AIRPLAY / BLUETOOTH	Yes / Yes / Yes (SBC / AAC)	Yes / Yes / Yes (SBC / AAC)
RATED OUTPUT POWER	–	70 W + 70 W (6 ohms, 20 Hz-20 kHz, 0.06 % THD, 2-ch driven)
MAXIMUM OUTPUT POWER	–	90 W + 90 W (6 ohms, 1 kHz, 0.9 % THD, 1-ch driven)
PURE DIRECT	Yes	Yes
TOTAL HARMONIC DISTORTION (20 HZ-20 KHZ)	0.003 % (Pre out)	0.02 % (SP out)
SIGNAL-TO-NOISE RATIO	112 dB (Opt / Net / USB / Bluetooth in) / 98 dB (AUX in)	110 dB (Opt / Net / USB / Bluetooth in) / 98 dB (AUX in)
AUDIO IN / OUT	1/1	1/1
DIGITAL IN / OUT	1 (Optical) / 1 (Optical, Coaxial)	1 (Optical) / -
USB INPUT / ETHERNET / PRE OUT	1 / 1 / 1	1 / 1 / –
SUBWOOFER OUT	1	1
REMOTE IN / OUT	1 / 0	1 / 0
CONTROL (TRIGGER) IN / OUT	1/1	1/1
STANDBY POWER CONSUMPTION	1.8 W	1.8 W
DIMENSIONS (W X H X D)	215 x 51.5 x 245.9 mm (with antenna: 214 x 123.6 x 245.9 mm)	215 x 51.5 x 251.4 mm (with antenna: 214 x 123.6 x 251.4 mm)
WEIGHT	1.44 kg	1.94 kg

WXAD-10

CONFERENCE BACKGROUND MUSIC

MUSICCAST WIRELESS STREAMING ADAPTOR

The **WXAD-10** supports wireless music playback with Bluetooth® and Airplay® music streaming services, plus more, and is compatible with Yamaha's wireless music system MusicCast, opening up a new world of music. The WXAD-10 has high-performance wireless network capabilities that let you stream digital music content from your smartphone or tablet, as well as music libraries from your computer or network storage. A variety of online streaming services and Internet radio can also be accessed for any music you want. In addition, with the MusicCast sharing and control features, you can share music with MusicCast-enabled devices in multiple zones.





AirPlay JUKE! ECO

Made for iPod iPhone iPad

pandora napster TIDAL DEEZER qobuz Wi Fi CERTIFIED

MusicCast WXAD-10 musicCast dlna Bluetooth Spotify

CD PLAYER

CONFERENCE BACKGROUND MUSIC AUDIO / VIDEO



CD-S300RK



CDC-600RK



CD-N301

	CD-S300RK	CDC-600RK	CD-N301
COMPATIBLE MEDIA	CD-R, CD-RW	5-CD changer : CD-R, CD-RW	CD-DA, CD-R, CD-RW, Streaming DLNA Ver 1.5
COMPATIBLE AUDIO FORMATS	CDA, MP3, WMA , CD Text	CDA, MP3, WMA , CD Text	MP3, WMA, AAC, WAV, FLAC
D/A CONVERSION	24bits/192kHz	24bits/192kHz	32bit/192 kHz
USB	1 front, iPod 1 compatible	1 front, iPod 1 compatible	–
DIGITAL OUTPUTS	Optical + Coaxial	Optical	Optical x 1, Coaxial x 1
ANALOGUE OUTPUTS	1	1	1
ETHERNET PORTS	–	–	1
PORT RS-232C	–	Yes	–
DIMENSIONS (W X H X D)	480 x 86 x 260 mm	480 x 116 x 405 mm	435 x 86 x 260 mm
WEIGHT	4 kg	6.2 kg	3.2 kg
RACK EARS	Yes	Yes	–

CONFERENCE | BACKGROUND MUSIC | AUDIO / VIDEO

BLU-RAY PLAYER



BD-S681



BD-A1060

BD-S681	
COMPATIBLE MEDIA	DLNA, USB, BD-Video, BD-R/RE (BD-MV), DVD-Video, DVD-R/-RW (DVD-Video, DVD-VR), DVD+R/+RW (Video & VR mode), CD-DA, CD-R/-RW
COMPATIBLE VIDEO FORMATS	MKV avec H.264, MPEG PS, MPEG TS, MPEG-4, VOB, AVI, ASF, WMV, AVCHD
COMPATIBLE AUDIO FORMATS	MP3, WMA , AAC , WAV, FLAC
COMPATIBLE IMAGE FORMATS	JPEG, GIF, PNG
D/A CONVERSION	24bits/192kHz
HDMI OUTPUT	Compatible 1080p/24 Hz
USB	2 (front & rear)
DIGITAL AUDIO OUTPUTS	Optical + Coaxial
ANALOGUE OUTPUTS	1 Stereo
ETHERNET PORTS	1 (integrated WIFI)
PORT RS-232C	–
DIMENSIONS (W X H X D)	435 x 86 x 257 mm
WEIGHT	2.7 kg

BD-A1060	
OUTPUT POWER	surround 7.2 - 7 x 100W (20Hz - 20KHz)
DECODING FORMATS	Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Surround, DTS-HD Master Audio
COMPATIBLE IMAGE	JPEG, GIF, PNG
D/A CONVERSION	32bits/192KHz
HDMI OUTPUT	480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 1080p@24Hz, 4K (2160p) @24Hz
USB	1 (front & rear)
DIGITAL AUDIO OUTPUTS	optical & coaxial
ANALOGUE OUTPUTS	1 (XLR balance)
ETHERNET PORTS	1 (integrated WiFi)
PORTS RS232-C	Yes
DIMENSIONS	435 x 68 x 262mm
WEIGHT	3.8 kg

TUNER



T-S500

T-S500	
BANDS	FM/AM
FUNCTIONS	RDS, PI, PTY, TP
TUNING	Manual & Automatic
TUNING MEMORY	Automatic
STATTION SELECTION	front panel touch controls
DIMENSIONS (W x H x D)	435 x 87 x 306 mm
WEIGHT	3.2 kg

AMPLIFIER



A-S301



A-S501

	A-S301	A-S501
OUTPUT POWER	2x 60 W (8 ohms)	2x 85 W (8 ohms)
CHASSIS	TopArt anti-resonance	TopArt anti-resonance
INPUTS	7 including 1 phono	7 including 1 phono
OUTPUTS	3 including 1 subwoofer out	3 including 1 subwoofer out
HEADPHONES	1 x front	1 x front
REMOTE CONTROL	Infrared	Infrared
DIMENSIONS (W x H x D)	435 x 151 x 387 mm	435 x 151 x 387 mm
WEIGHT	9 kg	10.3 kg

TUNER AMPLIFIERS

Wireless Music System
MusicCast



RX-V485

Wireless Music System
MusicCast



RX-V685

	RX-V485	RX-V685
OUTPUT POWER	Surround 5.1 - 6 x 80W (20Hz - 20 kHz)	Surround 7.2 - 7 x 95W (20Hz - 20kHz)
POST BI-AMPING	–	Yes
DECODING FORMATS	DolbyTrueHD, DTS-HD Master Audio	DolbyTrueHD, DTS-HD Master Audio
D/A CONVERTERS	Burr-Brown 24bit/192kHz	Burr-Brown 24bit/192kHz
AUDIO FORMATS	DSD 2.8MHz/5.6MHz, FLAC, WAV, AIFF 192kHz/24Bit, Apple Lossless 96kHz/24Bit, MP3, WMA, AAC	DSD 2.8MHz/5.6MHz, FLAC, WAV, AIFF 192kHz/24Bit, Apple Lossless 96kHz/24Bit, MP3, WMA, AAC
MULTI-ZONE	–	Zone 1 (surround) + zone 2 (stereo)
DIGITAL INPUTS	3	4
ANALOGUE INPUTS	4	5
ANALOGUE OUTPUTS	0	0
PRE-OUTPUTS	Subwoofer	7.2 channel
AIR PLAY (STREAMING)	PC, Mac, iPop, iPhone, iPad	PC, Mac, iPop, iPhone, iPad
HDMI	6 Inputs + 1 output	6 Inputs + 2 outputs
UPSCALING VIDEO	–	UHD / 4K to Full HD1080p
RS232C/RS422	–	–
MUSICCAST COMPATIBLE	Yes	Yes
DIMENSIONS (W X H X D)	435 x 161 x 315 mm	435 x 171 x 364 mm
WEIGHT	8.1 kg	10.6 kg



RX-A1080



RX-A3080

	RX-A1080	RX-A3080
OUTPUT POWER	surround 7.2: 7 x 100W (20Hz - 20KHz)	surround 9.2: 7 x 150W (20Hz - 20KHz)
DECODING FORMATS	Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Surround, DTS-HD Master Audio	Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Surround, DTS:X, DTS-HD Master Audio
BI-AMP CAPABILITY	Yes	Yes
D/A CONVERTERS	24bit / 192KHz (Burr-Brown)	24bit / 192KHz ESS SABRE32™ Ultra DAC (for main 7 channels)
CONNECTIVITY	HDMI Input/Output: 8 (HDMI1,2,3: HDCP2.2 compatible) / 2 (HDCP2.2 compatible)	HDMI Input/Output: 8 (HDMI1-7: HDCP2.2 compatible) / 2 (HDCP2.2 compatible)
USB INPUT	USB Memory, Portable Audio Player	USB Memory, Portable Audio Player
NETWORK PORT	Yes	Yes
WI-FI	Yes (with Wireless Direct)	Yes (with Wireless Direct)
AIRPLAY	Yes	Yes
BLUETOOTH	Yes (SBC / AAC)	Yes (SBC / AAC)
FRONT AV INPUT	HDMI / USB / Analogue Audio / Composite	HDMI / USB / Analogue Audio / Composite
COMPOSITE VIDEO INPUT/OUTPUT	5 (front 1) / 1	5 (front 1) / 1
APP CONTROL	Yes (iPhone / iPad / Android phone / tablet)	Yes (iPhone / iPad / Android phone / tablet)
WEB BROWSER CONTROL	Yes	Yes
REMOTE CONTROL UNIT	Yes	Yes (Preset)
RS-232C INTERFACE	Yes	Yes
DIMENSIONS (W X H X D)	435x171x382 mm (with antenna up: 435x234x382 mm); 17-1/8"x6-3/4"x15" (with antenna up: 17-1/8"x9-1/4"x15")	435x192x474 mm (with antenna up: 435x247x474 mm); 17-1/8"x7-1/2"x18-5/8" (with antenna up: 17-1/8"x 9-3/4"x18-5/8")
WEIGHT	10.5 kg; 23.2 lbs.	19.6 kg; 43.2 lbs.
MUSICCAST COMPATIBLE	Yes	Yes

SOUND PROJECTORS

Wireless Music System
MusicCast



YSP-5600SW

	YSP-5600SW
SOUND PROJECTOR	7.1.2 channel + NS-SW300 Subwoofer
DECODING FORMATS	Dolby Atmos, Dolby True HD, Dolby Digital/Plus/EX, DTS:X/HD Master Audio/HD High Resolution/Digital Surround/ES, DTS 96/24, LPCM
SPEAKERS	vertical sound beam: 1-1/8" x 6 x 2 beam drivers, horizontal sound beam: 1-1/2" x 32 beam drivers, 4-1/2" x 2 woofers. Subwoofer NS-SW300: 10" cone
OUTPUT POWER	88W array speakers, 40W woofers, 250W Subwoofer
DIGITAL INPUTS	2 digital, 1 optical
ANALOGUE INPUTS	1 in
HDMI	4 in, 1 out
MUSICCAST COMPATIBLE	Yes
DIMENSIONS (HxWxD)	YSP5600: 1100 x 212 x 93mm, NS-SW300: 350 x 366 x 420 mm
WEIGHT	YSP5600: 11.7kg, NS-SW300: 18kg

MUSICCAST WIRELESS SPEAKERS



Wireless Music System MusicCast

MUSICCAST 20 (WX-021)



Wireless Music System MusicCast

MUSICCAST 50 (WX-051)

- Music streaming services built-in
- MusicCast multi-room technology
- Alexa voice control compatibility (Availability varies by region)
- High-Resolution Audio
- Stereo pairing (requires 2 units)
- Ability to be used as surround speakers with an AV receiver or sound bar (selected MusicCast models only)
- Soft-touch, simple presets for instant playback
- Alarm

Wireless Music System MusicCast

HIFI ACTIVE SPEAKER

NX-N500 – POWERED SPEAKER

ALL-IN-ONE MUSICCAST SPEAKERS

- 140W total output power for thrilling sound and profound musicality.
- Bi-amp drive and XLR cable provide superb sound quality.
- DSD 5.6 MHz native, PCM 384 kHz playback compatibility.



NX-N500

NS-AW SERIES

BACKGROUND MUSIC

LOW IMPEDANCE ALL WEATHER WALL MOUNT SPEAKERS

- HIGH QUALITY 2-WAY SPEAKER ENCLOSURES FOR AV USE
- IPX3 FOR OUTDOOR USE
- AVAILABLE IN UV RESISTANT BLACK OR WHITE COATING
- INCLUDING WALL MOUNT BRACKET
- ROTATABLE YAMAHA LOGO



NS-AW392B / NS-AW592B



NS-AW392W / NS-AW592W

		NS-AW392	NS-AW592
COMPONENTS	LF	5" Cone	6.5" Cone
	HF	0.75" Soft dome	1" Soft dome
NOMINAL IMPEDANCE		6Ω	6Ω
POWER RATING	NOISE	40W	50W
	MAX	120W	150W
SENSITIVITY (1W,1M)		86dB SPL	88dB SPL
MAXIMUM SPL (CALCULATED, 1M)		106dB SPL	109dB SPL
FREQUENCY RANGE	-10dB	60Hz - 25kHz	55Hz - 20kHz
CROSSOVER FREQUENCY		6kHz	5kHz
CONNECTORS		binding post	binding post
COLOR (GRILLE)		NS-AW392BL: Black NS-AW392W: White	NS-AW592BL: Black NS-AW592W: White
DIMENSIONS (W x H x D)		170 x 273 x 136 mm	206 x 340 x 170 mm
WEIGHT		1.8 kg (4lbs)	2.4 kg (5.3lbs)
INCLUDED ACCESSORIES		wall-mount adaptor, Owner's Manual	wall-mount adaptor, Owner's Manual
PACKAGING		per pair	per pair

NS-IC SERIES

LOW IMPEDANCE CEILING SPEAKERS

- CEILING SPEAKERS FOR AV USE, LOW IMPEDANCE ONLY
- MAGNETIC GRILLE MOUNT



NS-IC400



NS-IC600



NS-ICS600



NS-IC800

		NS-IC800	NS-IC600	NS-ICS600	NS-IC400
SPEAKER TYPE		2-way	2-way	2-way with stereo swivel tweeter	Full range
COMPONENTS	LF	8" Cone	6.5" Cone	6.5" dual voice coil Cone	4" Cone
	HF	1" Soft dome	1" Soft dome	1" Soft dome x 2	
NOMINAL IMPEDANCE		8Ω	8Ω	8Ω	8Ω
POWER RATING	NOISE	50W	40W	2 x 20W	30W
	MAX	140W	110W	2 x 60W	90W
SENSITIVITY (1W,1M)		90dB SPL	90dB SPL	89dB SPL	85dB SPL
MAXIMUM SPL (CALCULATED, 1M)		111dB SPL	110dB SPL	109dB SPL	104dB SPL
FREQUENCY RANGE (-10dB)		50Hz - 28kHz	65Hz - 28kHz	65Hz - 28kHz	95Hz - 40kHz
CROSSOVER FREQUENCY		3.5kHz	3.2kHz	3.2kHz	–
CONNECTORS		wire-end clamp	wire-end clamp	wire-end clamp	wire-end clamp
COLOR (GRILLE)		White	White	White	White
DIMENSIONS		Ø283 x 120 mm	Ø242 x 119 mm	Ø242 x 119 mm	Ø150 x 86.5 mm
WEIGHT		1.9 kg	1.5 kg	1.8 kg	0.8 kg
PACKAGING		per pair	per pair	per unit	per pair

MUSICCAST

BACKGROUND MUSIC

AUDIO / VIDEO

Wireless
Music
System

MusicCast

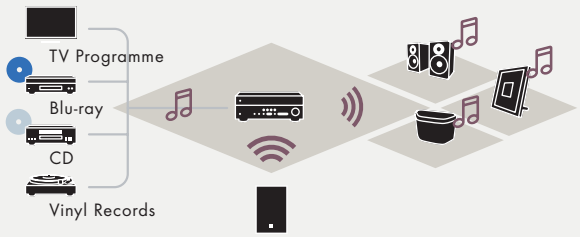


Enjoy wireless streaming of all your music from your Bluetooth® and AirPlay compatible smart devices.



* WX-030 and ISX-80 are not compatible with AirPlay.

Enjoy TV broadcasts, Blu-ray videos, CD music – even vinyl records – in any room of your house.



YAMAHA

TOTAL MUSIC/AUDIO BRAND WITH OVER 125 YEARS EXPERIENCE

With its long and storied history of over 125 years, Yamaha has established itself as a premier brand that embraces and embodies sound and music – a brand that knows all about music, and has led the industry in the fields of audio components, musical instruments, professional recording equipment, and even the acoustic design of concert halls. Now, Yamaha has gathered all its technologies and extensive know-how, nurtured through its long history and rich experience, and poured them into MusicCast.

SUPPORTS HIGH-RESOLUTION MUSIC CONTENT

All models support for high-resolution formats (DSD, WAV/FLAC/AIFF, Apple Lossless), letting you play back high-resolution streaming sound sources and fully maintain the sound quality of the original. And, since each device is equipped with an equaliser function, you can fine-tune the sound just as you desire.

STRONG AND STABLE NETWORK PERFORMANCE

Each MusicCast device has built-in signal transmitters, letting you build a solid network through linking to the device with the strongest radio waves. And thanks to superior network technology created by the development of network audio and routers within the group, you can enjoy stable multi-room audio anywhere in your home.

ENVIRONMENTALLY FRIENDLY, TOO. WITH SUPERB ECO PERFORMANCE.

All MusicCast devices feature exceptionally low standby power consumption of less than 3 watts. They also have an Auto Standby function that turns off the power if no signal is received for a certain amount of time. Designed with eco performance in mind, the MusicCast components are environmentally friendly.


BACKGROUND MUSIC


AUDIO / VIDEO

MUSICCAST & DISKLAVIER ENSPIRE



PLAY AND STREAM TRUE PIANO SOUND ANYWHERE

Combine Yamaha's famed entertainment piano, the Disklavier, with the MusicCast wireless music system, and you can enjoy the sound and music of a real acoustic piano – in a hotel lobby, reception, living room. In fact, bask in the music just as if you are holding a concert. Introducing a new world of musical entertainment that could only come from Yamaha, the world's foremost musical instrument and audio brand.

THE LUXURY OF ENJOYING LIVE PIANO PERFORMANCES WHENEVER YOU LIKE. YAMAHA'S AUTOMATIC PERFORMANCE PIANO, THE DISKLAVIER

The Disklavier is a full entertainment piano, one that can not only be played as a genuine acoustic piano, but one that also automatically plays any of the 500 built-in music pieces, as well as songs downloaded from the internet (more than 4000 titles). Yamaha's proprietary high-precision digital control system reproduces the action of the keyboard and pedals with complete accuracy, just as it was recorded by a professional pianist. The music that flows to you is the sound of an acoustic piano itself. This is truly the ultimate musical system, letting you enjoy actual performances by professional pianists – with all the genuine touch, nuance and emotion as intended by the artists – in real acoustic sound.

DISKLAVIER STREAMING RADIO SERVICES

Disklavier offers revolutionary streaming radio services, allowing you to select from and enjoy thousands of piano performances. Disklavier Radio gives you instant access to over 30 channels, in a variety of genres including jazz, classical and pop.

MUSICCAST PLAYS THE SOUND OF DISKLAVIER DISTRIBUTED TO OTHER ROOMS

By linking the Disklavier to a MusicCast compatible device, the music and performances of the Disklavier can be spread throughout a venue's locations wirelessly. Enjoy elegant piano performances in the bar from the Piano performance in the lobby.

IOS AND ANDROID GRAPHIC USER INTERFACE APPS FOR MUSICCAST AND DISKLAVIER ENSPIRE

MusicCast and Disklavier Enspire components can be controlled from the Musiccast Controller app, as well as from a Graphic User Interfaced programmed with the Pro Visionaire Touch app, allowing integrated control of Disklavier Enspire, MusicCast and MRX/MTX based Commercial Installed Systems in a single user interface. The MusicCast controller app is available for iOS and Android devices. The ProVisionaire Touch app is available for iOS devices only.



NEXT

THE MUSICAL HERITAGE



BACKGROUND MUSIC

The combination of practicality, convenience, sound quality and keyboard touch make **YAMAHA HYBRID AND DISKLAVIER PIANOS** the perfect solution for hotel lobbies, lounges, restaurants, and also in educational institutions.



AVANTGRAND

Yamaha's breakthrough AvantGrand hybrid range offer visually attractive digital instruments with the mechanical advantages of a traditional acoustic instruments, featuring piano actions like those found in Yamaha grand and upright pianos providing a superb playing experience.

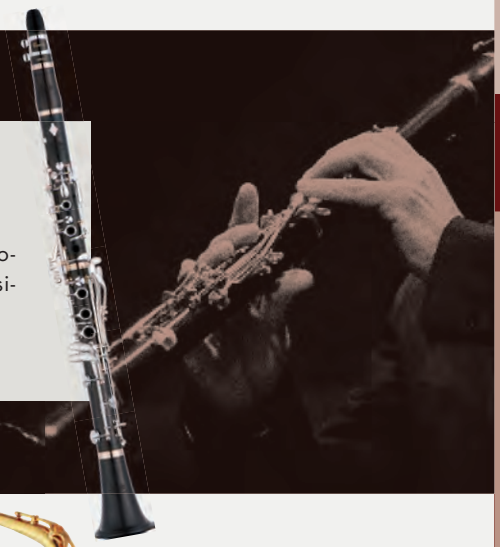


DISKLAVIER

Disklavier is a range of modern, yet traditional acoustic pianos that allow the player to record and playback performances with the instrument acting and sounding exactly as it would as if being played; with keys and pedals moving precisely in real time - ideal as a visually attractive stand-in in the breaks for background music pianists in hotel lounges, lobbies and restaurants.

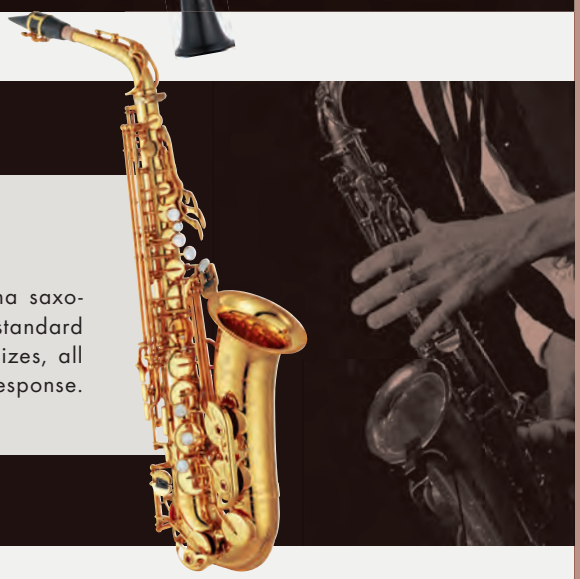
JAZZ

Yamaha has been a supplier of **JAZZ AND COMBO INSTRUMENTS** for many decades, used by artists all over the world. Yamaha is the only company in the world that can provide a complete musical instrument set for a jazz combo – including drums, acoustic as well as digital pianos, guitars, bass guitars and of course wind instruments.



CLARINET

No other manufacturer makes clarinets like Yamaha. Five different models are produced, all with superb playability, precise intonation and a beautifully resonant, musical timbre.



SAXOPHONE

Considered by many to be the best in the world, Yamaha saxophones range from Custom and Pro to intermediate and standard models. Available in soprano, also, tenor and baritone sizes, all feature highly accurate intonation, warm tone and a quick response.

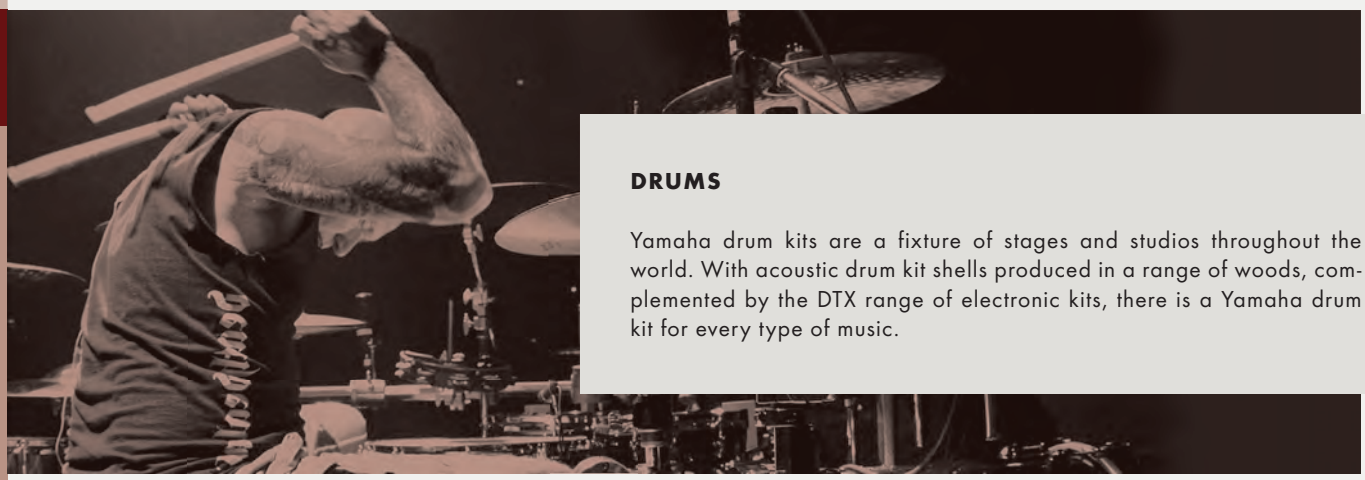


TRUMPET

A staple of traditional jazz, Yamaha trumpets feature hand-craftsmanship augmented by cutting edge manufacturing technology. This unique combination delivers instruments of remarkable quality, with a clear sound and excellent projection.

ROCK & POP

DRUMS, GUITARS, BASS GUITARS AND KEYBOARDS – along with their backline and monitor speakers: nearly every pop and rock band has played a Yamaha instrument one time or the other. Manufacturing high quality guitars and drums since 1963, Yamaha introduced the first analogue synthesisers in 1976, and digital synthesisers in 1981 – with the famous flagships CS80 and DX7 shaping the sound of the decades that followed.



DRUMS

Yamaha drum kits are a fixture of stages and studios throughout the world. With acoustic drum kit shells produced in a range of woods, complemented by the DTX range of electronic kits, there is a Yamaha drum kit for every type of music.



GUITARS

Yamaha produces guitars and basses suitable for everyone from young beginners to seasoned professionals, and music styles ranging from classical to heavy rock. The finest tone woods and high quality components combine to deliver instruments of supreme quality.

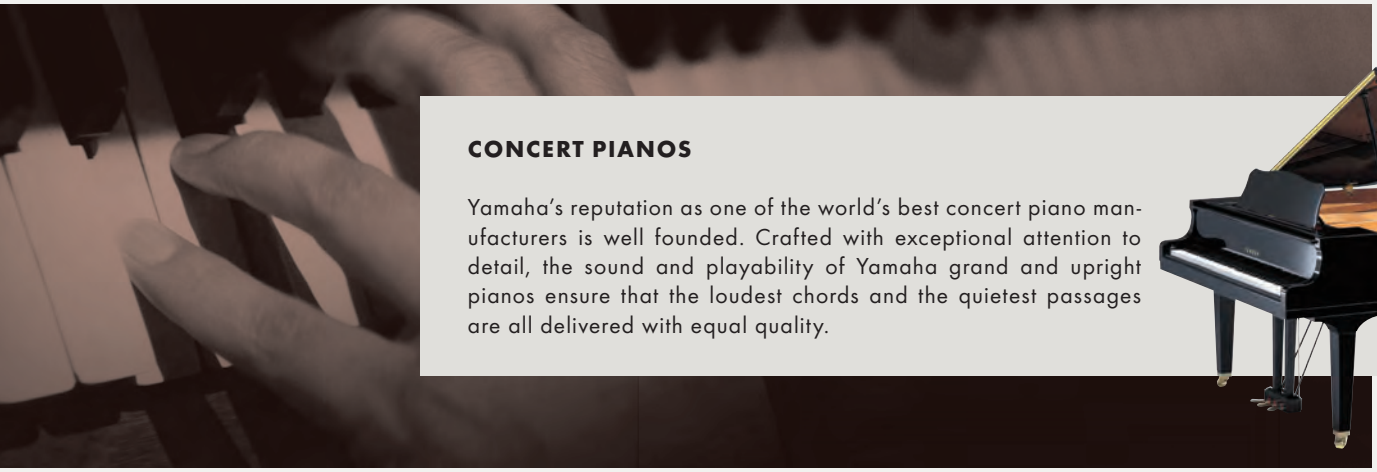
KEYBOARDS AND STAGE PIANOS

Whether its an arranger workstation, synthesiser, stage piano or portable home keyboard, Yamaha digital keyboard instruments deliver sounds of exceptional quality from highly responsive keyboards, all with very user friendly controls.



SYMPHONY ORCHESTRA

Yamaha is renowned world wide for the high quality of the **CONCERT PIANOS, BRASS AND WOODWIND INSTRUMENTS**, and concert percussion, used by symphony orchestras, brass bands, conservatoires and music schools – and of course by millions of amateur musicians: with more than 6 million pianos and more than 100 million wind instruments sold, Yamaha's impact on the world music is second to none.



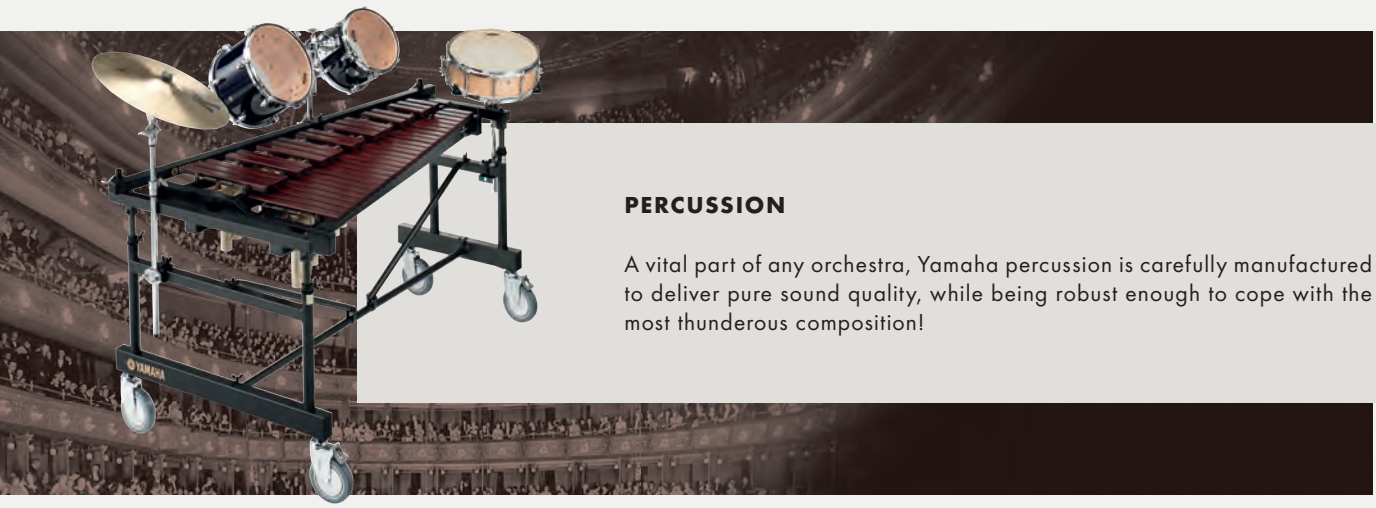
CONCERT PIANOS

Yamaha's reputation as one of the world's best concert piano manufacturers is well founded. Crafted with exceptional attention to detail, the sound and playability of Yamaha grand and upright pianos ensure that the loudest chords and the quietest passages are all delivered with equal quality.



BRASS AND WOODWIND

From oboes and bassoons to tubas and trombones, Yamaha's extensive range of carefully crafted brass and woodwind instruments deliver a consistent sound and playability that is unmatched anywhere else.



PERCUSSION

A vital part of any orchestra, Yamaha percussion is carefully manufactured to deliver pure sound quality, while being robust enough to cope with the most thunderous composition!

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