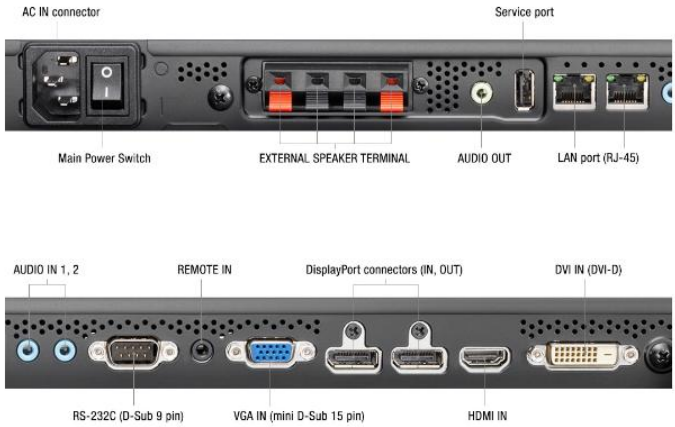
\Orchestrating a brighter world NEC

MultiSync® UN551S
LCD 55" Video Wall Display

Datasheet





Walls of Desire

Attract and engage your audience; the new 55" UN551S shapes emotion and desire with NEC's most compelling video wall experience to date.

The new frameless design forms an entirely flat seamless digital canvas allowing a completely homogeneous image across multiple unified screens. The huge digital surface creates an unhindered viewing experience for your audience with a minimal image interruption of just 0.9mm per screen. The S-IPS panel provides superior picture quality and excellent colour reproduction in both landscape and portrait orientation ensuring perfect visibility even at extreme viewing angles which constantly change as the viewer passes by. At a high brightness level of 700 cd/m² your message will be well received with effortless readability even in the brightest ambient light conditions. An advanced set of intelligent features make the displays easy to install and operate and supports significantly reduced maintenance requirements.

The MultiSync® UN551S is the perfect choice for stunning seamless display surfaces in retail environments, corporate applications, quick service restaurants and all other public spaces.

Benefits

Seamless Video Wall Surface – perfect visual appearance and image homogeneity thanks to frameless design with a minimal inactive screen area of just 0.9 mm.

Reduced Installation and Operating Costs – highly energy efficient LED backlit display ensures low power consumption, longer backlight lifetime and lighter design for easy transportation, mounting and integration.

Smart Way to Large Scale perfectly detailed Imagery – native UHD Daisy Chaining enables the user to create UHD video walls with either a single UHD image or 4 different Full HD sources.

Easy Setup – Auto TileMatrix offers time and cost savings during installation. Configure just one display in order to complete the set up for the entire wall.

Perfect Visual Experience – FrameComp supports a seamless appearance, crucial for fast moving content, creating one stunning image by synchronising the content across the entire video wall.

Reliable colour reproduction – due to 10-bit colour performance, extreme viewing angles and hardware calibratable LUT, viewers benefit from consistently accurate image rendering.

Secure Reliability and Longevity of Video Walls – unique NEC heat management system enables the user to monitor and control the heat inside the display.

Free Download of Multi-Display Management Software – with NaViSet Administrator 2 you can manage all your connected display devices from a centralised location.

Compelling Image Presentation – the display can be hardware colour and brightness calibrated to secure a consistent image presentation over the entire video wall.

Continous Workflow – reliable and secure for mission critical applications with 24/7 operational performance.

Future Ready with OPS Cable Free Expansion – upgrade the power of your display at any time while seamlessly integrating one of our various Slot-in PCs, signal interfaces and other OPS compatible products without the need for external cables or devices.

Product Information

Product Name	MultiSync® UN551S
Product Group	LCD 55" Video Wall Display
Order Code	60004055

Display

Panel Technology	S-IPS with Direct LED backlights
Active Screen Area (W x H) [mm]	1,210 x 680
Screen Size [inch/cm]	55 / 139
Aspect Ratio	16:9
Brightness [cd/m²]	700, 420 Eco (shipment setting)
Contrast Ratio (typ.)	Static Contrast 1200:1; Dynamic Contrast 150000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	44
Supported Orientation	Face Up; Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 91.1
Vertical Frequency [Hz]	24 - 85

Resolution

Native Resolution	1920 x 1080 at 60 Hz			
Supported on DisplayPort and HDMI	3840 x 2160 (24/30 Hz); 1920 x 1080; 1600 x 1200; 1360 x 768;	1280 x 1024; 1280 x 768; 1080i; 1080p;	1024 x 768; 800 x 600; 720p (50/60 Hz); 640 x 480;	576p (50 Hz); 480p (60 Hz)
Supported on HDMI only	4096 x 2160 (24 Hz); 3840 x 2160 (25 Hz);	1360 x 768; 576i (50 Hz);	480i (60 Hz)	

Connectivity

Input Video Analogue	1 x D-sub 15 pin
Input Video Digital	1 x DisplayPort (with HDCP); 1 x DVI-D (with HDCP); 1 x HDMI (with HDCP); 1 x Interface Extension Slot; 1 x OPS Slot
Input Audio Analogue	2 x 3,5 mm jack
Input Audio Digital	1 x DisplayPort; 1 x HDMI
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232

Output Video Digital	1 x DisplayPort out (loop through:DisplayPort, DVI-D, HDMI, Interface Extension Slot, OPS)
Output Audio Analogue	3,5mm jack
Output Control	LAN 100Mbit
Remote Control	LAN with SNMP; Remote Control IR (internal/external (optional) sensor); RS-232C (9-pin D-sub) Input

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)
Inrush Current [A]	max. 10
Power Consumption [W]	max. 61
Voltage / Current [V/A]	16/4

Interface Extension Slot

Slot Technology	analogue and digital interface extension (NEC standard)

Sensors

Ambient Light Sensor	Optional, triggered actions programmable
Human Sensor	Optional, external, 4-5m range, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable
NFC Sensor	Integrated, 2cm range, free NEC Android App required

Electrical

Power Consumption [W]	180 Eco (shipment setting), 260
Power Savings Mode [W]	< 0.5 (ECO Standby); < 1
Power Management	VESA DPMS

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80

Mechanical

Dimensions (W x H x D) [mm]	Without stand: 1,211 x 682 x 99
Weight [kg]	Without stand: 27
Bezel Width [mm]	0.9 bottom/right; 0.9 top/left; 1.8
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M6
Ingress Protection	IP40 (front); IP20 (back)

Additional Features

Special Characteristics	Auto ID assignment; Auto tiling function; Automatic Alarm E-Mails; Frame Comp; HTTP Server; Image flip; Intelligent Wireless Data (based on NFC); NaViSet Administrator 2; Point Zoom Function; Programmable 10-bit LUT with 3 memory banks; Sticky Note Function in OSD; TileMatrix; User readable log function
Colour Versions	Black Front Bezel, Black Back Cabinet
Safety and Ergonomics	C-tick; CE; Energy Star 6.0; FCC Class A; PSB; RoHS; TÜV GS; UL/C-UL or CSA; VCCI
Audio	Optional Speakers (15 W + 15 W)
Shipping Content	CD-ROM (User Guides/Manuals); Display; DisplayPort Cable; Free LAN control software (download); Power Cable Signal Cable: LAN cable
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension
Operating Hours	24/7

Available Options

Accessories	Calibration kit (KT-LFD-CC2); Feet (ST-5220); Remote control kit (KT-RC2); Speaker (SP-RM1, SP-TF1); Trolley (PD02VWM 2x2 46 55 L; PD02VWM 3x3 46 55 L); Wall mount (PDVWXUN 55 L/P; PD02VW MFS 46 55 L/P)
Interface Extension	SB3-AB1 analogue: Audio; Component; Composite; S-Video SB3-AB2 analogue: Audio; RGBHV
OPS Slot	HD-SDI 1.5G / 3G; HDBaseT receiver; Intel® Celeron and Core i3, i5, i7 Slot-in PCs; OPS Digital Signage Player

Green Features

Energy Efficiency	Annual energy consumption: 297 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: C; Human Sensor; Local dimming

CE C-tick FCC Class A RoHS TÜV GS VCCI

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