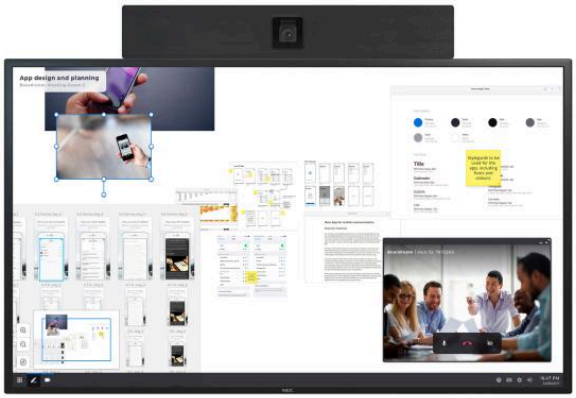
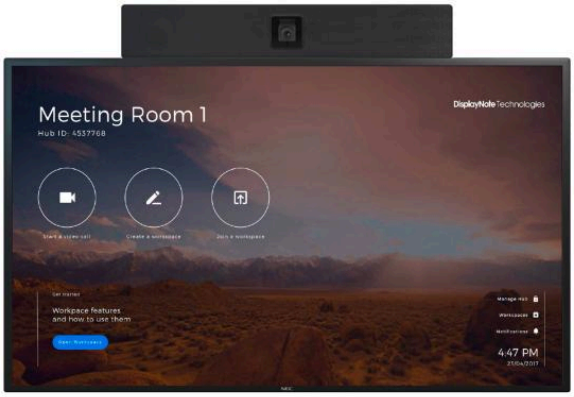
\Orchestrating a brighter world

NEC 55″ InfinityBoard®

LCD 55″ All-in-One Collaboration Solution

Datasheet





Take your meeting anywhere you want

NEC's InfinityBoard is a powerful and scalable workspace that is designed to fit any meeting scenario. Brainstorming, reviewing, video conferencing or collaborating, whatever the objectives of your meeting, the InfinityBoard is the modular solution that's here to help create your ideal meeting space.

This 55" screen size is designed for huddle spaces hosting smaller groups. It has an optimised collaboration bar, integrated microphone, and camera, so it's easy to co-create documents and share ideas. It can be transferred room-to-room via a trolley and easily accommodates up to six people, making it the perfect spontaneous and informal meeting area.

The InfinityBoard comes with an ultra-high definition InGlass™ touch display and two passive pens. Its design also includes an ultra-wide angle Huddly GO video conferencing camera and high-end conference speakers. The powerful OPS slot-in PC with MS Windows 10 Professional is easy for Windows users to use and offers smooth access to the MS Office Suite. Mosaic Hub makes real-time, multi-site collaboration a breeze. By combining video chat, wireless presentation and content collaborations, the NEC InfinityBoard facilitates smart collaboration in modern meeting spaces.

Benefits

Best-in-class visual performance – benefit from a „pixel-free" Ultra-High Definition (UHD) visual performance.

Natural writing experience – it's like working on paper! Whether using finger, pen or palm erasing, the InGlass™ touch technology provides seamless interactive touch performance.

Simplify video conferencing – get started with an integrated, ultra-wide-angle camera and high-class conference speakers for perfect audio clarity.

Future-proof PC option and reduced footprint – the integrated Slot-In PC using the integrated OPS option slot future-proofs your investment whilst reducing the product footprint and installation efforts.

Custom fit to your application needs – modular approach with Windows 10 operating system makes this a highly flexible solution supporting your company specific apps to succeed in your business.

Collaborate without barriers – Mosaic Hub is the most effective way for distributed teams to connect with each other and collaborate on content.

Product Information

Product Name	NEC 55″ InfinityBoard®
Product Group	LCD 55" All-in-One Collaboration Solution
Order Code	40001262

Display

Panel Technology	S-PVA with edge LED backlights
Active Screen Area (W x H) [mm]	1,209 x 680
Screen Size [inch/cm]	55 / 140
Brightness [cd/m²]	500, 300 Eco (shipment setting)
Contrast Ratio (typ.)	4000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	6 (grey-to-grey)
Haze Level [%]	25
Supported Orientation	Face Up; Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	28 - 134
Vertical Frequency [Hz]	23 - 85

Resolution

Native Resolution	3840 x 2160 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;	480p (60 Hz)
Supported on DisplayPort only	3840 x 2160 (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 Digital	1 x DisplayPort (with HDCP); 2 x DVI-D (with HDCP); 4 x HDMI (with HDCP)
Input Audio Analogue	1 x 3,5 mm jack
Input Audio Digital	1 x HDMI; DisplayPort
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232
Output Audio Analogue	3,5mm jack
Output Control	LAN 100Mbit
USB Hub	4x USB 3
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

Sensors

Human Sensor	Optional, external, 4-5m range, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]	162 Eco (shipment setting), 252
Power Savings Mode [W]	< 0.5; < 0.5 (ECO Standby)
Power Management	VESA DPMS

Environmental Conditions

Operating Temperature [°C]	+0 to +35
Operating Humidity [%]	20 to 80

Mechanical

Dimensions (W x H x D) [mm]	Without stand: 1,284.8 x 877.3 x 86.1
Weight [kg]	Without stand: 45.7
Bezel Width [mm]	18.4 (left and right); 18.4 (top and bottom)
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M8
Ingress Protection	IP40 (front); IP20 (back)
Packaging Dimensions (W x H x D) [mm]	Box 1: 1,430 x 250 x 290; Box 2: 1,400 x 250 x 250
Packaging Weight [kg]	Box 1: 47.5; Box 2: 7.7

Glass

Thickness [mm]	3
Type	Premium toughened glass, anti-glare coating
Light Transmission [%]	88 (+/- 1 %)

Touch

Touch Technology	InGlass™ Touch
Number of Touches	Real multi-touch up to 20 touches
Response Time [ms]	≤ 15
Touch Method	Finger; Gloves; Stylus (≥ 2 mm)
Supported Operating System	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista, Mac OS X
Data Interface	USB-HID
Accuracy [mm]	< 1

Video Conference Camera

Viewing Angle [°]	150 diagonal / 120 horizontal / 90 vertical	
Resolution [MegaPixels]	Sensor 16;	Output HD 720p 30fps
Aspect Ratio	16:9	
Optical Capabilities	Digital Pan / Tilt / Zoom with 3x lossless digital zoom	
Driver	Plug&Play, driverless install	
Connectivity	SuperSpeed USB	
Software Specification	3DNR sensor-model-based visual noise reduction; High-quality video scaling and dewarping flicker elimination; Optical aberration correction; Robust automatic white balance; Spatio-temporal noise filtering	

Conference Speakers

Input (max.) [W]	40
Rated Speaker Impedance [Ω]	8
Frequency Response Rate [Hz-kHz]	70 to 15
Sound Pressure Level [dB]	82.1 (2.83 V)

OPS Slot-In PC

CPU	Intel® i7-7820EQ 4 x 3 GHz base frequency (up to 3.7 GHz turbo mode)
Graphics	630 integrated Gen9-LP graphics controller
SSD	up to 2 M.2 SSD (SATA), 128 GB
RAM	8 GB (DDR4), dual channel mode
Operating System	Microsoft Windows 10 Professional
Interfaces Frontside	1 x Micro Sim Card; 1 x USB 2.0; 1 x USB 3.1 Gen1 Type C; 2 x Antenna for WiFi; 2 x DisplayPort 1.2 ++; 2 x USB 3.0; RJ45 10 / 100 / 1000 Mbps
Interfaces Backside	Internal HDMI 1.4 or DisplayPort 1.2; Internal OPS interface to OPS slot-in PC (JAE 80-pin connector)
Wi-Fi	Intel Dual Band Wireless-AC 8260 802.11ac, dual band; Wi-Fi and bluetooth 4.2 adapter
Security	TPM (Trusted Platform Module)
EDID/DDC Support	Internal OPS Interface DisplayPort up to 4096 x 2160 at 60 Hz

Microphone/Echo-Cancelling

Frequency [kHz]	32, sampling frequency
Bandwidth [Hz - kHz]	100 to 16
Echo Cancelling	2 levels of echo cancelling, aggressiveness and 3 levels of echo cancelling speed
Controllable Teil Length [mms]	up to 220
Noise Supression	Residual noise suppressed to environment noise level to prevent pumping noise
Pre-set Colour Filters	8 pre-set colour filters for both the output and the speaker signal
Delay [msec]	10
Mic Level [mV]	280 peak-to-peak
Line Level [V]	2/4 peak-to-peak
Boost [dB]	6

Available Options

Accessories	Trolley (PDMHM-L); Wall mount (PDW S 32-55 PL)

Green Features

Energy Efficiency	Annual energy consumption: 219 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: B; Human Sensor

Additional Features

Special Characteristics	Carbon footprint meter; DICOM Simulation; NaViSet Administrator 2
Safety and Ergonomics	CE; EMC Class B; RoHS
Audio	Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W)
Shipping Content	CD-ROM (User Guides/Manuals); Display; DisplayPort Cable; Power Cable; Remote Control
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension
Operating Hours	24/7

CE



RoHS

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