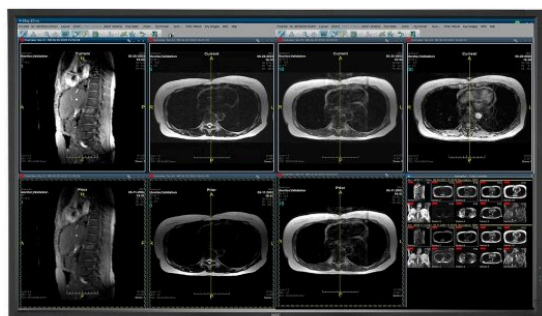


8MP Medical-grade Large Format Display

NEC MDC551C8



See the bigger picture

For simultaneous viewing of multiple medical records, NEC's medical grade CE-MDD compliant MDC551C8 is the perfect choice to see the bigger picture. Thanks to the wide array of connectors, the display can reproduce multiple images from different sources Picture in Picture (PiP) or Picture by Picture (PbP) mode. With ultra-high definition at 8MP, you can experience "pixel-free" image reproduction for crisp and clear images, vital for medical review in a demanding environment. A sensor continuously controls and re-aligns the LED backlight for stable luminance whilst the NEC SpectraView Engine controls homogeneity to ensure perfect image reproduction over the entire product lifetime. Crucially, the MDC551C8 is also equipped with DICOM features to ensure the best visualization and review of content from radiology and PACS. In addition, an OPS expansion slot opens up unlimited possibilities to maximise usage of the display. Naturally, the NEC MDC551C8 complies with standard IEC/EN 60601-1 and delivers the peace of mind inherent in the NEC brand.

Benefits

Medical grade display – complies with standard IEC/EN 60601-1.

Stunning "pixel-free" ergonomic viewing – delivered by an Ultra High Definition (3,840 x 2,160) Professional LED backlit S-PVA panel.

Enhanced imaging performance – advanced settings of all relevant visual parameters allow full control of brightness, colour, gamma and uniformity via the SpectraView Engine for precise, natural images.

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

Stable and uniform backlighting – ensured via Brightness Feedback Side Sensor.

Specifications

Product Information

Product Name

NEC MDC551C8

Product Group

8MP Medical-grade Large Format Display

Order Code

60004130

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

Pixel Pitch [mm]

0.10500

Brightness [cd/m²]

250, (500 max)

Contrast Ratio (typ.)

3000:1

Viewing Angle [°]

178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Colour Depth [bn]

1,073,741,824 (10bit)

Response Time (typ.) [ms]

6 (grey-to-grey)

Haze Level [%]

25

Supported Orientation

Face Up ¹; Landscape; Portrait

Resolution

Native Resolution

3840 x 2160 at 60 Hz

Supported on DisplayPort and HDMI

1024 x 768;	1360 x 768;	480p (60 Hz);
1080i;	1600 x 1200;	640 x 480;
1080p;	1920 x 1080;	720p (50/60 Hz);
1280 x 1024;	3840 x 2160 (24/30 Hz);	800 x 600
1280 x 768;		

Supported on DisplayPort only

3840 x 2160 (60 Hz)

Supported on HDMI only

1360 x 768;	4096 x 2160 (24 Hz);	576i (50 Hz)
3840 x 2160 (25 Hz);	480i (60 Hz);	

Synchronisation Rate

Horizontal Frequency [kHz]

28 - 134

Vertical Frequency [Hz]

23 - 85

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 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

Sensors

Temperature Sensor

Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]

150 Eco (shipment setting)

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

Storage Humidity [%]

10 to 90

Storage Temperature [°C]

-20 to 60

Mechanical

Dimensions (W x H x D) [mm]

Without stand: 1,250 x 721 x 78

Weight [kg]

Without stand: 28.7

Bezel Width [mm]

18.5 (symmetrical)

VESA Mounting [mm]

4 holes; 400 x 400 (FDMI); M8

Ingress Protection

IP40 (front); IP20 (back)

Available Options

Accessories

Feet (ST-5220); Speaker (SP-RM1); Trolley (PDMHM-L); Wall mount (PDW S 32-55 PL)

OPS Slot

HD-SDI 1.5G,3G; HDBaseT receiver; Intel® Atom, Celeron and Core CPUs; OPS-2C HDMI + DP Interface; OPS-2C Quad 3G SDI

Regulatory

Safety and Ergonomics

C-tick; CE; CE-MDD (EN60601-1, EN60601-1-2); FCC Class A; IP class (40 front, 20 overall); PSB; RoHS; SASO; TÜV S

Green Features

Energy Efficiency

Ambient Light Sensor; Annual energy consumption: 219 kWh (based on 4 operating hours per day); Carbon Savings Meter; ECOMode; Energy Efficiency Class: A

Ecological Materials

Manuals on CD; Optional feet

Additional Features

Special Characteristics

Carbon footprint meter; Colour temperature mode; DICOM Simulation; NaViSet Administrator 2 - free download; OmniColor Control

Colour Versions

Black Front Bezel, Black Back Cabinet

Audio

Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W)

Plug and Play

VESA DDC/CI; VESA DDC2Bi

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 ²

¹ adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

² please refer to terms and conditions of warranty extensions



CE



FCC Class A



C-tick



RoHS

Medical device registration plays an important role in complying with mandatory EU regulations on the medical vigilance system. In addition, product registration ensures you receive the best after-sales support and warranty condition. Please register your NEC medical device at <https://medical.nec-display-solutions.com>

CE-MDD declaration is in accordance with the European Directive 93/42/EEC (Medical Device Directive).

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