

2MP Medical-grade Large Format Display

NEC MD4620R



2 MP 46" Colour Display System for Review of Medical Images in Operating Rooms

The NEC MD4620R flat panel system is ideal for viewing of colour and grayscale medical images in operation rooms by trained physicians. Using the latest technologies in Full HD LCD panels and connectors/video signals management, and the highest standards for reliability and image quality, this product is the reference in the medical market.

CE-MDD declaration for this product is in accordance with the European Directive 93/42/ECC (Medical Device Directive). NEC MD series displays are registered as medical devices at DIMIDI and succeeded pre-qualification for the German X-ray ordinance acceptance tests according to DIN V6868-57.

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 www.sharpdisplays.eu/p/uk/en/solutions/healthcare.xhtml.

Benefits

DICOM out of the box – the display is calibrated at the factory according to DICOM Part 14

Easy cleaning – cabinet can be cleaned very easily at the front because of IP55 protection for dust and liquids.

Flexible configuration – many options available to fit the needs from an operation room: mobile cart, integrated PC, 3G-HD-SDI option.

Patient vicinity – the MD4620R is certified for usage in the patient vicinity (with equipment certified according to IEC 60601-1).

Eco friendly – less energy consumption and mercury free with LED backlight system.

Specifications

Product Information

Product Name

NEC MD462OR

Product Group

2MP Medical-grade Large Format Display

Order Code

40000863

Display

Panel Technology

S-PVA with edge LED backlights

Active Screen Area (W x H) [mm]

1,018.08 x 572.7

Screen Size [inch/cm]

46 / 116.8

Pixel Pitch [mm]

0.530

Luminance [cd/m²]

550 (shipping); 700 (max.)

Contrast Ratio (typ.)

4000:1

Viewing Angle [°]

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

Colours [Mio.]

16.7

Response Time (typ.) [ms]

8 (grey-to-grey)

Supported Orientation

Landscape

Resolution

Native Resolution

1920 x 1080 at 60 Hz

Supported Resolutions

1024 x 768;	1280 x 960;	1920 x 1200;
1152 x 864;	1400 x 1050;	640 x 480;
1152 x 870;	1440 x 900;	800 x 600;
1280 x 1024;	1600 x 1200;	832 x 624

Synchronisation Rate

Horizontal Frequency [kHz]

15.625 - 15.734 (analog); 31.5 - 91.1 (analog and digital)

Vertical Frequency [Hz]

50 - 85

Connectivity

Input Video Analogue

1 x D-sub 15 pin

Input Video Digital

1 x DisplayPort; 1 x DVI-D (with HDCP); 1 x HDMI; 1 x OPS Slot

Output Video Digital

1 x DisplayPort

Output Control

LAN 100Mbit

Remote Control

LAN with SNMP; Remote Control IR (internal/external (optional) sensor); RS-232C (9-pin D-sub) Input

Electrical

Power Consumption [W]

120 (typ.)

Power Savings Mode [W]

1

Power Supply

220-240 V

Environmental Conditions

Operating Temperature [°C]

+5 to +30

Operating Humidity [%]

30 to 80

Mechanical

Dimensions (W x H x D) [mm]

Without stand: 1,153 x 820 x 180

Weight [kg]

Without stand: 67

Ingress Protection

IP40 (front); IP20 (back)

Available Options

Accessories

Antibacterial Mousepad; Keyboard Tray; Medical Keyboard;
Medical Mouse; Trolley (Mobile Cart)

OPS Slot

HD-SDI 3G; Slot-in PC (Intel® Core i7 4 x 2,4 GHz)

Regulatory

Safety and Ergonomics

CE; CE-MDD (EN60601-1, EN60601-1-2); EuP; IP class (55 front, 21 overall); RoHS

Additional Features

Special Characteristics

10-bit Look Up table; DICOM Simulation; NaViSet Administrator 2 - free download; OmniColor™: sRGB and 6-axis-colour-control; TileMatrix

Audio

Integrated Speakers (10 W + 10 W)

Plug and Play

VESA DDC/CI

Shipping Content

CD-ROM (User Guides/Manuals); Display; Power Cable; Signal Cable DisplayPort; User Manual

Warranty

3 years warranty incl. backlight



RoHS



EuP



CE

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