\Orchestrating a brighter world NEC

MD462OR

2MP Medical-grade Large Format Display

Datasheet





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

The NEC MD462OR 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 http://medical.nec-display-solutions.com/medregistration .

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 MD462OR 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.

"Clean" Setup – all options and cables are stored within the cabinet or mobile cart; can easily be moved using the mobile cart.

Product Information

Product Name	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

Synchronisation Rate

Horizontal Frequency [kHz]	15.625 - 15.734 (analog); 31.5 - 91.1 (analog and digital)
Vertical Frequency [Hz]	50 - 85

Resolution

Native Resolution	1920 x 1080 at 60 Hz
Supported Resolutions	1920 x 1200; 1600 x 1200; 1440 x 900; 1400 x 1050; 1280 x 1024; 1280 x 960; 1152 x 870; 1152 x 864; 1024 x 768; 832 x 624; 800 x 600; 640 x 480

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 Requirements	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)

Additional Features

Special Characteristics	10-bit Look Up table; DICOM support; NaViSet Administrator 2; OmniColor™: sRGB and 6-axis-colour-control; TileMatrix
Safety and Ergonomics	CE; CE-MDD (EN60601-1, EN60601-1-2); EuP; IP class (55 front, 21 overall); RoHS
Plug and Play	VESA DDC/CI
Audio	Integrated Speakers (10 W + 10 W)
Shipping Content	CD-ROM (User Guides/Manuals); Display; Power Cable; Signal Cable DisplayPort; User Manual
Warranty	3 years warranty incl. backlight

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)

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 http://medical.nec-display-solutions.com/medregistration

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

This document is © 2017 NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 07.06.2017