

MD242C2-220
2MP Medical Certified Diagnostic Display

Datasheet



2.3 MP 24" Colour Display System for Primary Diagnostics of Medical Images

The NEC MD242C2 flat panel display systems for viewing of colour and grayscale digital images for diagnosis by trained physicians. Application include diagnostic image reporting in radiography as well as CT, MRI and other medical imaging techniques. To guarantee the display performance as specified, the display must only be used with NEC approved display controller boards.

Benefits

Stabilized image quality – A built-in front sensor regulates the luminance of the display for short and long term.

Quick and convenient DICOM conformance test – Ad-Hoc DICOM conformance test can be performed on the display.

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

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

Easy maintenance – GammaCompMD QA software included with the display enables easy calibration, maintenance and quality assurance ensuring accurate performance over the entire lifetime of the display.

Product Information

Product Name	MD242C2-220
Product Group	2MP Medical Certified Diagnostic Display
Order Code	40000759

Display

Panel Technology	IPS TFT with W-LED backlight
Screen Size [inch/cm]	24.1 / 61.1
Screen Aspect Ratio	16:10
Pixel Pitch [mm]	0.270 x 0.270
Luminance [cd/m ²]	220 (calibrated); 350 (max)
Contrast Ratio (typ.)	1000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	14 (tr - tf)
Programmable Gamma Correction	14-bit
Factory Calibration	220 cd/m ² at white level; Gamma Correction according to DICOM GSDF at 220cd/m ² ; Gamma correction according to DICOM Part 14; Native colour temperature

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 91.2 and 118.4 (analog)
Vertical Frequency [Hz]	50 - 85

Resolution

Optimum Resolution	1920 x 1200 at 60 Hz
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Connectivity

Digital	1 x DisplayPort; 1 x DVI-D; 1 x HDMI
Analog	1 x D-sub 15 pin

Electrical

Power Consumption on Mode [W]	29.5 (max.)
Power Savings Mode [W]	< 1.5
Power Supply	0.83 A/0.47 A; 100-240 V; integrated power supply

Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	30 to 80 (non-condensing)

Ergonomics

Height adjustable stand [mm]	150
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Mechanical

Dimensions (W x H x D) [mm]	363 x 573 - 626 x 228 (Portrait mode); 557 x 378 - 528 x 228 (Landscape mode)
Weight [kg]	10.2
VESA Mounting [mm]	100 x 100 (4 points)

Additional Features

Special Characteristics	Automatic backlight control system with front 3-colour sensor for stable white luminance and white point; Individual factory calibrated DICOM gamma correction curve; Multiple OSD Lock-Out Modes; Precise DICOM GSDF Calibration using internal 14-bit look-up tables
Kensington security slot	yes
Shipping Content	Approved Display Controller Drivers; Display; DisplayPort cable; GammaCompMD Client QA Software
Safety and Ergonomics	CCC; CE-MDD (EN60601-1, EN60601-1-2); DIN V 6868-57 / DIN 6868-157 (Dental RK5, Fluoroscopy and CT); FDA510(k); TÜV Approved Medical Device (TÜV GM)
Warranty	3 years warranty incl. backlight; optional 4th to 5th year warranty extension

System Configurations

Display Controller Board Variety	AMD; Nvidia
Software	GammaCompMD QA
Options	Calibration Instrument (MDSVSENSOR3)



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).

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