

NEC MD242C2



NEC MD Series Digital Colour Display Systems

Display Systems for Primary Diagnostics of Medical Images

The NEC MD242C2 (08VN3LWU) flat panel display systems for viewing of colour and grayscale digital images for diagnosis by trained physicians. Applications include diagnostics image reporting in radiography as well as CT, MRI and other medical imaging techniques. To guarantee the display performance as specified, a MD242C2 display must only be used in conjunction with NEC approved display controller boards.

Key Features:

- 24.1" (2.3MP image resolution; 1920x1200 pixels in horizontal orientation)
- Latest LED Backlight System with long-lasting white point and brightness stability
- Integrated Front Sensor and LED Backlight System for long-lasting white point and brightness stability
- Individual factory calibrated DICOM curve with unique in-built "Quick Screen QA" check
- Precise DICOM GSDF calibration using internal 14-bit look-up table
- GammaCompMD QA with QAXRAY for latest Quality Assurance control

HEALTHCARE

NEC Display Solution

NEC MD242C2

TECHNICAL SPECIFICATIONS

Panel technology	IPS TFT with LED Backlight	
Screen diagonal [cm/inch]	24.1/61.1	
Active screen area [cm]	51.8 x 32.4	
Native resolution [Megapixel]	2.3	
Landscape mode / Portrait mode [Pixel]	1920x 1200 / 1200 x 1920 at 60 Hz	
Pixel pitch [mm]	0.270 x 0.270	
Contrast ratio [typ.]	1000:1	
Viewing angle (H / V @ CR > 10:1)	178°/ 178°	
Luminance (maximum Native)	350 cd/m ²	
Luminance (calibrated)	170 cd/m ² , recommended	
Response time (typ.) [ms]	14 (tr + tf)	
Colour reproduction [Bit-Depth]	10-bit (1024 grey tones per R G B input) with 1.073 billion total colours	
Programmable gamma correction	14-bit	
Factory calibration	Gamma correction according to DICOM GSDF at 170 cd/m2	
Signal inputs	Digital: 1x DVI-D, 1x DisplayPort and 1x HDMI; Analogue: 1x D-Sub 15 pin	
Horizontal frequency [kHz]	31.5 - 91.2 and 118.4	
Vertical frequency [Hz]	50.0 - 85.0	
Power consumption (max.) [W]	29.5	
Power saving mode [W]	<1.5	
Power requirements	100 -240V AC 0.83 A / 0.47 A; integrated power supply	
Dimensions (W x H x D) [mm]	557 x 378 - 528 x 228 (landscape), 363 x 573 - 626 x 228 (portrait)	
Weight (including stand) [kg]	10.2	
Stand features	150 mm height adjust range, Tilt, Swivel, Screen rotation	
Safety and ergonomics	CE-MDD (EN60601-1, EN60601-1-2); TÜV Approved Medical Device (TÜV GM);	
	DIN V6868-57 Category A; CCC; Pending: FDA510(k)	
Ambient temperature (operating) [°C]	+5 to +35	
Ambient humidity (operating) [%]	30 to 80 (non-condensing)	
VESA mounting interface [mm]	100 x 100 (4 points)	
Kensington Lock (Theft security)	Ves	
Other advanced features	Automatic backlight control system with front 3-colour sensor for stable white luminance and white point; Individual factory calibrated DICOM gamma correction curve; Precise DICOM GSDF calibration using internal 14-bit look-up table; Multiple OSD lock-out modes to prevent tampering with calibrated screen	
Approved Display Controllers	Choice of Matrox, AMD/ATI and nVIDIA models for best imaging performance and compatibilit with GammaCompMD software	
Warranty	3 years warranty incl. backlight	
Shipping contents	Display; Continental and UK power cord; Signal Cable DVI-D to DVI-D; DisplayPort Cable; Multiple language quick reference guide; DVD-ROM with User Guides, GammaCompMD Clier QA Software and approved display controller drivers	
Options	Calibration instrument (MDSVSENSOR PRO)	

NEC MD SERIES COLOUR DISPLAY SYSTEM CONFIGURATIONS*

Display Model variety	2 Megapixel
	Single or Dual Display
Display controller board variety	AMD/ATI, Matrox and nVIDIA
	PCI Express Bus
Software	GammaCompMD QA

CE-MDD declaration for model MD242C2 is in accordance with the European Directive 93/42/EEC (Medical Device Directive). NEC MD Series Display Systems are registered as medical devices at DIMDI and succeeded pre-qualification for the German X-ray ordinance acceptance tests according to DIN V6868-57.

For further informationen please contact us at: med-info@nec-displays.com www.medical.nec-display-solutions.com

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 aftersales support and warranty conditions.

Please register your NEC medical device at http://medical.nec-display-solutions.com/medregistration

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