

# NEC MD211C2



### **NEC MD Series Digital Colour Display Systems**

### **Display Systems for Primary Diagnostics of Medical Images**

The NEC MD211C2 (L211UZ) 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 MD211C2 display must only be used in conjunction with NEC approved display controller boards.

## **Key Features:**

- 21.3" (2.0 MP image resolution: 1200 x 1600 pixels in portrait orientation)
- 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 MD211C2**

#### **TECHNICAL SPECIFICATIONS**

Panel technology	UA-SFT LCD with LED Backlight	
Screen diagonal [cm/inch]	21.3 / 54.0	
Active screen area [cm]	43.3 x 32.5	
Native resolution [Megapixel]	2	
Landscape mode / Portrait mode [Pixel]	1600 x 1200 / 1200 x 1600 at 60 Hz	
Pixel pitch [mm]	0.270 x 0.270	
Contrast ratio [typ.]	1400:1	
Viewing angle (H / V @ CR > 10:1)	176°/ 176°	
Luminance (maximum Native)	900 cd/m <sup>2</sup>	
Luminance (calibrated)	400 cd/m <sup>2</sup> , recommended	
Response time (typ.) [ms]	40 (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 (16,384 grey tones)	
Factory calibration	Gamma correction according to DICOM GSDF at 400 cd/m2	
Signal inputs	Digital: 1x DVI-D and 1x DisplayPort	
Horizontal frequency [kHz]	31.5 - 95.4	
Vertical frequency [Hz]	50.0 - 85.0	
Power consumption On (typical) [W]	80W	
Power consumption Saving Mode (typical) [W]	<2W	
Power requirements	100 -240V AC tbd A / tbd A; integrated power supply	
Dimensions (W x H x D) [mm]	374 x 491 - 594 x 236 (portrait orientation); 473 x 394 - 544 x 236 (landscape orientation)	
Weight (including stand) [kg]	11.7	
Stand features	150 mm height adjust range, Tilt, Swivel, Screen rotation	
Safety and ergonomics	Pending: CE-MDD (EN60601-1, EN60601-1-2); TÜV Approved Medical Device (TÜV GM);	
	DIN V6868-57 Category A; FDA510(k), CCC	
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)	yes	
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 GSD calibration using internal 14-bit look-up table; Control buttons on cabinet back side, with virtua keypad on screen; 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 compatibility 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 Client QA Software and approved display controller drivers	
Options	Calibration instrument (MDSVSENSOR PRO), Protective screen (click-on option)	

#### NEC MD SERIES COLOUR DISPLAY SYSTEMCONFIGURATIONS\*

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 MD211C2 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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