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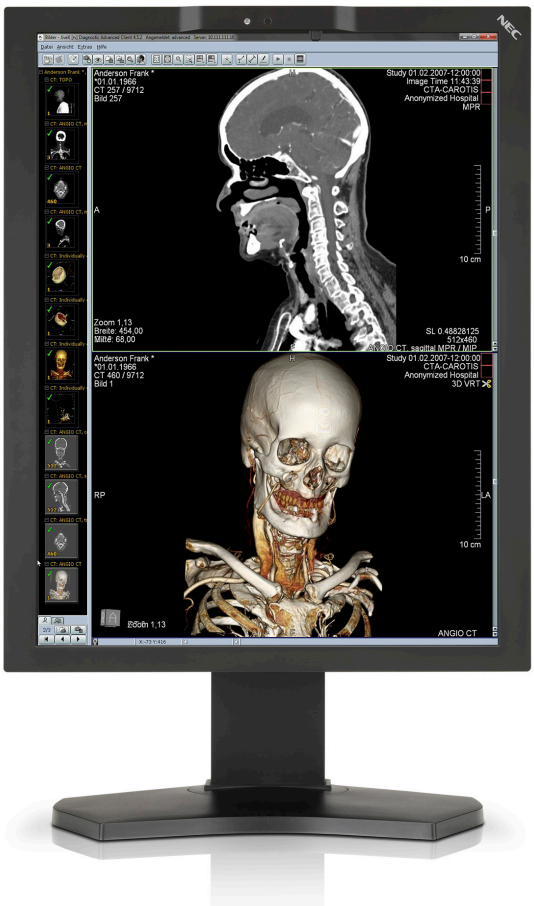
NEC MD211C2



HEALTHCARE

NEC Display Solutions

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

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^2
Luminance (calibrated)	400 cd/m^2, 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 GSDF calibration using internal 14-bit look-up table; Control buttons on cabinet back side, with virtual 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.

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 conditions.

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

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

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