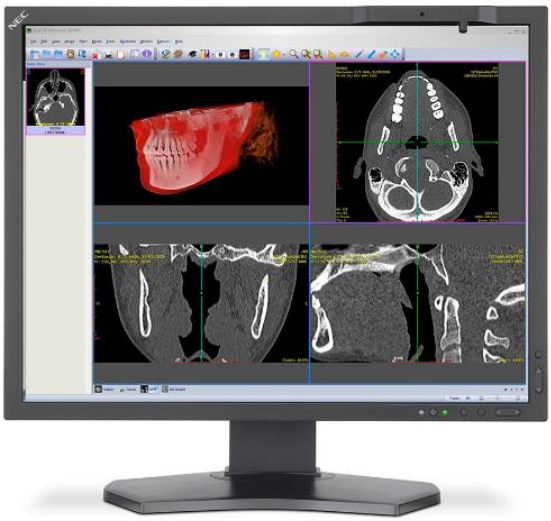
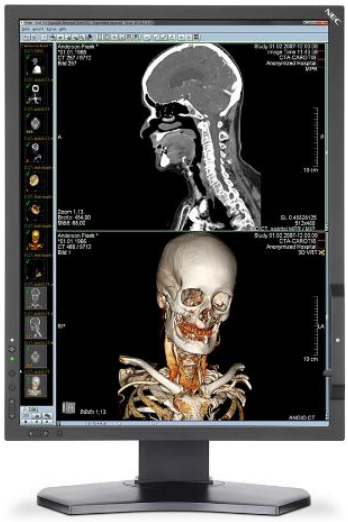
\Orchestrating a brighter world NEC

MDC212C2-270

2MP Medical Certified Diagnostic Display

Datasheet





2 MP 21.3" Colour Display System for Clinical Applications

The NEC MDC212C2-270 flat panel display systems for viewing of colour and grayscale digital images. Application include diagnostic image reporting in radiology 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

Reliable Image – integrated sensors such as the front sensor, proximity sensor or the illuminance sensor ensure long-lasting white point and luminance.

Quick Screen QA – the DICOM conformance test can be performed without the need to install any special software on the workstation.

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

Anti-Glare – unique anti-glare coating layer in order to minimize disturbing ambient light reflections.

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.

QC Scheduler – automated process for calibration and DICOM Conformance testing.

Product Information

Product Name	MDC212C2-270
Product Group	2MP Medical Certified Diagnostic Display
Order Code	40000988

Display

Panel Technology	IPS TFT with W-LED backlight
Screen Size [inch/cm]	21.3 / 54
Screen Aspect Ratio	4:3
Pixel Pitch [mm]	0.270 x 0.270
Luminance [cd/m²]	270 (calibrated); 440 (max)
Contrast Ratio (typ.)	1500:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	8 (grey-to-grey)
Colour Reproduction	10-bit (1024 grey tones per R G B input) with 1,074 billion total colours (max.)
Programmable Gamma Correction	14-bit
Factory Calibration	Gamma correction according to DICOM Part 14; 270 cd/m² at white level; 0.4 cd/m² at black level; Native colour temperature

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 99.5
Vertical Frequency [Hz]	50 - 85

Resolution

Optimum Resolution	1600 x 1200 at 60 Hz

Connectivity

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

Electrical

Power Consumption on Mode [W]	24 (shipping); 54 (max.)
Power Savings Mode [W]	< 0.5
Power Supply	1 A/0.6 A; 100-120 V/220-240 V; integrated power supply

Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	20 to 80

Ergonomics

Height adjustable stand [mm]	150 (Landscape mode)
Screen Tilt [°]	-5 to 30
Screen Swivel [°]	-45 to 45

Mechanical

Dimensions (W x H x D) [mm]	359 x 484 - 580 x 278 (Portrait mode); 466 x 375 - 525 x 228 (Landscape mode)
Weight [kg]	With stand: 8
VESA Mounting [mm]	100 x 100

Additional Features

Special Characteristics	14-bit Gamma Correction; Built-in Ambient Light Sensor; Built-in Front Sensor; Digital Uniformity Control; Human Sensor; integrated USB 3.0-Hub; QC Scheduler; Quick Screen QA
Plug and Play	VESA DDC/CI; VESA DDC2B
Shipping Content	Continental and UK power cord; Display; Quick Reference Guide Signal Cable: 1 x DVI-D; DisplayPort; USB
Safety and Ergonomics	AAPM-TG18; CCC; CE-MDD (EN60601-1, EN60601-1-2); DIN V 6868-57 / DIN 6868-157; EAC; FDA510(k); JESRA-X0093; RoHS; WEEE
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).

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. 09.06.2017