

## MD322C8-2

8MP Medical Certified Diagnostic Display

# Datasheet



### 8MP 31.5" Wide-Colour Gamut Display System for Primary Diagnostics of Medical Images

The NEC MD322C8-2 flat panel display is ideal for viewing colour and grayscale digital images for diagnosis by trained physicians. Applications include diagnostic image reporting in CT, MRI, Molecular Imaging, Ultrasound post processing and other types of medical imaging. Other important applications include digital pathology - with focus on virtual microscopy - when detailed imaging with high colour fidelity is required.

For advanced high resolution 3D rendering images, the MD322C8-2 is the perfect match. Imaging solutions based on standardised 8 MP image resolution support advanced medical teleconferencing. The unique built-in OPS Option Slot allows easy upgrade capability for supporting HD-SDI and 3G-SDI signal sources.

## Benefits

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

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

**Clean work space** – The built-in power supply unit helps keep your workspace clear by eliminating the need for an external AC adapter.

**Advanced Productivity** – A large size and high resolution 31.5" 8MP screen offers a remarkably wide work space

**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.

**Flexible video configuration** – Arrange your viewing area as a single 8MP canvas or use a variety of split-screen modes, with up to 4 signals shown simultaneously.

**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	MD322C8-2
Product Group	8MP Medical Certified Diagnostic Display
Order Code	40000989

## Display

Panel Technology	IPS Type TFT with W-LED backlight
Screen Size [inch/cm]	31.5 / 80.1
Screen Aspect Ratio	16:9
Pixel Pitch [mm]	0.182 x 0.182
Luminance [cd/m <sup>2</sup> ]	200 (calibrated); 350 (max)
Contrast Ratio (typ.)	1000:1
Viewing Angle [°]	176 horizontal / 176 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	24 (tr - tf)
Colour Reproduction	10-bit (1021 grey tones per R G B input) with 1.06 billion total colours (max.)
Programmable Gamma Correction	14-bit
Factory Calibration	200 cd/m <sup>2</sup> at white level; Gamma correction according to DICOM Part 14

## Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 133.2
Vertical Frequency [Hz]	24 - 120

## Resolution

Optimum Resolution	3840 x 2160 at 60 Hz
Supported	3840 x 2160 (24/25/30/60 Hz); 1920 x 1080 (24/25/30/50/60/75/85/100/120 Hz)

## Connectivity

Digital	2 x DisplayPort; 2x DVI-D (Dual Link); 4 x HDMI
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## Electrical

Power Consumption on Mode [W]	95 (shipping)
Power Savings Mode [W]	0.5
Power Supply	1.51 A/0.6 A; 100-120 V/220-240 V; internal power supply

## Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	30 to 80

## Ergonomics

Height adjustable stand [mm]	150
Screen Tilt [°]	-5 to 30
Screen Swivel [°]	-45 to +45

## Mechanical

Dimensions (W x H x D) [mm]	744.8 x 468.4 x 301.6
Weight [kg]	20.5
VESA Mounting [mm]	100 x 100; 200 x 100

## Additional Features

Special Characteristics	14-bit Gamma Correction; Backlight Sensor; Built-in Ambient Light Sensor; DICOM Test; Digital Uniformity Control; Quick DICOM Test
Kensington security slot	yes
Plug and Play	VESA DDC2B
Shipping Content	Continental and UK power cord; Quick Reference Guide Signal Cable: 1 x DVI-D; 2 x DisplayPort; USB
Safety and Ergonomics	AAPM-TG18; CCC; CE-MDD (EN60601-1, EN60601-1-2); DIN V 6868-57 / DIN 6868-157 (for Fluoroscopy and CT); EAC; FDA510 (k); JESRA-X0093; RoHS; WEEE
Warranty	3 years warranty incl. backlight; optional 4th to 5th year warranty extension
OPS Options	HD-SDI / 3G-SDI / switchable DisplayPort and HDMI

## 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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