

MD302C4-220
4MP Medical Certified Diagnostic Display

Datasheet



Display Systems for Primary Diagnostics of Medical Images

The NEC MD302C4-220 flat panel display systems are suitable for displaying and viewing of digital images for diagnosis by trained physicians. Applications include diagnostics image reporting in radiography as well as CT, MRI and other medical imaging techniques.

CE-MDD declaration for model MD302C4 is in accordance with the European Directive 93/42/EEC (Medical Device Directive).

Benefits

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

Quick and convenient DICOM conformance test – Ad-Hoc DICOM conformance test can be performed on the display.

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

Advanced Productivity – A large size and high resolution 30" 4MP screen offers a remarkably wide work space

Eco friendly – Less energy consumption and mercury free with LED backlight system.

Flexible video configuration – Arrange your viewing area as a single 4MP canvas or dual 2MP display setup.

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	MD302C4-220
Product Group	4MP Medical Certified Diagnostic Display
Order Code	40000810

Display

Panel Technology	AH-IPS LCD with LED Backlight
Screen Size [inch/cm]	29.8 / 75.6
Pixel Pitch [mm]	0.251 x 0.251
Luminance [cd/m ²]	220 (calibrated); 340 (max.)
Contrast Ratio (typ.)	1000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	12 (6 white / black; 6 black / white); 7 (grey-to-grey)
Colour Reproduction	10-bit (1024 grey tones per R G B input) with 1.073 billion total colours (max.)
Programmable Gamma Correction	14-bit
Factory Calibration	220 cd/m ² at white level; Gamma correction according to DICOM Part 14; Native colour temperature

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 98.7 (digital)
Vertical Frequency [Hz]	50 - 85

Resolution

Optimum Resolution	2560 x 1600 at 60 Hz
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Connectivity

Digital	1 x DisplayPort; 1 x HDMI; 1 x Mini DisplayPort; 1x DVI-D (Dual Link)
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Electrical

Power Consumption on Mode [W]	58 (shipping); 87 (max.)
Power Savings Mode [W]	< 2
Power Supply	1.1 A/0.51 A; 100-240 V; integrated power supply

Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	30 to 80 (non-condensing)

Ergonomics

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

Mechanical

Dimensions (W x H x D) [mm]	688 x 466.4 x 301.6
Weight [kg]	17
VESA Mounting [mm]	100 x 100; 200 x 100

Additional Features

Special Characteristics	Built-in Ambient Light Sensor; Built-in Front Sensor; Digital Uniformity Control; Human Sensor; Picture-by-Picture; Picture-in-Picture Mode; Quick Screen QA
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Kensington security slot	yes
Plug and Play	DDC2B/2Bi; EDID Standard; VESA DDC/CI
Shipping Content	Approved Display Controller Drivers; Continental and UK power cord; Display; GammaCompMD Client QA Software; Quick Reference Guide Signal Cable: 1 x DVI-D; DisplayPort; USB
Safety and Ergonomics	CCC; CE-MDD (EN60601-1, EN60601-1-2); DIN V 6868-57 / DIN 6868-157 (for Fluoroscopy and CT); FDA510(k); JESRA-X0093
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>

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