

NEC MD302C4



NEC MD Series Digital Display Systems

Display Systems for Primary Diagnostics of Medical Images

The NEC MD302C4 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.

Key Features:

- 29.8" (4 MP image resolution: 2560 x 1600 pixels) with LED-backlight
- Integrated Front Sensor for long-lasting stability and remote quality management
- Precise DICOM GSDF calibration using internal 14-bit look-up table
- Energy saving with LED backlight and Human Sensor technology
- Medical certification conforming to 93/42/EC (MDD)

H E A L T H C A R E

NEC Display Solution

NEC MD302C4

TECHNICAL SPECIFICATIONS

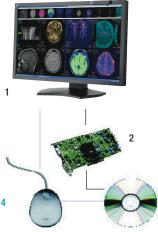
Panel Technology	AH-IPS LCD with LED Backlight
Screen diagonal [inch/cm]	29.8 / 75.6
Active screen area [cm]	64.1 x 40.1
Native resolution [Megapixel]	4
Landscape mode / Portrait mode [Pixel]	2560 x 1600 / 1600 x 2560 at 60 Hz
Pixel pitch [mm]	0.251 x 0.251
Contrast ratio [typ.]	1000:1
Viewing angle (H / V @ CR > 10:1)	178°/ 178°
Luminance (maximum Native)	340 cd/m ²
Luminance (calibrated)	180 cd/m ² , recommended
Response time (typ.) [ms]	7 (grey-to-grey); 12 (6 white/black; 6 black/white)
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 180 cd/m ²
Signal inputs	Digital: 1x DVI-D;1x DisplayPort; 1x Mini-DisplayPort; 1x HDMI
Horizontal frequency [kHz]	31.5 - 98.7
Vertical frequency [Hz]	50.0 - 85.0
Power consumption (Maximum) [W]	87W
Power consumption (factory default setting) [W	58
Power consumption Saving Mode [W]	<2W
Power requirements	100 -240V AC 1,1A / 0.51A; integrated power supply
Dimensions (W x H x D) [mm]	688.0 x 466.4 x 301.6 (landscape orientation); 466.8 x 707.1 x 301.6 (portrait orientation)
Weight (including stand) [kg]	17.0
Stand features	150 mm height adjust range, Tilt, Swivel, Screen rotation
Safety and ergonomics	CE-MDD (EN60601-1, EN60601-1-2); TÜV Approved Medical Device (TÜV GM); DIN V6868-57; FDA510(k) Pending, CCC
Ambient temperature (operating) [°C]	+5 to +35
Ambient humidity (operating) [%]	30 to 80 (non-condensing)
VESA mounting interface [mm]	100 x 100 ; 200 x 100
Kensington Lock (Theft security)	Ves
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
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 (MDSVSENSOR3)

NEC MD SERIES DISPLAY SYSTEM CONFIGURATIONS*

Display Model variety	4 Megapixel
	Single or Dual Display
Display controller board variety	AMD/ATI, nVIDIA and Matrox PCI
	Express Bus
Software	GammaCompMD QA

CE-MDD declaration for model MD302C4 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. (PENDING)

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



A typical NEC MD Series Display System configuration

- Single or Dual head displays
 Display Controller Board
 GammaCompMD QA Quality

MD302C4

- Assurance Software 4 Calibrator (optional)

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