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NEC MD301C4

HEALTHCARE

NEC Display Solutions

NEC MD Series Digital Display Systems

Display Systems for Primary Diagnostics of Medical Images
The NEC MD301C4 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.

- 29.8“ (4 MP image resolution: 2560 x 1600 pixels)
- High performance P-IPS TFT display
- Stand-alone calibration and matching to ensure efficient onsite colour temperature matching, with 14-bit LUT and precise DICOM GSDF Grayscale
- Bundled with GammaCompMD QA software
- Medical certification conforming to 93/42/EC (MDD)

NEC MD301C4

TECHNICAL SPECIFICATIONS

Panel Technology	P-IPS (Horizonzal IPS)
Screen Size [inch/cm]	29.8 / 75.6
Colour Gamuts [Size comparison]	102 % NTSC
Pixel pitch [mm]	0.251
Viewing Angle	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Contrast ratio (typ.)	1000:1
Brightness (typ.) [cd/m2]	350 (peak) / 200 (calibrated AAPM TG-18) / 160 (calibrated DIN V6868-57)
Response time (typ.) [ms]	6 (grey-to-grey), 12 (6 white / black; 6 black / white)
Colours [Bio.]	1.07 (10-Bit)
Optimum Resolution	2560 x 1600 at 60 Hz
Other Resolutions	2560 x 1440; 1920 x 1440; 1920 x 1200; 1680 x 1050; 1600 x 1200; 1440 x 900; 1400 x1050; 1280 x 1024; 1280 x 960; 1152 x 870; 1152 x 864; 1024 x 768; 832 x 624; 800 x 600; 640 x 480; 720 x 480p; 720 x 576p; 1280 x 720p; 1920 x 1080p
Horizontal Frequency [kHz]	31.5 - 98.7 (digital)
Vertical Frequency [Hz]	30.0 - 87.0
Connectors	2 x DVI-D (Dual Link); 2 x DisplayPort
Plug & Play compatibility	VESA DDC/CI; DDC2B/2Bi; EDID Standard
Adjust Functions	Auto Adjust; Colour Temperature Control; Sharpness; Brightness; Contrast; Intelligent Power Management; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; Black Level; Expansion Mode; On-Screen-Display (OSD) lock-out; Language Select; Advanced User Menu; Hotkeys
Safety and Ergonomics	GEEA/Energy Star; Pending: CE-MDD; TÜV GM; UL60601; DICOM gamma correction, Digital Uniformity Control active, Backlight stabilisation active
Power Requirements on Mode [W]	155 (typ.)
Power Requirements Power-saving Mode [W]	1
Power Supply	100-240 V; 1.9A / 0.7A; integrated power supply
Ambient Temperature (operating) [°C]	5 to 35
Ambient Humidity (operating) [%]	30 to 80
VESA Mounting	100 x 100; 200 x 100
ErgoDesign®: Height-adjustable stand [mm]	150 (Landscape mode)
Dimensions (W x H x D) [mm]	688 x 466-616 x 302 (Landscape mode)
Screen Tilt / Swivel [°]	-5 to +30 / -45 to +45
Bezel Width [mm]	22
Cable Management	yes
Kensington Security Lock	yes
Weight [kg] (H / V @ CR > 10:1)	18.8
Specials	Adjustable Power LED (colour and brightness); EcoModes; Direct Brightness and Contrast; Auto Black Level; Digital Uniformity Control; Rapid Response; RapidMotion; TileMatrix; TileComp; OmniColor™; 14 bit Look Up Table and 14 bit Gamma Correction; DDC-CI; Overdrive; Self Diagnostics; Quick Release Stand and Handle; Backlight Ageing Correction; Self calibration; Colour matching
Colour Versions	Black Front Bezel, Black Back Cabinet
Shipping contents	Monitor; Power Cable; Signal Cable DisplayPort; Signal Cable USB; Signal Cable DVI-D - DVI-D; CD-ROM; User Manual; GammaCompMD QA Software
Warranty	3 years warranty incl. backlight

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 MD301C4 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 information please contact us at: med-info@nec-displays.com
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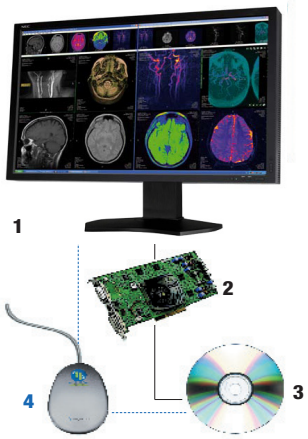

A typical NEC MD Series Display System configuration

1 Single or Dual head displays
2 Display Controller Board
3 GammaCompMD QA Quality Assurance Software
4 Calibrator (optional)

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