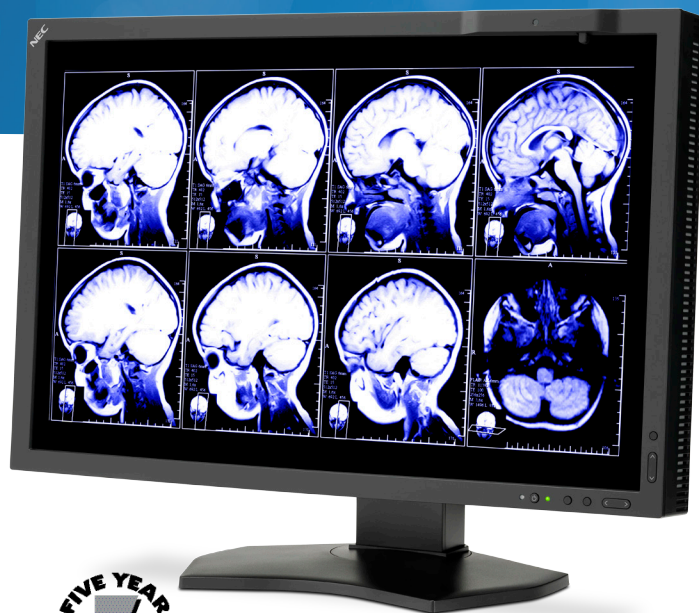# NEC MultiSync® MD242C2

*24" widescreen 2.3MP color LCD display
ideal for color clinical
review applications*

Featuring unique functionality for medical review and referral applications, the NEC MultiSync MD242C2, an LED backlit 24" 2.3-Megapixel (MP) color display, features the flexibility of a color display with image performance rivaling that of grayscale displays.

FIVE YEAR 5 WARRANTY LIMITED LIMITED

NEC MULTISYNC [MD] **SERIES** The clear choice in diagnostic displays.

Highlights

- **LED backlit IPS LCD technology** offers excellent contrast and viewing angles, making outstanding image quality outstanding for color or grayscale images
- **ColorComp™ digital uniformity correction** reduces screen uniformity errors and compensates for differences in color/grayscale and luminance across the entire screen
- **Integrated front color sensor** is extremely accurate and more stable than standard (brightness only) sensors
- Each NEC MultiSync MD242C2 monitor comes **calibrated out of the box to the DICOM grayscale display function** for luminance
- **14-bit RGB lookup tables (LUTs) for gamma** provide for more finely detailed, high-definition rendering of color images and crisper display of even the most delicate shadings and color differences
- **LED backlight** reduces startup time and lowers total power consumption
- **Human sensor** saves power by turning off backlight when the display is not in use
- **GammaCompMD QA software**, included with each display, ensures consistent image quality and conformance to the DICOM standard
- **FDA 510(k)** approved

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Specifications for MD242C2

MODEL	MD242C2
DISPLAY	
Viewable Image Size	24.1"
Color Type	Color
MegaPixels	2.3MP
Native Resolution	1920 x 1200
Pixel Pitch	0.27mm
Pixels Per Inch	94 @ native resolution
Brightness (typical)	180 cd/m² calibrated / 350 cd/m² max.
Contrast Ratio (typical)	1000:1
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Response Time	8m (Gray to Gray @ RESPONSE IMPROVE ON)
Lookup Table	14-bit
Displayable Colors	16.8 million colors out of a 4.348 trillion color pallette (8-bit) / 1.074 billion colors out of a 4.348 trillion color palette (10-bit) / 1024 levels of gray (10 bit) or 256 levels of gray (8 bit) out of 16,321
Sensors	RGB front
Synchronization Range	
Horizontal (Analog/Digital)	31.5 kHz-93.8 kHz and 118.4 kHz / 31.5 kHz-91.2 kHz and 118.4 kHz
Vertical	50-85 Hz
CONNECTIVITY	
Input Connectors	DVI-D, DisplayPort, HDMI, VGA
POWER CONSUMPTION	
On (typical)	29.5W
Power Savings Mode (typical)	<1.5W
PHYSICAL SPECIFICATIONS	
Dimensions (WxHxD)	
Net (with stand)	21.9 x 14.9-20.8 x 9 in. / 556.8 x 378 - 528 x 227.6 mm
Net (without stand)	21.9 x 14.3 x 3.3 in. / 556.8 x 362.4 x 85.0 mm (except bulge of 5.0mm)
Weight	
Net (with stand)	22.5 lbs. / 10.2 kg
Net (without stand)	15.0 lbs. / 6.8 kg
VESA Hole Configuration	100 x 100mm
ENVIRONMENTAL CONDITIONS	
Operating Temperature	41-95°F / 5-35°C
Operating Humidity	20-80%
Operating Altitude	16404 ft. / 5000m
Storage Temperature	14-140°F / -10-60°C
Storage Humidity	10-85%
Storage Altitude	40,000 ft. / 12,192m
LIMITED WARRANTY	5 years, including Advanced Overnight Exchange*
ADDITIONAL FEATURES	DICOM GSDF calibrated; ColorComp image uniformity correction; GammaCompMD QA software; Analog/digital CableComp; Pivot; Tilt; Swivel; Height-adjustable stand
SHIPS WITH	Power cord; DisplayPort, DVI-D and USB A to B; DVI cable; Quick Reference, CD (Manual, GammaCompMD QA)
OPTIONAL ACCESSORIES	Nvidia Quadro 2000D dual PCIe video card (MDN-Q2000D); AMD V5800 dual DVI PCIe video card (MDA-V5800D); AMD FirePro W5000 triple output PCIe video card (MDA-W5000), NVIDIA Quadro K2000 triple output PCIe video card (MDN-K2000); Matrox Xenia Pro triple-head video card (MDM-XENPRO); Color calibration sensor (MDSVSENSOR2); Color calibration sensor (MDSVSENSOR3)

* Backlight replacement limited to 25,000 hours of usage at 180 cd/m2 or less at the native white point or 15,000 hours of usage at 180 cd/m2 or less at the Clear Base white point

For consistent image quality the built-in front sensor constantly monitors and maintains brightness for optimal DICOM GSDF calibration and for non-assisted conformance, calibration and reporting functions,the sensor is capable of measuring monitor brightness, white-point and contrast response.

Achieve complete color and brightness uniformity. By nature, LCD panels contain uniformity errors, which are visible as slightly brighter or darker areas on the screen. To combat this inherent trait, each MD Series display is individually characterized during production and digital uniformity correction is applied. This technology, called ColorComp, reduces the non-uniformity to virtually unnoticeable levels and applies a digital correction to each pixel on the screen to compensate for differences in color and luminance.

Without ColorComp

With ColorComp
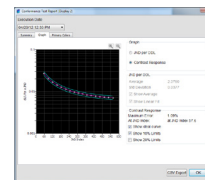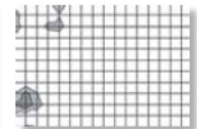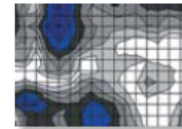
GammaCompMD™ QA software, included with each display, ensures consistent image quality. The software provides a simple interface for conformance to the DICOM standard, while providing an easy-to-use QA environment for medical imaging. Optionally, GammaCompMD QA Server provides computer networks with centralized control and management of multiple display systems.

The MD242C2's design allows you to adjust the display to your exact ergonomic preferences. In addition to tilt and swivel functionality, the height adjusts up to 150mm, and the display pivots between landscape to portrait orientations.

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