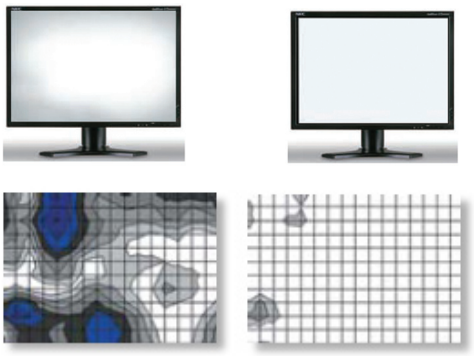
NEC MultiSync® MD304MC

30" widescreen, high-resolution (2560 x 1600) 4MP color LCD display ideal for medical applications

Designed exclusively for the demanding needs of medical imaging and PACS, the NEC MultiSync® MD304MC display embodies the precision, high performance and intelligence you'd expect from a world leader in display technology. Benefits you'll realize from this medically certified display include:

- Widescreen, high resolution (2560 x 1600) has the equivalent imaging space of two 2MP displays
- Each NEC MultiSync MD304C monitor is calibrated out of the box to the DICOM grayscale display function for luminance
- X-Light™ Pro backlight system monitors and constantly readjusts the luminance, which allows for consistent brightness and DICOM GSDF conformance and provides the basis for excellent diagnostic quality
- ColorComp™ digital uniformity correction reduces screen uniformity errors and compensates for differences in color/grayscale and luminance across the entire screen
- GammaComp™ MD 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, GammaComp MD Administrator provides computer networks with centralized control and management of multiple display systems.
- 12-bit gamma provides for more finely detailed, high-definition rendering of color images and crisper display of even the most delicate shadings and color differences
- Automatic black level adjustment regulates grayscale images for optimal picture quality



Achieve complete color and brightness uniformity. *By nature, LCD panels and CCFL backlights contain uniformity errors, or mura, which are visible as slightly brighter or darker areas on the screen. To combat this inherent trait, each MultiSync MD304MC display is individually characterized during production using a fully automated system that measures hundreds of points across the screen at different gray levels. These measurements are used to build a 3-D correction matrix stored inside the display. This data is used to compensate for the uniformity not only as a function of position on the screen but of gray level as well. In turn, 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.*

The MD304MC'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 190mm, and the display pivots between landscape to portrait orientations.

Model	MultiSync MD304MC
Display	
Viewable Size Image	29.8"
Pixel Pitch	0.251mm
Pixels Per Inch	101
Brightness (typical)	200 cd/m² calibrated / 350 cd/m² max
Contrast Ratio (typical)	1000:1
Viewing Angle (typical)	178° Vert., 178° Hor. (89U/89D/89L/89R)@ CR > 10
Response Time (typical)	Rapid Response™ (6ms Gray-to-Gray; 12ms Black-to-Black)
Panel Bit Depth	12-bit internal LUTs, displays 16.7 million colors out of 68.5 billion color palette and 256 shades of gray out of 4096
Color Gamut*	
Coverage	AdobeRGB** - 97.8% / sRGB - 100%
Size	AdobeRGB - 108% / sRGB - 145.7%
Synchronization Range	
Horizontal	24 - 93.8 KHz (Analog/Digital)
Vertical	24 - 85 Hz
Video Bandwidth	25.2 - 268.5 MHz (DualLink)
Input Signal	
Video	Analog RGB 0.7 Vp-p/75 Ohms
Sync	Separate sync: TTL Level (Positive/Negative) Composite sync: TTL Level (Positive/Negative) Composite sync on green: (0.3Vp-p negative 0.7Vp-p positive)
Inputs	DVI-D (HDCP), DVI-I
Resolutions Supported (Analog/Digital)	640 x 400 @ 70-85 Hz*** 720 x 400 @ 70-85 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1152 x 864 @ 70-85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-85 Hz 1400 x 1050 @ 60-75 Hz 1440 x 900 @ 60-85 Hz 1600 x 1200 @ 60-75 Hz**** 1680 x 1050 @ 60-75 Hz**** 1920 x 1200 @ 60 Hz 1920 x 1440 @ 30-60Hz**** 2560 x 1600 @ 30-60 Hz**** 720 x 480p @ 60 Hz 720 x 576p @ 50 Hz 1280 x 720p @ 50-60 Hz 1920 x 1080p @ 50-60 Hz
Native Resolution	2560 x 1600 @ 60 Hz landscape / 1600 x 2560 @ 60 Hz portrait
Additional Features	Ultra-thin frame (bezel), No Touch Auto Adjust™, VESA Mount, tilt, swivel, height-adjustable stand (7.3 in. / 190mm), pivot, quick-release stand, zero-watt vacation switch, 12-bit LUTs, black level adjustment, AmbiBright, ColorComp uniformity correction, overdrive, ECO Mode™, real-time clock, X-Light Pro backlight system, Analog/Digital CableComp™, GammaComp™ MD software, standalone calibration, Windows Vista™ Premium-certified
Touch-Capable	Designed for integration
Voltage Rating	AC 100-120V / AC 220-240V
Power Consumption (typical)	
On	143W
Power Savings Mode	1.3W
Dimensions (WxHxD)	
Net (with stand)	27.1 x 18.8 - 26.3 x 13.5 in./ 687.3 x 478.6 - 668.6 x 342.8mm
Net (without stand)	27.1 x 17.6 x 5 in./ 687.3 x 446.8 x 126mm
Net Weight	
(with stand)	42 lbs. / 19.2 kg
(without stand)	31.7 lbs. / 14.4 kg
VESA Hole Configuration Specifications	100 x 100mm and 200 x 100mm
Environmental Conditions	
Operating Temperature	5-35° C / 41-95° F
Operating Humidity	30-80%
Operating Altitude	3048m / 10,000 ft.
Storage Temperature	-10-60° C / 14-140° F
Storage Humidity	10-85%
Storage Altitude	12,192m / 40,000 ft.
Safety Standards	UL/C-UL, UL60601-1, CE, Gost/PCT, PSB, CCC, TUV GS, FCC Class B/ Canadian DOC, C-tick, MPR II / MPR III, VCCI (class 2), JIS C 61000-3-2, static electricity guideline, low emission guideline, TUV-Ergonomie, ISO9241-307, TCO '03, TCO '6, US Mercury regulations, WEEE, RoHs, SASO, Energy Star 4.0 Tier 2, GEEA, JEITA VOC Guideline. J-Moss, Windows XP, DEN-TORI, FDA 510k pending
Limited Warranty	5 years parts and labor, including Advanced Overnight Exchange*****

* Color gamut size and coverage calculated as 2-D gamut area in CIE 1931 xy colorspace. Size is the total relative display gamut area and includes any colors outside the reference gamut. Coverage is the relative display gamut area contained inside the reference gamut. NTSC values provided for comparison purposes - modern broadcast video uses SMPTE-C, ITU-R BT, 709-5/sRGB or EBU primatries.

** AdobeRGB is a standard defined by Adobe Systems Incorporated.
*** 640 x 400 available with DIGITAL input only only
**** 30 Hz refresh rate available with ANALOG input only
***** Backlight usage limited to 20,000 hours at 200 cd/m² or less

ENERGY STAR RoHS compliant CERTIFIED FOR Windows Vista™

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