

NEC MultiSync® MD304MC

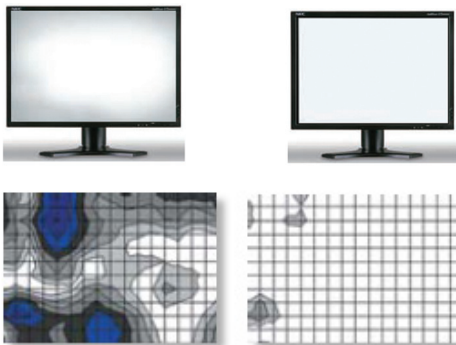
30" widescreen, high-resolution (2560 x 1600) 4MP color LCD display
ideal for medical applications

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
- FDA 510(k) approved for use in digital radiology applications



NEC MULTISYNC MD SERIES The clear choice in diagnostic displays.



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/m ² calibrated / 350 cd/m ² 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 Size | AdobeRGB** - 97.8% / sRGB - 100% 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 |
| 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 '06, US Mercury regulations, WEEE, RoHS, SASO, Energy Star 4.0 Tier 2, GEEA, JEITA VOC Guideline. J-Moss, Windows XP, DEN-TORL, FDA 510(k) |
| 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 primaries.

** AdobeRGB is a standard defined by Adobe Systems Incorporated.

*** Backlight usage limited to 20,000 hours at 200 cd/m² or less



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