\Orchestrating a brighter world

# NEC

32" 8 megapixel color LCD ideal for color
and grayscale medical review applications

# NEC MultiSync® MD322C8

# MD322C8 32" 8 Megapixel Medical Review Display with LED Backlighting

The 32" NEC MultiSync MD322C8, a mid-brightness medical-grade widescreen review display, is designed for the demanding needs of healthcare professionals in medical imaging and PACS. This 8-megapixel model offers factory DICOM calibration, excellent uniformity, DisplayPort and HDMI connectivity with an OPS expansion slot for optional 3G/SD/HD-SDI inputs and high-performance technologies such as automatic luminance control, and 2- or 4-way Picture-by-Picture mode for simultaneous input viewing.

## Highlights

- Superior screen performance with wide viewing angles (1000:1 contrast ratio, 8 megapixel 3840x2160 native resolution, 350cd/$m^2$ typical brightness, 180cd/$m^2$ calibrated)
- Picture in Picture and Picture by Picture modes increase productivity by displaying two or four sources simultaneously
- USB hub with DisplaySync Pro™ controls two computers with only one keyboard and mouse
- Wide connectivity includes two DisplayPort with 10-bit support, four 10-bit HDMI, two DVI-D inputs as well as a USB hub

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

# MultiSync MD Series Features

## Factory DICOM Calibration

Every MultiSync MD Series display includes a lookup table (LUT) and is individually calibrated at the production factory to the DICOM grayscale display function for luminance. This calibration is held stable by sensors in the display for accurate out of the box viewing.
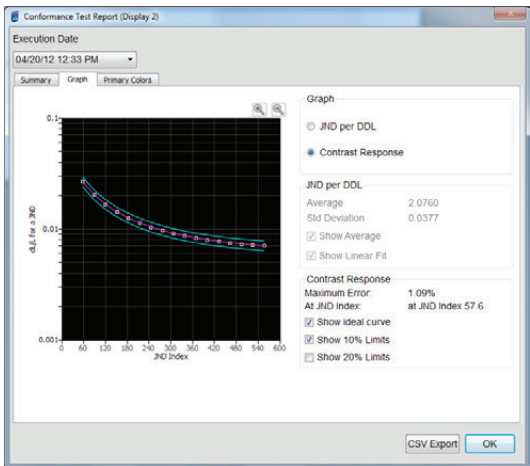


## OPS Expansion Slot

Based on the Open Pluggable Specification, the OPS slot included allows for additional connectivity options.
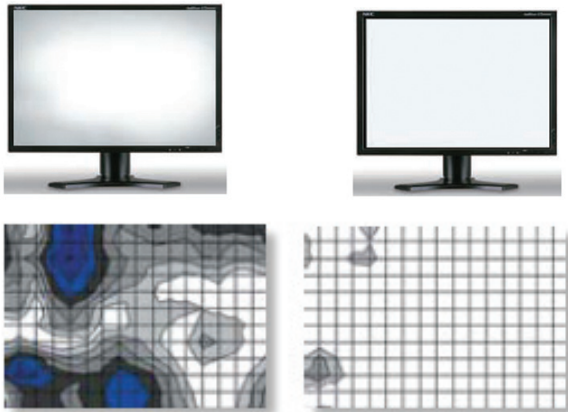


## GammaCompMD™ QA software

This software is included with each display and ensures consistent image quality, including conformance to the DICOM standard, while providing an easy-to-use QA environment for medical imaging. The optional GammaCompMD QA Server provides computer networks with centralized control and management of multiple display systems.



## ColorComp™ Digital Uniformity Control

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, applies a digital correction to each pixel on the screen to compensate for differences in color and luminance and reduces the non-uniformity to virtually unnoticeable levels.

| MODEL | | MD322C8 |
|---|---|---|
| **DISPLAY** | Viewable Image Size | 31.5" |
| | Aspect Ratio | 16:9 |
| | Native Resolution | 3840 x 2160 (UHD) |
| | Pixel Pitch | 0.18mm |
| | Pixels Per Inch | 140 @ native resolution |
| | Brightness (typical) | 350 cd/m² (typical), 180 cd/m² (calibrated) |
| | Response Time (typical) | 10 ms (GtG) |
| | Lookup Table (LUT) | 14-bit 3D |
| | Displayable Colors | 1.07 billion out of 4.3 trillion (10-bit DisplayPort or HDMI input); 16.7 million colors out of 4.3 trillion color palette (8-bit DisplayPort, HDMI or DVI-D) |
| | Input Connectors | DisplayPort 1.2, OPS slot DisplayPort 1.1a, DVI-D Dual Link x2 / HDMI 1.4 x4 |
| **POWER CONSUMPTION** | On (typical) | 95W |
| | Power Savings Mode (ADVANCED) | 5W |
| **PHYSICAL SPECIFICATIONS** | Dimensions (WxHxD) | |
| | Net (with stand) | 29.3 x 18.4 x 11.9 in. / 744.8 x 468.4 x 301.6 mm |
| | Net (without stand) | 29.3 x 17.4 x 3.9 in. / 744.8 x 440.8 x 100.0 mm |
| | Weight | |
| | Net (with stand) | 45.2 lbs. / 20.5 kg |
| | Net (without stand) | 31.3 lbs. / 14.2 kg |
| | VESA Hole Configuration | 100 x 100mm, 200 x 100mm |
| **ENVIRONMENTAL CONDITIONS** | Operating Temperature | 41-95°F / 5-35°C |
| | Operating Humidity | 30 - 80% |
| | Operating Altitude | 16,404 ft. / 5000m |
| | Storage Temperature | 14-140°F / -10-60°C |
| | Storage Humidity | 10-85% |
| | Storage Altitude | 40,000 ft. / 12,192m |
| | Tropical Environments | Yes |
| **ADDITIONAL FEATURES** | USB 3.0 hub (2 up/3 down) with DisplaySync Pro, 5 Picture Modes, Picture in Picture, 2 way Picture by Picture, 4 way Picture by Picture, ICC Profile Emulation, Color Vision Emulation, 14-bit 3D gamma lookup table (LUT) with 16-bit processing, wide color gamut, Adobe RGB, DICOM, REC 709, Digital Uniformity Correction, black level adjustment, ambient light sensor, backlight stability sensor, 150mm height-adjustable and quick release stand with locking base and cable management as well as tilt, swivel and pivot, touch-integratable, CableComp, TileMatrix and TileComp support, Standalone hardware calibration, integrated 2+2W speakers, Kensington security slot | |
| **OPTIONAL ACCESSORIES** | Color calibration sensor (MDSVSENSOR3); Hood (HDPA32) , HD-SDI input card (SB-01HC), 3G/HD/HD-SDI input card (SB-04HC) see http://necdisplay.com for supported video cards | |
| **SHIPS WITH** | Power cord; DisplayPort cable; Mini DisplayPort to DisplayPort cable; USB 3.0 A to B cable; Mounting screws; CD-ROM with manual and MultiProfiler | |