

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

**NEC MultiSync® MD242C2**



# 24" Color 2.3-Megapixel Clinical Display with Integrated Front Sensor

The 24" NEC MultiSync MD242C2, a referral-grade widescreen diagnostic display, is designed for the demanding needs of healthcare professionals in medical imaging and PACS. This 2.3-megapixel model has an IPS panel to provide precise color reproduction and wide viewing angles, as an integrated front sensor which constantly monitor and adjust brightness to maintain the factory DICOM GSDF calibration. The MD242C2 also includes a human presence sensor that can automatically dim the screen to conserve power, a Quick QA function for checking DICOM conformance without a computer and its stand has four-way ergonomic functionality, including height-adjust, swivel, tilt and pivot. The display offers DisplayPort, DVI-D, HDMI and VGA inputs, built-in three-port USB hub with DisplaySync Pro, 14-bit lookup tables (LUTs) with 1024 levels of gray for smooth images and hardware calibration.



## Highlights

- LED backlit IPS LCD technology offers excellent contrast and viewing angles, making outstanding image quality outstanding for color or grayscale images
- 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
- FDA 510(k) approved

## MultiSync MD Series Features

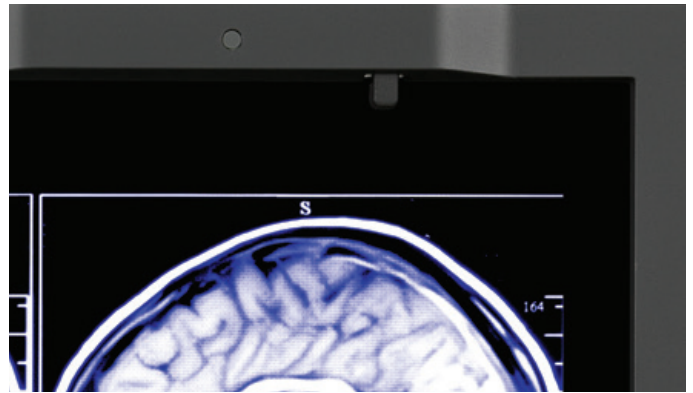
### Factory DICOM Calibration

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.



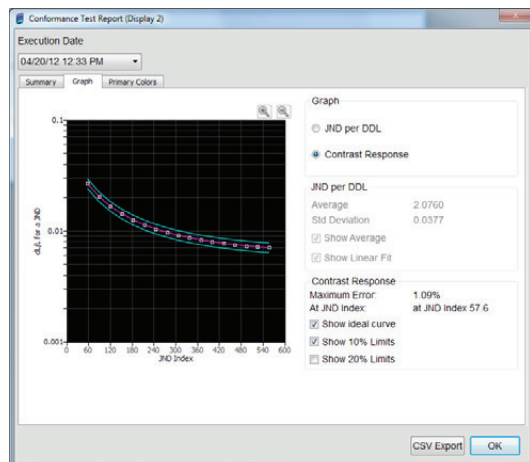
### Front Sensor

The built-in front sensor constantly monitors and maintains brightness for optimal DICOM GSDF calibration and consistent image quality. The front sensor is capable of measuring monitor brightness, white-point and contrast response, allowing it to be used for scheduled conformance, calibration and reporting functions.



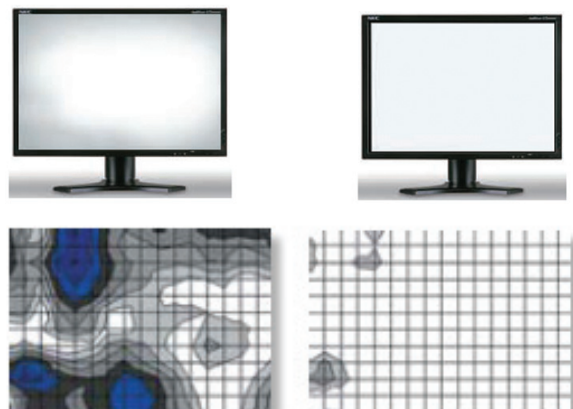
### GammaCompMD™ QA software

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	MD242C2	
<b>DISPLAY</b>	Viewable Image Size	24.1"
	Native Resolution	1920 x 1200
	Pixel Pitch	0.27mm
	Pixels Per Inch	94 @ native resolution
	Brightness (typical)	180 cd/m <sup>2</sup> calibrated / 350 cd/m <sup>2</sup> max.
	Response Time (typical)	8m (Gray to Gray @ RESPONSE IMPROVE ON)
	Lookup Table (LUT)	14-bit (3D)
	Displayable Colors	16.8 million colors out of a 4.348 trillion color palette (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
	Input Connectors	DisplayPort, Mini DisplayPort, DVI-D, HDMI
<b>POWER CONSUMPTION</b>	On (typical)	29.5W
	Power Savings Mode (ADVANCED)	<1.5W
<b>PHYSICAL SPECIFICATIONS</b>	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
<b>ENVIRONMENTAL CONDITIONS</b>	Operating Temperature	41-95°F / 5-35°C
	Operating Humidity	20-80%
	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
<b>LIMITED WARRANTY (parts &amp; labor, including backlight)</b>	5 years, including Advanced Overnight Exchange, backlight replacement limited to 25,000 hours of usage at 180 cd/m <sup>2</sup> or less at the native white point or 15,000 hours of usage at 180 cd/m <sup>2</sup> or less at the Clear Base white point	
<b>ADDITIONAL FEATURES</b>	DICOM GSDF calibrated; GammaComp MD QA software; Digital CableComp; Tilt; Swivel; Height-adjustable stand	
<b>OPTIONAL ACCESSORIES</b>	Color calibration sensor (MDSVSENSOR2); Color calibration sensor (MDSVSENSOR3), see <a href="http://necdisplay.com">http://necdisplay.com</a> for supported video cards	
<b>SHIPS WITH</b>	Power cord; DVI-D cable; Setup sheet; Mini DisplayPort and USB cables	

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