\Orchestrating a brighter world

NEC

High-bright LCD diagnostic displays ideal for
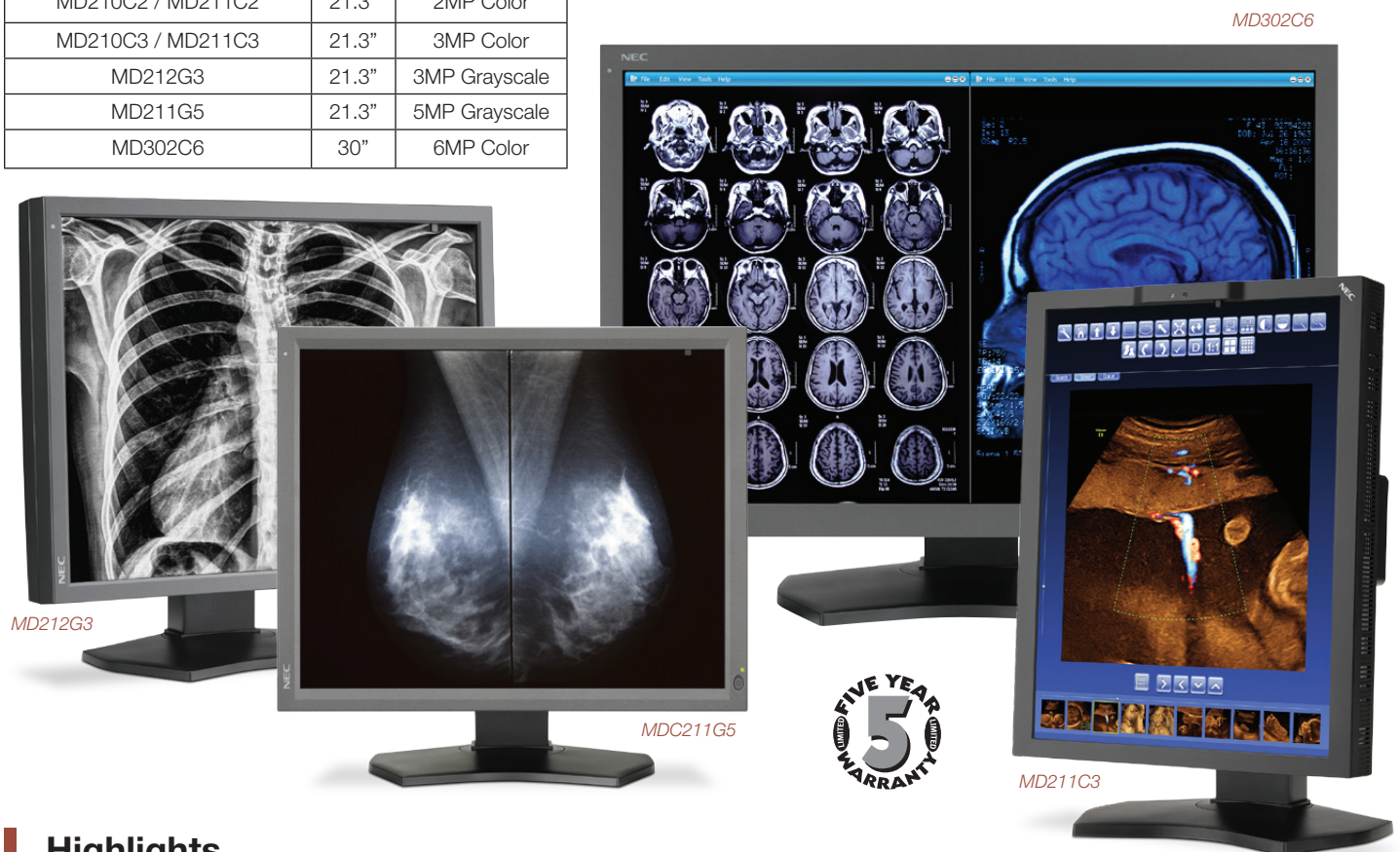color and grayscale medical imaging applications

NEC MultiSync® MD Series

MultiSync MD Series Diagnostic Displays

Designed exclusively for the demanding needs of radiology, medical imaging, PACS and mammography, the NEC MultiSync MD Series diagnostic displays embody the precision, high performance and intelligence you'd expect from a trusted leader in display technology. The series includes 2, 3 and 6 Megapixel (MP) color displays, and 3MP and 5MP grayscale displays.

Model	Size	Type
MD210C2 / MD211C2	21.3"	2MP Color
MD210C3 / MD211C3	21.3"	3MP Color
MD212G3	21.3"	3MP Grayscale
MD211G5	21.3"	5MP Grayscale
MD302C6	30"	6MP Color

MD302C6

MD212G3

MDC211G5

MD211C3

Highlights

- Each MD Series monitor is factory-calibrated to the DICOM grayscale display function for luminance and every model features an integrated front sensor for stable luminance
- Outstanding image quality for both color and grayscale images due to NEC's LCD technologies that offer high brightness without compromising contrast or viewing
- Color displays feature brightness and contrast performance rivaling grayscale displays while grayscale displays feature long life, high resolution and high brightness
- Most models feature Digital Uniformity Correction reduces differences in color, grayscale and luminance across the entire screen
- Most color models feature an integrated, tri-stimulus (three-color) sensor is more accurate and stable than standard luminance sensors
- More finely detailed and accurate display of even the most delicate shadings and color differences due to lookup tables (LUTs) as large as 16-bit
- Select models feature quick startup and a human presence sensor to save energy when not in use
- FDA 510(k) cleared for use in digital radiology applications

* except MDC212C2

NEC MULTISYNC MD SERIES The clear choice in diagnostic displays.
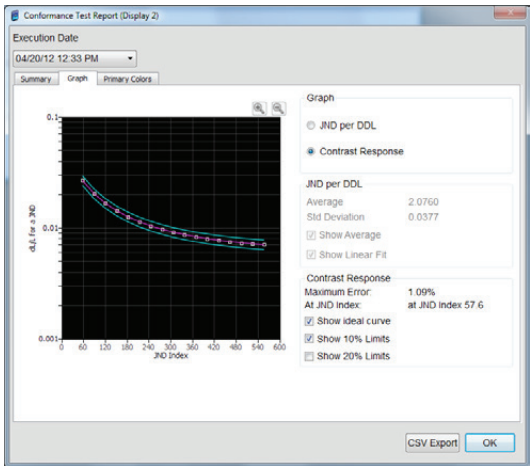
MultiSync MD Series Features

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.
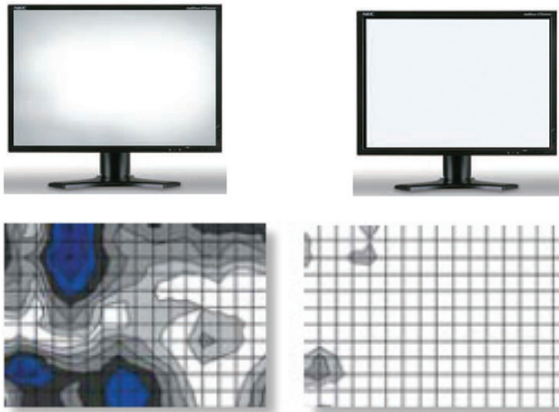
Front Sensor*

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		MD210C2	MD211C2	MD210C3	MD211C3	MD212G3	MD211G5	MD302C6
DISPLAY	Viewable Image Size	21.3"						30"
	Native Resolution	1600 x 1200	1600 x 1200	2048 x 1536			2048 x 2560	3280 x 2048
	Pixel Pitch	0.27mm		0.21mm			0.17mm	0.197mm
	Pixels Per Inch	94@ native resolution	94 @ native resolution	120 @ native resolution			154 @ native resolution	129@ native resolution
	Brightness (typical)	400 cd/m² calibrated / 760 cd/m² max.	400 cd/m² calibrated / 900 cd/m² max.	400 cd/m² calibrated / 740 cd/m² max.	400 cd/m² calibrated / 800 cd/m² max.	400 cd/m² calibrated / 1700 cd/m² max.	500 cd/m² calibrated / 1200 cd/m² max.	400 cd/m² calibrated / 800 cd/m² max.
	Response Time (typical)	20ms	40ms	40ms	40ms	20ms (white to black)	25ms	15ms (black to white)
	Lookup Table (LUT)	14-bit				16-bit	13.5-bit	16-bit
	Displayable Colors	16.8 million colors out of a 4.398 trillion color pallette (8-bit)	16.8 million colors out of a 4.398 trillion color pallette (8-bit) / 1.074 billion colors out of a 4.398 trillion color palette (10-bit) / 16,384 levels of grayscale	16.8 million colors out of a 4.398 trillion color pallette (8-bit)	16.8 million colors out of a 4.398 trillion color pallette (8-bit) / 1.074 billion colors out of a 4.398 trillion color palette (10-bit) / 16,384 levels of grayscale	1024 shades of gray out of 48,961 (256 shades of gray out of 48,961 [DVI-D])	1024 levels of gray out of a palette of 12277	1.07 billion colors out of 4.3 trillion or 1024 shades of gray out of 4096 (10-bit); 16.7 million colors out of 1.05 billion color palette or 256 shades of gray out of 4096 (DVI-D input)
	Input Connectors	DVI-D, DisplayPort						
POWER CONSUMPTION	On (typical)	80W		85W	85W	50W	80W	173.5W
	Power Savings Mode (ADVANCED)	<2W				2W	7W	16W
PHYSICAL SPECIFICATIONS	Dimensions (WxHxD)							
	Net (with stand)	14.7 x 19.3-23.4 x 9.3 in. / 373.4 x 490.6-593.4 x 235.5mm				18.7 x 14.9-20.9 x 9.0 in. / 474 x 380-530 x 228 mm	18.7 x 15.9-21.3 x 9 in. / 474.5 x 403.3-541.8 x 227.6mm	27.4 x 19.2 x 11.9 in. / 695.6 x 486.5 x 301.6 mm
	Net (without stand)	18.6 x 14.7 x 4.1 in. / 473 x 373.4 x 104.1mm				18.7 x 14.4 x 3.6 in. / 474 x 367 x 93 mm	18.7 x 15.4 x 3.9 in. / 474.5 x 390 x 98.2mm	27.4 x 18.4 x 3.9 in. / 695.6 x 467.1 x 100.0 mm
	Weight							
	Net (with stand)	26 lbs. / 11.8 kg				23.8 lbs. / 10.8 kg	26 lbs. / 11.8 kg	38.8 lbs / 17.6 kg
	Net (without stand)	17 lbs. / 7.8 kg				17.0 lbs / 7.7 kg	19.0 lbs. / 8.6 kg	25.1 lbs / 11.4 kg
	VESA Hole Configuration	100 x 100mm					100 x 100mm	200 x 100mm
ENVIRONMENTAL CONDITIONS	Operating Temperature	41-95°F / 5-35°C						
	Operating Humidity	20 - 80%						
	Operating Altitude	10,000 ft. / 3048m				9843 ft. / 3000m	10,000 ft. / 3048m	9843ft / 3000m
	Storage Temperature	14-140°F / -10-60°C				-4-140°F / -20-60°C	14-140°F / -10-60°C	-4-140°F / -20-60°C
	Storage Humidity	10 - 85%				20 - 80%	10 - 85%	
	Storage Altitude	40,000 ft. / 12,192m				9843 ft. / 3000m	40,000 ft. / 12,192m	32808ft / 10000m
LIMITED WARRANTY (parts & labor, including backlight)		5 years with Advanced Overnight Exchange (usage restrictions may apply)						
ADDITIONAL FEATURES		DICOM GSDF calibrated; Digital uniformity correction; USB hub; Quick QA feature (MD210C2, MD211C2, MD210C3, MD211C3); GammaComp MD QA software; Analog/digital CableComp; Pivot; Tilt; Swivel; Height-adjustable stand						
OPTIONAL ACCESSORIES		(MDA-W4100); Color calibration sensor (MDSVSENSOR2); Standalone calibration sensor (MDSVSENSOR3); Traceable calibration sensor (CC-I1PRO2), see http://necdisplay.com for supported video cards						
SHIPS WITH		Power cord; DVI cable (Dual Link for several models); Setup sheet; CD-ROM (GammaCompMD QA software); DisplayPort cable; USB cable						