NEC MultiSync® MD Series

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

Designed exclusively for the demanding needs of radiology, medical imaging, PACS and mammography, the NEC MultiSync MD Series embodies the precision, high performance and intelligence you'd expect from a world leader in display technology. The series includes 2-, 3- and 4-Megapixel (MP) color displays, and a 3MP grayscale display.

Benefits you'll realize from these medically certified displays include:

- Outstanding image quality for both color and grayscale images due to NEC's UA-SFT and SA-SFT liquid crystal technologies, which offers high brightness without compromising contrast or viewing
- Color displays that feature brightness and contrast performance rivaling grayscale displays
- Grayscale displays feature long life, high resolution and high brightness
- Fewer screen uniformity errors and automatic compensation for differences in color/grayscale and luminance across the entire screen because of digital uniformity correction on select models
- The MD212MC and MD213MC feature an integrated, tri-stimulus (three-color) sensor that receives more light information than standard (brightness only) sensors and, therefore, is extremely accurate and stable
- Each MD Series monitor comes calibrated out of the box to the DICOM grayscale display function for luminance and every model features an integrated front sensor or a backlight sensor
- More finely detailed, high-definition rendering of color images and crisper display of even the most delicate shadings and color differences due to RGB lookup tables (LUTs) as large as 14-bit
- Every display includes GammaCompMD QA software to ensure consistent image quality by simple local or network interface for conformance to the DICOM standard, while providing an easy-to-use QA environment for medical imaging
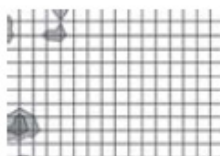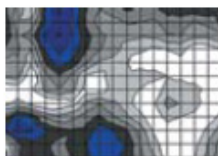
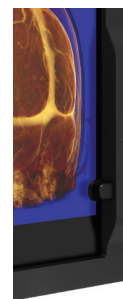| Model	Size	Type
MD212MC	21.3"	2MP Color
MD213MC	21.3"	3MP Color
MD213MG	21.3"	3MP Grayscale
MD304MC	30"	4MP Color
MD301C4	30"	4MP Color

Without ColorComp　　　*With ColorComp*

Achieve complete color and brightness uniformity.
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, 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.

For consistent image quality the built in front sensor constantly monitors and maintains brightness for optimal DICOM GSDF calibration and for non-assisted conformance, calibration and reporting functions, the sensor is capable of measuring monitor brightness, white-point and contrast response.

NEC MULTISYNC MD SERIES The clear choice in diagnostic displays.

NEC

Model	MultiSync MD212MC	MultiSync MD213MC	MultiSync MD213MG	MultiSync MD304MC	MultiSync MD301C4
Display					
Viewable Size Image	21.3"	21.3"	21.3"	29.8"	29.8"
Pixel Pitch	0.27mm	0.21mm	0.21mm	0.251mm	0.251mm
Pixels Per Inch	94	120	120	101	101
Brightness (typical)	400 cd/m² calibrated / 850 cd/m² max	400 cd/m² calibrated / 800 cd/m² max	400 cd/m² calibrated / 1450 cd/m² max	200 cd/m² calibrated / 350 cd/m² max	250 cd/m² calibrated / 350 cd/m² max
Contrast Ratio (typical)	1050:1	750:1	900:1	1000:1	1000:1
Viewing Angle (typical)	176° Vert., 176° Hor. (88U/88D/88L/88R) @ CR > 10	176° Vert., 176° Hor. (88U/88D/88L/88R) @ CR > 10	176° Vert., 176° Hor. (88U/88D/88L/88R) @ CR > 10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10
Response Time (typical)	Rapid Response™ 20ms Gray-to-Gray	Rapid Response™12ms Gray-to-Gray	Rapid Response™ 12ms Gray-to-Gray	Rapid Response™ 6ms Gray-to-Gray	Rapid Response™ 7ms Gray-to-Gray
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	12-bit internal LUTs, displays 16.7 million colors out of 68.5 billion color palette and up to 1024 shades of gray out of 4096	12-bit internal LUTs, displays up to 1024 shades of gray out of 4096	12-bit internal LUTs, displays 16.7 million colors out of 68.5 billion color palette and 256 shades of gray out of 4096	14-bit internal LUTs, displays 1.07 billion colors out of 4.3 trillion or 1024 shades of gray out of 4096 (10-bit DisplayPort input); 16.7 million colors out of 1.05 billion color palette or 256 shades of gray out of 4096 (DVI-D input)
Inputs	DVI-D, DVI-I and VGA 15-pin D-sub	DVI-D and DVI-I	DVI-D and DVI-I	DVI-D (HDCP), DVI-I	DisplayPort (2), DVI-D (2)
Image Stabilization	Tri-stimulus front sensor	Tri-stimulus front sensor	Front sensor	Backlight sensor	Backlight sensor
Native Resolution	1600 x 1200 @ 60 Hz landscape / 1200 x 1600 @ 60 Hz portrait	2048 x 1536 @ 60 Hz landscape / 1536 x 2048 @ 60 Hz portrait	2048 x 1536 @ 60 Hz landscape / 1536 x 2048 @ 60 Hz portrait	2560 x 1600 @ 60 Hz landscape / 1600 x 2560 @ 60 Hz portrait	2560 x 1600 @ 60 Hz landscape / 1600 x 2560 @ 60 Hz portrait
Additional Features	DICOM GSDF calibrated, ColorComp image uniformity correction, ambient light compensation, response time overdrive, GammaComp MD QA software, pivot, tilt, swivel, height-adjustable stand (5.9 in./150mm), analog/digital CableComp™	DICOM GSDF calibrated, ColorComp image uniformity correction, ambient light compensation, response time overdrive, GammaComp MD QA software, pivot, tilt, swivel, height-adjustable stand (5.9 in./150mm), analog/digital CableComp™	DICOM GSDF calibrated, ColorComp image uniformity correction, ambient light compensation, response time overdrive, GammaComp MD QA software, pivot, tilt, swivel, height-adjustable stand (5.9 in./150mm), analog/digital CableComp™	DICOM GSDF calibrated, ColorComp image uniformity correction, ambient light compensation, response time overdrive, GammaComp MD QA software, pivot, tilt, swivel, height-adjustable stand (5.9 in./150mm), analog/digital CableComp™	DICOM GSDF calibrated, Digital Uniformity Correction, ambient light compensation, response time overdrive, GammaCompMD QA software, pivot, tilt, swivel, height-adjustable stand (5.9 in./150mm), analog/digital CableComp™
Voltage Rating	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V
Power Consumption (typical)					
On	100W	105W	100W	143W	155W (w/o USB active)
Power Savings Mode	2W	2W	2W	1.3W	1.7W (w/o USB active)
Dimensions (WxHxD)					
Net (with stand)	18.4 x 17.1-23 x 12 in. / 467.8 x 434.3-584.3 x 306mm	18. x 17.1-23 x 12 in. / 467.8 x 434.3-584.3 x 306mm	18. x 17.1-23 x 12 in. / 467.8 x 434.3-584.3 x 306mm	27.1 x 18.8-26.3 x 13.5 in./ 687.3 x 478.6-668.6 x 342.8mm	27.1 x 18.4-24.3 x 11.9 in./ 687.3 x 467.6-617.2 x 302.3mm
Net (without stand)	18.4 x 14.2 x 4.4 in. / 467.8 x 361.6 x 110.7mm	18.4 x 14.2 x 4.4 in. / 467.8 x 361.6 x 110.7mm	18.4 x 14.2 x 4.4 in. / 467.8 x 361.6 x 110.7mm	27.1 x 17.6 x 5 in./ 687.3 x 446.8 x 126mm	27.1 x 17.6 x 4.9 in./ 687.3 x 447 x 124.5mm
Net Weight					
(with stand)	23.5 lbs. / 10.7 kg	23.5 lbs. / 10.7 kg	23.5 lbs. / 10.7 kg	42 lbs. / 19.2 kg	41.5 lbs. / 18.8 kg
(without stand)	16.5 lbs. / 7.5 kg	16.5 lbs. / 7.5 kg	16.5 lbs. / 7.5 kg	31.7 lbs. / 14.4 kg	27.6 lbs. / 12.5 kg
VESA Hole Configuration Specifications	100 x 100mm	100 x 100mm	100 x 100mm	100 x 100mm and 200 x 100mm	100 x 100mm and 200 x 100mm
Environmental Conditions					
Operating Temperature	5-35° C / 41-95° F	5-35° C / 41-95° F	5-35° C / 41-95° F	5-35° C / 41-95° F	5-35° C / 41-95° F
Operating Humidity	30-80%	30-80%	30-80%	30-80%	30-80%
Operating Altitude	3000m / 9842 ft.	3000m / 9842 ft.	3000m / 9842 ft.	3048m / 10,000 ft.	3048m / 10,000 ft.
Storage Temperature	-10-60° C / 14-140° F	-10-60° C / 14-140° F	-10-60° C / 14-140° F	-10-60° C / 14-140° F	-10-60° C / 14-140° F
Storage Humidity	10-85%	10-85%	10-85%	10-85%	10-85%
Storage Altitude	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.
Safety Standards	UL/C-UL, UL60601-1, Gost/PCT, PSB, CCC, 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, US Mercury regulations, WEEE, RoHS, SASO, Energy Star 4.0 Tier 2, JEITA VOC Guideline. J-Moss, FDA 510k, CE-MDD Class 1, AAPM-TG18, CEL Grade 2	UL/C-UL, UL60601-1, Gost/PCT, PSB, CCC, 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, US Mercury regulations, WEEE, RoHS, SASO, Energy Star, J-Moss, FDA 510k, CE-MDD, IRAM, TUV GM, EPEAT, AAPM-TG-18, DIN V 6868-587 (Germany) CATB, CEL Grade 3	UL/C-UL, UL60601-1, Gost/PCT, PSB, CCC, 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, ISO9241-307, US Mercury regulations, WEEE, RoHS, SASO, Energy Star, J-Moss, FDA 510k, CE-MDD, IRAM, TUV GM, EPEAT, AAPM-TG-18, DIN V 6868-587 (Germany) CATB, CEL Grade 1	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, US Mercury regulations, WEEE, RoHS, SASO, Energy Star 4.0 Tier 2, GEEA, JEITA VOC Guideline. J-Moss, Windows XP, DEN-TORI, FDA 510k, CEL Grade 3	UL/C-UL, UL60601-1, CE, Gost/PCT, PSB, CCC, TUV GS, FCC Class B/Canadian DOC, C-tick, MPR II / MPR III, TUV-GM, VCCI (class 2), JIS C 61000-3-2, static electricity guideline, low emission guideline, TUV-Ergonomie, ISO9241-307, CE-MDD, US Mercury regulations, WEEE, RoHS , CEL, DIN V 6868-57, AAPM-TG18, JESRA-X0093, FDA 510k, CEL Grade 3
Limited Warranty*	5 years parts and labor, including Advanced Overnight Exchange	5 years parts and labor, including Advanced Overnight Exchange	5 years parts and labor, including Advanced Overnight Exchange	5 years parts and labor, including Advanced Overnight Exchange	5 years parts and labor, including Advanced Overnight Exchange

* Backlight usage limited to 30,000 hours at 400 cd/m² or less (MD304MC/MD301C4: 20,000 hours at 200 cd/m² or less)

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- Legacy Technology Services is a leading nationwide provider of mobile computing, barcode, printers and point of sale equipment and services.

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Discontinued product sourcing
- They don't make it anymore? Our inventory also includes manufacturer close-outs and discontinued equipment to support our clients legacy infrastructure.

Trade-in and Disposal services
- That old equipment laying around your facility may still have some value. Legacy routinely purchases equipment from our clients around the globe.
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  - Hardware disposal
  - Auditing services

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