Medical Desktop

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 3MP and 5MP grayscale displays.

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD212MC &amp; MD211C2 (LED)</td>
<td>21.3&quot;</td>
<td>2MP Color</td>
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<tr>
<td>MD213MC &amp; MD211C3 (LED)</td>
<td>21.3&quot;</td>
<td>3MP Color</td>
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<tr>
<td>MD211G3</td>
<td>21.3&quot;</td>
<td>3MP Grayscale</td>
</tr>
<tr>
<td>MD301C4</td>
<td>29.8&quot;</td>
<td>4MP Color</td>
</tr>
<tr>
<td>MD215MG &amp; MD211G5 (LED)</td>
<td>21.3&quot;</td>
<td>5MP Grayscale</td>
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</table>

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.

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.

Highlights

- Each MD Series monitor is factory-calibrated to the DICOM grayscale display function for luminance and every model features an integrated front sensor or a backlight sensor
- 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
- 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 15.5-bit
- LED-backlit 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 (select models)
**SPECIFICATIONS**

**MODEL**
- MD212MC
- MD213MC
- MD211C3
- MD211G3
- MD301C4
- MD215MG
- MD211G5

**DISPLAY**
- **Viewable Image Size**: 21.3".
- **Color Type**: Color
- **Mode**: GrayScale
- **Native Resolution**: 1920 x 1200
- **Horizontal**: 1600 x 1200
- **Vertical**: 2048 x 1536
- **Pixel Pitch**: 0.27/0 mm
- **Brightness (typical)**: 400 cd/m² calibrated / 850 cd/m² max.
- **Response Time**: 20ms
- **Input Signal**: Video: Analog RGB 0.7 Vp-p/75 Ohms

**PHYSICAL SPECIFICATIONS**

**ENVIRONMENTAL**
- **Temperature**: Operating: 30 - 80° C, Storage: -4 - 140°F / -20 - 60°C
- **Humidity**: Operating: 30 - 80%, Storage: 10 - 85%

**ACCESSORIES**
- **Ships With**: Power cord; DVI cable (Dual Link for several models); Setup sheet; CD-ROM (GammaCompMD QA software); DisplayPort cable (MD301C4 & MD211G5 only); USB cable (MD301C4, MD215MG & MD211G5 only)

**OPTIONAL ACCESSORIES**
- **GammaCompMD** QA 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. The optional GammaCompMD QA Server provides centralized control and management of multiple display systems across the healthcare facility.

**PHYSICAL SPECIFICATIONS**

**Connectivity**
- **Input Connectors**: DVI-D, DVI-I, VGA 15-pin

**Power Consumption**
- **On (typical)**: 100W
- **Power Savings Mode (sustained)**: <2W

**Dimensions (WxHxD)**
- **Net (with stand)**: 18.4 x 17.1-23 x 12 in. / 467.8 x 434.3-584.3 x 306mm
- **Net (without stand)**: 16.5 lbs. / 7.5 kg

**Weight**
- **Net (with stand)**: 23.5 lbs. / 10.7 kg

**VESA Hole Configuration**
- **100 x 100mm, 200 x 200mm**

**LIMITED WARRANTY**
- **5 years**, including Advanced Overnight Exchange*

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*Backlight replacement limited to 44,000 hours of usage at 400 cd/m² or less at the native white point (MD212MC and MD213MC limited to 30,000 hours at 400 cd/m² or less, MD301C4 limited to 20,000 hours at 200 cd/m² or less)*