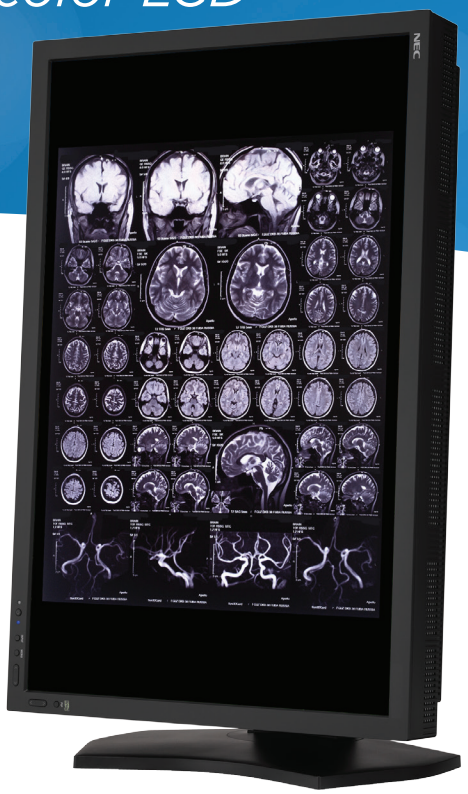
NEC MultiSync® MD302C4

30” widescreen, high-resolution 4MP color LCD display ideal for medical applications



Designed exclusively for the demanding needs of medical imaging and PACS, the 30” NEC MultiSync MD302C4 display embodies the precision, high performance and intelligence you’d expect from a world leader in display technology.

FIVE YEAR LIMITED WARRANTY

NEC MULTISYNC MD SERIES The clear choice in diagnostic displays.

Highlights

- **Widescreen, 4-megapixel** (MP) resolution (2560 x 1600) has the equivalent imaging space of two 2MP displays
- **DICOM calibrated** out of the box to the grayscale display function for luminance
- **Integrated tri-stimulus (three-color) front sensor** receives more light information than standard (brightness only) sensors and is extremely accurate and stable
- **ColorComp™ digital uniformity correction** reduces screen uniformity errors and compensates for differences in color/grayscale and luminance across the entire screen
- **14-bit RGB lookup tables (LUTs) for gamma** provide for more finely detailed, high-definition rendering of color images and crisper display of even the most delicate shadings and color differences
- **10-bit color or grayscale capability** for optimal digital image performance
- **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
- **GammaCompMD QA software**, included with each display, ensures consistent image quality and conformance to the DICOM standard
- **FDA 510(k)** pending

Specifications for MD302C4

MODEL	MD3022C4
DISPLAY	
Viewable Image Size	29.8"
Color Type	Color
MegaPixels	4MP
Native Resolution	2560 x 1600
Pixel Pitch	0.251mm
Pixels Per Inch	101 @ native resolution
Brightness (typical)	180 cd/m² calibrated / 340 cd/m² max.
Contrast Ratio (typical)	1000:1
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Response Time	7ms
Lookup Table	14-bit (3D)
Displayable Colors	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)
Sensors	Backlight, Front
Synchronization Range	
Horizontal (Analog/Digital)	31.5 KHz - 98.7 KHz
Vertical	50 Hz - 85 Hz
CONNECTIVITY	
Input Connectors	DisplayPort, Mini DisplayPort, DVI-D, HDMI
POWER CONSUMPTION	
On (typical)	87W
Power Savings Mode (typical)	1.9W
PHYSICAL SPECIFICATIONS	
Dimensions (WxHxD)	
Net (with stand)	27.1 x 18.4-24.3 x 11.9 in. / 688 x 466.4-616.4 x 301.6 mm
Net (without stand)	27.1 x 17.6 x 3.2+0.2 in. / 688 x 446.8 x 82+4.8 mm
Weight	
Net (with stand)	37.5 lbs. / 17.0 kg
Net (without stand)	23.6 lbs. / 10.7 kg
VESA Hole Configuration	100 x 100 mm, 200 x 100 mm
ENVIRONMENTAL CONDITIONS	
Operating Temperature	41-95°F / 5-35°C
Operating Humidity	20-80%
Operating Altitude	16,404 ft. / 5000m
Storage Temperature	-4-140°F / -20-60°C
Storage Humidity	10-85%
Storage Altitude	40,000 ft. / 12,192m
LIMITED WARRANTY	5 years, including Advanced Overnight Exchange*
ADDITIONAL FEATURES	DICOM GSDF calibrated; Digital uniformity correction; GammaComp MD QA software; Analog/digital CableComp; Pivot; Tilt; Swivel; Height-adjustable stand
SHIPS WITH	Power cord; DVI-D cable; Setup sheet; CD-ROM (GammaComp MD software); Mini DisplayPort and USB cables
OPTIONAL ACCESSORIES	Nvidia Quadro 2000D dual PCIe video card (MDN-Q2000D); AMD V5800 dual DVI PCIe video card (MDA-V5800D); Matrox Xenia Pro triple-head video card (MDMXENPRO)

* Backlight usage limited to 17,000 hours calibrated at 180 cd/m² or less and native white point, 12,000 hours calibrated at 200 cd/m² or less and native white point or 6,500 hours calibrated at 250 cd/m² or less and native white point.

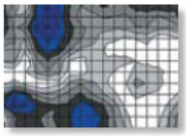
Built-in USB hub with DisplaySync Pro™ controls two computers with only one keyboard and mouse.

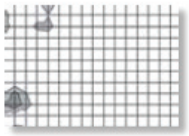
For consistent image quality the built-in front sensor constantly monitors and maintains brightness for optimal DICOM GSDF calibration and for non-assisted conformance, calibration and reporting functions,the sensor is capable of measuring monitor brightness, white-point and contrast response.

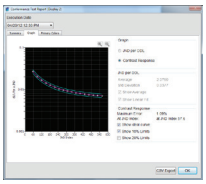
Achieve complete color and brightness uniformity. *By nature, LCD panels contain uniformity errors, which are visible as slightly brighter or darker areas on the screen. To combat this inherent trait, each MD Series display is individually characterized during production and digital uniformity correction 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.*

Without ColorComp

With ColorComp







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. Optionally, GammaCompMD QA Server provides computer networks with centralized control and management of multiple display systems.

Picture in Picture and Picture by Picture functionalities emulate legacy dual display configurations with both screens visible simultaneously.

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