

NEC Medical Display Solutions

Hospital Wide Display Solutions



The ideal visual interfaces for all hospital departments

NEC stands for product quality and design perfection with a reputation for reliability and an enviable North American support infrastructure to back it up. Installing an NEC display means you can trust in our equipment and our company culture. Designed for long term operation, NEC displays and projectors incorporate innovative designs, high quality panels and components and go through demanding quality assurance levels; displays ready for the most demanding mission critical applications, out of the box.



0R

ICU

Cardiology

MEDICAL

MD, MD Clinical

LARGE FORMAT

LARGE FORMAT

P. XUN Series

PRO IECTOR

PA Series

DESKTOP

AS, E, EA,

P, PA Series

SETTING NEW STANDARDS FOR HEALTHCARE DISPLAY **SOLUTIONS**

As the leading manufacturer of innovative medical displays NEC Display Solutions is your partner to deal with the challenges of hospital wide digitalization process as we are able to offer the widest range of display products for any application.

Select from our Medical Displays, Desktop Displays, Large Format Displays or Projectors, in the knowledge that you have one point of support and the highest standards of cross-departmental integration to a common standard. Solutions that your facility needs to excel at what it does best – providing excellent healthcare.



LARGE FORMAT

P, X Series

DESKTOP EA, E, AS Series

THE WIDEST PORTFOLIO OF DISPLAY SOLUTIONS OF ANY **SUPPLIER**

Today NEC boasts a comprehensive range of Desktop Displays, Large Format Displays and Projectors, with a model for almost any application from the largest venues or public places to offices and smaller classrooms. NEC is one of the world's largest IT companies, with regional headquarters in North America, Europe and Japan.

NEC offers a wide-range of healthcare solutions that can help establishments improve performance and diagnostic accuracy and streamline care delivery through sophisticated mobile and point-of-care communications systems.



NEC MultiSync® MD SERIES DIAGNOSTIC DISPLAYS

The MD Series of high end diagnostic displays ensure the highest level of image quality due to excellent luminance uniformity, contrast and full DICOM Part 14 compliance. Backed by years of experience in the research and development of medical LCD displays, NEC offers a high quality range of true 10 bit grayscale diagnostic monitors such as the MD212G3 (3MP) with an exceptional maximum luminance level of 1700 cd/m² and the MD211G5 (5MP) grayscale display, which delivers optimal image quality and performance for digital mammography.

Wide format panels such as those found in the MD302C6 diagnostic and MD242C2, MD302C4, and MD322C8 clinical displays have created new opportunities for medical imaging. Those models support the Split Screen mode, where you can display two screens on a single monitor. The MD302C6 can therefore replace two 3MP displays, saves space and also decreases eye fatigue by looking at only one display.

The latest series of high luminance color diagnostic displays MD210C2, MD211C2 (2MP), MD210C3 and MD211C3 (3MP), incorporating Ultra- Advanced Super Fine TFT technology, offer the highest diagnostic image quality for 3D reconstruction applications, as well as for conventional X-ray images without compromise on luminance, DICOM conformance or contrast.

The NEC MD Series can be easily integrated into NEC's GammaCompMD QA standalone or Network Administration software, performing asset management and lifetime Quality Assurance (DICOM conformance and assistance with Quality Assurance routines – AAPM TG-18 (2005) and (2012), DIN V 6868-57 and IEC62563-1.

MD Series displays are offered including 5 years standard warranty with Advanced Overnight Exchange service. NEC Display Solutions Healthcare warranty always includes LCD panel and backlight, as well as the same service level during the complete warranty period.



Diagnostic Displays

MD210C2 MD211C2 MD211C3 MD211C3

MD211G3 MD211G5

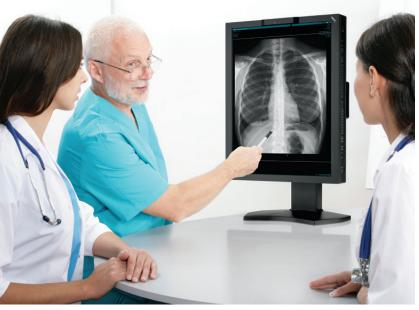
MD302C6



NEC GammaCompMD QA

Quality assurance is increasingly demanded for assessing display image quality with a reliable recording and documentation at varying time intervals. Particularly for those larger installations in a modern multi-disciplinary hospital, featuring numerous diagnostic workstations, keeping track of what has been measured and on which display and when, can become a full-time task.

The NEC GammaCompMD QA Quality Assurance solution meets all challenges and demands heads on by providing either an entry-level QA solution for small practices and clinics or a comprehensive solution for an entire hospital establishment, meeting either AAPM TG-18 (2005) or (2012), DIN V 6868-57 / DIN 6868-157 or IEC 62563-1.



NEC MultiSync® MD SERIES CLINICAL DISPLAYS

The MD Series clinical displays are DICOM Preset color displays which have been designed with both reliable quality and affordability in mind. Unique built-in firmware features (which you will not find in off-the-shelf or system-bundled LCDs) make MD Series clinical displays, which are factory calibrated to the DICOM Grayscale Display Function.

The use of high quality LCD-panel technology combined with the factory DICOM calibration ensures that the MD Series clinical displays exceed the highest reviewing expectations of departments like orthopedics, pneumology or intensive care. The MD Series clinical displays can be easily integrated into NEC's GammaCompMD QA client or server software.

NEC MD Series are offered including 5 years standard warranty with Advanced Overnight Exchange service. NEC Display Solutions' warranty always includes LCD panel and backlight, as well as the same service level during the complete warranty period.

Clinical Displays

MDC212C2

MD242C2

MD302C4

MD322C8

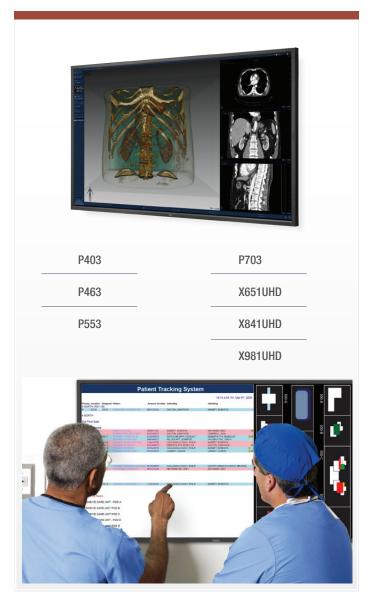


NEC LARGE FORMAT REVIEW DISPLAYS

FULL HD AND ULTRA HD DICOM PRESET

NEC offers a wide portfolio of Large Format Displays with DICOM preset. This enables them to display medical images in staff meeting rooms with the required grayscale levels and exceptional image quality. Full HD Resolution (2MP) displays are available in sizes from 40" to 80", 8MP (4K UHD) displays are available in 84". All are ideal for viewing and discussing multiple X-ray images, MR scans, CT scans, etc., side by side. A built-in expansion slot to support OPS PCs, HDBaseTTM, and WiDi accessories is also available.

The NEC Large Format DICOM Displays exceed clinical requirements by displaying high quality real lifesize images of the part of the patient to be treated. The new 8MP (4K UHD) resolution is improving the picture quality, following the trend of increased screen sizes with the same viewing-distance. That means a full lifesize leg or spine can be displayed without compromising on quality on our X841UHD screen in landscape or portrait format, to the DICOM standard. NEC displays are non-reflective ensuring a clear view of the images, close up, from a distance and in high ambient light conditions.



Administration and DICOM Simulation

DESKTOP E / EA SERIES

These fully featured monitors with outstanding ecological performance and display quality are the ideal choice for balancing performance with environmental and budget considerations. Whether for accessing medical databases, downloading necessary information for patients, keeping medical files organized and updated or the daily record of financial transactions, NEC Desktop Solutions have the perfect solution for every administrative need

DESKTOP P / PA SERIES

The MultiSync® P and PA Series are DICOM capable, professional performance desktop displays. By selecting the DICOM Preset gamma curve in the display On Screen Display (OSD) menu, these multi-purpose displays are an excellent value upgrade to standard office monitors, offering hospital wide DICOM compliant reviewing.

The MultiSync® P and PA Series are ideally suited as modality monitor (touch integration optional), for Hospital / Radiology Information System (HIS / RIS) applications or as (third) navigation display on workstations.





DICOM SIMULATION PROJECTORS

M / PA SERIES

These installation projectors with DICOM Simulation mode offer medical educators and training professionals the ability to display medical images in meeting rooms or larger conference rooms with the required grayscale levels and with exceptional detail and clarity.

With it's brightness of 6200 ANSI Lumen and 1920×1200 High Resolution Image the PA622U offers exceptionally high quality imaging that allows clear analysis of images in a Conference or Training application. NEC PA Series Projectors allow supersized viewing for non-diagnostic purposes.

Displays for Conferencing and Training

NEC MultiSync® LARGE FORMAT DISPLAYS

As a leader in the field, NEC produces a wide range of large format displays that are ideal for conference applications, video-conferencing and group viewing. Our leading X Series and P Series Displays deliver Full HD high quality images backed by 24/7 performance and with a multitude of features that ensure easy integration and upgrade, including an NEC OPS and Interface Extension Slot. Displays with DICOM Simulation are also ideal for use in PACS Demonstration Rooms.





Hospital Information Signage



LARGE FORMAT INFORMATION DISPLAYS

Traditional wayfinding in healthcare has involved static signage. Hospitals are now able to provide wayfinding digitally, allowing more dynamic directional messaging. Digital wayfinding allows for orientation or to highlight exits in an emergency, or simply to entertain and inform to alleviate the inconvenience of long waiting times.

P SERIES

NEC MultiSync P Series are ideal for signage applications around a hospital. Displays can be connected via a network for distribution of hospital information or with an OPS Computer installed they can be a stand-alone source of information. Advanced heat management and exceptional image quality means these displays are the ideal visual solution for patient, wayfinding and alert information.

X AND UN SERIES VIDEOWALL DISPLAYS

Featuring the same standards fo performance and reliability, but specifically tailored for large videowall applications the MultiSync X UN Series can create a high visibility showcase point for any hospital.

NEC offer a wide range of Mounting, Framing, Protective and Expansion solutions for all of our Large Format Displays.

TOUCH ENABLED INFORMATION DISPLAYS

Interactive touch screens are increasingly useful in hospitals enabling a simplified process for the patient, and can be used to reduce care and administration resources. Touch Displays can assist with queue management and direction and allow the patient to customise the information they receive during a visit. Various NEC Large Format Displays are available with Multi-Touch overlays.





For further information please visit: www.necdisplay.com/medical

| | MD Series Diagnostic Displays | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|--|
| | MD210C2 | MD211C2 | MD210C3 | MD211C3 | MD211G3 | MD211G5 | MD302C6 | |
| Panel technology | UA-SFT Color LED Backlight | UA-SFT Color LED Backlight | UA-SFT Color LED Backlight | UA-SFT Color LED Backlight | SA-SFT Grayscale | IPS Grayscale LED Backlight | IPS TFT Color with W-LED backlight | |
| Screen diagonal [inch/cm] | 21.3 / 54.0 | 21.3 / 54.0 | 21.3 / 54.0 | 21.3 / 54.0 | 21.3 / 54.0 | 21.3 / 54.0 | 30 / 76.2 | |
| Native resolution [Megapixel] | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 5.0 | 6.7 | |
| Resolution | 1200 x 1600 Portrait | 1200 x 1600 Portrait | 1536 x 2048 Portrait | 1536 x 2048 Portrait | 1536 x 2048 Portrait | 2048 x 2560 Portrait | 3280 x 2048 Landscape | |
| Contrast ratio (typ.) | 1400:1 | 1400:1 | 1400:1 | 1400:1 | 900:1 | 1200:1 | 1000:1 | |
| Viewing angle (H / V @ CR > 10:1) | 176° / 176° | 176° / 176° | 176° / 176° | 176° / 176° | 176°/ 176° | 176°/ 176° at 50:1 CR | 170° / 170° | |
| Luminance (Max) | 760 cd/m ² | 900 cd/m ² | 750 cd/m ² | 800 cd/m ² | 1450 cd/m ² | 1200 cd/m ² | 800cd/m ² | |
| Grayscale reproduction [Bit-Depth] | 8-bit | 10-bit | 8-bit | 10-bit | 10-bit | 10-bit | 10-bit | |
| Programmable gamma correction | 14-bit | 14-bit | 14-bit | 14-bit | 15.5-bit | 13.5-bit | 16-bit | |
| Factory pre-set | 400 cd/m ² DICOM GSDF | 500 cd/m ² DICOM GSDF | 400cd/m ² DICOM GSDF | |
| Signal inputs | 1x DVI-D, 1x DisplayPort | 2x DVI-D, 2x DisplayPort | |
| Power consumption (max.) [W] | 80 | 80 | 85 | 85 | 105 | 80 | 114 | |
| Dimensions (W x H x D) [mm] | 374 x 491 x 236 (Portrait) | 374 x 491x 236 (Portrait) | 374 x 491x 236 (Portrait) | 374 x 491x 236 (Portrait) | 361x 483 x 227 (Portrait) | 390 x 488 x 228 (Portrait) | 695.6 x 486.5 x 301.6 | |
| Warranty | 5 years standard with Advanced Overnight Exchange | |

| | | MD Series Clinical Displays | | | | |
|------------------------------------|---|---|---|---|--|--|
| | MDC212C2 | MD242C2 | MD302C4 | MD322C8 | | |
| Panel technology | IPS Color LED Backlight | IPS Color LED Backlight | AH-IPS Color LED backlight | IPS Type TFT Color with W-LED backlight | | |
| Screen diagonal [inch/cm] | 21.3 / 54.0 | 24.1 / 61.1 | 29.8 / 75.6 | 31.5 / 80.1 | | |
| Native resolution [Megapixel] | 2.0 | 2.3 | 4.0 | 8.3 | | |
| Resolution | 1600 x 1200 Landscape | 1920x 1200 Landscape | 2560 x 1600 Landscape | 3840 x 2160 Landscape | | |
| Contrast ratio (typ.) | 1500:1 | 1000:1 | 1000:1 | 1000:1 | | |
| Viewing angle (H / V @ CR > 10:1) | 178° / 178° | 178° / 178° | 178° / 178° | 176° / 176° | | |
| Luminance (Max) | 350 cd/m ² | 350 cd/m ² | 350 cd/m ² | 350cd/m ² | | |
| Grayscale reproduction [Bit-Depth] | 10-bit | 10-bit | 10-bit | 10-bit | | |
| Programmable gamma correction | 14-bit | 14-bit | 14-bit | 14-bit | | |
| Factory pre-set | 180cd/m ² DICOM GSDF | 180cd/m ² DICOM GSDF | 180cd/m ² DICOM GSDF | 200cd/m ² DICOM GSDF | | |
| Signal inputs | 1x DVI-D, 1x DisplayPort, 1x VGA | 1x DVI-D, 1x DisplayPort, 1x HDMI, 1x VGA | 1x DVI-D,1x DisplayPort, 1x Mini-DisplayPort, 1x HDMI | 2x DVI-D, 2x DisplayPort, 4x HDMI | | |
| Power consumption (max.) [W] | 54 | 30 | 87 | 95 | | |
| Dimensions (W x H x D) [mm] | 466 x 374 x 228 (Landscape) | 557 x 378 x 228 (Landscape) | 688 x 466 - 616 x 302 (Landscape) | 744.8 x 468.4 x 301.6 | | |
| Warranty | 5 years standard with Advanced Overnight Exchange | 5 years standard with Advanced Overnight Exchange | 5 years standard with Advanced Overnight Exchange | 5 years standard with Advanced Overnight Exchange | | |

NEC Medical Display Solutions

Hospital Wide Display Solutions

NEC Display Solutions Europe GmbH - HQ

Landshuter Allee 12-14 80637 München, Germany Phone: +49 (0) 89 99 699-0 Fax: +49 (0) 89 99 699-500 infomail@nec-displays.com www.nec-display-solutions.com

NEC Display Solutions Europe GmbH Representative Office Austria

Mooslackengasse 17, 1190 Wien, Austria Phone: +43(1)23060 3685 Fax: +43(1)23060 3686 infomail@nec-displays.com www.nec-display-solutions.at

NEC Display Solutions Europe GmbH Representative Office Czech and Slovak

Tábor 44 A 602 00, Brno Czech Republic Phone: +420 733 396 861 www.nec-display-solutions.cz

NEC Scandinavia AB Display Solutions Division Finland

Ahventie 4, FIN-02170 ESP00 Finland Phone: +358 9 348 70204 www.nec-display-solutions.fi

NEC France S.A.S Display Solutions Division

29 rue des Hautes Pâtures 92737 Nanterre Cedex, France Phone: +33 (0) 1 46 49 46 49 Fax: +33 (0) 1 47 69 92 86 www.nec-display-solutions.fr

NEC Italia Spa - Display Solutions Division

Viale Enrico Forlanini 23 20134 – Milano, Italy Phone: +39.02.48415.1 Fax: +39.02.48414.409 info.necdisplay-it@emea.nec.com www.nec-display-solutions.it

NEC Display Solutions Middle East & Africa

Office 0205, 2nd Floor JAFZA View 18, Jebel Ali Dubai, U.A.E. PO Box 262314 Phone: +971 4 88 49 452 Fax: +971 4 88 49 453 info@nec-displays.ae www.nec-display-solutions.com

NEC Display Solutions of North America

500 park Boulevard, Suite 1100 Itasca, IL 60143 Phone: 866 632 6673 Fax: 630.467.3010 http://www.necdisplay.com/

NEC Display Solutions Europe GmbH Representative Office Poland

ul. Bociana 22A 31-231 Kraków, Poland Phone: +48 (0) 12 614 53-53 Fax: +48 (0) 12 614 53-54 www.nec-display-solutions.pl

NEC Display Solutions Europe GmbH Representative Office Russia

Vavilov Str. 47a 117312 Moscow, Russia Phone/Fax: +7 495 989 80 51 info@nec-displays-ru.com www.nec-display-solutions.ru

NEC Display Solutions South Africa

P. O. Box 7243, Westwood, 1477 Johannesburg, South Africa Phone: +27 (0) 11 918 6449 Fax: +27 (0) 11 894 2973 www.nec-display-solutions.co.za

NEC Iberica - Display Solutions Division

C/ Anabel Segura, 7 – Planta 2a 28108 Alcobendas (Madrid) Spain Phone: +34 (0) 91 203 29 00

Phone: +34 (0) 91 203 29 00 Fax: +34 (0) 91 650 11 00 www.nec-display-solutions.es

NEC Scandinavia AB Display Solutions Division Sweden

Kronborgsgränd 1, S-16487 Kista Sweden

Phone: +46 (0) 10 214 86 00 Fax: +46 (0) 8 635 93 50 www.nec-display-solutions.se

NEC UK Ltd. - Display Solutions Division

Athene Building, Odyssey Business Park West End Road, South Ruislip, Middlesex HA4 6QE

Phone: +44 (0) 20 8836 2000 Fax: +44 (0) 20 8836 2001 www.nec-display-solutions.co.uk

MultiSync is a registered trademark, and ColorComp and GammaCompMD QA are trademarks of NEC Display Solutions. All other brand or product names are trademarks or registered trademarks of their respective holders. Product specifications subject to change.