

MEDICAL PRODUCT OVERVIEW

DICOM DISPLAY SOLUTIONS



Hospital Wide Display Solutions Desktop, Projector and Large Format

HEALTHCARE

NEC Display Solutions

Hospital Wide Display Solutions

Digitalisation has long reached the healthcare sector, with productivity gains and the recent move towards a filmless environment (Picture Archiving and Communication Systems). Current challenging and innovative medical techniques rely on access to accurate clinical information and medical images at all times.

As the leading Manufacturer of innovative medical displays, NEC Display Solutions is your partner to deal with the challenges of hospital wide digitalisation processes. NEC Display Solutions is able to offer the widest range of displaying 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 (DICOM Part 14).

NEC is the only leading medical display brand which is a manufacturer of LCD modules. Our Display Solutions are designed in Japan and built to the highest production standards and are the trusted display solution throughout the facilities in hospitals all over the World. NEC displays give you the confidence that your diagnosis is based upon clear, reliable, and verifiable images.

MD Series

DIAGNOSTIC DISPLAYS

The NEC MD Series of high end diagnostic displays ensure the highest level of image quality due to the very high brightness, 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 greyscale monitors such as the MD213MG (3MP) with an exceptional maximum brightness level of 1,450 cd/m² and the MD215MG (5MP) greyscale display, which guarantees optimal image quality and performance for digital mammography.

The latest series of high brightness colour diagnostic displays MD212MC (2MP) and MD213MC (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 brightness, DICOM conformance or contrast.

MD SERIES DIAGNOSTIC DISPLAYS

- MD213MG** (21.3" 3MP DICOM Diagnostic Greyscale Display)
MD215MG (21.3" 5MP DICOM Diagnostic Greyscale Display)
MD212MC (21.3" 2MP DICOM Diagnostic High Brightness Colour Display)
MD213MC (21.3" 3MP DICOM Diagnostic High Brightness Colour Display)



MD SERIES
Screen Size [inch/cm] / Aspect Ratio
Integrated Front Sensor
Optimum Resolution
Panel Technology
Active screen area [mm]
Pixel Pitch [mm] / Viewing Angle (h/v)
Luminance (max.) [cd/m ²] / calibrated [cd/m ²]
Contrast Ratio (typ.)
Grayscale Reproduction
Programmable Gamma Correction
Factory Calibration / Pre-set
X-Ray Film Simulation
Number of Inputs
Digital Interface Modes
USB Input
Height Adjust [mm] / Tilt [°] / Swivel [°]
VESA Mounting [mm]
Dimensions W x H x D [mm] incl. stand
Weight [kg] incl. stand
Power Requirements On Mode [W]/Power Save [W]
Bezel Width [mm]
Quality Assurance Level

MD213MG	MD215MG	MD212MC	MD213MC
21.3 / 54.0 / 4:3	21.3 / 54.0 / 5:4	21.3 / 54 / 4:3	21.3 / 54.0 / 4:3
Yes	Yes	Yes	Yes
3 Megapixel	5 Megapixel	2 Megapixel	3 Megapixel
UA-SuperFine Grayscale TFT	IPS TFT	UA-SFT TFT	UA-SFT TFT
32.4 x 43.2	32.4 x 43.2	32.4 x 43.2	32.4 x 43.2
0.2115 / 170°/170° at 10:1 CR	0.165 / 170°/170° at 20:1 CR	0.270 / 176°/176° at 10:1 CR	0.2115 / 176°/ 176° at 10:1 CR
1450 / 400 white luminance	1100 / 400 white luminance	850 / 400 white luminance	800 / 400 white luminance
900:1	850:1	1050:1	750:1
Max. 1024 (10-bit) of 12241 (13.5 Bit)	Max. 1024 (10-Bit) of 3826 (11.9-Bit)	Max. 256 (8-Bit)	Max. 256 (8-Bit)
12-Bit (4096 grey tones)	10-bit (1024 grey tones)	12-Bit (4096 grey tones)	12-Bit (4096 grey tones)
Gamma correction according to DICOM GSDF at 400	Gamma correction according to DICOM GSDF at 400	Gamma correction according to DICOM GSDF at 400	Gamma correction according to DICOM GSDF at 400
Clear Base	Clear Base	Clear Base	Clear Base
1 x DVI-D, 1 x DVI-I	1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x DVI-I, 1 x DVI-D
Dual Link, Packed Pixel	Dual Link, Packed Pixel	Single Link	Dual Link
For ext. calibrator (Service Mode)	Yes	For External Calibrator (Service Mode)	For External Calibrator (Service Mode)
150 / -5° to +30° / ±170°	120 / -5° to +30° / ±170°	150 / -5° to +30° / ±170°	150 / -5° to +30° / ±170°
100 x 100	100 x 100	100 x 100	100 x 100
467.8 x 434.3 - 584.3 x 306	390 x 488 - 584 x 228	467.8 x 434.3 - 584.3 x 306	464.8 x 424.8 - 574.8 x 247.3 (Landscape)
10.7	11.1	10.7	10.9
100 / <2	90 / 10	100 / <2	130 / <2
16	28	16	16
AAPM-TG18 Primary	AAPM-TG18 Primary	AAPM-TG18 Primary	AAPM-TG18 Primary
DIN V 6868-57 Category A	DIN V 6868-57 Cat. A Mammo/PAS 1054	DIN V 6868-57 Category A	DIN V 6868-57 Category A

*The CE Declaration of all NEC MD Series models is in compliance with the European Directive 93/42/EC (Medical Device Directive). MD205MG passed the German PAS1054 acceptance test for Mammography and CO-MAM test for Mammography screening.

All MD grayscale and color display systems comply with the DICOM Grayscale Standard Display Function (GSDF). NEC Display Solutions GmbH guarantees MD display systems to fulfill the DIN V6868-57 Category A / A-Mammo / B requirements (depending on model) for acceptance tests only in conjunction with NEC supplied display controllers.

MD SERIES CONTINUED

NEC's backlight stabilisation technology X-Light3 (with front sensor) automatically maintains the stability of the white point of the backlight for the usable life of MD colour displays, counteracting the natural ageing of the product. Individual white point calibration with GammaCompMD QA software ensures, that all displays within the hospital show a consistent image, imperative to consistent accurate diagnosis, especially when comparing images in a dual or multiple display configurations and between different workstations.

The NEC MD Series can be easily integrated into NEC's GammaCompMD QA standalone (client) or Network Administration software, performing asset management and lifetime Quality Assurance (DICOM conformance and assistance with Quality Assurance routines – AAPM TG-18, DIN V 6868-57). Automated DICOM conformance checks and calibrations using the X-Light3 front sensor result in worry-free DICOM compliance.

NEC MD Series are offered including 3 years standard warranty. A 5 years or 30,000 usage hours, whichever comes first, warranty extension is offered as an option. NEC Display Solutions Healthcare warranty always includes LCD panel and backlight, as well as same service level during the complete warranty period (no limited warranty statements).

MD SERIES DIAGNOSTIC DISPLAYS

in compliance with DIN V 6868-57 Cat. B

MD301C4

(30"W 4MP DICOM Diagnostic Colour Display)



MD SERIES

Screen Size [inch/cm] / Aspect Ratio
Native Resolution
Integrated Front Sensor
Panel Technology
Pixel Pitch [mm] / Viewing Angle (h/v)
Luminance (max.) [cd/m ²] / calibrated [cd/m ²]
Contrast Ratio (typ.)
Colour Reproduction
Programmable Gamma Correction
Pre-set
Number of Inputs
Picture by Picture
Height adjustable [mm]
VESA Mounting [mm]
Ergonomics
Dimensions W x H x D [mm] incl. stand
Weight [kg] incl. stand
Power Requirements on Mode [W]/Power Save [W]
Bezel Width [mm]
Options
Quality Assurance Level

MD301C4

29.8 / 75.6 / 16:10
4 Megapixel (2560x1600)
No
P-IPS
0.251 / 178°/178°
350 / 200 white luminance
1000:1
Max. 1024 (10-Bit)
14-Bit
DICOM Gamma correction active / Digital Uniformity Control active
2 x DVI-D, 2 x DisplayPort
Yes (2 x 1280x1600)
150
100 x 100; 200 x 100
TCO'03
688.0 x 466.0 x 302.0
18.8
155 / <2
22
Calibration Instrument MDSVSENSOR or MDSVSENSOR PRO
AAPM-TG18 Primary
DIN V 6868-57 Category B



MDview 213

MDview Series

CLINICAL REVIEW DISPLAYS

The NEC MDview Series are DICOM Preset colour 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 MDview displays, which can be calibrated to the DICOM Grayscale Display Function using NEC's GammaCompMD QA software, ideal for all hospital-wide PACS referral/reviewing.

The use of high quality LCD-panel technology combined with additional dead-pixel screening assure that NEC's MDview Series exceeds the highest reviewing expectations of departments like orthopedics, pneumology or intensive care. The NEC MDview Series can be easily integrated into NEC's GammaCompMD QA standalone (client) or Network Administration software.

NEC MDview Series is offered including 3 years standard warranty. A 5 years or 30,000 usage hours, whichever comes first, warranty extension is offered as an option. NEC Display Solutions Healthcare warranty always includes LCD panel and backlight, as well as same service level during the complete warranty period (no limited warranty statements).



MDVIEW SERIES CLINICAL REVIEW DISPLAYS

MDVIEW CLINICAL REVIEW DISPLAYS

MDview193	(19" 1.3MP Colour Review Display)
MDview202	(20" 2MP Colour Review Display)
MDview213	(21" 2MP Colour Review Display)
MDview231	(23"W 2.1MP Colour Review Display)
MDview242-2	(24"W 2.3MP Colour Review Display)
MDview271	(27"W 3.7MP Colour Review Display)



MDVIEW SERIES

Screen Size [inch/cm] / Aspect Ratio
Native Resolution
Panel Technology / Response Time (typ.) [ms]
Pixel Pitch [mm] / Viewing Angle (h/v)
Luminance (max.) [cd/m ²] / calibrated [cd/m ²]
Contrast Ratio (typ.)
Displayable Colours
Greyscale Reproduction
Programmable Gamma Correction
Factory Pre-set
Number of Inputs
Picture by Picture
Height adjustable [mm]
VESA Mounting [mm]
Ergonomics
Dimensions W x H x D [mm] incl. stand
Weight [kg] incl. stand
Power Requirements on Mode [W]/Power Save [W]
Bezel Width [mm]
Options

MDview 193	MDview 202	MDview 213	MDview 231	MDview 242-2	MDview 271
19.0 / 48.2 / 5:4	20.1 / 51.0 / 4:3	21.3 / 54.0 / 4:3	23.0 / 58.4 / 16:9	24.1 / 61.1 / 16:10	27.0 / 68.6 / 16:9
1.3 Megapixel (1280x1024)	2 Megapixel (1600x1200)	2 Megapixel (1600x1200)	2.1 Megapixel (1920x1080)	2.3 Megapixel (1920x1200)	3.7 Megapixel (2560x1440)
PVA TFT / 8 (grey-to-grey)	S-IPS / 8 (grey-to-grey)	S-PVA glass / 8 (grey-to-grey)	IPS / 8 (grey-to-grey)	IPS / 8 (grey-to-grey)	P-IPS / 6 (grey-to-grey)
0.294 / 178°/178°	0.255 / 178°/178°	0.270 / 178°/178°	0.265 / 178°/178°	0.270 / 178°/178°	0.233 / 178°/178°
250 / 140	280 / 140	300 / 140	270 / 140	320 / 170	300 / 170
1500:1	700:1	1000:1	1000:1	1000:1	1000:1
16.77 million	16,77 million	16,77 million	16,77 million	16,77 million	1,07 billion
8-Bit (256 grey tones)	8-Bit (256 grey tones)	8-Bit (256 grey tones)	8-Bit (256 grey tones)	8-Bit (256 grey tones)	10-Bit (1024 grey tones)
12-Bit Look-up table per channel (4096 grey tones)		14-Bit Look-up table		12-Bit Look-up table	
DICOM Gamma correction active / Digital Uniformity Control active					
1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 2 x DVI-D, 1 x DisplayPort	1 x VGA, 1 x DVI-I, 1 x DVI-D	2 x DVI-D, 1 x DisplayPort
No	No	No	Yes	No	Yes
150	150	150	150	150	150
100 x 100	100 x 100	100 x 100	100 x 100	100 x 100; 200 x 100	100 x 100; 200 x 100
TCO'03	TCO'03	TCO'03	TCO 5.0	TCO'03	TCO'03
402.3 x 411 – 561 x 248	439.2 x 415.5 – 565.5 x 247.3	465 x 425 - 575 x 248	543.6 x 338.4 - 438 x 228	554.2 x 432.4 x 306	643.6 x 397.6 x 250
9.0	9.7	10.7	10.2	11.8	15.0
39 / <1	50 / <1	60 / <1	46 / 1	83 / <1	95 / 1
12	14.6	14.9	16.2	17.0	21.9
Options Calibration Instrument (MDSVSENSOR + MDSVSENSOR PRO)					

PA and LCD 90 Series

DICOM CAPABLE COLOUR DISPLAYS

The MultiSync® LCD 90 Series 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® LCD 90 Series 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.

PA SERIES NAVIGATION AND INFORMATION DISPLAYS

Navigation and Information Displays

MultiSync® PA231W (23"W 2.1MP DICOM Capable Colour Display)

MultiSync® PA241W (24"W 2.3MP DICOM Capable Colour Display)

MultiSync® PA271W (27"W 3.68MP DICOM Capable Colour Display)

MultiSync® PA301W (30"W 4.1MP DICOM Capable Colour Display)



PA SERIES	PA231W	PA241W	PA271W	PA301W
Screen Size [inch/cm] / Aspect Ratio	23.0 / 58.4 / 16:9	24.1 / 61.1 / 16:10	27.0 / 68.6 / 16:9	29.8 / 75.7 / 16:10
Optimum Resolution	1920 x 1080 at 60 Hz	1920 x 1200 at 60 Hz	2560 x 1440 at 60 Hz	2560 x 1600 at 60 Hz
Panel Technology / Response Time (typ.) [ms]	IPS / 8	P-IPS / 8	P-IPS / 6	P-IPS / 6
Pixel Pitch [mm] / Viewing Angle (h/v)	0.265 / 178°/178° (10:1)	0.270 / 178°/178° (10:1)	0.233 / 178°/178° (10:1)	0.251 / 178°/178° (10:1)
Brightness [cd/m²] / Contrast Ratio (typ.)	270 / 1000:1	360 / 1000:1	300 / 1000:1	350 / 1000:1
Horiz. Frequency [kHz] / Vertical Frequency [Hz]	31.5 - 33 and 118.4 / 50 - 85	31.5 - 91.1 and 118.4 / 50 - 85	31.5 - 91.1 and 118.4 / 50 - 85	31.5 - 91.1 and 118.4 / 50 - 85
Number of Inputs	1 x VGA, 2 x DVI-D; DisplayPort	1 x VGA, 2 x DVI-D; DisplayPort	2 x DVI-D; DisplayPort	2 x DVI-D; 2 x DisplayPort
Picture by Picture	Yes	Yes	Yes	Yes
Height adjustable [mm]	150	150	150	150
VESA Mounting [mm]	100 x 100 (4 pts)	200 x 100 (5 pts); 100 x 100 (4 pts)	200 x 100 (5 pts); 100 x 100 (4 pts)	200 x 100 (5 pts); 100 x 100 (4 pts)
Audio Functions	Optional (2 + 2 W)	Optional (2 + 2 W)	Optional (2 + 2 W)	None
Ergonomics	TCO 5.0	TCO 5.0	TCO'03	TCO'03
Dimensions W x H x D [mm] incl. stand	543.6 x 338 - 488 x 228	556.8 x 378 - 528 x 227.6	643.6 x 397.6 x 250 (Landscape)	688 x 564 x 302 (Landscape)
Weight [kg] incl. stand	10.2	10.6	15.0	18.8
Power Requirements on Mode [W]/Power Save [W]	46 / 1	95 / 1	117 / 1	155 / <2
Bezel Width [mm]	16.2	18.2	21.9	22.3

90 SERIES NAVIGATION AND INFORMATION DISPLAYS

MultiSync® LCD1990SX	(19" 1.3MP DICOM Capable Colour Display)
MultiSync® LCD2090UXi	(20" 2MP DICOM Capable Colour Display)
MultiSync® LCD2190UXp	(21" 2MP DICOM Capable Colour Display)
MultiSync® LCD2490UXi2	(24"W 2.3MP DICOM Capable Colour Display)



90 SERIES	LCD1990SX	LCD2090UXi	LCD2190UXp	LCD2490WUXi ²
Screen Size [inch/cm] / Aspect Ratio	19.0 / 48.2 / 5:4	20.1 / 51.0 / 4:3	21.3 / 54.0 / 4:3	24.1 / 61.1 / 16:10
Optimum Resolution	1280 x 1024 at 60 Hz	1600 x 1200 at 60 Hz	1600 x 1200 at 60 Hz	1920 x 1200 at 60 Hz
Panel Technology / Response Time (typ.) [ms]	PVA / 8	S-IPS A-TW Pol. / 8	S-PVA / 8	IPS / 8
Pixel Pitch [mm] / Viewing Angle (h/v)	0.294/ 178°/178° (10:1)	0.255 / 178°/178°	0.270 / 178°/178°	0.270 / 178°/178°
Brightness [cd/m ²] / Contrast Ratio (typ.)	250 / 1500:1	280 / 700:1	300 / 1000:1	320 / 1000:1
Horiz. Frequency [kHz] / Vertical Frequency [Hz]	31.5 - 81.1 / 50 - 85	31.5 - 91.1 / 50 - 85	31.5 - 91.1 / 50 - 85	31.5 - 93.8 and 118.4 / 50 - 85
Number of Inputs	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D	1 x VGA, 1 x DVI-I, 1 x DVI-D
ambix ³ ™ Technology	Yes	Yes	Yes	Yes
Height adjustable [mm]	150	150	150	150
VESA Mounting [mm]	100 x 100	100 x 100	100 x 100	100 x 100; 200 x 100
Audio Functions	Optional (2 x 2 W)	Optional (2 + 2 W)	Optional (2 + 2 W)	Optional (2 + 2 W)
Ergonomics	TCO'03	TCO'03	TCO'03	TCO'03
Dimensions W x H x D [mm] incl. stand	402.3 x 410.7 - 560.7 x 247.3	439.2 x 415.5 - 565.5 x 247.3	464.8 x 424.8 - 574.8 x 247.3	554.2 x 432.4 - 582.4 x 306
Weight [kg] incl. stand	8.4	9.7	10.7	12.0
Power Requirements on Mode [W]/Power Save [W]	23 / 1	36 / 1	43 / 1	38 / 1
Bezel Width [mm]	12	14.6	15.7	17.9

Large Screen

FULL HD DICOM PRESET VIEWING DISPLAYS

The NEC Large Format Displays with DICOM Preset mode offer medical professionals the ability to display medical images in staff meeting rooms with the required grayscale levels and exceptional image quality. The large format from 40” to 70” makes them ideal for viewing and discussing multiple X-ray images, MR scans, CT scans, etc. – side by side. A built-in slot PC is also available.

NEC Large Format Displays are the ideal replacement for traditional film light boxes throughout the hospital. In collaboration with solution partners, Large Format displays are integrated into high-end hygienic and medical grade (EN60601-1) displays and PC systems for Operation Rooms. NEC’s display solutions are easy and quick to install, reducing OR downtime during installation, and improve the efficiency in the operating theatres.

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. Display full life size leg and spine images without compromising on quality on our Full HD screens 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.

HOSPITAL INFORMATION AND SIGNAGE

All hospital information for patients as well as visitors can be made easily available via the NEC Digital Signage Solutions. NEC public displays (up to 70”) allow you to inform and communicate information crystal clear in 1080p high definition resolution.



FULL HD DICOM CAPABLE VIEWING DISPLAYS

Multeos® M401	(40" Full HD DICOM Capable Display)
Multeos® M461	(46" Full HD DICOM Capable Display)
P461	(46" Full HD DICOM Capable Display)
P551	(55" Full HD DICOM Capable Display)
P701	(70" Full HD DICOM Capable Display)



LARGE FORMAT HOSPITAL INFORMATION AND SIGNAGE

DISPLAY SERIES

MultiSync® P Series

Thin Bezel, Public Displays with Integration Slot, 24/7

NEC Multeos®

Full HD Public Displays with Integration Slot

OPTION BOARDS

SBC Integration Computer

for Multeos and P Series

CAT5 Integration Card

for Multeos and P Series

Media Player

for Multeos and P Series



P SERIES AND MULTEOS

Screen Size [inch/cm] / Aspect Ratio
Optimum Resolution
Native Resolution
Panel Technology / Response Time (typ.) [ms]
Viewing Angle (h/v)
Brightness [cd/m ²] / Contrast Ratio (typ.)
Video Input, analogue
Video Input, digital
Video Output, analogue
Audio Input
Audio Output
TV Standards
Ambient Light Sensor
Loudspeakers
VESA Mounting [mm]
Overheating Protection
Weight [kg] without stand
Power Requirements on Mode [W]/Power Management
Remote Control
Option Slot

P461	P551	P701	Multeos M401	Multeos M461
46 / 117.0 / 16:9	55.0 / 139.0 / 16:9	70 / 178.0 / 16:9	40 / 102.0 / 16:9	46 / 117.0 / 16:9
1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz
1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz	1920 x 1080 at 60 Hz
S-PVA / 8 (grey-to-grey)	S-PVA / 8 (grey-to-grey)	PVA / 8 (grey-to-grey)	PVA / 8 (grey-to-grey)	PVA / 8 (grey-to-grey)
178°/178°	178°/178°	178°/178°	178°/178°	178°/178°
up to 700 / 4000:1	700 / 3000:1	600 / 2000:1	450 / 3000:1	450 / 3000:1
5 BNC, Component, Composite (via BNC and Cinch), S-Video, D-Sub 15				
DVI-D with HDCP, HDMI, DisplayPort	DVI-D with HDCP, HDMI, DisplayPort	DVI-D with HDCP, HDMI, DisplayPort	DVI-D with HDCP, HDMI, DisplayPort	DVI-D with HDCP, HDMI, DisplayPort
5 BNC, Composite (via BNC)	5 BNC; Composite (via BNC)	5 BNC; Composite (via BNC)	5 BNC; Composite (via BNC)	5 BNC; Composite (via BNC)
2 x Cinch, 1 x 3,5 mm Head-jack	2 x Cinch, 1 x 3,5 mm Head-jack	2 x Cinch, 1 x 3,5 mm Head-jack	2 x Cinch, 1 x 3,5 mm Head-jack	2 x Cinch, 1 x 3,5 mm Head-jack
1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch
NTSC; PAL; SECAM	NTSC; PAL; SECAM	NTSC; PAL; SECAM	NTSC; PAL; SECAM	NTSC; PAL; SECAM
Yes	Yes	Yes	Yes	Yes
Optional (15 + 15 W)	Optional (15 + 15 W)	Optional (15 + 15 W)	Optional (15 + 15 W)	Optional (15 + 15 W)
300 x 300; M6; 4 holes	400 x 400; M6; 4 holes	400 x 400; M8; 4 holes	300 x 300; M6; 4 holes	300 x 300; M6; 4 holes
Yes	Yes	Yes	Yes	Yes
36.1	40.0	96	28.5	35.2
210 / VESA DPMS	280 / VESA DPMS	600 / VESA DPMS	170 / VESA DPMS	200 / VESA DPMS
RS232 in/out, remote control IR, LAN	RS232 in/out, remote control IR, LAN	RS232 in/out, remote control IR, LAN	RS232 in/out, remote control IR	RS232 in/out, remote control IR
Yes	Yes	Yes	Yes	Yes

Projectors

DICOM SIMULATION PROJECTORS

The NEC PA Series 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.

NEC is leading the market with these first WINDOWS 7 Vista compatible projectors incorporating Plug & Play W-Lan connection and cinematic video quality powered by HQVTM (Hollywood Quality Video). The NEC PA500X installation projector features a native XGA resolution (1024 x 768), while the NEC PA500U installation projector has a native WUXGA resolution (1920 x 1200). The PA Series installation projectors should not be used for medical diagnosis purposes.

DICOM SIMULATION PROJECTORS

- PA500X** (5.000 ANSI Lumen XGA DICOM Simulation Installation Projector)
- PA600X** (6.000 ANSI Lumen XGA DICOM Simulation Installation Projector)
- PA550W** (5.500 ANSI Lumen WXGA DICOM Simulation Installation Projector)
- PA500U** (5.000 ANSI Lumen WUXGA DICOM Simulation Installation Projector)



PA SERIES (DICOM)
Display
Lamp
Brightness [ANSI Lumens]
Lamp Life [hrs]
Lens
Projection Factor
Contrast Ratio
Optimum Resolution
Maximum Resolution
Fan Noise [dB] (A)
Keystone Correction
Power Consumption [W]
Dimensions (W x H x D) [mm]
Weight [kg]

PA500X	PA600X	PA550W	PA500U
3 x 2 cm (0.79") p-Si/MLA LCD Panel (AR: 4:3)	3 x 2 cm (0.79") p-Si/MLA LCD Panel (AR: 4:3)	3 x 2 cm (0.8") p-Si/MLA LCD Panel (AR: 16:10)	3 x 1.93 cm (0.76") p-Si/MLA LCD Panel (AR: 16:10)
330 W (264 Eco Mode)	330 W (264 Eco Mode)	330 W (264 Eco Mode)	330 W (264 Eco Mode)
5000 (ca. 80% Eco Mode)	6000 (ca. 88% Eco Mode)	5500 (ca. 80% Eco Mode)	5000 (ca. 80% Eco Mode)
4000 (3000 Eco Mode)	4000 (3000 Eco Mode)	4000 (3000 Eco Mode)	4000 (3000 Eco Mode)
Standard Lens Option	Standard Lens Option	Standard Lens Option	Standard Lens Option
1.5 - 3.0:1	1.5 - 3.0:1	1.5 - 3.0:1	1.5 - 3.0:1
2000:1	2000:1	2000:1	2000:1
1024 x 768 (XGA)	1024 x 768 (XGA)	1280 x 800 (WXGA)	1920 x 1200 (WUXGA)
1920x1200 (WUXGA)	1920 x 1200 (WUXGA)		
<31 Eco Mode	<31 Eco Mode	<31 Eco Mode	<32 Eco Mode
Yes, H= ±40°, V= ±30°	Yes, H= ±40°, V= ±30°	Yes, H= ±40°, V= ±30°	Yes, H= ±35°, V= ±30°
443 max.	443 max.	443 max.	455 max.
499 x 144 x 359	499 x 144 x 359	499 x 144 x 359	499 x 144 x 359
7.7	7.7	7.7	7.8

NEC Display Solutions

MEDICAL PRODUCT OVERVIEW

NEC REGIONAL OFFICES



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