

# NEC MultiSync® PA Series

*Widescreen professional LCD displays ideal for graphics applications*

Designed with key features for the graphics and photography professional, NEC MultiSync PA Series displays are smart investments for your desktop, while ensuring accurate, consistent and repeatable color performance.

- Best-in-class 10-bit active matrix IPS LCD technology with wide viewing angle and wide color gamut provides optimum performance for displaying color images
- XtraView+™ technology provides for the widest viewing angles available (up to 178°) with minimal off-angle color shift
- Internal 14-bit programmable 3D lookup tables (LUTs) allow the display of 1.07 billion colors out of a palette of 4.3 trillion\* for lossless color and smooth images and hardware calibration
- Free MultiProfiler software provides complete control over the five picture modes, including loading any ICC profile directly into the monitor for optimal color space matching
- Built-in USB hub with DisplaySync Pro™ controls two computers with only one keyboard and mouse
- AmbiBright™ ambient light sensor automatically adjusts the display's brightness based on lighting conditions
- Four-way ergonomic stand boasts pivot, swivel, tilt and height-adjustment up to 150mm to maximize your viewing comfort

\* with 10-bit DisplayPort input. 16.7 million colors out of 65 billion with DVI-D input.



PA301W



PA241W



PA271W

Model	Size	Panel Technology	AdobeRGB Coverage
PA241W	24"	p-IPS	98.1%
PA271W	27"	p-IPS	97.1%
PA301W	30"	p-IPS	98.2%



NEC Display Solutions  
**MultiProfiler**



MODEL	PA241W	PA271W	PA301W
DISPLAY			
Panel Technology	IPS		
Viewable Image Size	24.1"	27"	29.8"
Aspect Ratio	16:9		
Native Resolution	1920 x 1200	2660 x 1440	2560 x 1600
Pixel Pitch	0.27mm	0.23mm	0.251mm
Pixels Per Inch	93 @ native resolution	109 @ native reesolution	101 @ native resolution
Backlight Type	CCFL		
Brightness (typical)	360 cd/m²	300 cd/m²	350 cd/m²
Contrast Ratio (typical)	1000:1		
Viewing Angle (typical)	178° Vert., 178° Hor.		
Response Time (typical)	8ms Rapid Response™ (Gray-to-Gray)	7ms Rapid Response™ (Gray-to-Gray)	
Color Gamut*			
Adobe RGB Coverage/Size**	98.1% / 107%	97.1% / 107.2%	98.2% / 106.7%
NTSC Coverage/Size	93.2% / 102.2%	92.6% / 102.5%	93.3% / 102%
sRGB Coverage/Size	100% / 144.3%	100% / 144.7%	100% / 144%
Lookup Table	14-bit (3D)		
Displayable Colors	1.07 billion out of 4.3 trillion (10-bit DisplayPort input); 16.7 million colors out of 1.05 billion color palette (DVI-D, VGA input)	1.07 billion colors out of 4.3 trillion (10-bit DisplayPort input); 16.7 million colors out of 1.05 billion color palette (DVI-D input)	
Synchronization Range			
Horizontal (Analog/Digital)	31.5-91.9/118.4 kHz (digital)	31.5-93.9 kHz (digital only)	31.5 - 98.7 KHz (digital only)
Vertical	50 - 85 Hz	50 - 87 Hz	30 - 87 Hz
Input Signal			
Video	Analog RGB 0.7 Vp-p/75 Ohms Separate sync: TTL Level (Positive/Negative)	n/a	
Sync	Composite sync: TTL Level (Positive/Negative) Composite sync on green: (0.3Vp-p negative 0.7Vp-p positive)	n/a	
Input Connectors	DisplayPort, DVI-D (2) & VGA 15-pin D-sub	DisplayPort &DVI-D Dual Link (2)	DisplayPort (2) & DVI-D Dual Link (2)
POWER CONSUMPTION			
On (typical)	95W (w/o USB active) / 114W (with USB active)	117W (w/o USB active) / 131W (with USB active)	155W (w/o USB active) / 161W (with USB active)
Power Savings Mode (typical)	1W (w/o USB active) / 15W (with USB active)	1.4W (w/o USB active) / 11W (with USB active)	1.7W (w/o USB active) / 12W (with USB active)
PHYSICAL SPECIFICATIONS			
Dimensions (WxHxD)			
Net (with stand)	21.9 x 14.9-20.8 x 9 in. / 556.8 x 378-528 x 227.6mm	25.2 x 15.6-21.5 x 9.3 in. / 640.4 x 396.2-546.2 x 235.5mm	27.1 x 18.4-24.3 x 11.9 in./ 688.3 x 467.4-617.2 x 302.3mm
Net (without stand)	21.9 x 14.3 x 3.3 in. / 556.8 x 362.4 x 85mm	25.2 x 14.9 x 3.3 in. / 640.4 x 378.6 x 85mm	27.1 x 17.6 x 4.9 in. / 688.3 x 447 x 124.5mm
Weight			
Net (with stand)	23.4 lbs. / 10.6 kg	30 lbs. / 13.6 kg	41.5 lbs. / 18.8 kg
Net (without stand)	16.3 lbs. / 7.4 kg	21.2 lbs. / 9.6 kg	27.6 lbs. / 12.5 kg
VESA Hole Configuration	100 x 100mm	100 x 100mm, 200 x 100mm	
ENVIRONMENTAL CONDITIONS			
Operating Temperature	41-95°F / 5-35°C		
Operating Humidity	30-80%		20-80%
Operating Altitude	6562 ft. / 2000m	10,000 ft. / 3048m	
Storage Temperature	14-140°F / -10-60°C		
Storage Humidity	10-85%		
Storage Altitude	40,000 ft. / 12,192m		
Tropical Environments	No	Yes	
ENVIRONMENTAL COMPLIANCE			
TCO	5.0		
RoHS	Yes		
LIMITED WARRANTY	4 years		
ADDITIONAL FEATURES	ECO Mode, Carbon footprint meter, Thin frame, Tilt, Swivel, Pivot, Height-adjustable stand, Height-adjustable stand with locking base, Quick release stand, Carrying handle, Rapid Response, Ambix4,> XtraView+, OSD user controls, MultiProfiler software, USB hub (2 up/3 down) with DisplaySync Pro, Cable management, Touch-integratable, VESA mount, HDCP, DDC/CI, No Touch Auto Adjust, 14-bit 3D LUT, X-Light Pro, Black Level adjustment, AmbiBright, Wide Color Gamut, Adobe RGB, CableComp, TileMatrix, TileComp, GammaComp MD QA software, SpectraView software-ready	5 customizeable picture modes, MultiProfiler, USB hub with DisplaySync Pro KVM function, 14-bit 3D LUT, Tilt / Swivel /Pivot, Height-adjustable stand, Quick release stand, Rapid Response, XtraView+, OSD user controls, NaViSet software, Cable management, Touch-integratable, VESA mount, HDCP, DDC/CI, No Touch Auto Adjust, 14-bit 3D LUT, Black Level adjustment, AmbiBright, CableComp, GammaComp MD QA software, SpectraView software-ready	ECO Mode, Carbon footprint meter, Thin frame, Tilt, Swivel, Pivot, Height-adjustable stand, Height-adjustable stand with locking base, Quick release stand, Carrying handle, Rapid Response, Ambix4, XtraView+, OSD user controls, MultiProfiler software, USB hub (2 up/3 down) with DisplaySync Pro, Cable management, Touch-integratable, ESA mount, HDCP, DDC/CI, 14-bit 3D LUT, X-Light Pro, Black Level adjustment, AmbiBright, Wide Color Gamut, Adobe RGB, CableComp, TileMatrix, TileComp, GammaComp MD QA software, SpectraView software-ready, Standalone hardware calibration
SHIPS WITH	Power cord, 15-pin D-sub cable, DVI cable, USB cable, Mounting Screws, DisplayPort cable	Power cord, DVI cable, USB cable, Mounting Screws, DisplayPort cable	
OPTIONAL ACCESSORIES	SpectraViewII Color Calibration Kit (SVII-PRO-KIT), Color calibration sensor (MDSVSENSOR3), SpectraView software (SVIISOFT), Hood (HDP212426), Multimedia soundbar - black (SOUNDBARPRO)	SpectraView, Color Calibration Kit (SVII-PRO-KIT); Color calibration sensor (MDSVSENSOR3); SpectraView software (SVIISOFT); Hood (HDP27); Multimedia soundbar - black (SOUNDBARPRO)	SpectraView, Color Calibration Kit (SVII-PRO-KIT); Color calibration sensor (MDSVSENSOR2); SpectraView software (SVIISOFT); Hood (HDP30); Multimedia soundbar - black (SOUNDBARPRO)

\* Color gamut size and coverage calculated as 2-D gamut area in CIE 1931 xy colorspace. Size is the total relative display gamut area and includes any colors outside the reference gamut. Coverage is the relative display gamut area contained inside the reference gamut. NTSC values provided for comparison purposes - modern broadcast video uses SMPTE-C, ITU-R BT, 709-5/sRGB or EBU primaries.

\*\* AdobeRGB is a standard defined by Adobe Systems Incorporated.



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