NEC MultiSync® P Series

Widescreen, standard-gamut LCD displays ideal for graphics applications

Designed with key features for the web graphics, online video and photography professional, the 23" NEC MultiSync P232W and 24" P241W are smart investments for your desktop, while ensuring accurate, consistent and repeatable color performance. MultiSync P Series displays feature several user-friendly technologies to free up desktop space and save time in your workflow.

Highlights

- **Best-in-class IPS LCD technology with wide viewing angle** provides optimum performance for displaying color images (P241W)
- **96.7% sRGB coverage** reliably reproduces colors for the most desktop displays (71.4% color gamut coverage of NTSC [1953]) (P241W)
- **Internal 14-bit 3D programmable lookup tables (LUTs)** allow the accurate display of up to 1.07 billion colors out of a palette of 4.3 trillion for lossless color and smooth images and hardware calibration
- **Built-in USB hub with DisplaySync Pro™** controls two computers with only one keyboard and mouse
- **Professional-grade backlight technologies** help deliver a long display life and are backed by a 4-year limited warranty with 48-hour Advanced Exchange service
- **AmbiBright™ ambient light sensor** automatically adjusts the display's brightness based on lighting conditions
- **Multiple connectivity options**, including DisplayPort, HDMI (P232W), DVI and VGA, allow connections from multiple types of devices
- **XtraView+™ technology** provides for the widest viewing angles available (up to 178°) with minimal off-angle color shift
- **Four-way ergonomic stand** boasts pivot, swivel, tilt and height-adjustment up to 150mm to maximize your viewing comfort
- **Free MultiProfiler software** provides complete control over the five picture modes. This includes loading any ICC profile directly into the monitor for optimal color space matching.

NEC Display Solutions
MultiProfiler

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Specifications for MultiSync P232W/P241W

MODEL	P232W	P241W
DISPLAY		
Panel Technology	IPS	
Viewable Image Size	23"	24.1"
Aspect Ratio	16:9	16:10
Native Resolution	1920 x 1080	1920 x 1200
Pixel Pitch	0.265mm	0.27mm
Pixels Per Inch	96 @ native resolution	93 @ native resolution
Backlight Type	W-LED	CCFL
Brightness (typical)	250 cd/m²	360 cd/m²
Contrast Ratio (typical)	1000:1	
Viewing Angle (typical)	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	
Response Time (typical)	8ms	
Color Gamut*		
Adobe RGB Coverage/Size**	TBD	75.2% / 95.6%
NTSC Coverage/Size	TBD	71.4% / 72.2%
sRGB Coverage/Size	TBD	96.7% / 102%
Lookup Table	14-bit 3D	
Displayable Colors	1.07 billion out of 4.3 trillion	16.7 million out of 1.05 billion
Synchronization Range		
Horizontal (Analog/Digital)	31.5-83/118.4 kHz	31.5-93.8/118.4 kHz
Vertical	50-85 Hz	
Input Signal		
Video	Analog RGB 0.7 Vp-p/75 Ohms	
Sync	Separate Sync: TTL Level (Positive/Negative); Composite Sync: TTL Level (Positive/Negative); Composite Sync on Green: (0.3Vp-p negative 0.7Vp-p positive)	
Input Connectors	DisplayPort, HDMI, DVI-D, VGA 15-pin D-sub	DisplayPort, DVI-D (2), VGA 15-pin D-sub
POWER CONSUMPTION		
On (typical)	29W	95W
Power Savings Mode (typical)	0.3W	1W
PHYSICAL SPECIFICATIONS		
Dimensions (WxHxD)		
Net (with stand)	21.4 x 14.9-20.8 x 9 in. / 543.6 x 338-488 x 227.6mm	21.9 x 14.9-20.8 x 9 in. / 556.3 x 378.5-528.3 x 228.6mm
Net (without stand)	21.4 x 12.7 x 2.9 in. / 543.6 x 322.4 x 74mm	21.9 x 14.3 x 3.3 in. / 556.3 x 363.2 x 83.8mm
Weight		
Net (with stand)	20.3 lbs. / 9.2 kg	23.8 lbs. / 10.8 kg
Net (without stand)	TBD	16.8 lbs. / 7.6 kg
VESA Hole Configuration	100 x 100mm	
ENVIRONMENTAL CONDITIONS		
Operating Temperature	41-95°F / 5-35°C	
Operating Humidity	30 - 80%	
Operating Altitude	6562 ft. / 2000m	
Storage Temperature	14-140°F / -10-60°C	
Storage Humidity	10-85%	
Storage Altitude	40,000 ft. / 12,192m	
LIMITED WARRANTY	4 years parts and labor, including backlight***	
ADDITIONAL FEATURES	ECO Mode; Carbon footprint meter; Thin frame; Tilt; Swivel; Pivot; 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; sRGB; CableComp; TileMatrix; TileComp; GammaComp MD QA software-ready; SpectraView software-ready	
SHIPS WITH	Power cord; 15-pin D-sub cable; DVI-D cable; USB cable; DisplayPort cable; Mounting Screws	
OPTIONAL ACCESSORIES	SpectraView₁₁ Color Calibration Kit (SVII-PRO-KIT); Color calibration sensor (MDSVSENSOR2); Color calibration sensor (MDSVSENSOR3); SpectraView software (SVIISOFT); Hood (HDPA23)	SpectraView₁₁ Color Calibration Kit (SVII-PRO-KIT); Color calibration sensor (MDSVSENSOR2); Spectra-View software (SVIISOFT); Multimedia soundbar - black (SOUNDBAR90-BK); Hood (HDPA212426)

* 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.
*** Warranty restrictions apply. Contact your representative for details.

Available as an option for the MultiSync P Series, the SpectraView₁₁™ system uses a color sensor to take color measurements of the display screen during calibration. The software analyzes these measurements and sends color adjustment commands directly to the display monitor. This means that color adjustments are made in the monitor rather than in the video graphics adapter, resulting in full use of the number of colors available on the graphics adapter and a much brighter image with the maximum possible color, resolution and fidelity.

The MultiSync P Series design allows you to adjust the displays to your exact ergonomic preferences. In addition to tilt and swivel functionality, the height adjusts up to 150mm, and the displays pivot between landscape to portrait orientations.

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