

NEC SpectraView Reference PA Series

24" and 27" widescreen professional LCD displays ideal for graphics applications

Designed with key features for the graphics and photography professional, the 24" and 27" NEC SpectraView Reference PA series are smart investments for your desktop, while ensuring accurate, consistent and repeatable colour 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
- Wide color gamut with more than 97% coverage of AdobeRGB, more than 92% coverage of NTSC [1953]) and accurate 100% sRGB coverage
- 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
- Wide connectivity with 10-bit DisplayPort, DVI-D with HDCP and USB hub (2 up/3 down)
- 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
- Color Vision Emulation allows a real-time preview of Type P/D/T color vision problems in support of Color Universal Design

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



The SpectraView Reference PA series includes **direct hardware calibration** with the award winning SpectraView Profiler monitor calibration software, NEC hood, SpectraView Reference Uniformity Check and SpectraView Certification Report of the panel.

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



The PA Series stand, which is smaller in size compared to its predecessor, features improved cable management and a lock function for easier, safer portability.



Direct hardware calibration with the award winning SpectraView Profiler monitor calibration software which allows the user to calibrate two monitors on the same machine.



Model	SpectraView Reference PA241W	SpectraView Reference PA271W	
Display	Viewable Size Image Pixel Pitch Pixels Per Inch Brightness (typical) Contrast Ratio (typical) Viewing Angle (typical) Response Time (typical) Panel Bit Depth Color Gamut* Adobe RGB** Coverage/Size NTSC Coverage/Size sRGB Coverage/Size	24.1" 0.27mm 93 @ native resolution 360 cd/m ² 1000:1 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10 8ms Rapid Response™ (Gray-to-Gray) 14-bit internal 3D LUTs, displays 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)	27" 0.23mm 109 @ native resolution 300 cd/m ² 1000:1 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10 7ms Rapid Response™ (Gray-to-Gray) 14-bit internal 3D LUTs, displays 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 Vertical	31.5 - 93.8/118.4 KHz (Analog/Digital) 51 - 85 Hz	31.5 - 93.8 KHz (Analog/Digital) 50 - 87 Hz	
Input Signal Video Sync	Analog RGB 0.7 Vp-p/75 Ohms Separate sync: TTL Level (Positive/Negative) Composite sync: TTL Level (Positive/Negative) Composite sync on green: (0.3Vp-p negative 0.7Vp-p positive)	Analog RGB 0.7 Vp-p/75 Ohms Separate sync: TTL Level (Positive/Negative) Composite sync: TTL Level (Positive/Negative) Composite sync on green: (0.3Vp-p negative 0.7Vp-p positive)	
Inputs	DisplayPort, DVI-D (2) & VGA 15-pin D-sub	DisplayPort & DVI-D (2)	
Resolutions Supported (Analog/Digital)	720 x 400 @ 70-85 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1152 x 864 @ 70-85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-85 Hz 1400 x 1050 @ 60-75 Hz 1440 x 900 @ 60-85 Hz 1600 x 1200 @ 60-75 Hz 1920 x 1200 @ 60 Hz 1024 x 1280 @ 60 Hz 1200 x 1920 @ 60 Hz 720 x 480p @ 60 Hz 720 x 576p @ 50 Hz 1280 x 720p @ 50-60 Hz 1920 x 1080p @ 50-60 Hz	640 x 400 @ 70-85 Hz 720 x 400 @ 70-85 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1152 x 864 @ 70-85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-85 Hz 1400 x 1050 @ 60-75 Hz 1440 x 900 @ 60-85 Hz 1600 x 1200 @ 60 Hz 1920 x 1200 @ 60 Hz 1024 x 1280 @ 60 Hz 720 x 480p @ 60 Hz 720 x 576p @ 50 Hz 1280 x 720p @ 50-60 Hz 1920 x 1080p @ 50-60 Hz	DIGITAL ONLY 640 x 400 @ 70-85 Hz 720 x 400 @ 70-85 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1152 x 864 @ 70-85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-85 Hz 1400 x 1050 @ 60-75 Hz 1440 x 900 @ 60-85 Hz 1600 x 1200 @ 60 Hz 1920 x 1200 @ 60 Hz 2560 x 1440 @ 60Hz 720 x 480p @ 60 Hz 720 x 576p @ 50 Hz 1280 x 720p @ 50-60 Hz 1920 x 1080p @ 50-60 Hz
Native Resolution	1920 x 1200	2560 x 1440	
Additional Features	USB hub (2 up/3 down) with DisplaySync Pro, Picture-in-Picture, Side-by-Side, ICC Profile Emulation, Color Vision Emulation, 14-bit 3D gamma, Adobe RGB, DICOM, ColorComp, overdrive, ECO Mode, cable management, touch-enabled, tilt, swivel, pivot, 150mm height-adjustable stand with locking base, No Touch Auto Adjust, quick release stand, VESA Mount, TCO 5.0	USB hub (2 up/3 down) with DisplaySync Pro, Picture-in-Picture, Side-by-Side, ICC Profile Emulation, Color Vision Emulation, 14-bit 3D gamma, Adobe RGB, DICOM, ColorComp, overdrive, ECO Mode, cable management, touch-enabled, tilt, swivel, pivot, 150mm height-adjustable stand with locking base, No Touch Auto Adjust, quick release stand, VESA Mount, TCO 5.0	
Touch-Capable	Designed for integration	Designed for integration	
Voltage Rating	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	
Power Consumption (typical) On Power Savings Mode	95W (without USB active) / 114W (with USB active) 1W (without USB active) / 15W (with USB active)	117W (without USB active) / 131W (with USB active) 1.4W (without USB active) / 11W (with USB active)	
Dimensions (WxHxD) Net (with stand) Net (without stand)	21.9 x 14.9-20.8 x 9 in. / 556.3 x 378.5-528.3 x 228.6mm 21.9 x 14.3 x 3.3 in. / 556.3 x 363.2 x 83.8mm	25.2 x 15.6-21.5 x 9.3 in. / 640.1 x 396.2-546.1 x 236.2mm 25.2 x 14.9 x 3.3 in. / 640.1 x 378.5 x 83.8mm	
Net Weight (with stand) (without stand)	23.4 lbs. / 10.6 kg 16.3 lbs. / 7.4 kg	30 lbs. / 13.6 kg 21.2 lbs. / 9.6 kg	
VESA Hole Configuration Specifications	100 x 100mm, 200 x 100mm	100 x 100mm, 200 x 100mm	
Environmental Conditions Operating Temperature Operating Humidity Operating Altitude Storage Temperature Storage Humidity Storage Altitude	5-35° C / 41-95° F 30-80% 3048m / 10,000 ft. -10-60° C / 14-140° F 10-85% 12,192m / 40,000 ft.	5-35° C / 41-95° F 30-80% 3048m / 10,000 ft. -10-60° C / 14-140° F 10-85% 12,192m / 40,000 ft.	
Safety Standards	UL / C-UL, CE, Gost/PCT, PSB, CCC, NOM, TUV GS, FCC Class B/Canadian DOC, C-tick, MPR II / MPR III, VCCI (class 2), GEEA	UL / C-UL, CE, Gost/PCT, PSB, CCC, NOM, TUV GS, FCC Class B/Canadian DOC, C-tick, MPR II / MPR III, VCCI (class 2), GEEA	
Limited Warranty	3 years parts and labor, including backlight	3 years parts and labor, including backlight	
Technical Support	M - F (9am - 4pm EST)	M - F (9am - 4pm EST)	

* Color gamut size and coverage calculated as 2-D gamut area in CIE 1931 xy color space. 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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