# NEC MultiSync® 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" NEC MultiSync PA241W and 27" PA271W 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
- 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
- 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
- MultiProfiler software loads any ICC profile directly into the monitor for optimal color space matching
- Color Vision Emulation allows a real-time preview of Type P/D/T color vision problems in support of Color Universal Design
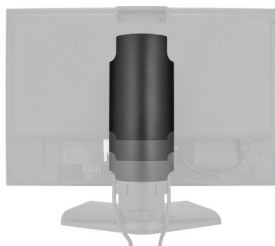
* with 10-bit DisplayPort input. 16.7 million colors out of 65 billion with DVI-D input.

**CUD**

**COLOR
UNIVERSAL
DESIGN**

**NEC**

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 displays pivot between landscape to portrait orientations.

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

Available as an option for the PA Series, the SpectraView$_{II}$™ 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.

| Model | MultiSync PA241W | MultiSync PA271W |
|---|---|---|
| **Display** | | |
| Viewable Size Image | 24.1" | 27" |
| Pixel Pitch | 0.27mm | 0.23mm |
| Pixels Per Inch | 93 @ native resolution | 109 @ native resolution |
| Brightness (typical) | 360 cd/m² | 300 cd/m² |
| Contrast Ratio (typical) | 1000:1 | 1000:1 |
| Viewing Angle (typical) | 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10 | 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR > 10 |
| Response Time (typical) | 8ms Rapid Response™ (Gray-to-Gray) | 7ms Rapid Response™ (Gray-to-Gray) |
| Panel Bit Depth | 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) | 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) |
| Color Gamut* | | |
| Adobe RGB** Coverage/Size | 98.1% / 107% | 97.1% / 107.2% |
| NTSC Coverage/Size | 93.2% / 102.2% | 92.6% / 102.5% |
| sRGB Coverage/Size | 100% / 144.3% | 100% / 144.7% |
| **Synchronization Range** | | |
| Horizontal | 31.5 - 93.8/118.4 KHz (Analog/Digital) | 31.5 - 93.8 KHz (Analog/Digital) |
| Vertical | 51 - 85 Hz | 50 - 87 Hz |
| **Input Signal** | | |
| Video | Analog RGB 0.7 Vp-p/75 Ohms | 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) | 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 400 @70-85 Hz<br>640 x 480 @ 60-85 Hz   720 x 400 @ 70-85 Hz<br>800 x 600 @ 56-85 Hz   640 x 480 @ 60-85 Hz<br>832 x 624 @ 75 Hz   800 x 600 @ 56-85 Hz<br>1024 x 768 @ 60-85 Hz   832 x 624 @75 Hz<br>1152 x 864 @ 70-85 Hz   1024 x 768 @ 60-85 Hz<br>1152 x 870 @ 75 Hz   1152 x 864 @ 70-85 Hz<br>1280 x 960 @ 60 Hz   1152 x 870 @ 75 Hz<br>1280 x 1024 @ 60-85 Hz   1280 x 960 @ 60 Hz<br>1400 x 1050 @ 60-75 Hz   1280 x 1024 @ 60-85 Hz<br>1440 x 900 @ 60-85 Hz   1400 x 1050 @ 60-75 Hz<br>1600 x 1200 @ 60-75 Hz   1440 x 900 @ 60-85 Hz<br>1920 x 1200 @ 60 Hz   1600 x 1200 @ 60 Hz<br>1024 x 1280 @ 60 Hz   1920 x 1200 @ 60 Hz<br>1200 x 1920 @ 60 Hz   1024 x 1280 @ 60 Hz<br>720 x 480p @ 60 Hz   720 x 480p @ 60 Hz<br>720 x 576p @ 50 Hz   720 x 576p @ 50 Hz<br>1280 x 720p @ 50-60 Hz   1280 x 720p @ 50-60 Hz<br>1920 x 1080p @ 50-60 Hz   1920 x 1080p @ 50-60 Hz | DIGITAL ONLY<br>640 x 400 @70-85 Hz<br>720 x 400 @ 70-85 Hz<br>640 x 480 @ 60-85 Hz<br>800 x 600 @ 56-85 Hz<br>832 x 624 @75 Hz<br>1024 x 768 @ 60-85 Hz<br>1024 x 1280 @ 60 Hz<br>1152 x 864 @ 70-85 Hz<br>1152 x 870 @ 75 Hz<br>1280 x 960 @ 60 Hz<br>1280 x 1024 @ 60-85 Hz<br>1400 x 1050 @ 60-75 Hz<br>1440 x 900 @ 60-85 Hz<br>1600 x 900 @ 60 Hz<br>1600 x 1200 @ 60 Hz<br>1920 x 1200 @ 60 Hz<br>2560 x 1440 @ 60Hz<br>720 x 480p @ 60 Hz<br>720 x 576p @ 50 Hz<br>1280 x 720p @ 50-60 Hz<br>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 | 95W (without USB active) / 114W (with USB active) | 117W (without USB active) / 131W (with USB active) |
| Power Savings Mode | 1W (without USB active) / 15W (with USB active) | 1.4W (without USB active) / 11W (with USB active) |
| **Dimensions (WxHxD)** | | |
| Net (with stand) | 21.9 x 14.9-20.8 x 9 in. / 556.3 x 378.5-528.3 x 228.6mm | 25.2 x 15.6-21.5 x 9.3 in. / 640.1 x 396.2-546.1 x 236.2mm |
| Net (without stand) | 21.9 x 14.3 x 3.3 in. / 556.3 x 363.2 x 83.8mm | 25.2 x 14.9 x 3.3 in. / 640.1 x 378.5 x 83.8mm |
| **Net Weight** | | |
| (with stand) | 23.4 lbs. / 10.6 kg | 30 lbs. / 13.6 kg |
| (without stand) | 16.3 lbs. / 7.4 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 | 5-35° C / 41-95° F | 5-35° C / 41-95° F |
| Operating Humidity | 30-80% | 30-80% |
| Operating Altitude | 3048m / 10,000 ft. | 3048m / 10,000 ft. |
| Storage Temperature | -10-60° C / 14-140° F | -10-60° C / 14-140° F |
| Storage Humidity | 10-85% | 10-85% |
| Storage Altitude | 12,192m / 40,000 ft. | 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** | 4 years parts and labor, including backlight | 4 years parts and labor, including backlight |
| **Technical Support** | M - F (7am - 7pm CST) | M - F (7am - 7pm CST) |

* 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 primatries.

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

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