

Orchestrating a brighter world

**NEC**

# NEC MultiSync® PA271Q

Wide gamut color critical display designed for  
photography and video production



Color Accuracy  
and Quick  
Stability

www.tuv.com  
ID 1419058943



# High resolution and incredible, predictable color accuracy.

The 27" MultiSync PA271Q is the ultimate desktop display for applications where precise color is essential. The innovative wide-gamut W-LED backlight provides 98.5% coverage of the Adobe RGB color space and 81.1% of Rec 2020 color space, enabling more accurate colors to be displayed on screen. Utilizing a high performance IPS LCD panel and backed by a 4 year warranty with Advanced Exchange, the MultiSync PA271Q delivers high quality, accurate images simply and beautifully.

## Impeccable Image Performance

The wide-gamut W-LED backlight combined with NEC's exclusive SpectraView Engine deliver precise color in every environment.

- QHD resolution (2560 x 1440) offers a high pixel density
- Up to 98.5% coverage of the Adobe RGB color space and accurate 100% coverage of sRGB
- 10-bit HDMI and DisplayPort inputs display up to 1.07 billion colors out of a palette of 4.3 trillion colors

## Ultimate Color Management

The sophisticated SpectraView Engine provides extensive, intuitive control over color settings.

- MultiProfiler software and on-screen controls provide access to thousands of color gamut, gamma, white point, brightness and contrast combinations
- Internal 14-bit 3D lookup tables (LUTs) work with optional SpectraView<sub>ii</sub> color calibration solution for unparalleled color accuracy

## A Perfect Fit for Your Workspace

Future-proof connectivity, great ergonomics, and VESA mount cabinets to fit every desk and office environment.

- 10-bit DisplayPort and 2 HDMI as well as USB Type-C inputs connect to most PC and Mac computers
- Four-way ergonomic stand includes pivot, swivel, tilt and height-adjustment up to 150mm
- VESA-standard mounting holes for multi-display setups

## A Better Workflow

Exclusive, innovative features can eliminate steps in a color editing workflow, saving time and hassle.

- 10 completely customizable picture modes provide shortcuts to commonly used graphics settings
- MultiProfiler can load ICC color profiles into any of the presets and also provides keyboard shortcuts for common functions
- 3 up / 3 down USB 3. hub with DisplaySync Pro controls two computers with one keyboard and mouse



## Color Accurate Editing

### The Essential

Designed for color accuracy while editing images and video, the MultiSync PA271Q utilizes the SpectraView Engine to accurately emulate several color spaces, including Adobe RGB, sRGB, Rec-709, Rec 2020 and DCI P3.

### The Extras

Using MultiProfiler, the presets in the PA271Q can be set to emulate most other color spaces simply by loading an ICC profile from a printer, display or projector, allowing you to quickly switch between multiple color spaces while editing. In addition, you can display the same image in two or four different picture modes simultaneously on screen, allowing for a quick preview of a second color space and saving time switching between color spaces in editing software.



## Multiple Computer Environments

### The Essential

With plenty of connectivity options, including DisplayPort, USB Type-C, and dual HDMI connections, the MultiSync PA271Q can connect most modern computer systems.

### The Extras

Each PA271Q features a USB 3.1 hub with three upstream connections and three downstream connections. This allows you to connect three different computers using the USB port and share a keyboard, mouse and a third device between the two computers with the push of a button. Since the internal LUTs store the calibration data in the display, every input is a calibrated input.



## Designed for Video

### The Essential

The MultiSync PA271Q includes support for signals from 24 to 86Hz in order to directly connect to video sources.

### The Extras

The PA271Q's also supports standalone calibration with the MDSVSENSOR3 calibrator. Safe zones can also be configured directly through the on-screen menu, which is especially useful for directly connected camera sources.



# Color Accurate Professional Desktop

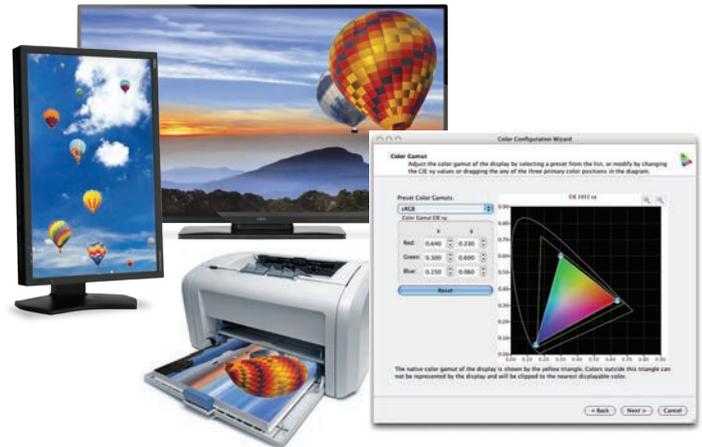
## Color Space Emulation

### The Essential

Built-in presets for standard color spaces, including sRGB, AdobeRGB, DCI P3, Rec 709 and even the DICOM medical imaging standard provide quick access to previewing your work in a specific color space.

### The Extras

MultiProfilers software gives you direct control over your display's built-in preset so that you can have multiple custom color space emulations simultaneously on the display. Color gamut, white point, gamma and brightness are controllable for each preset and ICC color profiles for printers or displays can also be loaded into the presets for a more perfect color match.



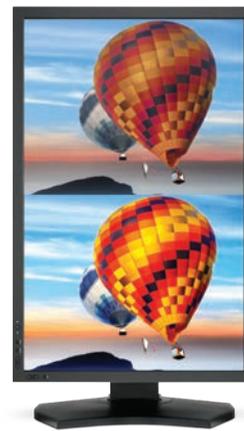
## Picture in Picture / Picture by Picture

### The Essential

Picture in Picture and Picture by Picture configurations allow multiple inputs to be shown on screen simultaneously in order to improve productivity. The MultiSync PA271Q has two-way Picture by Picture modes.

### The Extras

The PA271Q allows for two different inputs to be shown simultaneously, which is useful for multiple computer configurations or even replacing multiple display setups. The same input can also be displayed in a second color space, which is most often used for a quick preview of an output color space (for example, sRGB) while working in a different color space (for example, Adobe RGB). This saves the time used to switch back and forth between color spaces as final editing tweaks are made.



Picture by Picture



Picture in Picture  
shown with 2 separate inputs

## 10 bit Color

### The Essential

10 bit color or "deep color" provides an extra 2 bits of color data accessible through the display, extending the typical display's 16.7 million colors to over 1 trillion colors. This improves gradients and reduces image banding.

### The Extras

The MultiSync PA271Q offers 10 bit color support over DisplayPort and HDMI inputs for increased color fidelity when matched with a 10 bit operating system and software applications.



10 bit color eliminates banding



8 bit color shows banding

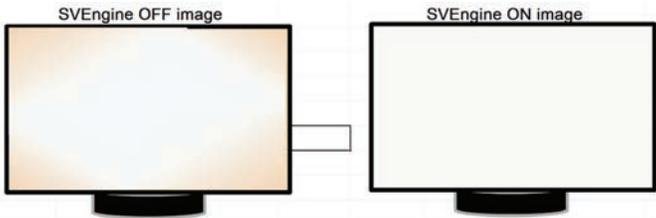
## SpectraView Engine

### The Essential

The NEC-exclusive SpectraView Engine controls all of the color settings for the MultiSync PA Series. It uses a system of sensors to ensure that color is accurate and stable while the display is in use.

### The Extras

SpectraView Engine controls the white point, brightness, color space and gamma in real time. In addition, each MultiSync PA Series display is individually characterized at the factory for color and uniformity performance. The SpectraView Engine will automatically compensate for variations in color and uniformity to ensure consistent performance across monitors.



## SpectraView<sub>II</sub>™ Color Calibration Option

### The Essential

Available as an option for the PA271Q, the SpectraView<sub>II</sub> color calibration solution uses an external color sensor to ensure the consistency and accuracy of the colors onscreen. SpectraView<sub>II</sub> is the only software that calibrates the lookup tables (LUTs) in an NEC display, eliminating a loss of color caused by video card LUT calibration.

### The Extras

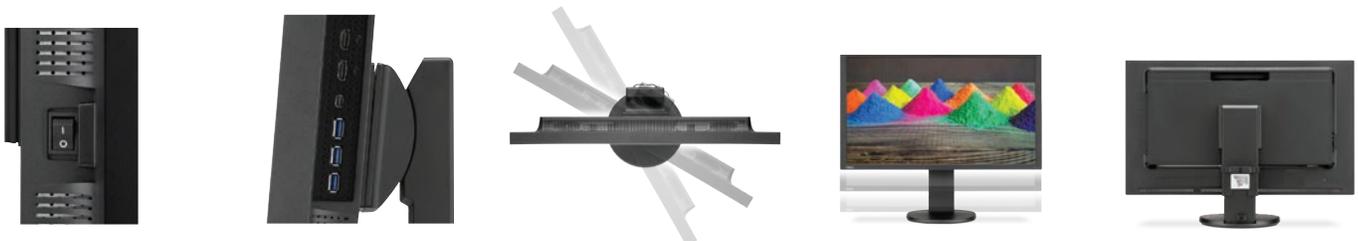
The SpectraView<sub>II</sub> color calibration solution is simple, quick and reliable. Custom calibration targets allow you to calibrate to thousands of calibration combinations and the calibration validation functionality provides you with everything you need to trust the calibration results. In addition, SpectraView<sub>II</sub> includes lifetime upgrades and can be used for your future NEC displays.



# SpectraView<sub>II</sub>™

Display Color Calibration System

MODEL		
<b>DISPLAY</b>	Viewable Image Size	27"
	Aspect Ratio	16:9
	Native Resolution	2560 x 1440
	Pixel Pitch	0.23mm
	Pixels Per Inch	109 @ native resolution
	Brightness (typical)	350 cd/m <sup>2</sup>
	Response Time (typical)	8 ms (GTG)
	Color Gamut* Adobe RGB Coverage/Size** NTSC Coverage/Size sRGB Coverage/Size DCI-P3 Coverage / Size Rec 2020	98.5% / 114.0% 96.1% / 108.9% 100.0% / 153.8% 98.3% / 113.4% 81.1% / 81.3%
	Displayable Colors	1.07 billion out of 4.3 trillion
	Input Connectors	DisplayPort, mini DisplayPort, HDMI (2), USB Type-C
<b>POWER CONSUMPTION</b>	On (typical)	50W
	Power Savings Mode (ADVANCED)	0.5W
	Power Delivery	The PA271Q delivers 30W over USB Type-C
<b>PHYSICAL SPECIFICATIONS</b>	Dimensions (WxHxD)	
	Net (with stand)	25.2 x 15.6 - 21.5 x 9.2 in. / 640.2 x 395.7 - 545.7 x 233.0 mm
	Net (without stand)	25.2 x 14.9 x 2.6 in. / 640.2 x 378.6 x 65.4 mm
	Weight	
	Net (with stand)	21.4 lbs. / 9.7 kg
	Net (without stand)	15.2 lbs. / 6.9 kg
	VESA Hole Configuration	100 x 100mm
<b>ENVIRONMENTAL CONDITIONS</b>	Operating Temperature	41-95°F / 5-35°C
	Operating Humidity	20 - 80%
	Operating Altitude	16,404 ft. / 5000m
	Storage Temperature	14-140°F / -10-60°C
	Storage Humidity	10-85%
	Storage Altitude	40,000 ft. / 12,192m
	Tropical Environments	Yes
<b>ADDITIONAL FEATURES</b>	USB 3.1 hub (3 up/3 down) with DisplaySync Pro, 10 Picture Modes, Picture in Picture, 2 way Picture by Picture, ICC Profile Emulation, Color Vision Emulation, 14-bit 3D gamma lookup table (LUT), wide color gamut, Adobe RGB, DICOM, REC 709, Digital Uniformity Correction, black level adjustment, ambient light sensor, backlight stability sensor, 150mm height-adjustable and quick release stand with locking base and cable management as well as tilt, swivel and pivot, MultiProfiler software, touch-integratable, TileMatrix support, Standalone hardware calibration, integrated 2+1W speakers, Kensington security slot	
<b>OPTIONAL ACCESSORIES</b>	SpectraView™ Color Calibration Kit (SVII-PRO-KIT); Color calibration sensor (MDSVSENSOR3); SpectraView software (SVIISOFT); Hood (HD2PA2427)	
<b>SHIPS WITH</b>	Power cord; DisplayPort cable; Mini DisplayPort to DisplayPort cable; USB 3.0 A to B cable; Mounting screws	



\* 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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