

# NEC SpectraView® Reference 242

Order Code: 60003543

NEC LCD 24" Professional Colour Display

**Professional 24 inch Colour Display.** The NEC SpectraView® Reference 242 is a high-end professional performance LCD monitor using latest 10-bit AH-IPS with GB-R LED backlight for colour critical applications with many features and benefits for obtaining best picture quality and colour accuracy, whilst maintaining attractive value for money.

## DELIVERING GENUINE BENEFITS

**Backlight Ageing Correction** - brightness and white point.

**Ergonomically Mastered** - comfortable viewing with ErgoDesign® and TORO™ design.

**Extraordinary Features** - such as Digital Uniformity Control, Picture-in-Picture, USB Hub, 3D LUT colour space emulation, backlight ageing correction, DisplayPort.

**Facility to create and calibrate** - thanks to the SpectraView® Profiler software.

**Consistent Colour Viewing** - with 10-bit AH-IPS and GB-R Backlight 16:10 TFT display.

**True Colours** - with a wide colour gamut (108.6% size / 99.3% coverage AdobeRGB) and hardware calibration with 14-bit LUT (look up table) for 42-bit colour control and gamma correction, irrespective of colour and input.

**Zero Defect Pixel Warranty** - up to 6 months after date of purchase.

**Complete peace of mind** - with a comprehensive 5-Year Warranty.



## OUTSTANDING PERFORMANCE

- **Ergonomic.** Suitable for long and intensive working with 150 mm height adjust with 90° portrait capability, Automatic NTAA IPS viewing angle stability for best ergonomics.
- **Colour Space Emulation.** Each input can be assigned to the 3D LUT (9x9x9) to define a unique colour space, e.g. sRGB, Adobe RGB.
- **Integrated USB HUB** (2 up; 3 down). Can be used to attach USB peripherals such as mouse and keyboard. At the same time the 2 up connectors can be assigned to different video inputs (input following), which may be feeding the Picture in Picture feature. Since the USB standard is supported by various platforms (Windows, Mac, Linux etc.) easy support is assured when using simultaneous heterogeneous environment.
- **Cabinet and Stand Design.** Allows a very reduced packaging footprint compared to similar displays.
- **DisplayPort Connector.** Is compact and features an in-built locking mechanism, which can be disengaged with a simple button press. Longer cable lengths and IPS colour support ensure that application flexibility is enhanced.



**SPECIAL CHARACTERISTICS**

Adjustable power LED (colour and brightness), Advanced NTAA, AmbiBright, Auto Black Level, Auto Brightness, Auto Contrast, AutoBright, Backlight Ageing Correction, CableComp with Sync Continuity Detection, DDC/CI compatible, Digital Uniformity Control (ColorComp), Direct Brightness and Contrast, EcoModes, GammaComp (14 bit Look Up Table) and 14 bit Gamma Correction, NaViSet Administrator 2, NaViSet® and NaViSet®Administrator compatible, OmniColor™: sRGB and 6-Axis-Colour-Control, Overdrive, Picture-in-Picture Mode, Quick release Stand and Handle, Rapid Response Technology, RapidMotion, Self Diagnostics, SpectraView® Profiler Software, TileComp, TileMatrix, TORO™ Design, Windows 8 compatible



- Energy Efficiency** Carbon Footprint Meter / Carbon Savings Meter
- Ecological Materials** Efficient mechanical design for minimised packaging; Minimal use of harmful material
- Ecological Standards** ErP compliant

<b>Technical Specification NEC SpectraView® Reference 242</b>	
<b>DISPLAY</b>	
Panel Technology	AH-IPS GB-R LED Backlight
Screen Size [inch/cm]	24.1 / 61.1
Screen Aspect Ratio	16:10
Pixel Pitch [mm]	0.270
Brightness (typ.) [cd/m²]	340
Contrast Ratio (typ.)	1000:1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	8 (grey-to-grey); 16 (8 white / black; 8 black / white)
Colours [Billion]	1.074 (10-bit per colour)
Colour Gamut Size / Coverage	108.6% / 99.3% Adobe RGB
<b>SYNCHRONISATION RATE</b>	
Horizontal Frequency [kHz]	31.5 - 93.8 and 118.4 (analog); 31.5 - 91.1 and 118.4 (digital)
Vertical Frequency [Hz]	50 - 85
<b>RESOLUTION</b>	
Optimum Resolution	1920 x 1200 at 60 Hz
Supported	1920 x 1080p; 1600 x 1200; 1440 x 900; 1400 x 1050; 1280 x 1024; 1280 x 960; 1280 x 720p; 1200 x 1920; 1152 x 870; 1152 x 864; 1024 x 768; 832 x 624; 800 x 600; 720 x 576p; 720 x 480p; 720 x 400; 640 x 480; 640 x 480p
<b>CONNECTIVITY</b>	
Digital	1 x DVI-D; 1 x HDMI; 1 x DisplayPort
Analog	1 x D-sub 15 pin
<b>ELECTRICAL</b>	
Power Consumption on Mode [W]	37 (typ.); 28 (Eco Mode); 56 (max.)
Power Savings Mode [W]	0.5
Power Supply	100-240 V; 0.84 A/0.38 A; integrated power supply
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	20 to 80
<b>ERGONOMICS</b>	
Height adjustable Stand [mm]	150 (Landscape mode)
Screen Tilt / Swivel [°]	-5 to +30; -45 to +45
Screen Rotate [°]	0 to 90 (landscape to portrait mode)
<b>MECHANICAL</b>	
Bezel Width [mm]	18.2
Dimensions (W x H x D) [mm]	556.8 x 378 - 528 x 227.6 (Landscape mode)
Weight [kg]	10.6
VESA Mounting [mm]	100 x 100 (4 points)
<b>ADDITIONAL FEATURES</b>	
Colour Versions	Black Front Bezel, Black Back Cabinet
Cable Management	yes
Kensington security slot	yes
Plug and Play	VESA DDC/CI; DDC2B/2Bi; EDID Standard
Audio	Option: MultiSync® Soundbar Pro
Adjust Functions	Advanced NTAA (Advanced Non-Touch-Auto-Adjustment); Advanced User Menu; Auto Adjust; Black Level; Brightness; Colour Temperature Control; Contrast; Expansion Mode; Fine Adjust (analog); Hotkeys; Intelligent Power Management; Language Select; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; On-Screen-Display (OSD) lock-out; Sharpness; sRGB; USB; User Menu
Shipping Content	DisplayPort cable; DisplayPort to Mini DisplayPort cable; Monitor; Power Cable; Sales Office List; User Manual; CD-ROM with SpectraView® Profiler Software and manual; Detachable black light protection hood including accessories Signal Cable: DVI-D - DVI-D
Safety and Ergonomics	EAC; CE; TÜV Ergonomics; TÜV GS; C-tick; FCC Class B; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR II/ MPR III; PCBC/B-mark; PSB; RoHS
Warranty	5 years warranty incl. backlight; Zero Defect Pixel Warranty up to 6 months after date of Purchase