Datasheet

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.

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.

Product Information

Product Name	SpectraView® Reference 242
Product Group	NEC LCD 24" Colour Accurate Display
Order Code	60003543

Display

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]	16 (8 white / black; 8 black / white); 8 (grey-to-grey)
Colours [Billion]	1.074 (10-bit per colour)
Colour Gamut Size / Coverage	108.6% / 99.3% Adobe RGB

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 91.1 and 118.4 (digital); 31.5 - 93.8 and 118.4 (analog)
Vertical Frequency [Hz]	50 - 85

Resolution

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

Connectivity

Digital	1 x DisplayPort; 1 x DVI-D; 1 x HDMI
Analog	1 x D-sub 15 pin

Electrical

Power Consumption on Mode [W]	28 (Eco Mode); 37 (typ.); 56 (max.)
Power Savings Mode [W]	2
Power Supply	0.84 A/0.38 A; 100-240 V; integrated power supply

Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	20 to 80

Ergonomics

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)

Mechanical

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)

Additional Features

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; 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
Colour Versions	Black Front Bezel, Black Back Cabinet
Cable Management	yes
Kensington security slot	yes
Plug and Play	DDC2B/2Bi; EDID Standard; VESA DDC/CI
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	CD-ROM with SpectraView® Profiler Software and manual; Detachable black light protection hood including accessories; DisplayPort cable; DisplayPort to Mini DisplayPort cable; Monitor; Power Cable; Setup Guide Signal Cable: [value1] x DVI-D
Safety and Ergonomics	C-tick; CCC; CE; EAC; FCC Class B; ISO 9241-307 (pixel failure class I); MPR II/ MPR III; PCBC/B-mark; PSB; RoHS; TÜV Ergonomics; TÜV GS; UL/C-UL or CSA
Warranty	5 years warranty incl. backlight; Zero Defect Pixel Warranty up to 6 months after date of Purchase

Green Features

Energy Efficiency	Annual energy consumption: 54 kWh (based on 4 operating hours per day); Carbon Footprint Meter / Carbon Savings Meter; Energy efficiency class: C
Ecological Materials	Efficient mechanical design for minimised packaging; Minimal use of harmful material
Ecological Standards	ErP compliant