

NEC MultiSync® PA231W

Order Code: 60002927, 60002928 (BK)

NEC LCD 23" Professional Desktop Display

Professional IPS Performance Desktop Display delivers uncompromising image quality as well as minimising life-cycle environmental impact. Uniting outstanding colour reproduction, class-leading ergonomics, an built-in carbon savings meter, ambient light sensor and IPS performance makes it ideal for creative professionals.

The ideal display for all creative professionals, designers, photographers, CAD-CAM, video-editing, finance, precision engineering and industrial applications (e.g. NDT) and anyone who cares about their visual work. This innovative display design has won the prestigious iF Design Award 2010.



DELIVERING GENUINE BENEFITS

Future-proof Connectivity - as well as easier support of high resolution, IPS colour signal is assured with the DisplayPort connector.

Improved Productivity and Reduced Desk Clutter - through easy multi-platform support and input following USB hub. Picture-by-picture allows two different platforms to be simultaneously viewed. A single mouse and keyboard can be switched to the active operating system.

Instant Real-time Visualisation - with the 3D LUT colour emulation and the picture-in-picture function you can simulate accurately different lighting conditions with varying paper colours.

Responsible Approach to Environmental Impact - is maintained, without any performance compromise: ambient light sensor, Carbon Footprint Meter / Carbon Savings Meter and efficient cabinet packing design.

Save Time and Increase Personal Productivity - see reality on your screen and see your creative masterpieces precisely as you envisioned them.

Ergonomic Office - full height adjustability (150 mm), swivel, tilt and pivot functionality ensures perfect individual ergonomic set-up.



OUTSTANDING PERFORMANCE

- **Ergonomic.** Suitable for long and intensive working with 150 mm height adjust, Advanced NTAA and IPS viewing angle stability for best ergonomics.
- **Input.** Each input can be assigned independently, 3D LUT (9x9x9) to define a unique colour space e.g. sRGB.
- **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 which may be feeding the Picture-in-Picture function. Since the USB standard is supported by various platforms easy support is assured when using simultaneous heterogeneous environment.
- **Cabinet and Stand Design** allow a very reduced packaging footprint compared to similar displays. The carbon savings meter, with the built-in ECO Mode allows responsible energy usage and at the same time motivates and informs the user about their usage behaviour. The built-in ambient light sensor adjusts the brightness of the monitor to environmental brightness conditions which again optimises energy usage, as well as providing an ergonomic brightness level.



SPECIAL CHARACTERISTICS

Adjustable power LED (colour and brightness), AmbiBright, Auto Black Level, Auto Brightness, Auto Contrast, AmbiBright, CableComp with Sync Continuity Detection, Consistent colour viewing with IPS technology, DDC/CI compatible, Digital Uniformity Control (ColorComp), Direct Brightness and Contrast, EcoModes, Extraordinary features such as Digital Uniformity Control, programmable USB hub (DisplaySync Pro), GammaComp (14-bit Look Up Table and 16-bit processing), Integrated USB Hub (2 up; 3 down), NaViSet® and NaViSet® Administrator compatible, Overdrive, Picture-in-Picture Mode, PiP/PbP, Programmable 3D LUT, Quick release Stand and Handle, Rapid Response Technology, RapidMotion, Self Diagnostics, sRGB and 6-axis-colour-control, TileComp, TileMatrix, TORO™ Design, Viewing Angle Stability, Windows 7 compatible



Energy Efficiency

Carbon Footprint Meter / Carbon Savings Meter

Ecological Materials

Efficient mechanical design for minimised packaging; Minimal use of harmful material

Ecological Standards

Energy Star 5.0; ErP compliant; TCO 5.0

Technical Specification NEC MultiSync® PA231W	
DISPLAY	
Panel Technology	IPS TFT
Screen Size [inch/cm]	23 / 58.4
Pixel Pitch [mm]	0.265
Brightness (typ.) [cd/m ²]	270
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); 14 (8 white / black; 6 black / white)
Colours [Mio.]	16.77 (8-bit per colour)
Colour Gamut Size / Coverage	75% AdobeRGB
SYNCHRONISATION RATE	
Horizontal Frequency [kHz]	31.5 - 83
Vertical Frequency [Hz]	50 - 85
RESOLUTION	
Optimum Resolution	1920 x 1080 at 60 Hz
Supported	1920 x 1080p; 1280 x 1024; 1280 x 960; 1280 x 720p; 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	2 x DVI-D; 1 x DisplayPort
Analog	1 x D-sub 15 pin
ELECTRICAL	
Power Consumption on Mode [W]	40 (typ.); 46 (max.); 37 (Eco Mode 2)
Power Savings Mode [W]	1
Power Supply	100-240 V; 0.79 A/0.33 A; integrated power supply
ENVIRONMENTAL CONDITIONS	
Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	30 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]	16.2
Dimensions (W x H x D) [mm]	543.6 x 337.4 - 487.4 x 227.6 (Landscape mode)
Weight [kg]	10.2
VESA Mounting [mm]	100 x 100 (4 points); 200 x 100 (5 points)
ADDITIONAL FEATURES	
Colour Versions	Silver Front Bezel, Light Grey Back Cabinet; Black Front Bezel, Black Back Cabinet
Cable Management	yes
Kensington security slot	yes
Plug and Play	VESA DDC/CI; EDID Standard; VESA DDC2B
Audio	Option: MultiSync® Soundbar 90
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; PiP; Sharpness; USB
Shipping Content	Monitor; Power Cable; Signal Cable DisplayPort; CD-ROM; Sales Office List; User Manual Signal Cable: VGA - VGA; DVI-D - DVI-D
Safety and Ergonomics	CE; ErP; TCO 5.0; TÜV Ergonomics; TÜV GS; C-tick; Energy Star 5.0; FCC Class B; PCT/Gost; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR III; PCBC/B-mark; PSB; RoHS
Warranty	3 years warranty incl. backlight