# NEC MultiSync® P232W

Order Code: 60003323, 60003324 (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

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

**Future-proof Connectivity -** as well as easier support of high resolution, IPS colour signal is assured with DisplayPort and HDMI connectors.

**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.

**Sustainable Office -** low power consumption with LED backlight and ambient light sensor.

## 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, AutoBright, CableComp with Sync Continuity Detection, DDC/CI compatible, Digital Uniformity Control (ColorComp), Direct Brightness and Contrast, EcoModes, GammaComp (14-bit Look Up Table and 16-bit processing), Integrated USB Hub (2 up; 3 down), LED Backlight Technology, 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, Windows 7 compatible

| | |
|---|---|
| **Energy Efficiency** | Carbon Footprint Meter / Carbon Savings Meter |
| **Ecological Materials** | Efficient mechanical design for minimised packaging; Eliminate waste and landfill implications associated with 35mm media; Minimal use of harmful material |
| **Ecological Standards** | Energy Star 5.0; ErP compliant; TCO 5.2 |

### Technical Specification NEC MultiSync® P232W

| DISPLAY | |
|---|---|
| Panel Technology | IPS TFT |
| Screen Size [inch/cm] | 23 / 58.4 |
| Pixel Pitch [mm] | 0.265 |
| Brightness (typ.) [cd/m$^2$] | 250 |
| 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: | 1 x DVI-D; 1 x HDMI; 1 x DisplayPort |
| Analog: | 1 x D-sub 15 pin |
| **ELECTRICAL** | |
| Power Consumption on Mode [W] | 23 (typ.); 29 (max.); 18 (Eco Mode 2) |
| Power Savings Mode [W] | 1 |
| Power Supply | 100-240 V; 0.94 A/0.35 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] | 9.2 |
| 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 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; 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 5.2; 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 |

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**NEC**