



Philips  
LCD widescreen monitor

56cm/22" wide  
WSXGA

220WS8FB

# Vista-ready widescreen for business productivity

Do more, see more on budget! With high resolution, legible text size and a larger viewing area, this ultra-slim Philips 220WS8 boosts productivity with better viewing comfort - and is ready for immediate or future upgrade to Windows Vista.

## Designed for maximum productivity

- Big, widescreen ideal for viewing two A4 pages side-by-side
- Display more images and content without scrolling

## Outstanding front of screen performance

- 5ms fast response time
- WSXGA+, wide format 1680x1050 resolution for sharper display
- DVI-D input and HDCP support

## Great convenience

- Dual input accepts both analog VGA and digital DVI signals
- Embedded power supply eliminates external power adaptors
- Adjust display settings with hot key or on-screen controls

## Best total cost of ownership solution

- Complies with RoHS standards to care for the environment
- The lowest power consumption in the industry
- Empowered for Windows Vista

**PHILIPS**

# Highlights

## Widescreen

A big, widescreen display that improves productivity by displaying two A4 pages side-by-side.

## Large viewing area

Viewing area is the visible portion of a monitor screen available for displaying data.

## Windows Vista ready

Philips Vista-ready monitors are empowered for vibrant, exciting display of this new, visually sophisticated and demanding Windows operating system, designed to enhance your entertainment experience, make you more productive and help you control your computing experience at home and in the office, making viewing, finding and organizing information for work or play quick, efficient and easy.

## Compliant with RoHS standards

Philips designs and produces display products in compliance with strict Restriction of Hazardous Substances (RoHS) standards that restrict lead and other toxic substances that can harm the environment.

## Lowest power consumption

Lower power consumption reduces the energy required to operate a device, saving its owner operating costs and conserving power.

## WSXGA+, wide format 1680x1050

Wide format, super extended graphics array is a display specification that is capable of displaying 1680 x 1050 resolution or approximately 1.7 million pixels.

## 5ms on/off response time

On-Off response time is the period required for a liquid crystal cell to go from active (black) to inactive (white) and back to active (black) again. It is measured in milliseconds. Faster is better: Lower response time means faster transitions and, therefore, results in fewer visible image artifacts in the display of transition of texts and graphics. On-Off response time is a more important measure in the display of business content like documents, graphs and photos.

## HDCP ready

High-Bandwidth Digital Content Protection (HDCP) is a copyright protection system that is incorporated into the DVI connector. It helps stop unauthorized duplication of copyrighted content. HDCP allows you to play protected content media such as movies and

concerts. It checks the signal to prevent piracy, allowing only legal copies of content to display.

## Dual input



VGA connector



DVI connector

Dual input provides connectors to accommodate input of both analog VGA and digital DVI signals.

## Embedded power supply

An embedded power supply is a power adaptor built into the body of a display device that replaces a bulky external power adaptor.

## User friendly hot key and OSD

The user friendly hot key and on-screen display controls are dual systems for conveniently fine-tuning display settings to meet a variety of needs. Press the hot key on your monitor's frame for automatic picture, quick contrast and brightness control or use the on-screen display feature to fine-tune your display settings.

# Specifications

## Connectivity

- Signal Input: VGA (Analog ), DVI-D
- Sync Input: Composite Sync, Separate Sync, Sync on Green
- Sync input impedance: 2.2k ohm
- Video input impedance: 75 ohm
- Video input signal levels: 0.7 Vpp

## Picture/Display

- Panel Size: 22" / 55.9 cm
- Aspect ratio: 16:10
- LCD panel type: 1680 x 1050 pixels, Anti-glare polarizer, RGB vertical stripe
- Pixel pitch: 0.282 x 0.282 mm
- Optimum resolution: 1680 x 1050 @ 60Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 1000:1
- Response time (typical): 5 ms
- Viewing angle: 160° (H) / 160° (V), @ C/R > 10
- Horizontal Scanning Frequency: 30 - 93 kHz
- Vertical Scanning Frequency: 56 - 76 Hz
- Maximum Resolution: 1680 x 1050 @ 60Hz
- Effective viewing area: 474 x 296 mm
- sRGB
- Video Dot Rate: 205 MHz
- White Chromaticity, 6500K: x = 0.313 / y = 0.329
- White Chromaticity, 9300K: x = 0.283 / y = 0.297

## Convenience

- Plug & Play Compatibility: DDC/CI, sRGB, Windows 98/ME/2000/XP/Vista
- User convenience: On-screen Display
- Monitor Controls: Auto, Brightness (Left), Contrast (Right), Menu, Power On/Off
- Regulatory approvals: CE Mark, Energy Star, FCC Class B, SEMKO, TCO '03, TÜV/GS, TÜV Ergo, UL/cUL
- OSD Languages: English, French, German, Italian, Russian, Spanish
- Other convenience: Kensington lock compatible

- Tilt: -5° to 25°
- VESA Mount: 100 x 100 mm

## Power

- Power supply: Built-in, 100-240VAC, 50/60Hz
- Consumption (On mode): < 45 W (Typical)
- Power LED indicator: Stand by/sleep - Amber, Operation - green
- Complies with: Energy Star
- Consumption (Off Mode): < 1 W

## Dimensions

- Box depth: 472 mm
- Set width (with stand): 513.76 mm
- Box height: 174 mm
- Set width (with stand) (inch): 20.2 inch
- Box width: 565 mm
- Set height (with stand): 416.2 mm
- Set height (with stand) (inch): 16.4 inch
- Set Width: 513.76 mm
- Set depth (with stand): 213.59 mm
- Set Height: 336.10 mm
- Set Depth: 67.34 mm
- Set depth (with stand) (inch): 8.4 inch
- Set Width (inch): 20.2 inch
- Temperature range (operation): 5°C to 35°C
- Set Height (inch): 13.2 inch
- Temperature range (storage): -20°C to 60°C
- Set Depth (inch): 2.7 inch
- Box depth (inch): 18.6 inch
- Box height (inch): 6.9 inch
- Box width (inch): 22.2 inch
- Product weight (+stand): 5.6 kg
- Product weight (+stand) (lb): 12.4 lb
- Weight incl. Packaging: 7.4 kg
- Weight incl. Packaging (lb): 16.3 lb
- Relative humidity: 20% - 80%
- MTBF: 50,000 hrs

## Accessories

- Included accessories: AC Power Cord, VGA cable
- User Manual



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