



Philips  
LCD widescreen monitor

48cm/19" wide  
WXGA+

190EW9FB

## Ideal widescreen with cost-performance value

This Vista-ready 190EW9 delivers the simple, straight forward and reliable widescreen display performance you need without costly extras that strain your budget and without compromising on quality.

### Best Value for Money

- 5ms fast response time
- Widescreen LCD displays more content without scrolling
- Complies with RoHS standards to care for the environment
- Empowered for Windows Vista
- Energy Star for energy efficiency and low power consumption

### Great convenience

- Easy picture format control switching in wide and 4:3 format
- Screen tilts to your ideal, individualized viewing angle
- sRGB ensures color matching between display and printouts
- Embedded power supply eliminates external power adaptors
- Kensington anti-theft lock-ready for added security

# PHILIPS

# Highlights

## WideScreen Design

This wide screen design employs a wider aspect ratio to enable it to display more information.

## 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.

## 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.

## Energy Star



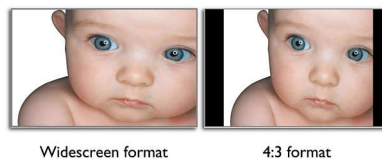
Energy Star-labeled home electrical products are designed to use less energy - saving you

money while reducing environmental pollution. In fact, Energy Star-compliant products consume less than 1 watt of power while in standby mode. As an Energy Star partner, Philips develops products that meet the Energy Star guidelines for energy efficiency. This is achieved by having low standby power consumption through innovatively designed standby circuitry and stringent selection of components made with high efficiency materials.

## 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.

## Easy picture format control



Philips easy picture format control on OSD is to switch from the 4:3 aspect ratio to the widescreen mode and back again to match the display's aspect ratio with your content for working with wide documents without scrolling or viewing widescreen media in the widescreen mode and distortion-free, native mode display of 4:3 ratio content.

## Adjustable tilt

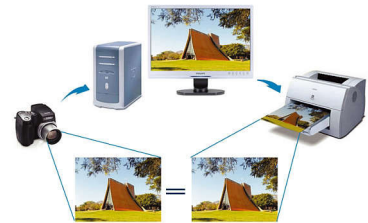
Adjustable tilt is backward and forward movement of a screen on its base to achieve

custom positioning for an ideal viewing angle and more comfort for people who spend long hours working on the computer.

## 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.

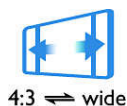
## sRGB ready



sRGB is an industry standard that ensures the best possible match between the colors displayed on your screen and those in your printouts.

## Kensington lock compatible

Small apertures built into the display's frame for use with a locking device that secures a display to a fixed object for added protection against theft.



# Specifications

## Connectivity

- Signal Input: VGA (Analog)
- 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: 19"/ 48.1 cm
- Aspect ratio: 16:10
- LCD panel type: 1440 x 900 pixels, Anti-glare polarizer, RGB vertical stripe
- Pixel pitch: 0.2835 x 0.2835 mm
- Optimum resolution: 1440 x 900 @ 60 Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 800:1
- Response time (typical): 5 ms
- Viewing angle: 160° (H) / 160° (V), @ C/R > 10
- Horizontal Scanning Frequency: 30 - 83 kHz
- Vertical Scanning Frequency: 56 - 75 Hz
- Maximum Resolution: 1440 x 900 @ 75 Hz
- Effective viewing area: 408.24 x 255.15 mm
- sRGB
- Video Dot Rate: 165 MHz

## Convenience

- Plug & Play Compatibility: DDC/CI, sRGB, Windows 98, Windows 2000, Windows XP, Windows Vista
- User convenience: On-screen Display
- Monitor Controls: Auto (Back), Contrast (down), Brightness (Up), Menu (OK), Power On/Off
- Regulatory approvals: CE Mark, Energy Star, FCC Class B, UL/cUL
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish, Turkish

- Other convenience: Kensington lock compatible
- Tilt: -4° to 15°
- VESA Mount: 100 x 100 mm

## Power

- Power supply: Built-in, 100-240VAC, 50/60Hz
- Consumption (On mode): < 35 W
- Power LED indicator: Operation - green, Stand by/sleep - Amber
- Complies with: Energy Star
- Consumption (Off Mode): < 1 W

## Dimensions

- Box depth: 138 mm
- Set width (with stand): 437 mm
- Box height: 375 mm
- Set width (with stand) (inch): 17.2 inch
- Box width: 490 mm
- Set height (with stand): 308 mm
- Set height (with stand) (inch): 12.1 inch
- Set Width: 437 mm
- Set depth (with stand): 189 mm
- Set Height: 303 mm
- Set Depth: 62 mm
- Set depth (with stand) (inch): 7.44 inch
- Set Width (inch): 17.2 inch
- Temperature range (operation): 0°C to 40°C
- Set Height (inch): 11.9 inch
- Temperature range (storage): -20°C to 60°C
- Set Depth (inch): 2.44 inch
- Box depth (inch): 5.4 inch
- Box height (inch): 14.8 inch
- Box width (inch): 19.3 inch
- Product weight (+stand): 3.65 kg
- Product weight (+stand) (lb): 8.04 lb
- Weight incl. Packaging: 4.99 kg
- Weight incl. Packaging (lb): 11.0
- Relative humidity: 20% - 90%
- MTBF: 50,000 hrs



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