



Philips Brilliance  
LCD widescreen monitor

48cm/19" wide  
WSXGA+

190BW9CB

## High resolution ergonomic widescreen for business

Better wide screen business display: 1680 x 1050 high resolution Philips Brilliance 190BW9 delivering the best-ever LCD picture quality, compact ergo base, built-in sound, Vista-ready, Eco-friendly design to get your job done.

### Designed for maximum productivity

- TrueVision: Laboratory quality display performance
- Empowered for Windows Vista

### Outstanding front of screen performance

- SmartContrast: For incredible rich black details
- SmartImage: Optimized user-friendly display experience
- 1680x1050 display for increased productivity

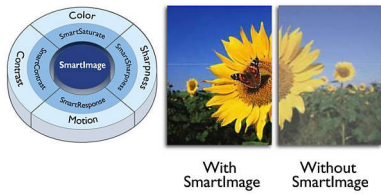
### Great convenience

- Dual input accepts both analog VGA and digital DVI signals
- Easy picture format control switching in wide and 4:3 format
- Tilt, swivel and height-adjust for an ideal viewing position
- Hassle-free display performance tuning with SmartControl II
- USB port for convenient peripheral connections
- Built in stereo audio for multimedia experience

# PHILIPS

# Highlights

## SmartImage



SmartImage is an exclusive leading edge Philips technology that analyzes the content displayed on your screen and gives you optimized display performance. This user friendly interface allows you to select various modes like Office, Image, Entertainment, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimizes the contrast, color saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time with the press of a single button!

## TrueVision



TrueVision is industry-leading, proprietary Philips testing and algorithm technology for monitor adjustment and fine tuning, an extensive process that ensures ultimate display performance in compliance with a standard four-times more stringent than Microsoft's Vista requirements from each and every monitor that leaves the factory - not just a few review samples. Only Philips goes to these lengths to deliver this exacting level of color accuracy and display quality in every new monitor.

## 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.

## SmartContrast



SmartContrast is a Philips technology that analyzes the contents you are displaying, automatically adjusting colors and controlling backlight intensity to dynamically enhance contrast for the best digital images and videos or when playing games where dark hues are displayed. When Economy mode is selected, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

## Dual input



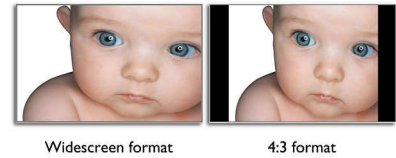
Dual input provides connectors to accommodate input of both analog VGA and digital DVI signals.

## SmartControl II

SmartControl II is monitor-based software with an easy-to-use on-screen graphic interface that guides you through fine-tuning resolution, color calibration and other display settings including brightness, contrast, clock &

phase, position, RGB, white point and - on models with onboard speakers - volume adjustments.

## 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.

## Compact Ergo Base



The Compact Ergo Base is a people-friendly Philips monitor base that tilts, swivels and height-adjusts so each user can position the monitor for maximum viewing comfort and efficiency.



# Specifications

## Connectivity

- Audio output: Stereo Audio (3.5 mm jack) 1x
- Signal Input: VGA (Analog), DVI-D, PC Audio in
- USB: USB 2.0 x 1
- Sync Input: Composite Sync, Separate Sync, Sync on Green

## Picture/Display

- Panel Size: 19 inch / 48.26 cm
- Aspect ratio: 16:10
- LCD panel type: TFT-LCD
- Pixel pitch: 0.243 x 0.243 mm
- Optimum resolution: 1680 x 1050 @ 60 Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast ratio (dynamic): 10000:1
- Response time (typical): 5 ms
- Viewing angle: @ C/R &gt; 5
- Viewing angle (horizontal): 178 degree
- Viewing angle (vertical): 170 degree
- Picture enhancement: SmartImage
- Horizontal Scanning Frequency: 30 - 83 kHz
- Vertical Scanning Frequency: 56 - 75 Hz
- sRGB

## Convenience

- Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 98, Windows 2000, Windows XP, Windows Vista
- Built-in Audio: 1 W x 2
- User convenience: SmartControl II, SmartManage enabled, Picture format selection, On-screen Display
- Monitor Controls: Auto (Back), Brightness (Up), Menu (OK), Power On/Off, SmartImage, Volume control (Down)
- 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, Simplified Chinese, Spanish, Portuguese

- Other convenience: Kensington lock compatible
- Swivel: +/- 45°
- Tilt: -5° to 20°
- Height Adjustment: 70 mm
- VESA Mount: 100 x 100 mm

## Power

- Power supply: Built-in, 100-240VAC, 50/60Hz
- Consumption (On mode): < 36W (typical)
- Power LED indicator: Operation - Blue, Stand by/sleep -blue(blinking)
- Complies with: Energy Star
- Consumption (Off Mode): < 0.8 W
- Consumption (economy mode): 27 W

## Dimensions

- Box depth: 172 mm
- Set width (with stand): 436 mm
- Box height: 485 mm
- Set width (with stand) (inch): 17.2 inch
- Box width: 508 mm
- Set height (with stand): 421 mm
- Set height (with stand) (inch): 16.6 inch
- Set Width: 436 mm
- Set depth (with stand): 201 mm
- Set Height: 305 mm
- Set Depth: 68 mm
- Set depth (with stand) (inch): 7.91 inch
- Set Width (inch): 17.2 inch
- Temperature range (operation): 0°C to 40°C
- Set Height (inch): 12.0 inch
- Temperature range (storage): -20°C to 60°C
- Set Depth (inch): 2.68 inch
- Box depth (inch): 6.77 inch
- Box height (inch): 19.1 inch
- Box width (inch): 20.0 inch
- Product weight (+stand): 4.45 kg
- Product weight (+stand) (lb): 9.81 lb
- Weight incl. Packaging: 6.1 kg
- Weight incl. Packaging (lb): 13.4
- Relative humidity: 20% - 80%
- MTBF: 50,000 (excl. CCFL 40,000) hrs



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