



Philips Brilliance
LCD widescreen monitor

56cm/22" wide
WSXGA+

220CW9FW

Big stylish wide display for home computainment

Eye-pleasing big, wide display: Stylish design and a host of smart features that elevate LCD viewing to new heights of picture perfect performance for every kind of content make 220CW9 your best computainment choice.

Outstanding front of screen performance

- Fast response time up to 2ms
- SmartContrast12000:1 for incredible rich black details
- SmartImage: Optimized user-friendly display experience
- TrueVision: Laboratory quality display performance
- DVI-D input and HDCP support

Green design

- Complies with TCO'06 safety and visual ergonomics standard

Designed for elegance

- Glossy finish to enhance your decor

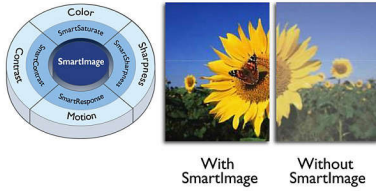
Great convenience

- Dual input accepts both analog VGA and digital DVI signals
- One-touch format switching between wide and 4:3 ratios
- Hassle-free display performance tuning with SmartControl II
- USB port for convenient peripheral connections

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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!

2ms GtG response time



SmartResponse is an exclusive Philips overdrive technology that when turned on, automatically adjusts response times to specific application requirements like gaming and movies which

require faster response times in order to produce judder, time-lag and ghost image free images

SmartContrast ratio 12000:1



You want the LCD flat display with the highest contrast and most vibrant images. Philips advanced video processing combined with unique extreme dimming and backlight boosting technology results in vibrant images. SmartContrast will increase the contrast with excellent blacklevel and accurate rendition of dark shades and colors. It gives a bright, lifelike picture with high contrast and vibrant colors.

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.

Dual input



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

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.

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.



Specifications

Connectivity

- Signal Input: VGA (Analog), DVI-D
- USB: USB 2.0 x 1
- 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/m²
- Display colors: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast ratio (dynamic): 12000:1
- Response time (typical): 5 ms
- Viewing angle: 160° (H) / 160° (V), @ C/R > 10
- Picture enhancement: SmartImage
- SmartResponse: 2 ms (Gray to Gray)
- Horizontal Scanning Frequency: 30 - 83 kHz
- Vertical Scanning Frequency: 56 - 75 Hz
- Maximum Resolution: 1680 x 1050 @ 75Hz
- Effective viewing area: 474 x 296 mm
- sRGB
- Video Dot Rate: 165 MHz

Convenience

- Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 98, Windows 2000, Windows XP, Windows Vista
- User convenience: SmartControl II, Picture format selection, On-screen Display
- Monitor Controls: Auto (Back), Auto picture, Brightness Control, Input (Down), Menu (OK), Power On/Off, SmartImage
- Regulatory approvals: CE Mark, Energy Star, FCC Class B, SEMKO, UL/cUL, TCO '06

- OSD Languages: English, French, German, Italian, Russian, Simplified Chinese, Spanish, Portuguese
- Other convenience: Kensington lock compatible
- Tilt: -5° to 20°

Power

- Power supply: Built-in, 100-240VAC, 50/60Hz
- Consumption (On mode): < 45 W (Typical)
- Power LED indicator: Operation - Blue, Stand by/ sleep -blue(blinking)
- Complies with: Energy Star
- Consumption (Off Mode): < 0.8 W
- Consumption (economy mode): 34 W

Dimensions

- Box depth: 130 mm
- Set width (with stand): 508 mm
- Box height: 482 mm
- Set width (with stand) (inch): 20.0 inch
- Box width: 562 mm
- Set height (with stand): 425 mm
- Set height (with stand) (inch): 16.7 inch
- Set Width: 508 mm
- Set depth (with stand): 201 mm
- Set Height: 344 mm
- Set Depth: 69 mm
- Set depth (with stand) (inch): 7.91 inch
- Set Width (inch): 20.0 inch
- Temperature range (operation): 0°C to 40°C
- Set Height (inch): 13.5 inch
- Temperature range (storage): -20°C to 60°C
- Set Depth (inch): 2.72 inch
- Box depth (inch): 5.1 inch
- Box height (inch): 18.98 inch
- Box width (inch): 22.1 inch
- Product weight (+stand): 4.4 kg
- Product weight (+stand) (lb): 9.7 lb
- Weight incl. Packaging: 6.24 kg
- Weight incl. Packaging (lb): 13.76
- Relative humidity: 20% - 80%
- MTBF: 50,000 hrs



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