



Philips  
CRT monitor

19"  
real flat UXGA

109B65



## superb computainment display, lead-free design

With LightFrame™ for the best-ever sharpness and brightness, high resolution UXGA performance, a big screen that displays more without scrolling and lead-free design, this 109B6 CRT monitor delivers an exciting computainment experience.

### Outstanding front of screen performance

- LightFrame™ delivers best-ever sharpness and brightness
- UXGA, 1600x1200 resolution for sharper display
- Easy-on-the-eyes high-bright, high-contrast tube
- Real flat CRT for natural, distortion and glare-free display
- sRGB ensures color matching between display and printouts

### Great convenience

- Compatibility with PC, Mac and workstation platforms
- Quick and easy to personalize On-Screen-Display control
- Easy, user friendly plug-and-play installation
- Display more images and content without scrolling

### Green design

- Lower power consumption than the industry average
- TCO'03 guarantees the highest safety and ergonomic standards
- Environmentally responsible Energy Star partner

**PHILIPS**

## Technical specifications

### Picture/Display

- **Display screen type:** Real Flat picture tube
- **Panel Size:** 19"/ 46 cm
- **Phosphor:** P22
- **Recommended display area(mm):** 355 x 265 mm
- **Recommended Display Area(inch):** 14" x 10.4"
- **Dot pitch:** 0.25
- **Dot Pitch (horizontal):** 0.21
- **White Chromaticity, 5500K:** x = 0.332 / y = 0.347
- **White Chromaticity, 6500K:** x = 0.313 / y = 0.329
- **White Chromaticity, 9300K:** x = 0.283 / y = 0.297
- **Maximum Resolution:** 1920 x 1440 @ 64 Hz
- **Recommended Resolution:** 1600 x 1200 @ 75 Hz
- **Factory Preset Modes:** 8 modes
- **Factory Preset Mode:** 640 x 480 @ 85Hz, 720 x 400 @ 70 Hz, 800 x 600 @ 85 Hz, 1024 x 768 @ 85 Hz, 1152 x 864 @ 70 Hz, 1280 x 1024 @ 75 Hz, 1280 x 1024 @ 85 Hz, 1600 x 1200 @ 75 Hz
- **Factory Preload Modes:** 24 modes
- **Video Dot Rate:** 250 MHz
- **Horizontal Scanning Frequency:** 30 - 97 kHz
- **Vertical Scanning Frequency:** 50 - 160 Hz
- **Recommended Refresh Rate:** 75
- **Screen enhancement:** Anti-glare Polarizer, Anti-Reflection, Anti-Static, High Brightness, High Contrast
- **LightFrame™**
- sRGB
- GTF

### Connectivity

- **Cables:** D-sub Video Cable, Power Cord
- **Sync input impedance:** 2.2k
- **Video input impedance:** 75
- **Video input signal levels:** 0.7 Vpp

- **Video Sync Input Signal:** Composite Sync, Separate Sync, Sync on Green
- **Video Sync Polarities:** Positive and Negative
- **Cable Connection:** AC Power in

### Convenience

- **Convenience Enhancements:** Menu Languages, On-screen Display
- **Monitor Controls:** Brightness Control, Contrast Control, Left/Right, Menu, LightFrame, Power On/Off, Up/Down
- **OSD Languages:** English, French, German, Italian, Spanish, Portuguese, Korean, Simplified Chinese
- **Plug & Play Compatibility:** DDC 2B, sRGB, Windows 98/ME/2000/XP
- **Regulatory Approvals:** CE Mark, FCC-B, UL, CSA, SEMKO, TÜV/GS, TÜV Ergo, FDA, BSMI, GOST, C-Tick, E2000, NUTEK, Energy Star, TCO '99
- **Swivel:** +/- 90°
- **Tilt:** -5° to 25°

### Accessories

- **Included Accessories:** AC Power Cord
- User Manual

### Dimensions

- **Dimensions (with base) (W x H x D):** 440 x 433 x 449
- **Temperature range (operation):** 0°C to 35°C
- **Temperature range (storage):** -25°C to 65°C
- **Weight:** 20

### Power

- **Complies with:** E2000, Energy Star, NUTEK
- **Consumption:** 70 W (Typical)
- **Off Mode:** I W
- **Power LED indicator:** Off - Amber, Operation - green
- **Power supply:** Built-in

## Product highlights

### LightFrame™

An intelligent and revolutionary technology for enhancing monitor's brightness, sharpness, contrast, and color. Images enhanced by LightFrame™ are lively, realistic, clear, attractive and colorful.

### UXGA, 1600 x 1200 resolution

For graphics monitors, the screen resolution signifies the number of dots (pixels) on the entire screen. For example, a 1600-by-1200 pixel screen is capable of displaying 1600 distinct dots on each of 1200 lines, or about 2 million pixels. This ensures a better display performance and accurate color display effect.

### High-bright-high-contrast tube

A CRT tube designed to increase display brightness and contrast by increasing the CRT ray gun's beam current.

### Real flat CRT display

Philips advanced flat CRT technology reduces glare and reflection more efficiently than a conventional CRT. The special high-bright, high-contrast shadow mask helps maintain sharper focus and eliminates 'color blooming' compared to standard tubes. It displays images on a monitor that look like images on paper: Viewing the image is more comfortable. Straight lines are straight. Finding a reflection-free viewing position is much easier. This adds up to reduced eyestrain for a comfortable viewing experience.

### sRGB ready

Calibrated RGB that is optimized for the vast majority of computer peripherals, monitors, operating systems and browsers, allowing accurate color mapping with very little data overhead.

### Platform compatibility

The ability to work with a variety of platforms; Philips monitors are compatible to connect with PCs and workstation by employing a VGA connection and connect with Macintosh.

### OSD On-Screen-Display control

An on-screen panel for adjusting a monitor. The OSD is used for contrast, brightness, horizontal, vertical positioning and other monitor adjustments.

### Easy plug-and-play

Plug-and-play is a peripheral connectivity standard. A plug and play display device can be connected to a PC and operate without requiring user intervention to adjust complicated settings.

### Large viewing area

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

### Lead-free

Lead-free display products are designed and produced in compliance with strict European Community Restriction of Hazardous Substances (RoHS) standards that restrict lead and other toxic substances that can harm the environment.

### Energy efficiency

Reduction of the electrical power required to operate a device to achieve real savings.

### TCO '03 compliance

A TCO (Swedish Confederation of Professional Employees) standard even more stringent than MPR-II for safety and ergonomics, especially concerning alternating electric fields (AEF).

### Energy Star partner

A manufacturer in compliance with power conservation requirements set forth by the Environmental Protection Agency of the U.S. government.



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