

FCC ID: A3KM092



# About This Electronic User's Manual

[Safety and Troubleshooting Information](#) • [About This Electronic User's Manual](#) • [Product Information](#) • [Installing Your Monitor](#) • [On Screen Display](#) • [Worldwide Philips Consumer Information Centers](#) • [Glossary](#) • [Download Option](#)

## About This Guide

This electronic user's guide is intended for anyone who uses the Philips 109P Color Monitor. It describes the monitor's features, setup, operation and all other information, which is the same exact information described in our printed version.

The sections are as follows:

- [Safety and Troubleshooting Information](#) provides tips and solutions for common problems, and other related information you may need.
- [About This Electronic User's Manual](#) gives overview of what information are included as well as notation icon descriptions and other documentation you can refer to.
- [Product Information](#) gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- [Installing Your Monitor](#) describes the initial setup process and gives an overview of how to use the monitor.
- [On Screen Display](#) provides information on adjusting the settings on your monitor.
- [Worldwide Philips Consumer Information Centers](#) is a list of worldwide Philips consumer information centers along with the help desk phone numbers and information on the applicable warranty of your product..
- [Glossary](#) provides more information for technical terms.
- [Download Option](#) allows you to consumer keep a copy of the entire manual in your hard drive.

## Other Documents You May Need

In addition to this *Electronic User's Guide* , you may need to refer to the following documentation:

- *Philips Color Monitor Quick Start Guide* which summarizes the steps for setting up the monitor. This is included with this product.

## Notational Descriptions

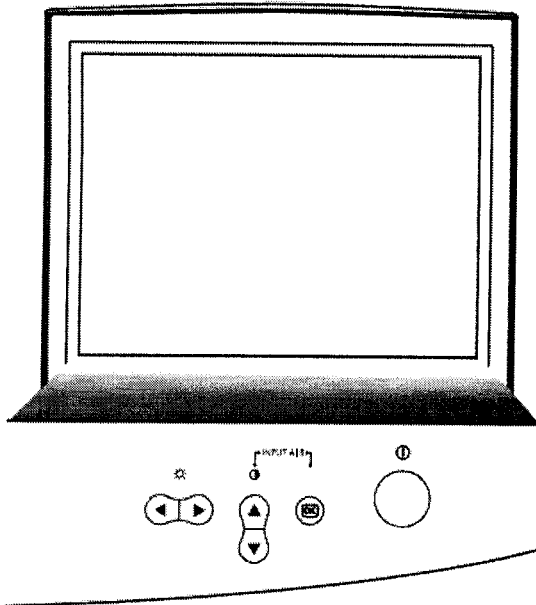
The following subsections describe notational conventions used in this document.

## Notes, Cautions, and Warnings

# Installing your Monitor

Front View • Rear View • PCUH411 USB Hub (option)

## Front View



Power button switches your monitor on.



OK button which when pressed will take you to the OSD controls



Contrast hotkey. When the UP arrow is pressed, the adjustment controls for the CONTRAST will show up.



UP and DOWN buttons are used when adjusting the OSD of your monitor



Brightness hotkey. When both the LEFT and RIGHT arrows are pressed at the same time, then the adjustment controls for BRIGHTNESS will show up.

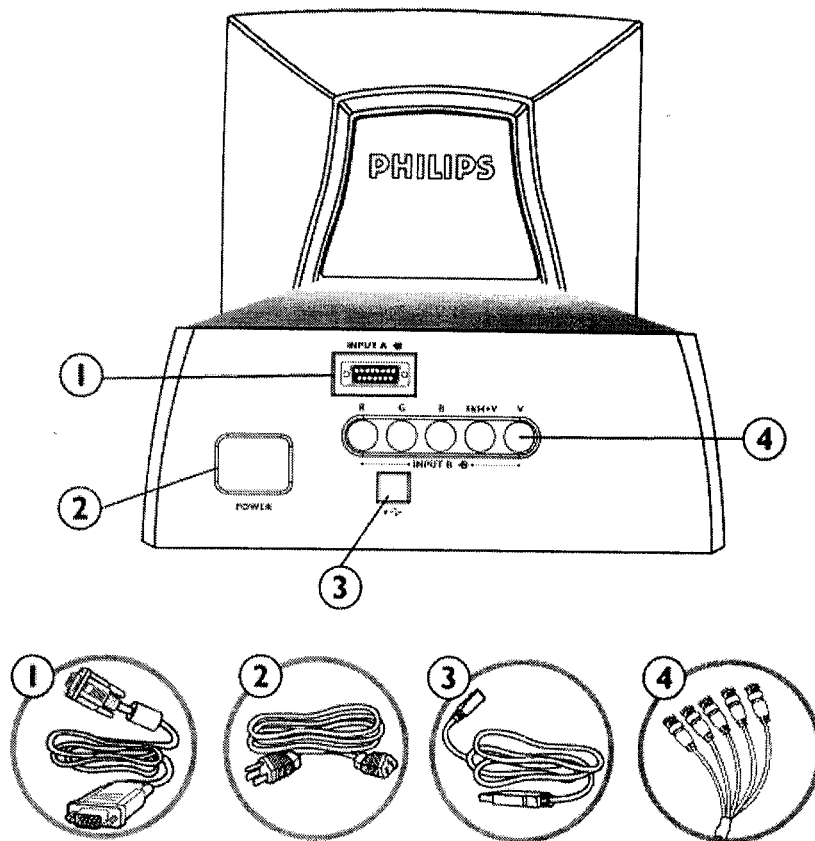


LEFT and RIGHT buttons, like the UP and DOWN buttons, are also used in adjusting the OSD of your monitor.



By pressing both the UP and OK buttons, you can easily access the Input Signals A and/or B.

## Rear View



**D-Sub Port** - Attach the D-Sub connector that comes with your monitor here. Other end connects to your PC.

**Power in** - Attach power cable here.

**USB Port** - Attach your USB Upstream cable here. Connect the other end to your USB hub or your PC's USB connector. *(Not available on all models.)*

**BNC Connectors** - Attach the connectors here to get the best video performance from your monitor.

# Product Information

• 19-inch (18.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen perfor  
 • Autoscan covers horizontal frequencies up to 107 kHz offering a maximum resolution of 1920 x 1440  
 • Flat aperture grille CRT with high-resolution 0.25 mm stripe pitch.  
 • Auto Calibrate extends the useful life of the monitor by automatically adjusting color and luminance to  
 • Large screen display in a small footprint: World's shortest 19-inch Flat monitor with maximum depth of  
 • Outstanding ease of use thanks to CustoMax® monitor control software via USB  
 • TCO99, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified

## Product Features

### 109P10:

- 19-inch (18.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen perfor
- Autoscan covers horizontal frequencies up to 107 kHz offering a maximum resolution of 1920 x 1440
- Flat aperture grille CRT with high-resolution 0.25 mm stripe pitch.
- Auto Calibrate extends the useful life of the monitor by automatically adjusting color and luminance to
- Large screen display in a small footprint: World's shortest 19-inch Flat monitor with maximum depth of
- Outstanding ease of use thanks to CustoMax® monitor control software via USB
- TCO99, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified

## Technical Specifications\*

- |                            |  |
|----------------------------|--|
| • Size and deflection      | 19 inch / 46 cm ; 90° deflection angle   |
| • Dot pitch / Grille pitch | 0.25 mm  |
| • Horizontal pitch         |  |
| • Tube type                | Aperture grille, flat, high contrast, anti-glare, anti-static, anti reflection, light transmission 41% |
| • Phosphor                 | P22  |
| • Recommended display area | 14.0" x 10.4" / 355 x 265 mm   |
| • Maximum display area     | 14.4" x 10.8" / 365 x 274 mm   |
| • Horizontal scanning      | 30 - 107 KHz   |
| • Vertical scanning        | 50-160 KHz   |
| • Video dot rate           | 261 MHz  |
| • Input impedance          |  |
| - Video                    | 75 ohm   |
| - Sync                     | 2.2 kOhm   |
| • Input signal levels      | 0.7 Vpp  |
|                            | Separate sync  |
| • Sync input signal        |  |
|                            | Composite sync   |
| • Sync polarities          | Positive and negative  |

Chromaticity CIE coordinates:

- at 9300 K degrees       $x = 0.283 / y = 0.297$
- at 6500 K degrees       $x = 0.313 / y = 0.329$
- at 5500 K degrees       $x = 0.332 / y = 0.347$

*\* These information are subject to change without notice.*

## Power Management

Complies with EPA Energy Star and NUTEK specifications

- Typical operation : 120W
- Suspend / Standby < 6W
- Mode :
- Off Mode : < 3W

## Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automat

VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	< 85W	0 %	Green
Stand-by	Blanked	No	Yes	< 15W	86%	Yellow
Suspend	Blanked	Yes	No	< 15W	86%	Yellow
OFF	Blanked	No	No	< 5W	95%	Amber

This monitor is ENERGY STAR® compliant. As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

## Physical Specifications

- Dimensions

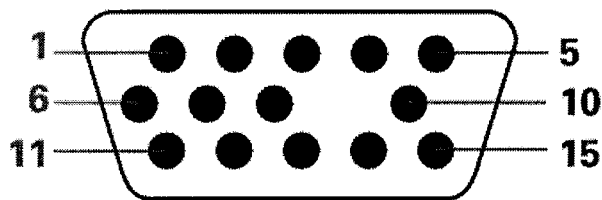
- Weight
- Power supply
- Power consumption
- Temperature (operating)
- Temperature (storage)
- Relative humidity

\* Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300° full white pattern.

\* These information are subject to change without notice.

## Pin Assignment

The 15-pin D-sub connector (male) of the signal cable (IBM systems):



1	Red video input	9	No pin
2	Green video input	10	Logic ground
3	Blue video input	11	Identical output - connected to pin 10
4	Identical output - connected to pin 10	12	Serial data line (SDA)
5	Ground	13	H. Sync / H+V
6	Red video ground	14	V. Sync (VCLK for DDC)
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

## Views

Follow the links to see various views of the monitor and its components.

Front View

**Federal Communications Commission (FCC) Notice (U.S. Only)**



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.



**WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE POWER PLUG AND SOCKET ARE EASILY ACCESSIBLE.**

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

**Commission Federale de la Communication (FCC Declaration)**