

Installation and Operating Instructions

Product Information

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Product Features

107P40:

- 17-inch (16.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen performance for use with MACs, PCs .
- Autoscan covers horizontal frequencies up to 97 kHz offering a maximum resolution of 1920 x 1440 with flicker free display of 1024 x 768 up to 115 Hz
- Flat aperture grille CRT with high-resolution 0.25 mm stripe pitch.
- LightFrame™ for brightest and sharpest display of movie and photo windows.
- Multimedia Base and USB Hub option
- [sRGB](#) for true on screen color representation.
- FCC, CE (in selected countries only) and ISO9241, ISO14001 certified

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LightFrame™ for Windows

Introduction

Philips LightFrame™ feature enriches the experience of pictures and video on a Philips CRT (picture tube) monitor. LightFrame™ will boost the brightness and sharpness of photos and videos on the monitor screen.

To control the LightFrame™ feature in your monitor, you have to install the LightFrame™ application which you will find on this CD-ROM.

Note

Philips LightFrame™ will only work with monitors that have been built to use this software. Earlier Philips monitors or other manufacturers' monitors will not work with this special software. It is recommended that you install this software only on a Philips monitor designed to use it. These monitors can be identified by the LightFrame™ logo on the front of the monitor.

This software is not designed for use with LCD flat screen monitors.

LightFrame™ will work with true Windows-based programs and DOS-based programs that operate in a Windows environment. It will not work with DOS-based programs operating only in a DOS environment.

Language Selection

While English is the default language of LightFrame™, the User Interface can be set up to

A: All Philips LightFrame™ 3 monitors display this logo on their front bezel:



Q: How do I use the LightFrame™ 3 control bar that appears at the top my screen?

A: The control bar is another upgrade that helps you run all LightFrame™ 3's neat, new features. The illustration below describes the tasks each button performs.



Accustomed to working with the original LightFrame™ tray icon? No problem: It's still there and can be used to turn LightFrame™ on or off and check LightFrame™ status.

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Technical Specifications*

CRT

- | | |
|----------------------------|---|
| • Size and deflection | 17 inch / 41 cm ; 90° deflection angle |
| • Grille pitch | 0.25 mm |
| • Tube type | Aperture grille, flat, high contrast, high brightness, anti-glare, anti-static, anti reflection, light transmission 38% |
| • Phosphor | B22 |
| • Recommended display area | 12.0" x 9.0" / 306 x 230 mm |

- Maximum display area 12.8" x 9.6" / 325 x 244 mm

SCANNING

- Horizontal scanning 30 - 97 KHz
- Vertical scanning 50-160 Hz

VIDEO

- Video dot rate 203 MHz
- Input impedance
 - Video 75 ohm
 - Sync 2.2 kOhm
- Input signal levels 0.7 Vpp
- Sync input signal Separate sync
- Sync polarities Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

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

sRGB

sRGB is a standard for ensuring correct exchange of colors between different devices (e.g. digital cameras, monitors, printers, scanners, etc.)

Using a standard unified color space, sRGB will help represent pictures taken by an sRGB compatible device correctly on your sRGB enabled Philips monitors. In that way, the colors are calibrated and you can rely on the correctness of the colors shown on your screen.

Important with the use of sRGB is that the brightness and contrast of your monitor is fixed to a predefined setting as well as the color gamut. Therefore it is important to select the sRGB setting in the monitor's OSD.

To do so, open the OSD by pressing the OK button on the front of your monitor. Use the down button to go to Color temperature and press OK again. Then move the down button to go to sRGB and press OK again.

Exit this OSD.

After this, please don't change the brightness or contrast setting of your monitor. If you change either of these, the monitor will exit the sRGB mode and go to a color temperature setting of 6500K.

For more information on sRGB, please visit: www.srgb.com

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

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Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. And if an input from a keyboard, mouse or other input device is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving features:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	Typical 77 W	0 %	Green
OFF	Blanked	No	No	< 2W	97%	Yellow

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.

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Physical Specifications

- Dimensions 15.7" x 16.1" x 16.5" / 399 x 410 x 419 mm (including base)
15.7" x 14.7" x 16.5" / 399 x 373 x 419 mm (excluding base)
- Weight 17.5 kg
- Power supply 90 - 264 VAC, 50/60Hz
- Temperature (operating) 0° to 40°C / 32° to 104°F
- Temperature (storage) -25° to +65°C / -13° to +149°F
- Relative humidity(storage) 5% to 95%

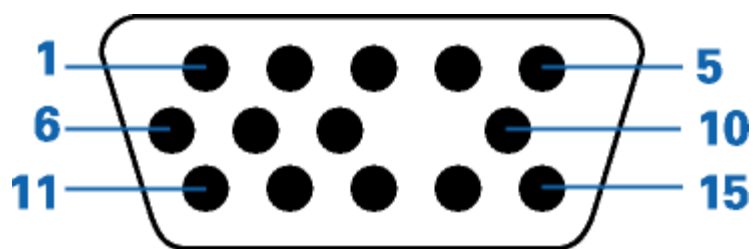
** Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.*

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

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Pin Assignment

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



Pin No.	Assignment		Pin No.	Assignment
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
6	Red video ground		14	V. Sync
7	Green video ground		15	Data clock line (SCL)
8	Blue video ground			

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Views

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

[Front View](#)

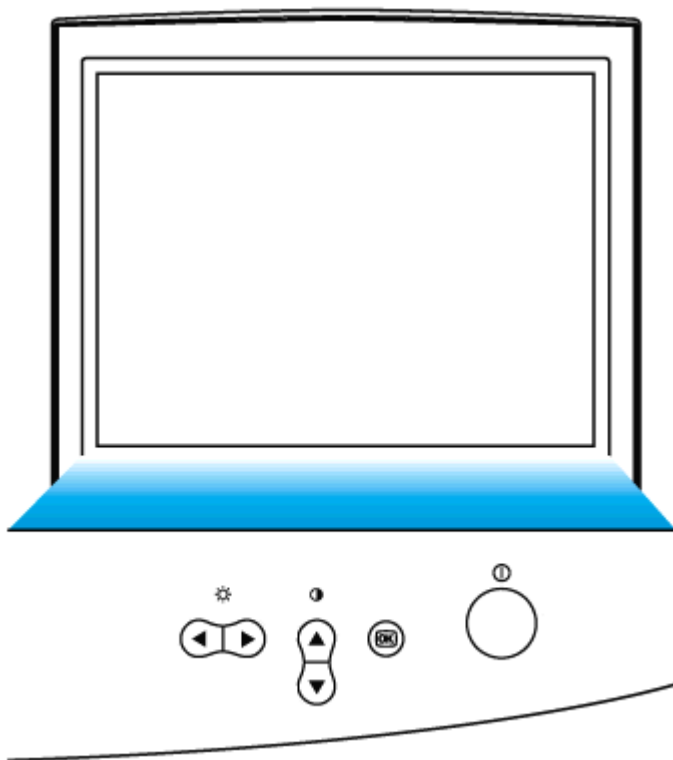
[Rear View](#)

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Installing your Monitor

[Front View](#) • [Rear View](#) • [6G3B11 Multimedia Base \(option\)](#) • [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

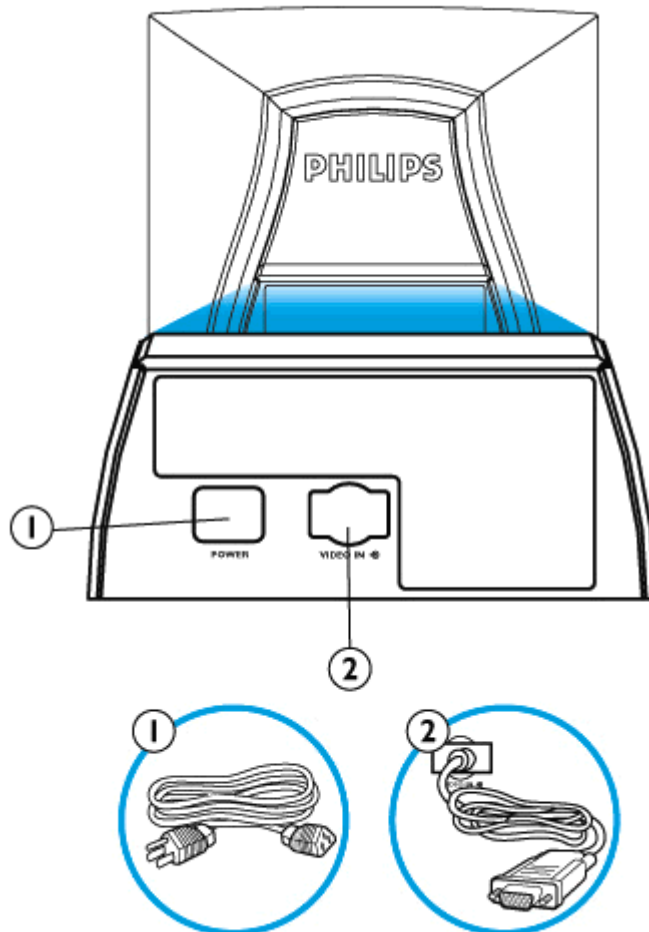


Brightness hotkey. When the RIGHT arrow is pressed, the adjustment controls for BRIGHTNESS will show up.



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

Rear View



1. Power in - attach power cable here.
2. Video In - this is a cable which is already attached to your monitor. Connect the other end of the cable to your PC.

Regulatory Information

[TCO '99 Information](#) • [TCO Environmental Requirements](#) • [CE Declaration of Conformity](#) • [Energy Star Declaration](#) • [Federal Communications Commission \(FCC\) Notice \(U.S. Only\)](#) • [Commission Federale de la Communication \(FCC Declaration\)](#) • [EN 55022 Compliance \(Czech Republic Only\)](#) • [VCCI Class 2 Notice \(Japan Only\)](#) • [MIC Notice \(South Korea Only\)](#) • [Polish Center for Testing and Certification Notice](#) • [North Europe Information \(Nordic Countries\)](#) • [BSMI Notice \(Taiwan Only\)](#) • [Ergonomie Hinweis \(nur Deutschland\)](#) • [Philips End-of-Life Disposal](#) • [Information for UK only](#)

[Safety Precautions and Maintenance](#) • [Troubleshooting](#) • [Other Related Information](#)

TCO '99 Information

• TCO '99 : Available on 107D, 107E ,107T, 107B, 107P, 109S, 109B.



Congratulations! You have just purchased a TCO '99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labeling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labeling of personal computers. The labeling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals,

Energy Star Declaration

PHILIPS

107P4*

This monitor is equipped with a function for saving energy which supports the VESA Display Power Management Signaling (DPMS) standard. This means that the monitor must be connected to a computer which supports VESA DPMS to fulfill the requirements in the NUTEK specification 803299/94. Time settings are adjusted from the system unit by software.

NUTEK	VESA State	LED Indicator	Power Consumption
Normal operation	ON	Green	Typical 77W
Power Saving Alternative2 One Step	OFF	Yellow	< 2 W



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



We recommend you switch off the monitor when it is not in use for quite a long time.

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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.

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.

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Commission Federale de la Communication (FCC Declaration)



Cet équipement a été testé et déclaré conforme aux limites des appareils numériques de class B, aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fournir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.



Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

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EN 55022 Compliance (Czech Republic Only)