

Installation and Operating Instructions

Product Information

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Product Features

109F5

- 19-inch (18.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscans covers horizontal frequencies up to 92 kHz offering a maximum resolution of 1920 x 1440 with flicker free display of 1280 x 1024 up to 86 Hz
- Flat Square High Contrast CRT with 0.26 mm pitch (0.23 hdp)
- XSD-Xtra Space Design for large screen display in a small footprint: 19-inch conventional monitor with maximum depth of only 437 mm/17.2"
- 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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Technical Specifications*

CRT

- | | |
|----------------------------|---|
| • Size and deflection | 19 inch / 46 cm ; 90° deflection angle |
| • Dot pitch | 0.26 mm |
| • Horizontal pitch | 0.23 mm |
| • Tube type | Shadow mask, real flat, high contrast, anti-glare, anti-static, anti reflection, light transmission 52% |
| • Phosphor | P22 |
| • Recommended display area | 14.0" x 10.4" / 355 x 265 mm |
| • Maximum display area | 14.4" x 10.8" / 365 x 270 mm |

SCANNING

- | | |
|-----------------------|-------------|
| • Horizontal scanning | 30 - 92 KHz |
| • Vertical scanning | 50 - 160 Hz |

VIDEO

- | | |
|-------------------|----------|
| • Video dot rate | 158 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

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

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

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	Video	H-sync	V-sync	Power	Power Saving	LED

Mode				Used	(%)	color
ON	Active	Yes	Yes	Typical 65W	0 %	Green
OFF	Blanked	No	No	< 2W	97%	Flashing Green

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 17.3" x 17" x 17.2" / 440 x 433 x 437 mm (including base)
17.3" x 15" x 17.2" / 440 x 383 x 437 mm (excluding base)
- Weight 17.8 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%

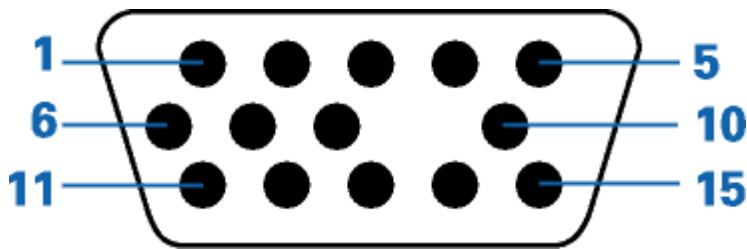
** Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.*

** 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 / 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			

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Views

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

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Installing your Monitor

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Front View



I09B5/I09E5/I09F5



Power button switches your monitor on.



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



Contrast hotkey. When the "-" button is pressed, the adjustment controls for the CONTRAST will show up.



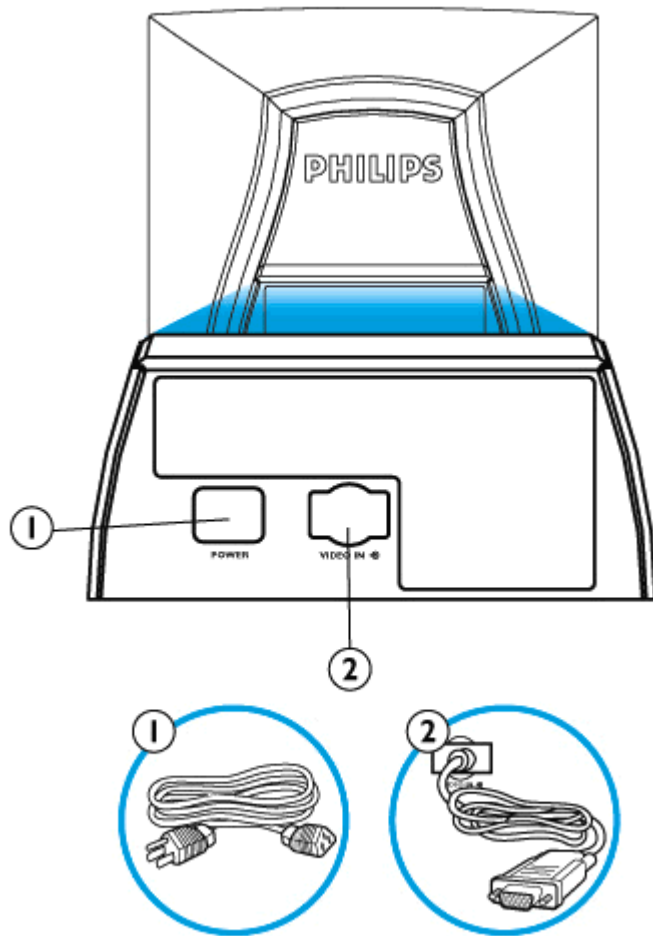
Brightness hotkey. When the "+" button is pressed, the adjustment controls for BRIGHTNESS will show up.



"-" and "+" buttons, are used for adjusting the OSD of your monitor.

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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.

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Energy Star Declaration

PHILIPS

109E5*

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 65W
Power Saving Alternative2 One Step	OFF	Flashing Green	< 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)