



LCD Monitor **200P7**



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Product Information

Product Features

200P7

- **Outstanding front of screen performance**
 - SmartImage for the best LCD viewing experience
 - UXGA, 1600x1200 resolution for sharper display
 - VGA analog plus dual digital DVI plugs for input choice
 - Fast response time for better display of moving images
- **Maximum comfort for maximum productivity**
 - Display more images and content without scrolling
 - 90 degree screen rotation and smart cable management
 - Built-in high-speed USB 2.0 solution for easy connections
- **Best total cost of ownership solution**
 - SmartManage compatibility enables LAN-based asset management
 - Lead-free design safeguards our environment
- **Great convenience**
 - Easy plug-and-play DVI for a true digital experience
 - Embedded power supply eliminates external power adaptors

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Lead-free Product

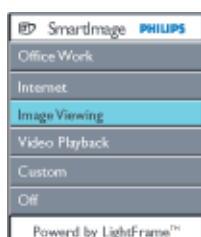


Philips eliminated toxic substances like lead from its displays. Lead-free display helps protect your health and promotes environmentally sound recovery and disposal of waste from electrical and electronic equipment. Philips complies with the European Community stringent RoHS Directive mandating restrictions on hazardous substances in electrical and electronic equipment. With Philips, you can be confident that your display device does not harm the environment.

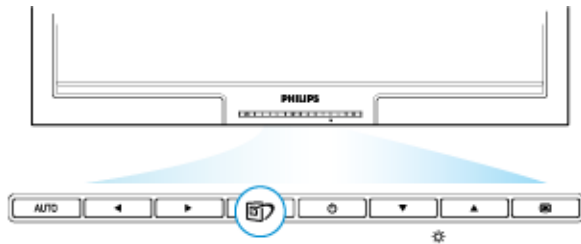
SmartImage



Introduction

Philips SmartImage features with Philips LightFrame technology to enhance your front of screen performance depend by content type. It is not only changing brightness or contrast profiles but utilizing Philips Pacific3 hardware chip inside monitor to enrich color of image and sharpen text. No matter your application is on text processing or watching image or video, you can always get best viewing experience from Philips SmartImage.



How to enable SmartImage



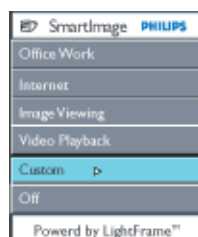
1. Press  to launch the SmartImage on screen display;
2. Keep press  to toggle between Office Work, Internet, Image Viewing, Video Playback, Custom, and Off;
3. The SmartImage on screen display will remain on screen for 3 seconds or you can also press "OK" to make confirmation.




Expect using  key to scroll down, you can also press   buttons to choose and press "ok" to confirm selection and close the SmartImage OSD.

There are six modes to be selected:

1. **Office Work:** Select this mode for general office application, like word processing, spreadsheet, and email. The screen is dominated by text.
2. **Internet:** Select this mode for Internet application, especially web browsing. The screen is mixed by text and picture.
3. **Image Viewing:** Select this mode for image viewing application, especially in slid show. The screen is dominated by picture.
4. **Video Playback:** Select this mode for video application, like Microsoft Media Player or Real Player. The screen is dominated by video.
5. **Custom:** Select this mode for you to adjust the rate of luminance, contrast gap, color boost, sharpness, and text enhancement by yourself.



- Press  to enter sub-menu selections



- Press   or  to toggle between

- Exit
- Luminance
- Contrast Gap
- Color Boost
- Sharpness
- Text Enhancement
- Reset



-   to adjacent sub-menu selections
- Then, press "OK" to go back to sub-menu and SmartImage OSD.



6. **Off:** No optimization by SmartImage.

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Technical Specifications*

| | |
|--------------------------------|--|
| LCD PANEL | |
| • Type | TFT LCD |
| • Screen size | 20.1" / 51cm |
| • Pixel Pitch | 0.255 x 0.255mm |
| • LCD Panel type | 1600 x 1200pixels R.G.B. vertical stripe Anti-glare polarizer, hard coated |
| • Effective viewing area | 408 x 306mm |
| • Display Colors | 8 bits interface (16M colors) |
| SCANNING | |
| Vertical refresh rate | 56Hz-85Hz |
| Horizontal Frequency | 30kHz-98kHz (Analog input) |
| VIDEO | |
| • Video dot rate | 202.5 MHz |
| • Input impedance | |
| - Video | 75 ohm |
| - Sync | 2K2 ohm |
| • Input signal levels | 0.7 Vpp |
| • Sync input signal | Separate sync Composite sync Sync on green |
| • Sync polarities | Positive and negative |
| Optical characteristics | |
| • Peak contrast angle | 6 o'clock |
| • White Chromaticity: | x: 0.283 y: 0.297 (at 9300°K) x: 0.313 y: 0.329 (at 6500°K) |

* This data is subject to change without notice.

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Resolution & Preset Modes

- Maximum 1600 x 1200 at 75Hz(analog input)
1600 x 1200 at 60Hz(digital input)
- Recommended 1600 x 1200 at 60Hz * at DVI digital input

15 factory preset modes:

| H. freq (kHz) | Resolution | V. freq (Hz) |
|---------------|------------|------------------|
| 31.5 | 640*350 | 70 (IBM VGA 10h) |
| 31.5 | 720*400 | 70 |
| 31.5 | 640*480 | 60 |
| 37.5 | 640*480 | 75 |
| 35.2 | 800*600 | 56 |
| 37.9 | 800*600 | 60 |
| 46.9 | 800*600 | 75 |
| 48.4 | 1024*768 | 60 |
| 60.0 | 1024*768 | 75 |
| 60 | 1280*960 | 60 |
| 69.0 | 1152*870 | 75 |
| 63.9 | 1280*1024 | 60 |
| 80.0 | 1280*1024 | 75 |
| 75.0 | 1600*1200 | 60 |
| 93.8 | 1600*1200 | 75 (Analog only) |

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Automatic Power Saving

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

| Power Management Definition | | | | | |
|-----------------------------|-------|--------|--------|------------|-----------|
| VESA Mode | Video | H-sync | V-sync | Power Used | LED color |
| Active | ON | Yes | Yes | < 70W | Green |
| Sleep | OFF | No | No | < 1W | Amber |
| Switch Off | OFF | - | - | < 1W | OFF |

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

| | |
|--------------------------|--|
| • Dimension (WxHxD) | 461 x 421 x 235 mm (incl. Pedestal) (in lowest position) |
| • Weight | 8.9 Kg |
| • Tilt / Swivel | -5° ~ 25° / ± 45° |
| • Height adjustment rang | 130 mm |
| • Power supply | 100— 240 VAC, 60 - 50 Hz |
| • Power consumption | 50 W* (typ.) |
| • Temperature | 5° C to 35° C (operating) -20° C to 60° C (storage) |
| • Relative humidity | 20% to 80% |
| • System MTBF | 50K hrs (excluding CCFL 40K hrs) |
| • Cabinet color | Black/Silver |
| • Altitude | |
| - storage/shipment | 0 - 40,000 feet (12,192m) |
| - operating | 0 - 12,000 feet (3657.6m) |

* This data is subject to change without notice.

* Resolution 1600 x 1200, standard size, contrast max., brightness 50%, 6500° K, full white pattern.

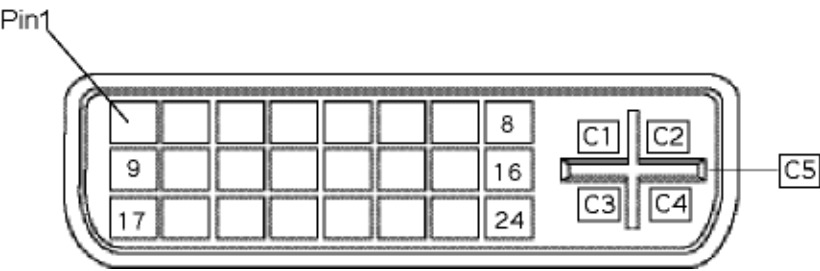
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Pin Assignment

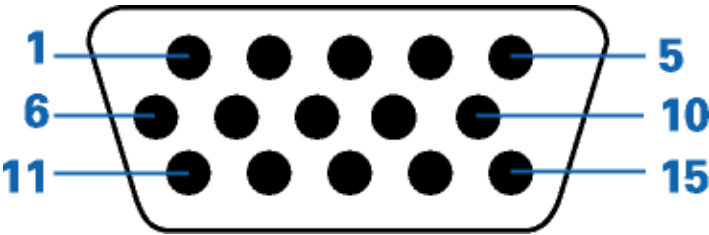
1. The DVI connector contains 24 signal contacts organized in three rows of eight contacts. Signal pin assignments are listed in the following table:

| Pin No. | Signal Assignment | Pin No. | Signal Assignment | Pin No. | Signal Assignment | Pin No. | Signal Assignment |
|---------|-----------------------|---------|-----------------------|---------|-----------------------|---------|--------------------------------------|
| 1 | T.M.D.S. Data2- | 9 | T.M.D.S. Data1- | 17 | T.M.D.S. Data0- | C1 | * Analog R |
| 2 | T.M.D.S. Data2+ | 10 | T.M.D.S. Data1+ | 18 | T.M.D.S. Data0+ | C2 | * Analog G |
| 3 | T.M.D.S. Data2 Shield | 11 | T.M.D.S. Data1 Shield | 19 | T.M.D.S. Data0 Shield | C3 | * Analog B |
| 4 | NC | 12 | NC | 20 | NC | C4 | * Analog H-sync |
| 5 | NC | 13 | NC | 21 | NC | C5 | * Analog GND (Analog R, G, B return) |
| 6 | DDC Clock | 14 | +5V | 22 | T.M.D.S. Clock Shield | | |

| | | | | | |
|---|-----------------|----|--------------------------------------|----|-----------------|
| 7 | DDC Data | 15 | Ground (return for +5V and H/V-sync) | 23 | T.M.D.S. Clock+ |
| 8 | * Analog V-sync | 16 | Hot Plug Detect | 24 | T.M.D.S. Clock- |



2. The 15-pin D-sub connector (male) of the signal cable:



| Pin No. | Assignment | Pin No. | Assignment |
|---------|-----------------------|---------|------------------------|
| 1 | Red video input | 9 | +5V |
| 2 | Green video input/SOG | 10 | Ground |
| 3 | Blue video input | 11 | Ground |
| 4 | Ground | 12 | Serial data line (SDA) |
| 5 | Cable detect | 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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Product Views

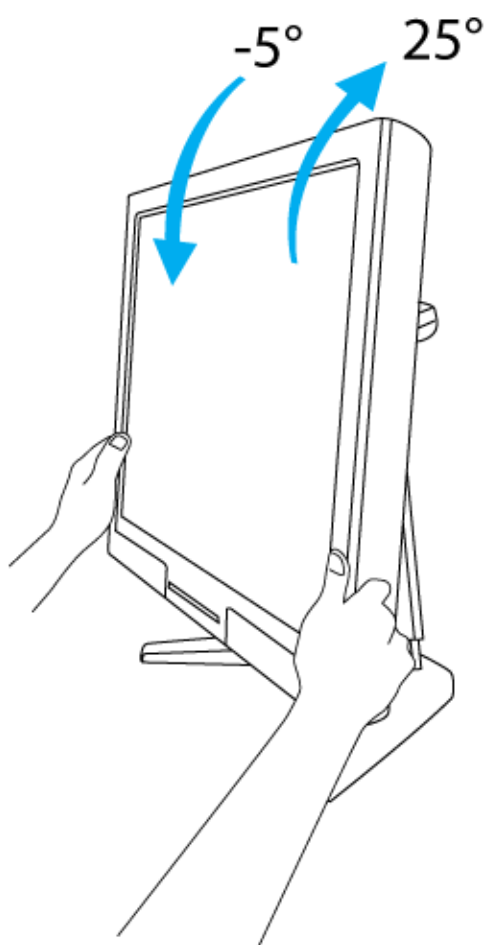
Follow the links to see various views of the monitor and its components.

[Front View Product Description](#)

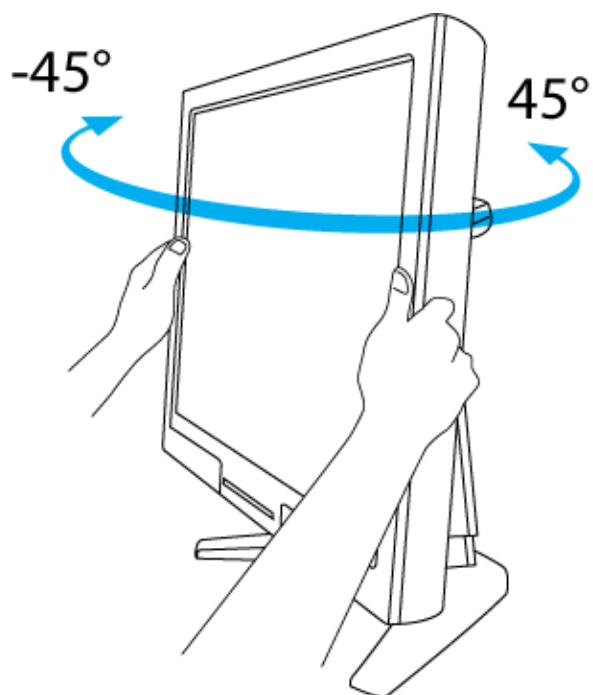
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Physical Function

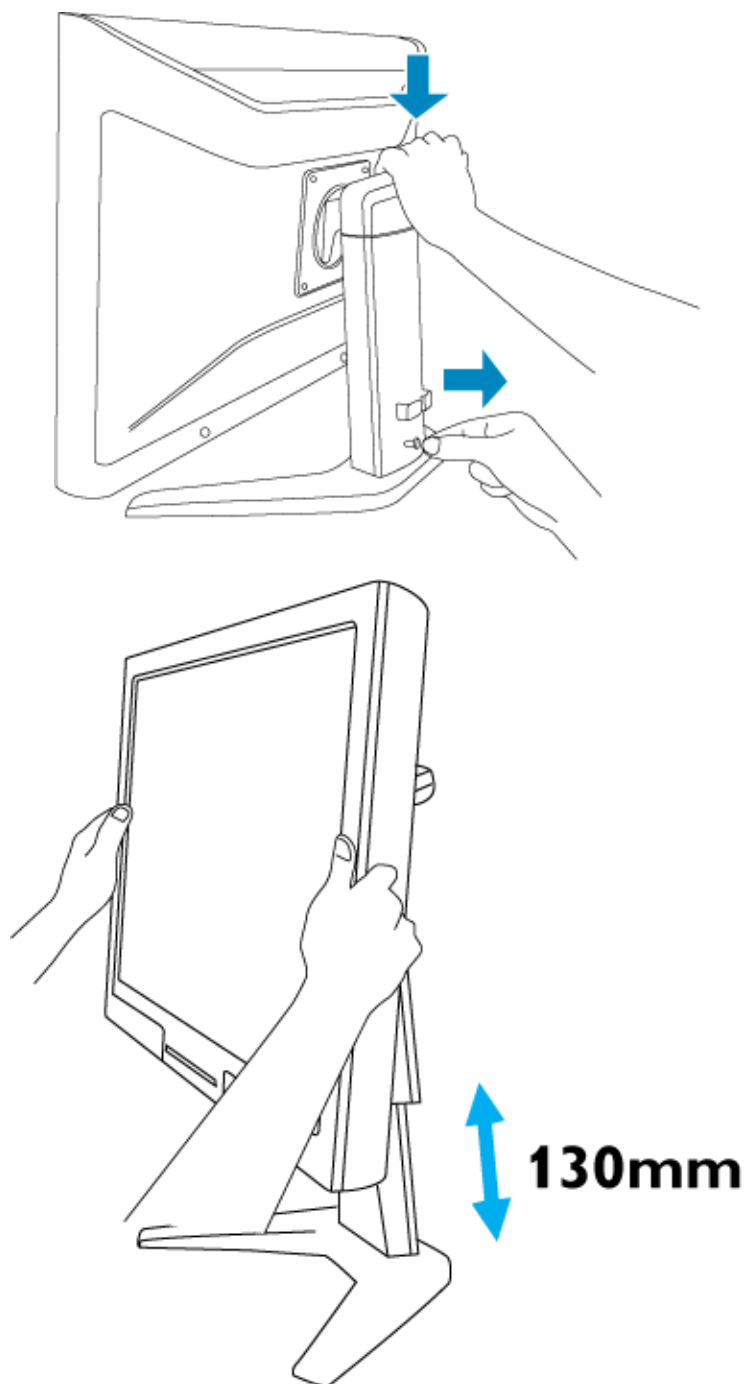
1) Tilt



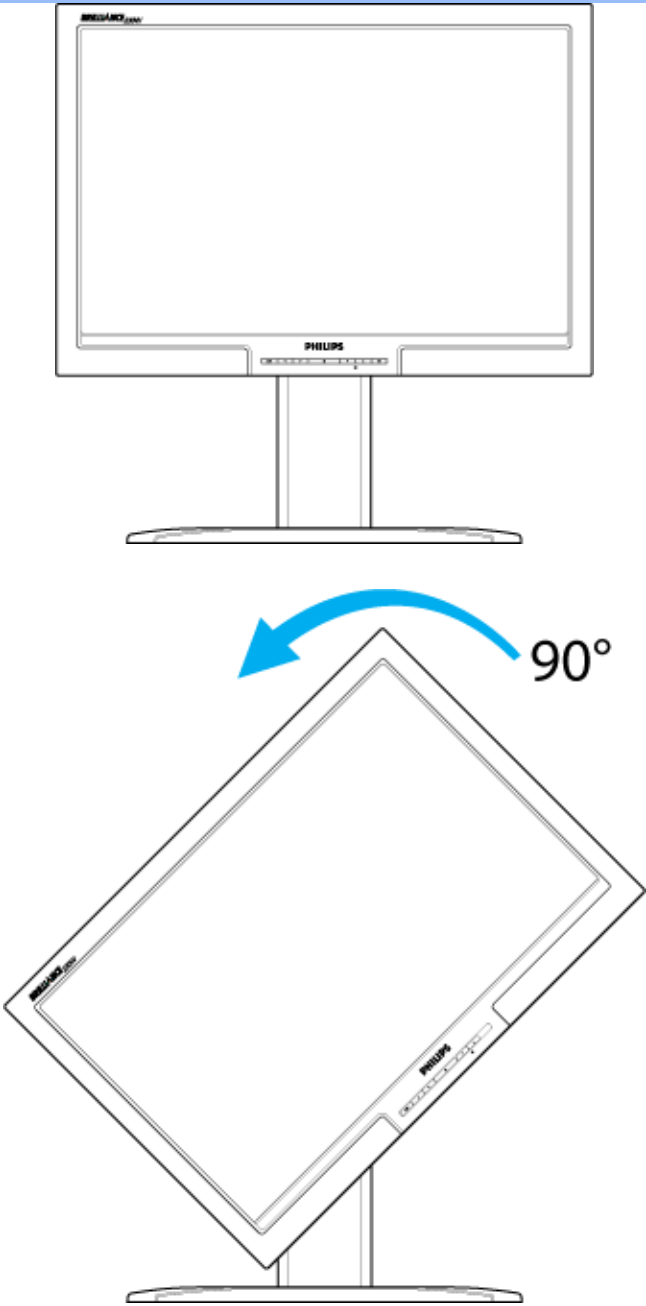
2) Swivel

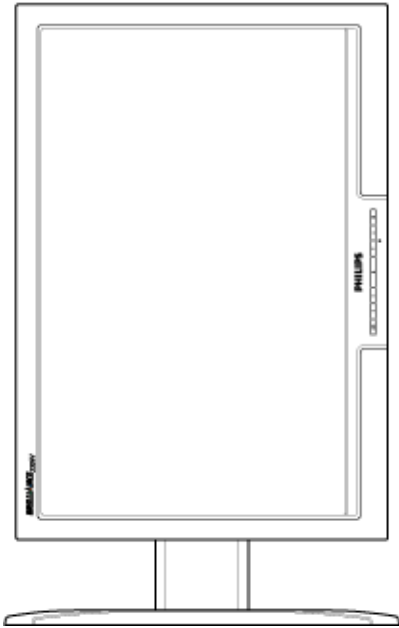


3) Height adjustment



4) Portrait display



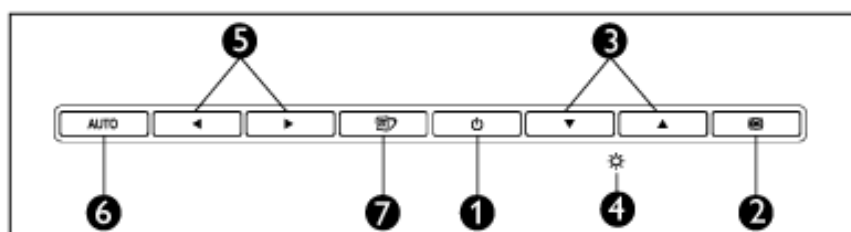
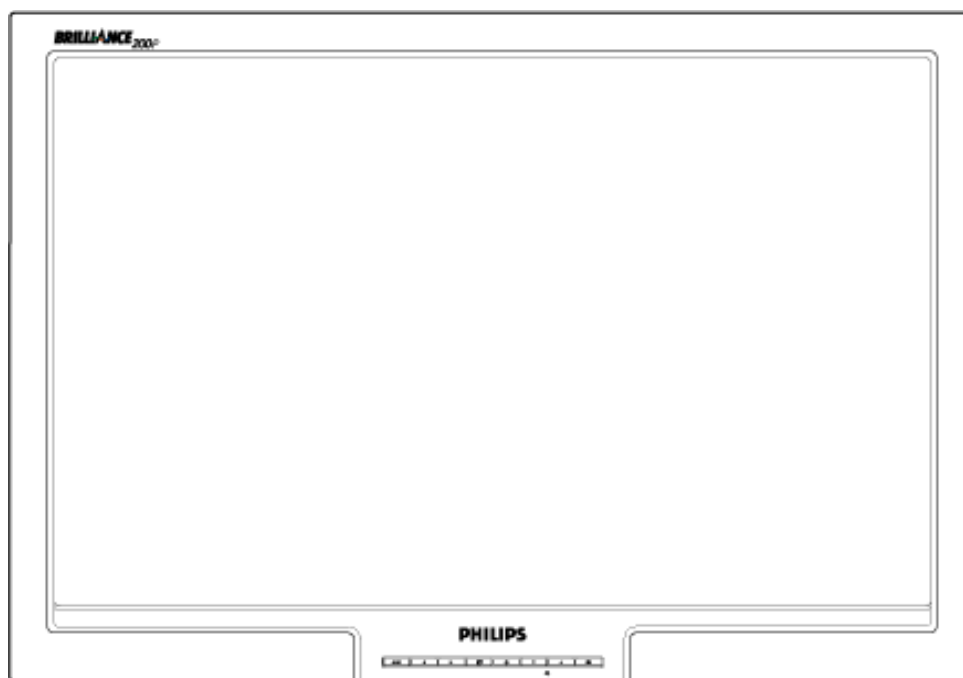








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Installing Your LCD Monitor

- Front View
- Product Description
- Setting Up and Connecting Your Monitor
- VESA
- Standard Mounting
- Getting Started
- Optimizing Performance

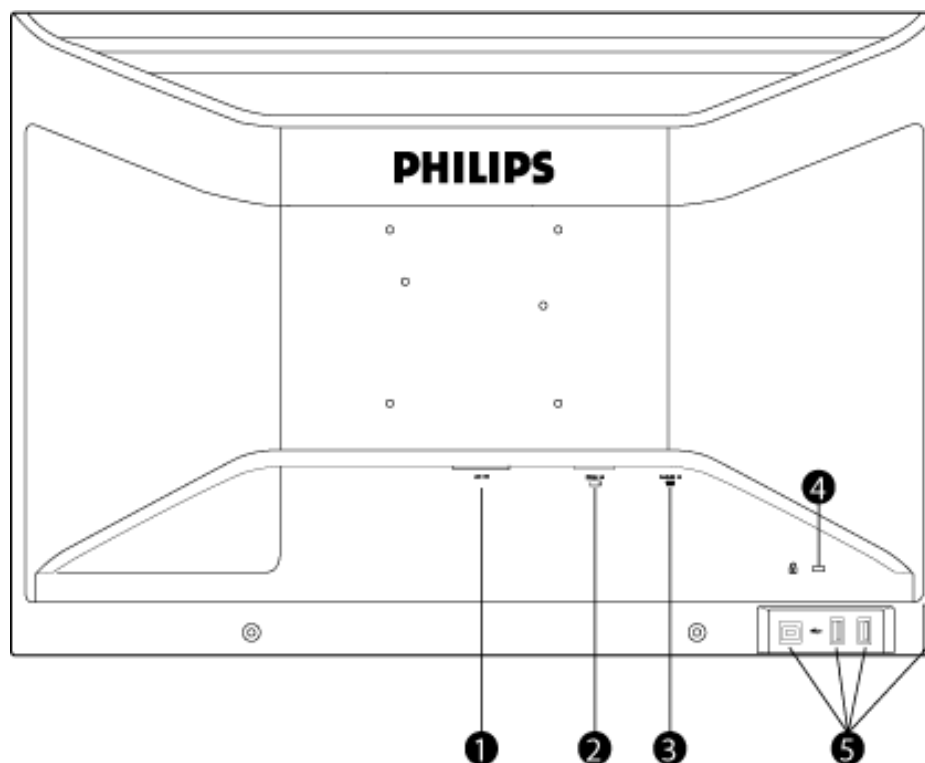
Front View Product Description



- | | | |
|---|---|--|
| 1 |  | To switch monitor's power On and Off |
| 2 |  | To access OSD menu |
| 3 |  | To adjust the OSD |
| 4 |  | To adjust brightness of the display |
| 5 |  | To adjust the OSD |
| 6 | AUTO | Automatically adjust the horizontal position, vertical position, phase and clock settings. |
| 7 |  | SmartImage hotkey for mode-switching between full-screen mode and multi-window mode. |

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Rear View



- 1 AC power input
- 2 DVI-I input
- 3 D-Sub
- 4 Kensington anti-thief lock
- 5 USB upstream and downstream

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Optimizing Performance

- For best performance, ensure that your display settings are set at 1600 x 1200 @60Hz



Note: You can check the current display settings by pressing the 'OK' button once. Go into the Product Information. The current display mode is shown on the item called RESOLUTION.

- You can also install the [Flat Panel Adjust \(FP Adjust\) program](#), a program for getting the best performance out of your monitor. This is included on this CD. Step-by-step instructions are provided to guide you through the installation process. Click on the link to know more about this program.

More about



[FP_setup4.3.exe](#)

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- ISO9241-3, ISO9241-7, ISO9241-8 (Ergonomic requirement for CRT Monitor)
- ISO13406-2 (Ergonomic requirement for Flat Panel Display)
- GS EK1-2000 (GS specification)
- prEN50279:1998 (Low Frequency Electric and Magnetic fields for Visual Display)
- MPR-II (MPR:1990:8/1990:10 Low Frequency Electric and Magnetic fields)
- TCO'99, TCO'03 (Requirement for Environment Labelling of Ergonomics, Energy, Ecology and Emission, TCO: Swedish Confederation of Professional Employees) for TCO versions

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Energy Star Declaration

**PHILIPS
200P7**

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 (Active) | Blue | < 70 W |
| Power Saving Alternative 2 One step | OFF (Sleep) | Amber | < 1 W |
| | Switch Off | Off | < 1 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 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)

This device belongs to category B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štítku počítače uvedeno, že spadá do do třídy A podle EN 55022, spadá automaticky do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (chranné pásmo 30m) podle EN 55022 platí následující. Dojde-li k rušení telekomunikačních nebo jiných zařízení je uživatel povinen provést taková opatření, aby rušení odstranil.

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MIC Notice (South Korea Only)

Class B Device

| 장치 종류 | 사용자 안내문 |
|-------|---|
| B급 기기 | 이 장치는 가정용으로 전자파 적합등록을 한 장치로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다. |



Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.

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Polish Center for Testing and Certification Notice