# Product Information

## Product Features

### 170B6

- **Outstanding front of screen performance**
  - Perfect panel™ for defect-free display
  - Fast 8ms response time displays fast moving pictures better
  - SXGA 1280 x 1024 resolution for sharper display
  - Dual input accepts both analog VGA and digital DVI signals
- **Best total cost of ownership solution**
  - SmartManage provides remote management capabilities
  - Lead-free display protects your health and our environment
- **Maximum comfort for maximum productivity**
  - Built-in speakers for audio without clutter
  - Screen height adjustable for ideal viewing angle
  - Screen tilt and swivel adjustment for ideal viewing angle
- **Great Convenience**
  - USB plug for convenient peripheral connections
  - Embedded power supply eliminates external power adaptors

RETURN TO TOP OF THE PAGE

## 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.

## Technical Specifications*

| LCD PANEL | |
|---|---|
| • Type | TFT LCD |
| • Screen size | 17" / 43.2 cm diagonal |
| • Pixel Pitch | 0.264 x 0.264 mm |
| • LCD Panel type | 1280 x 1024 pixels<br>R.G.B. vertical stripe<br>Anti-glare polarizer, hard coated |
| • Effective viewing area | 337.9 x 270.3 mm |
| • Display Colors | 16.2 M colors |

| SCANNING | |
|---|---|
| Vertical refresh rate | 56 Hz-76 Hz |
| Horizontal Frequency | 30k Hz-83 kHz |
| **VIDEO** | |
| • Video dot rate | 140 MHz |
| • Input impedance | |
| - Video | 75 ohm |
| - Sync | 2.2K ohm |
| • Input signal levels | 700m Vpp |
| • Sync input signal | Separate sync<br>Composite sync<br>Sync on green |
| • Sync polarities | Positive and negative |
| • Video interface | Dual input: D-Sub (analog) and DVI-D (digital) are available and user selectable |
| **Audio** | |
| • Loudspeaker | 4W Stereo Audio (2W/channel RMSx2, 300 Hz-13 kHz, 16 ohm, PMPO 32 Watts) |
| • Headphone connector | 3.5mm mini jack |
| • Input signal connector | 3.5mm mini jack |
| • USB plug | USB plug for convenient peripheral connectors |
| | |
| **Optical characteristics** | |
| • Contrast ratio | 500:1 (typ.) |
| • Brightness | 250 cd/m$^2$ (typ.) |
| • Peak contrast angle | 6 o'clock |
| • White Chromaticity | x: 0.283 y: 0.297 (at 9300°K)<br>x: 0.313 y: 0.329 (at 6500°K)<br>x: 0.313 y: 0.329 (at sRGB) |
| • Viewing Angle (C/R>5) | Upper ≥60° (typ.)<br>Lower ≥80° (typ.)<br>Left ≥80° (typ.)<br>Right ≥80° (typ.) |
| • Response time | ≤ 8 ms (typ.) |

** This data is subject to change without notice.*

RETURN TO TOP OF THE PAGE

## Resolution & Preset Modes

- Maximum 1280 x 1024 at 75 Hz
- Recommended 1280 x 1024 at 60 Hz

### 50 user definable modes

**15 factory preset modes:**

| H. freq (kHz) | Resolution | V. freq (Hz) |
|---|---|---|
| 31.5 | 640*350 | 70 |
| 31.5 | 720*400 | 70 |
| 31.5 | 640*480 | 60 |
| 35.0 | 640*480 | 67 |
| 37.5 | 640*480 | 75 |
| 35.2 | 800*600 | 56 |
| 37.9 | 800*600 | 60 |
| 46.9 | 800*600 | 75 |
| 49.7 | 832*624 | 75 |
| 48.4 | 1024*768 | 60 |
| 60.0 | 1024*768 | 75 |
| 69.0 | 1152*870 | 75 |
| 71.8 | 1152*900 | 76 |
| 63.9 | 1280*1024 | 60 |
| 80.0 | 1280*1024 | 75 |

RETURN TO TOP OF THE PAGE

## Automatic Power Saving

If you have VESA DPMS and DVI DMPM for digital 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 'wake up' automatically. The following table shows the power consumption and signaling of this automatic power saving feature:

| Power Management Definition | | | | | |
|---|---|---|---|---|---|
| VESA Mode/ DVI Mode | Video | H-sync | V-sync | Power Used | LED color |
| Active | ON | Yes | Yes | < 32 W* (typ.) | Green |
| Sleep | OFF | No | No | < 1 W | 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.

RETURN TO TOP OF THE PAGE

## Physical Specifications

| | |
|---|---|
| • Dimension (WxHxD) * | 375 x 431 x 210 mm (in lowest position) |
| • Weight | 5.62 kg |
| • Tilt / Swivel | -5° ~ 25° / ± 125° |
| • Power supply | 100 — 240 VAC, 60 - 50 Hz |
| • Power consumption | 32 W* (typ.) |
| • Temperature | 5° C to 40° C (operating)<br>-20° C to 60° C (storage) |
| • Relative humidity | 20% to 80% |
| • System MTBF | 50K hours (including CCFL 40K hours) |
| • Altitude | Storage/shipment: 0-40,000 feet (12,192m)<br>Operating: 0-12,000 feet (3657.6m) |

** This data is subject to change without notice.*

** Resolution 1280x1024, standard size, brightness max., contrast 50%, 6500° K, full white pattern.*

RETURN TO TOP OF THE PAGE

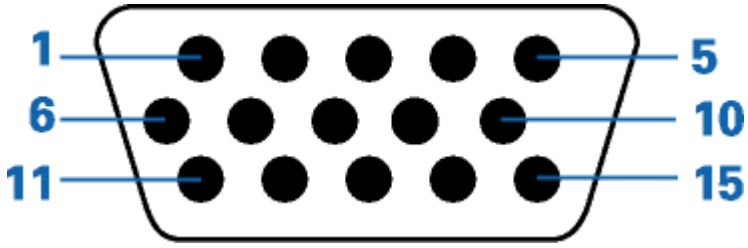
## Pin Assignment

1. The digital only 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 |
|---|---|---|---|---|---|
| 1 | T.M.D.S. Data2- | 9 | T.M.D.S. Data1- | 17 | T.M.D.S. Data0- |
| 2 | T.M.D.S. Data2+ | 10 | T.M.D.S. Data1+ | 18 | T.M.D.S. Data0+ |
| 3 | T.M.D.S. Data2/4 Shield | 11 | T.M.D.S. Data1/3 Shield | 19 | T.M.D.S. Data0/5 Shield |
| 4 | No connect | 12 | No connect | 20 | No connect |
| 5 | No connect | 13 | No connect | 21 | No connect |
| | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 | DDC Clock | | 14 | +5V Power | | 22 | T.M.D.S. Clock Shield |
| 7 | DDC Data | | 15 | Ground (for +5V) | | 23 | T.M.D.S. Clock+ |
| 8 | No connect | | 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 | Logic ground |
| 3 | Blue video input | 11 | Ground |
| 4 | Sense (GND) | 12 | Serial data line (SDA) |
| 5 | Hot Plug 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 | | |

RETURN TO TOP OF THE PAGE

## Product Views

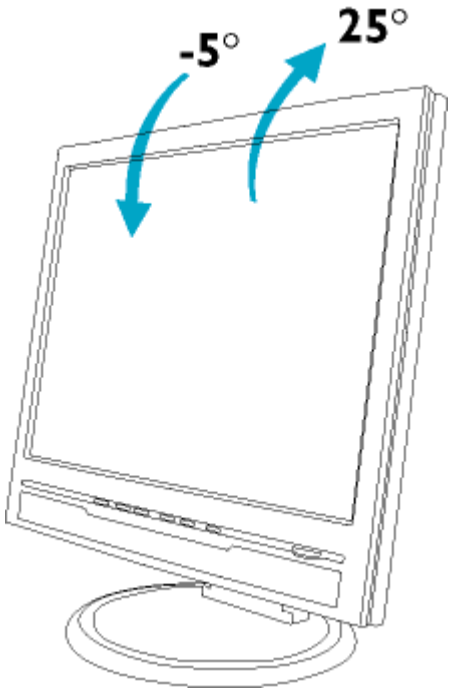
Follow the links to see various views of the monitor and its components.

Front View Product Description

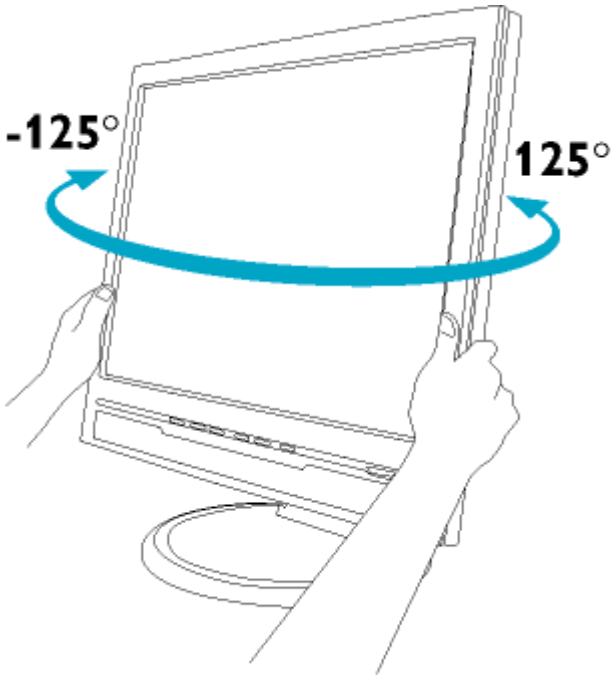
RETURN TO TOP OF THE PAGE

## Physical Function

**1) Tilt**

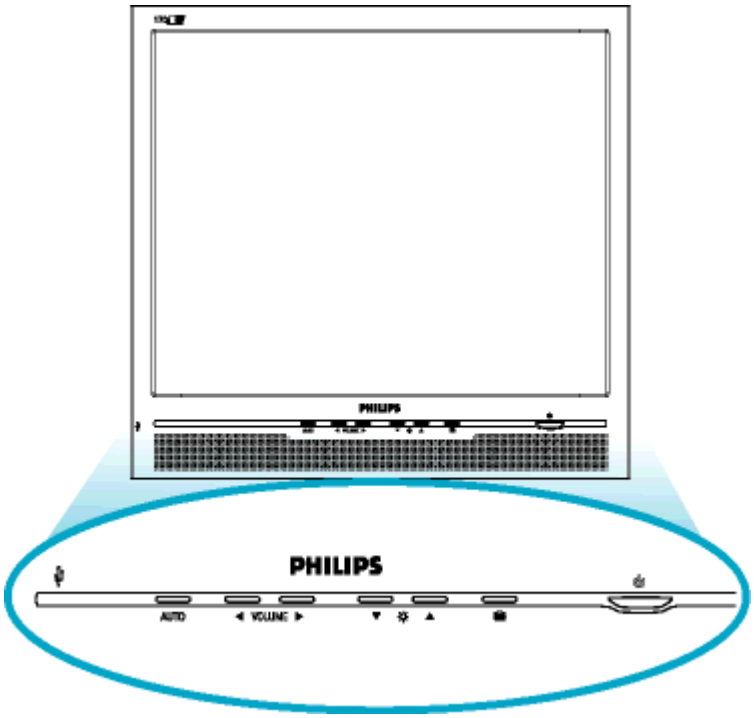



**2) Swivel**



# Installing Your LCD Monitor

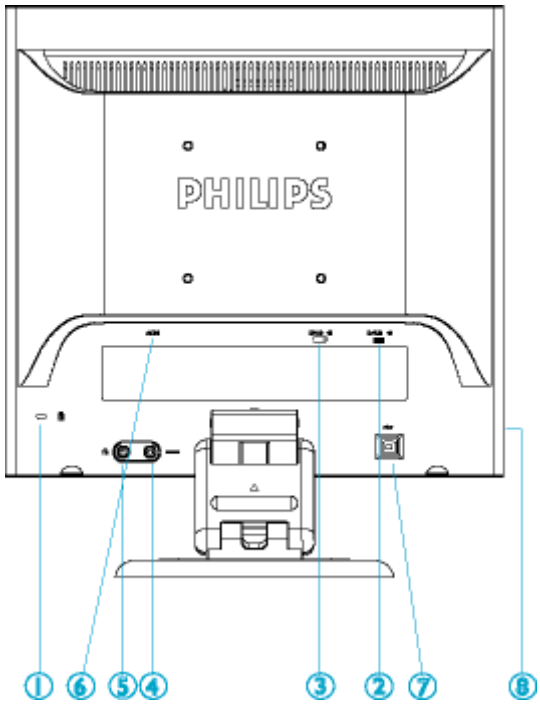
## Front View Product Description




| | |
|---|---|
| ▲▼ | UP and DOWN buttons are used when adjusting the OSD of your monitor. |
| ◀▶ | LEFT and RIGHT buttons, like the UP and DOWN buttons, are also used in adjusting the OSD of your monitor. |
| ☼ | BRIGHTNESS hotkey. When the UP and DOWN arrow buttons are pressed, the adjustment controls for the BRIGHTNESS will show up. |
| VOLUME | VOLUME hotkey. When the LEFT and RIGHT arrow buttons are pressed, the adjustment controls for VOLUME will show up. |
| OK | OK button which when pressed will take you to the OSD controls. |
| ⏻ | POWER button switches your monitor on. |
| AUTO | Automatically adjust the horizontal position, vertical position, phase and clock setting. |
| ⇕ | USB plug for convenient peripheral connectors |

RETURN TO TOP OF THE PAGE

## Rear View




1 Kensington anti-thief lock
2 VGA input
3 DVI-D input
4 PC audio input
5 Earphone jack
6 AC power input
7 USB upstream port
8 USB downstream port

RETURN TO TOP OF THE PAGE

## Optimizing Performance

- For best performance, ensure that your display settings are set at 1280x1024, 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 installtion process. Click on the link to know more about this program.

More about FP_setup04.exe

## 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.

RETURN TO TOP OF THE PAGE

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## Commission Federale de la Communication (FCC Declaration)

Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fourir 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.