

Product Information

Product Features

190B6

- **Outstanding front of screen performance**
 - Perfect Panel™ guarantees dot defect-free display
 - 8-ms response time for outstanding displays of fast moving images
 - SXGA 1280 x 1024 resolution for sharper display
 - Dual input accepts both analog VGA and digital DVI signals
- **Maximum comfort for maximum productivity**
 - Built in speakers for audio without desktop clutter
 - Stand-alone audio for efficient net conferencing
 - Screen tilt, swivel and height adjustment for ideal viewing angle
- **Lower total cost of ownership**
 - SmartManage provides LAN-based asset management capabilities
 - Lead-free display safeguards our environment
- **Great convenience**
 - USB port 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	19" / 48.26 cm diagonal
• Pixel Pitch	0.294 x 0.294 mm
• LCD Panel type	1280 x 1024 pixels R.G.B. vertical stripe Anti-glare polarizer, hard coated
• Effective viewing area	376.32 x 301.06 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	0.7 Vpp
• Sync input signal	Separate sync Composite sync 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	600:1 (typ.)
• Brightness	250 cd/m ² (typ.)
• Peak contrast angle	6 o'clock
• White Chromaticity	x: 0.283 y: 0.297 (at 9300°K) x: 0.313 y: 0.329 (at 6500°K) x: 0.313 y: 0.329 (at sRGB)
• Viewing Angle (C/R>5)	Upper ≥80° (typ.) Lower ≥80° (typ.) Left ≥80° (typ.) 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 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	Video	H-sync	V-sync	Power Used	LED color
Active	ON	Yes	Yes	< 40 W (typ.)	Green
Sleep	OFF	No	No	< 1 W	Amber

Switch Off	OFF	-	-	< 1W	Off
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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) *	425 x 419 x 235 mm
• Weight	6.5 kg
• Tilt / Swivel	-5° ~ 30° / + - 175°
• Height adjustment rang	70 mm
• Power supply	100 — 240 VAC, 60 - 50 Hz
• Power consumption	40 W* (typ.)
• Temperature	5° C to 40° C (operating) -20° C to 60° C (storage)
• Relative humidity	20% to 80%
• System MTBF	50K hours (excluding CCFL 40K hours)
• Cabinet color	190B6CG: Light Gray 190B6CB: Black 190B6CS: Silver

* This data is subject to change without notice.

* Resolution 1280x1024, standard size, brightness max., contrast 50%, 6500° K, full white pattern, without audio/USB.

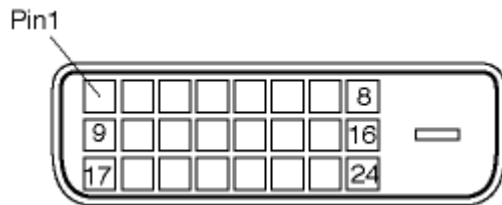
[RETURN TO TOP OF THE PAGE](#)

Pin Assignment

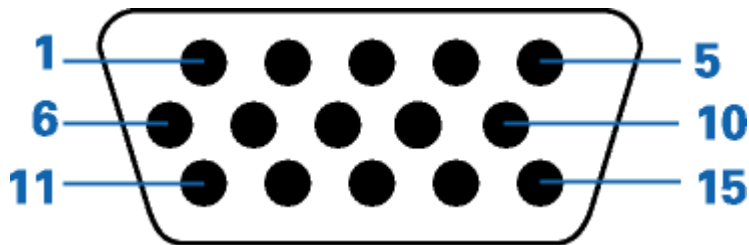
The digital only connector contains 24 signal contacts organized in three rows of eight contacts. Signal pin assignments are listed in the following table:

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-



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



Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	DDC +5V
2	Green video input/SOG	10	Logic ground
3	Blue video input	11	Ground
4	GND	12	Serial data line (SDA)
5	GND-Cable detect	13	H. Sync / H+V
6	Red video ground	14	V. Sync
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

[RETURN TO TOP OF THE PAGE](#)

Product Views

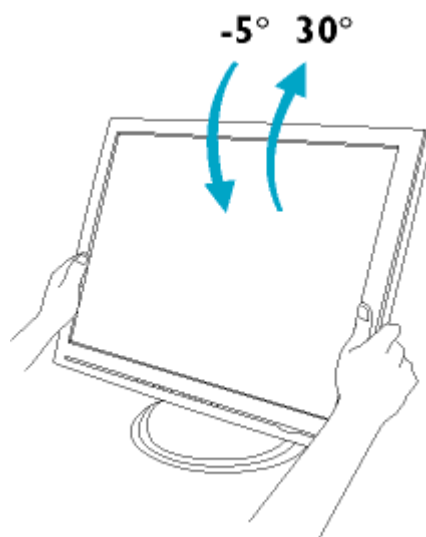
Follow the links to see various views of the monitor and its components.

Front View Product Description

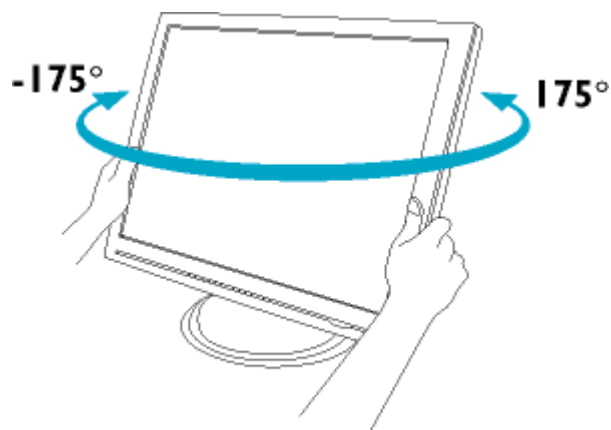
[RETURN TO TOP OF THE PAGE](#)

Physical Function

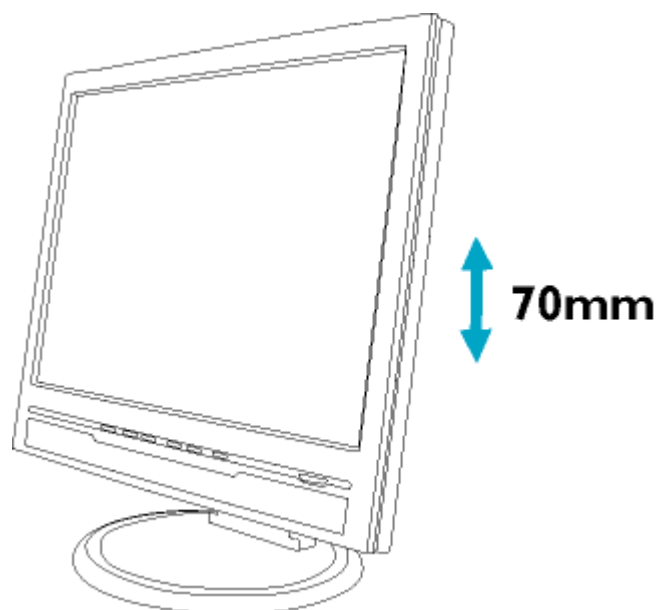
1) Tilt



2) Swivel



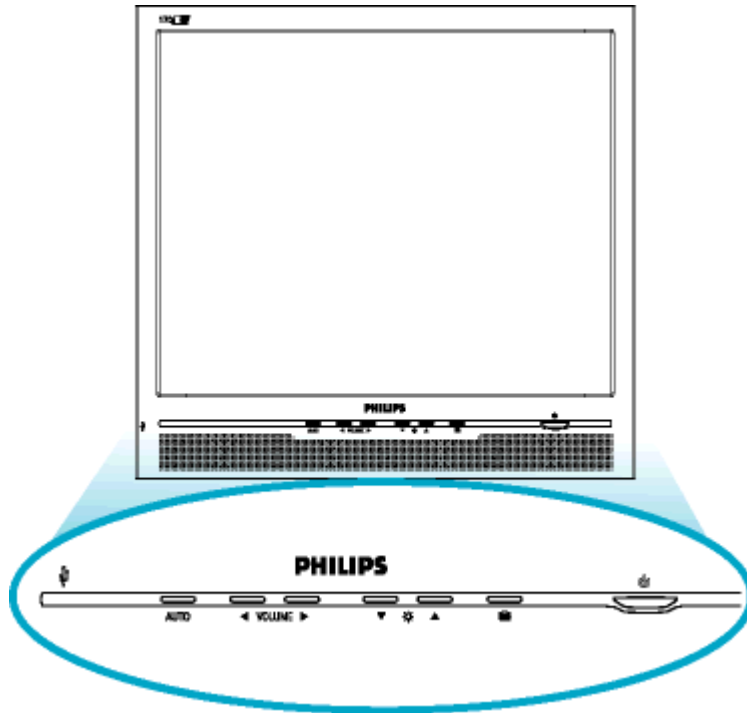
3) Height adjustment



[RETURN TO TOP OF THE PAGE](#)

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 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](#)

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. The current display mode is shown in OSD main controls 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_setup04.exe](#)

[RETURN TO TOP OF THE PAGE](#)

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](#)

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.

[RETURN TO TOP OF THE PAGE](#)