Product Information

Product Features

BRILLIANCE 200P4

- 20-inch color LCD monitor with excellent display performance
- Multiple video input allowing connection of DVI-D digital and VGA analog
- Embedded AC power supply
- Front firing speakers with stereo 2x2W RMS stereo sound output
- Advanced AUTO adjustment optimizes picture quality
- Adjustable tilt and swivel function
- Picture-in-Picture (PIP) function for displaying both PC and video simultaneously on the screen
- Built in module to provide S-Video & CVBS Video inputs(200P4VS, 200P4VG, 200P4VB models)
- Optional module to provide S-video and CVBS video inputs(200P4SS, 200P4SG, 200P4SB models)
- Optional super-ergo base for height adjustment
- sRGB compliant

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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 1200 pixels R.G.B. vertical stripe Anti-glare polarizer, hard coated
• Effective viewing area	408 x 306 mm
• Display Colors	8 bits interface (16M colors)
SCANNING	
Vertical refresh rate	56Hz-85Hz
Horizontal Frequency	30kHz-94kHz (Analog input)
VIDEO	
• Video dot rate	165 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
• S-Video	Y input 1.0Vpp, C input 0.3Vpp, 75ohm input impedance
• CVBS	Composite, 1.0Vpp, 75 ohm input impedance
•Video interface	D-Sub (Analog) DVI-D (Digital)

AUDIO-IN

• Input signal level	0.7 Vpp
• Headphone out signal level	20mW x 2, 32 Ω
• Input signal connector	3.5mm mini jack
• Loudspeaker	4W Stereo Audio (2W/channel RMSx2, 200Hz-12kHz, 4 ohm,THD=10%)

Optical characteristics

• Contrast ratio:	400:1 (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)
• Viewing Angle: (C/R>10)	Upper ≥88° (typ.) Lower ≥88° (typ.) Left ≥88° (typ.) Right ≥88° (typ.)
• Response time	16 ms (typ.)
- Rise time	9 ms (typ.)
- Fall time	7 ms (typ.)

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 Adjust Color and press OK again. Then move the down button to go to sRGB and press OK again.

Exit this OSD.

After this, please do not 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

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

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Resolution & Preset Modes

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

37 user definable modes

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
69.0	1152*870	75
63.9	1280*1024	60
80.0	1280*1024	75
75.0	1600*1200	60
33.8	1080i	60
45.0	720p	60

(Interlace mode is not applicable except 1080i)

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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 '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
ON	Active	Yes	Yes	< 65W	Green

OFF	Blanked	No	No	< 1.5W	Amber

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)	488 x 459 x220 mm (incl. Pedestal)
• Weight	7.5 Kg
• Tilt / Swivel	-5° ~ 25° / + - 175°
• Power supply	100 — 240 VAC, 50/60 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	200P4VG/200P4SG: Light Gray 200P4VB/200P4SB: Black 200P4VS/200P4SS: Silver

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

** Resolution 1600x1200, standard size, contrast max., brightness 50%, 9300° K, full white pattern, without audio/USB.*

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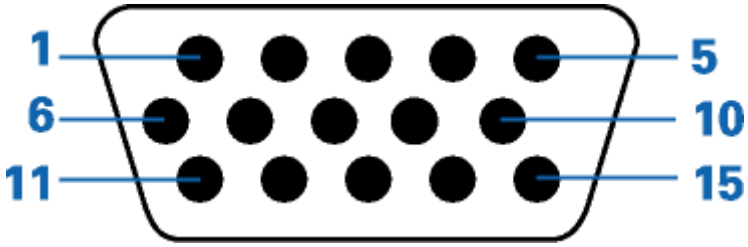
Pin Assignment

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	Ground	12	Serial data line (SDA)
5	No connect	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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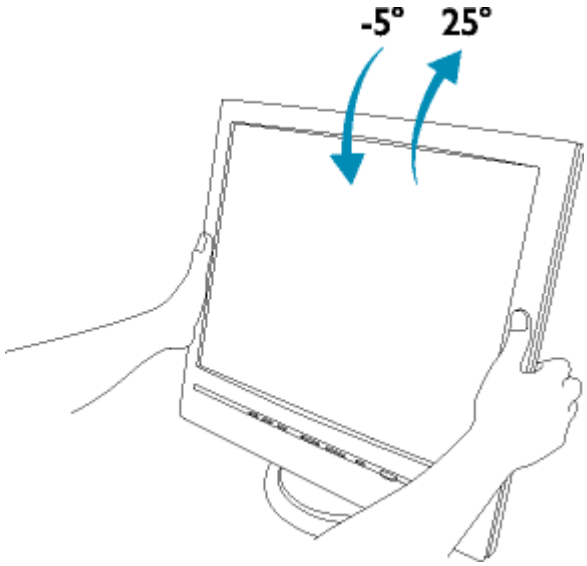
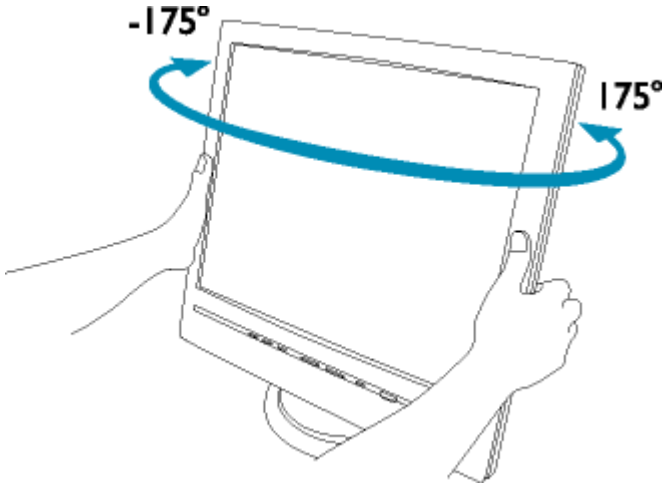
Physical Function

1) Tilt



2) Swivel



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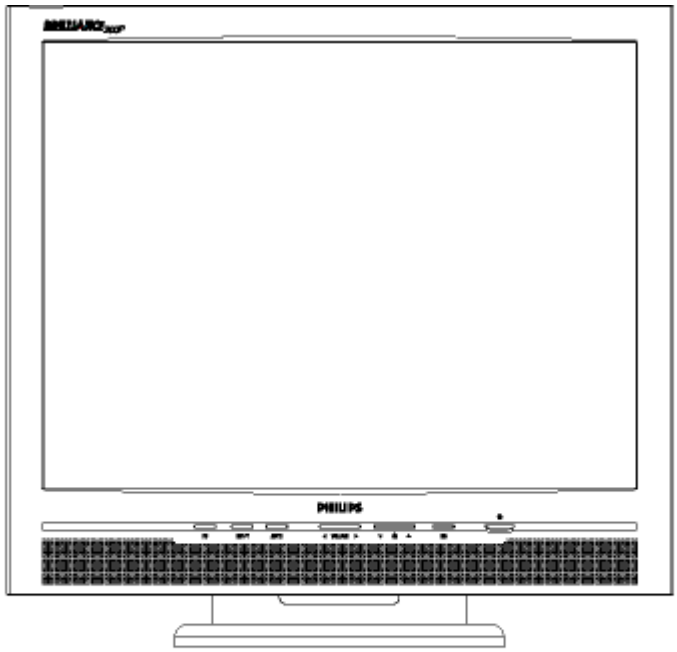
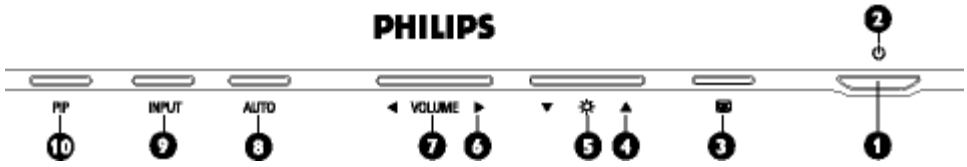
Installing Your LCD Monitor

Front View Product Description





1		To switch monitor's power On and Off
2		Power LED
3	OK	To access OSD menu
4	▲▼	To adjust the OSD
5	☼	To adjust brightness of the display
6	◀▶	To adjust the OSD
7	VOLUME	To adjust speaker volume
8	AUTO	Automatically adjust the horizontal position, vertical position, phase a clock setting
9	INPUT	Signal input selection
10	PIP	Activate PIP (Picture in Picture) window

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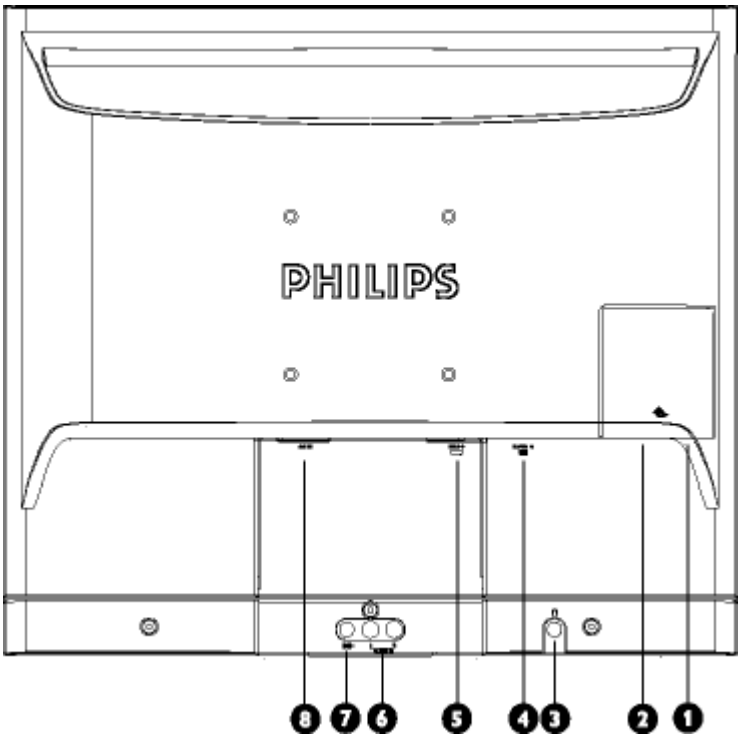
Rear View



1 CVBS video input (for video model 200P4V- only)
2 S-Video input (for video model 200P4V- only)
3 Earphone jack
4 VGA input
5 DVI-D input
6 Audio R/L input
7 PC audio input
8 AC power input

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Optimizing Performance

- For best performance, ensure that your display settings are set at 1600x1200@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 be performance out of your monitor. This is included on this CD. Step-by-step instructions are guide you through the installtion process. Click on the link to know more about this program

More about FP_setup04.exe

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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 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.

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