

Installation and Operating Instructions

Product Information

[Product Features](#) •
 [Technical Specifications](#) •
 [Resolution & Preset Modes](#) •
 [Philips Pixel Defect Policy](#) •
 [Automatic Power Saving](#) •
 [Physical Specification](#) •
 [Pin Assignment](#) •
 [Product Views](#)

Product Features

300WN5

- 29.5-inch WXGA (1280x768 resolution, 176 degree viewing angle) LCD all-in-one Monitor TV with excellent display performance
- Multiple video input allowing display of PC, TV, HDTV, VCD, DVD, Progressive DVD and Camcorder
- Network controllability via RS232 interface for managing the performances, setting, etc.
- Digital High Definition Picture (1080i, 720p, 576p, 576i, 480p, 480i)
- DCDi™ de-interlacing technology for superior depiction of motion
- Picture-in-Picture (PIP) function in PC VGA mode
- Light sensor to adjust brightness automatically
- Teletext (available only in Asia Pacific and Western Europe)
- Digital Nicam/2CS stereo (available only in Asia Pacific and Western Europe)
- Component Video Input (YPbPr/YCbCr) for DVD (available in AV and TV models only)
- Euroconnector (SCART) (available in Western Europe)
- MultiSystem TV tuner-PAL/NTSC (available in TV model only)

[RETURN TO TOP OF THE PAGE](#)

Technical Specifications*

LCD PANEL	
• Type	TFT LCD
• Screen size	29.5 inch
• Pixel Pitch	0.5025 x 0.1675 mm x RGB
• LCD Panel type	1280 x 768 pixels R.G.B. vertical stripe Hard coating surface, anti-glare polarizer
• Effective viewing area	(H) 643.2 x (V) 385.92mm
• Display Colors	8 bits interface (16.7M colors)
PC SCANNING	
• Vertical refresh rate	58Hz-60Hz
• Horizontal frequency	31kHz-49kHz
PC VIDEO	
• Video dot rate	< 80 MHz
• Input impedance	

- Video	75 ohm
- Sync	2.2K ohm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync
• Sync polarities	Positive and negative
• Input Frequency	WXGA Hsync 48 kHz, Vsync 60 Hz (N.I.) SVGA Hsync 38 kHz, Vsync 60 Hz (N.I.) VGA Hsync 31 kHz, Vsync 60 Hz (N.I.)
• Video interface	D-sub, S-Video, TV-RF, SCART (Europe) or composite and components video (others)

AUDIO

• Input level for PC/SVHS/SCART	500 mV nominal
• Loudspeaker	5W Stereo Audio (2.5W/channel RMS x2, 200Hz~10kHz, 4 ohm, 10% THD)

OPTICAL CHARACTERISTICS

• Contrast ratio	500:1 (typ.)
• Brightness	500 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: 0.328 y: 0.344 (at 5700°K)
• Viewing Angle (C/R >5)	Upper ≥88° (typ.) Lower ≥88° (typ.) Left ≥88° (typ.) Right ≥88° (typ.)
• Response time	≤16ms (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, at PC mode, open the OSD by pressing the MENU button of your monitor. Use the down button to go to COLOR SETTINGS and press MENU again. Then move the down

button to go to NORMAL COLOR and press MENU again.

For more information on sRGB, please visit: www.srgb.com

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

[RETURN TO TOP OF THE PAGE](#)

Resolution & Preset Modes

- Recommended 1280 x 768 at 60Hz

10 factory preset modes:

Resolution	Mode	H. freq (kHz)	V. freq (Hz)
PC			
640*480	VGA VESA 60	31.469	59.940
800*600	SVGA VESA 60	37.879	60.317
1024*768	XGA VESA 60	48.363	60.004
1280*768	GTF 60	47.700	60.000
Video			
EDTV	480P	31.470	60.000
SDTV	480i	15.734	59.940
EDTV	576P	31.250	50.000
SDTV	576i	15.625	50.000
HDTV	1080i	33.750	60.000
HDTV	720P	45.000	60.000

[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 then 'wake up' automatically. The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition					
				Power	LED

VESA Mode	Video	H-sync	V-sync	Used	color
ON	Active	Pulse	Pulse	130W (typ.)	Blue
OFF	Blanked	No	No	< 5W	Amber
AC OFF	Blanked	No	No	< 2W	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) *	867.7mm x 505mm x 183mm (incl. Pedestal, Speakers) 726.7mm x 469.3mm x 115mm (w/o Pedestal, Speakers)
• Weight	16.0 kg (incl. Pedestal, Speakers) 14.0 kg (w/o Pedestal, Speakers) 15.0 kg (w/o Pedestal, Speakers; with protective cover)
• Power supply	90 — 264 VAC, 50/60 Hz
• Power consumption	PC Mode: 130 W (typ.) TV Mode: 150 W (typ.)
• Temperature (operating)	0° C to 35° C
• Relative humidity	20% to 80%
• System MTBF	50K hrs (excluding CCFL 40Khrs)

* This data is subject to change without notice.

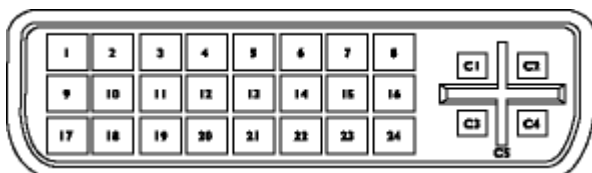
[RETURN TO TOP OF THE PAGE](#)

Pin Assignment

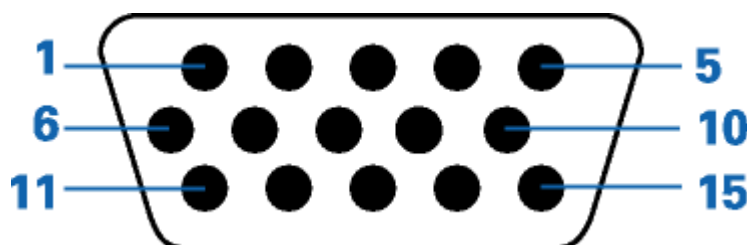
1. The digital only connector contains 24 signal contacts organized in three rows of eight contacts. Signal pin assignments are listed in the following table:

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	11	T.M.D.S. Data1/3	19	T.M.D.S. Data0/5

	Shield		Shield		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	Hot Plug Detect	23	T.M.D.S. Clock+
8	No connect	16	Ground (for +5V)	24	T.M.D.S. Clock-



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

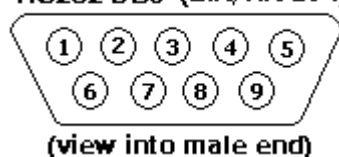


Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	DDC +5V
2	Green video input	10	Cable detect
3	Blue video input	11	Identical output, connected to pin 10
4	Ground	12	Serial data line (SDA)
5	NC	13	H. Sync / H+V
6	Red video ground	14	V. Sync
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

3. RS232 Connector

D-sub 9-pin male connector for communication with plasma engine or PC.

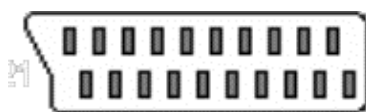
RS232 DB9 (EIA/TIA 574)



Pin No.	RS-232 (EIA-232-A) Function
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3	Transmit Data (TD) from DTE to DCE
2	Receive Data (RD) from DCE to DTE
7	Request to Send (RTS)
8	Clear to Send (CTS)
6	DCE Ready (DSR)
5	Signal Ground (SG)
1	Received Line Signal Detector (DCD)
4	DTE Ready (DTR)
9	Ring Indicator

4. SCART Connector



Pin No.	Signal	Pin No.
1	Audio right channel output (0.5 Vrms, < 1K ohms)	2
2	Audio right channel input (0.5 Vrms, > 10K ohms)	1
3	Audio left channel output (0.5 Vrms, < 1K ohms)	6
4	Audio ground	4
5	Blue signal ground	5
6	Audio left channel input (0.5 Vrms, > 10K ohms)	3
7	Blue signal I/O (0.7 Vp-p, 75 ohms)	7
8	Function switching I/O (L: < 2V, H: > 10V, 10K ohms)	8
9	Green signal ground	9
10	Intercommunication data line No. 1	10
11	Green signal I/O (0.7 Vp-p, 75 ohms)	11
12	Intercommunication data line No. 2	12
13	Red signal ground	13
14	Blanking signal ground	14
15	Red signal I/O (0.7 Vp-p, 75 ohms)	15
16	Blanking signal I/O (L: < 0.4V, H: >1.0V, 75 ohms)	16
17	Composite video signal ground	18

18	Blanking signal ground	17
19	Composite video signal output (1 Vp-p, 75 ohms, sync: negative)	20
20	Composite video signal input (1 Vp-p, 75 ohms, sync: negative)	19
21	Plug shield (common ground)	21

[RETURN TO TOP OF THE PAGE](#)

Product Views

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

Product Description

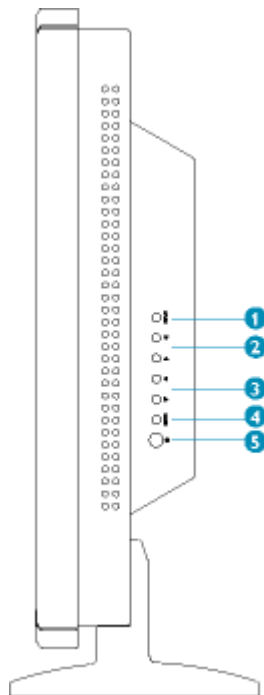
[RETURN TO TOP OF THE PAGE](#)

Installing your LCD Monitor/TV

[Product Description](#) • [Connecting to Your PC, TV antenna, DVD/VCR etc.](#) • [Getting Started Performance](#)

Product Description

Side View (Left)

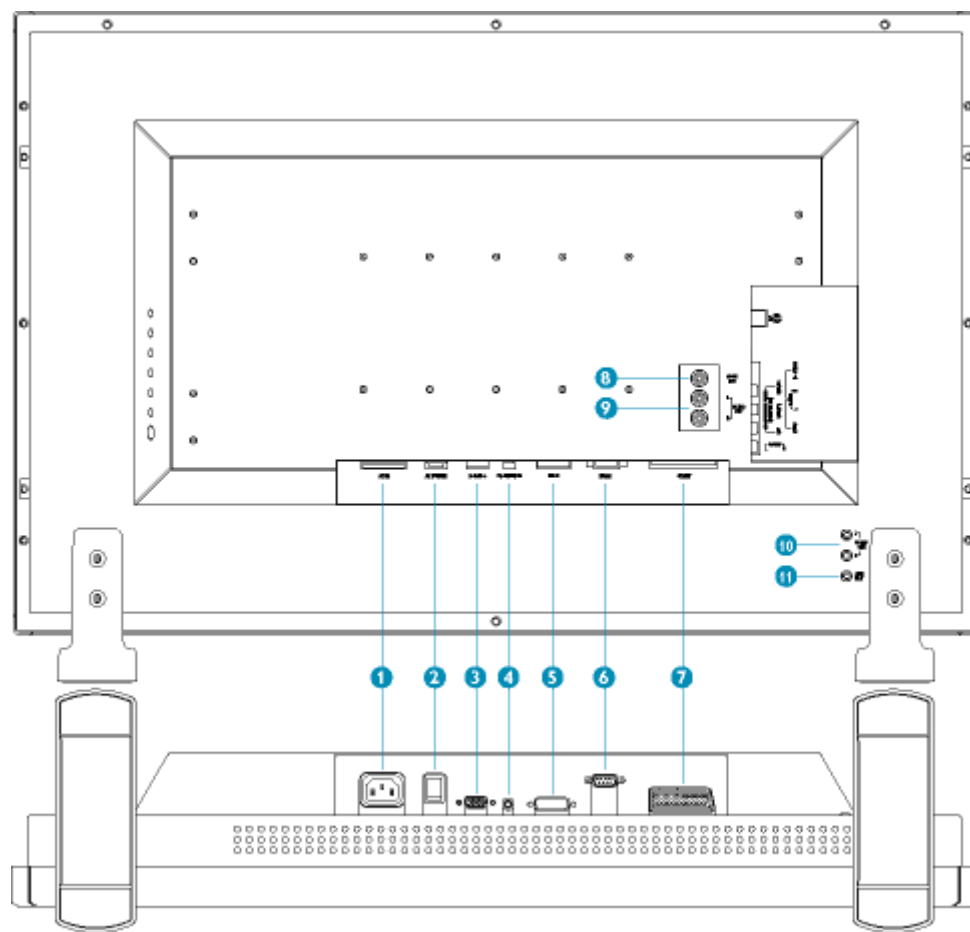


- | | | |
|---|---|---|
| 1 | INPUT | Selecting input source |
| 2 | ▼ ▲ | Increase or decrease the channel number
or
moving up or down to highlight the function in OSD |
| 3 | ◀ ▶ | Increase or decrease the level of audio volume
or
moving left or right of to highlight the sub-menu in the selected function of OSD |
| 4 | MENU | Open the OSD or confirm the selected function |
| 5 |  | DC power switch On/Off |

[RETURN TO TOP OF THE PAGE](#)

Rear View

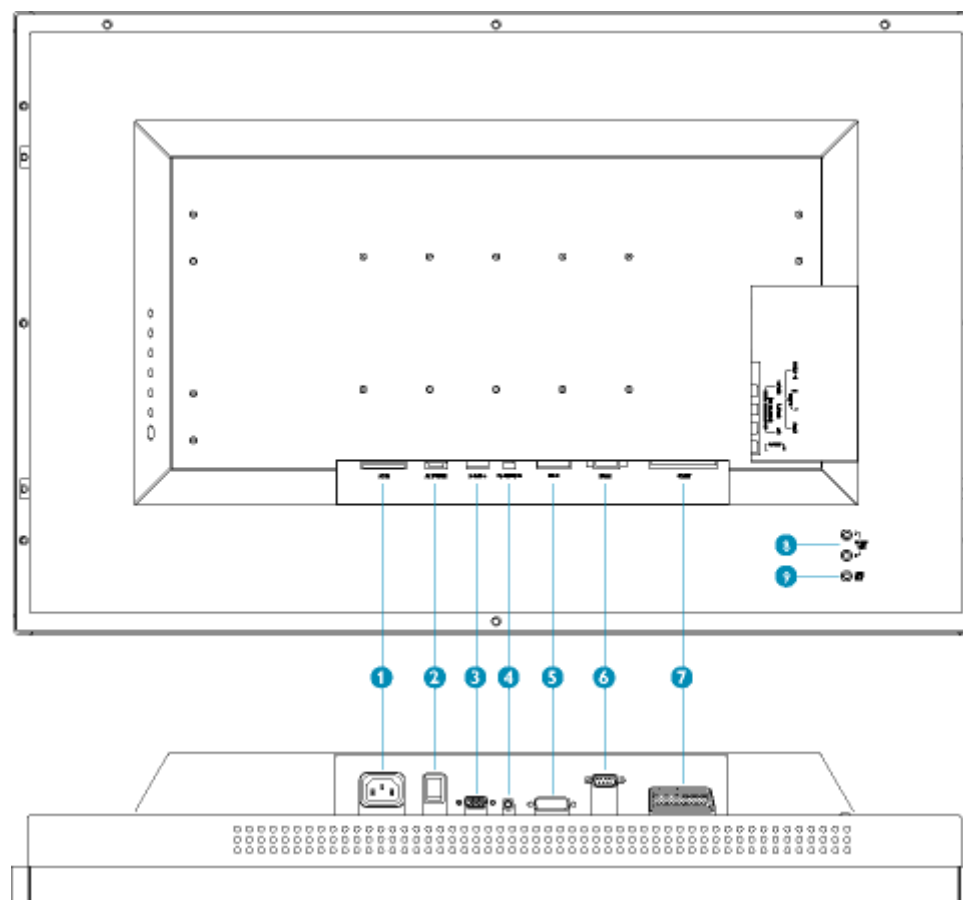
TV version



1	AC IN	AC power in
2	AC Power	AC power switch
3	D-Sub	PC analog D-Sub input
4	PC - Audio	PC Stereo input
5	DVI-D	PC
6	RS232	RS232 network connection
7	External/ EURO-AV	SCART connection (for Europe only)
8	Composite Video Output	Composite video CVBS output
9	Audio (L) Output Audio (R) Output	Audio (L) output Audio (R) output
10	Audio (L) Output Audio (R) Output	Audio (L) output for the detachable speaker (L) Audio (R) output for the detachable speaker (R)
11	Line out	Audio output for external speakers

[RETURN TO TOP OF THE PAGE](#)

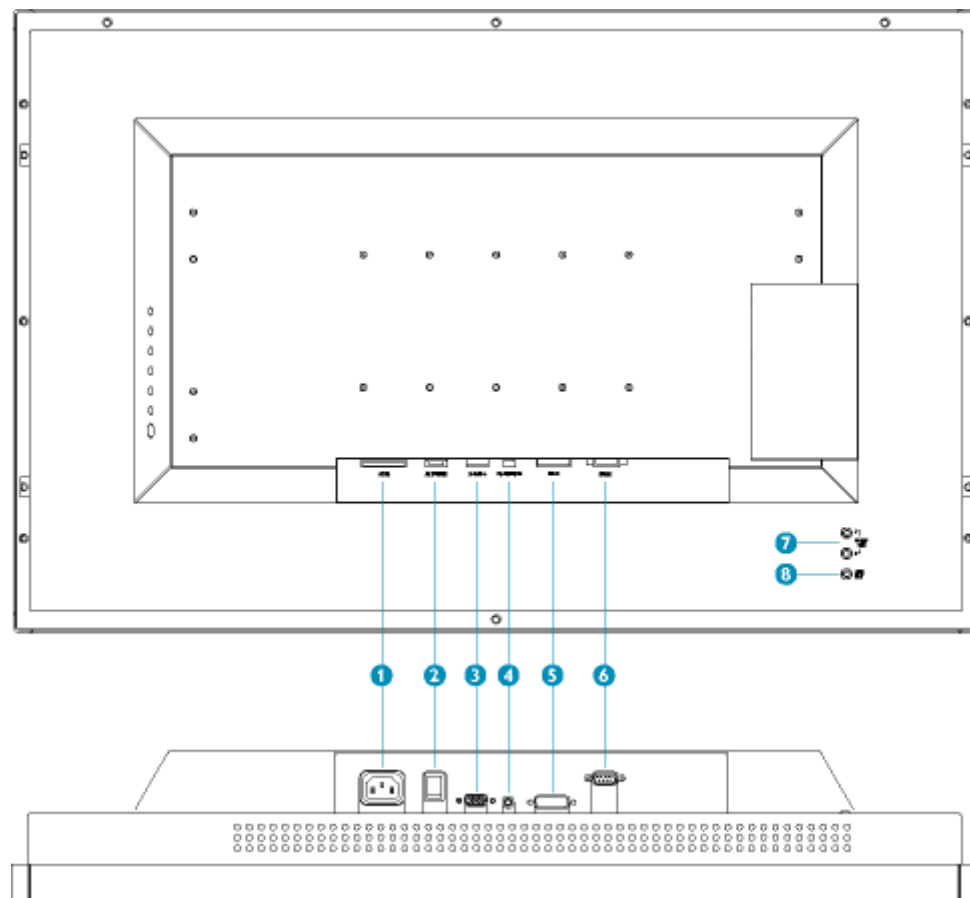
Audio/Video version



- | | | |
|---|----------------------|---|
| 1 | AC IN | AC power in |
| 2 | AC Power | AC power switch |
| 3 | D-Sub | PC analog D-Sub input |
| 4 | PC - Audio | PC Stereo input |
| 5 | DVI-D | PC |
| 6 | RS232 | RS232 network connection |
| 7 | External/
EURO-AV | SCART connection (for Europe only) |
| 8 | Audio (L) Output | Audio (L) output for the detachable speaker (L) |
| | Audio (R) Output | Audio (R) output for the detachable speaker (R) |
| 9 | Line out | Audio output for external speakers |

[RETURN TO TOP OF THE PAGE](#)

Monitor version

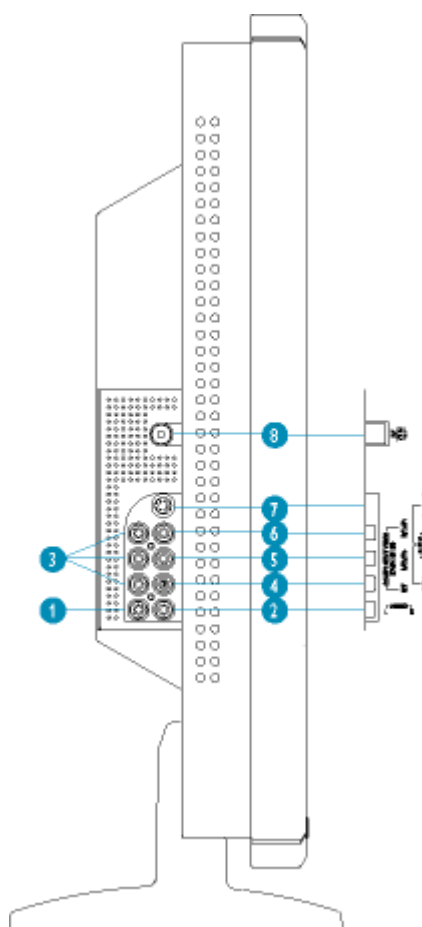


- | | | |
|---|------------------|---|
| 1 | AC IN | AC power in |
| 2 | AC Power | AC power switch |
| 3 | D-Sub | PC analog D-Sub input |
| 4 | PC - Audio | PC Stereo input |
| 5 | DVI-D | PC |
| 6 | RS232 | RS232 network connection |
| 7 | Audio (L) Output | Audio (L) output for the detachable speaker (L) |
| | Audio (R) Output | Audio (R) output for the detachable speaker (R) |
| 8 | Line out | Audio output for external speakers |

[RETURN TO TOP OF THE PAGE](#)

Side View (Right)

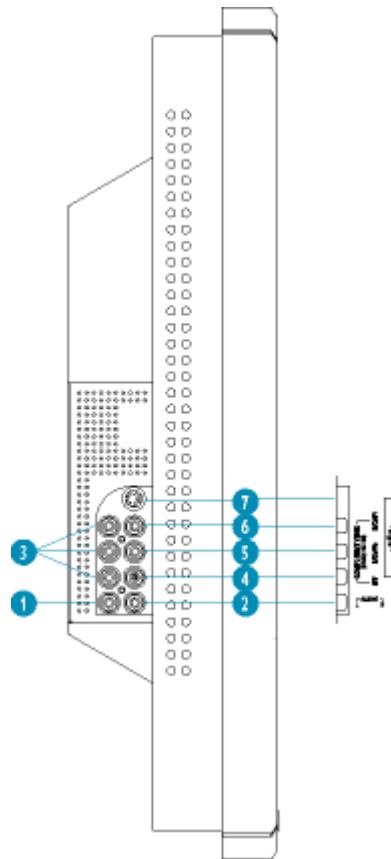
TV version



1	Audio (L)	Audio (L) for component video
2	Audio (R)	Audio (R) for component video
3	Component Video	Component video Y/Pb/Pr input
4	Composite Video	Composite video CVBS input
5	Audio (L)	Audio (L) for CVBS and S-Video
6	Audio (R)	Audio (R) for CVBS and S-Video
7	S-Video	S-Video input
8	RF 75 Ω	TV Antenna or CATV cable in

[RETURN TO TOP OF THE PAGE](#)

Audio/Video version



1	Audio (L)	Audio (L) for component video
2	Audio (R)	Audio (R) for component video
3	Component Video	Component video Y/Pb/Pr input
4	Composite Video	Composite video CVBS input
5	Audio (L)	Audio (L) for CVBS and S-Video
6	Audio (R)	Audio (R) for CVBS and S-Video
7	S-Video	S-Video input

[RETURN TO TOP OF THE PAGE](#)

Optimising Performance

- For best performance, ensure that your display settings are set at 1280x768, 60Hz.



Note: You can check the current display settings by pressing the 'MENU' button once.

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