

About This Electronic User's Manual

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About This Guide

This electronic user's guide is intended for anyone who uses the Philips 150B LCD Monitor. It describes the LCD monitor's features, setup, operation and other pertinent information. Its contents are identical to the information in our printed version.

Sections are as follows:

- [Safety and Troubleshooting Information](#) provides tips and solutions for common problems as well as other related information you may need.
- About This Electronic User's Manual gives an overview of information included, along with notation icon descriptions and other documentation for your reference.
- [Product Information](#) gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- [Installing Your Monitor](#) describes the initial setup process and gives an overview of how to use the monitor.
- [On Screen Display](#) provides information on adjusting the settings on your monitor.
- [Customer Care and Warranty](#) contains a list of worldwide Philips Consumer Information Centers along with help desk phone numbers and information on the warranty applicable to your product.
- [Glossary](#) defines technical terms.
- [Download and Print Option](#) transfers this entire manual to your hard drive for easy reference.

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Other Documents You May Need

In addition to this *Electronic User's Guide*, you may need to refer to the following documentation:

- *Philips LCD Monitor Quick Start Guide* which summarizes the steps for setting up the monitor getting start and optimizing performance. This is included with this product.

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Energy Star Declaration

PHILIPS

150P1*
140S1*
150B1*

This monitor is equipped with a function for saving energy which supports the VESA Display Power Manage. This means that the monitor must be connected to a computer which supports VESA DPMS to fulfill the requirement specification 803299/94. Time settings are adjusted from the system unit by software. From indicated inactivity the total time must not be set to more than 70 minutes.

NUTEK

Normal operation

Power Saving
 Position A1

Power Saving
 Position A2



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 quite 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 d

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessiv

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENC 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 REGLEMEN BROUILLEUR DU CANADA.

Product Information

[Product Features](#) •
 [Technical Specifications](#) •
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Product Features

150B

- 15" color LCD monitor with excellent display performance and viewing size comparable to a 17" CRT monitor.
- Super Wide viewing angle technology.
- Full advance AUTO function allowing user to adjust Vertical and Horizontal Position, Phase and Clock.
- Optional protective cover to prevent LCD screen damage.

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Technical Specifications*

LCD PANEL	
• Type	TFT LCD
• Screen size	15" visual
• Pixel Pitch	0.297 x 0.297mm
• LCD Panel type	1024 x 768 pixels R.G.B. vertical stripe Anti-glare polarizer hardness
• Effective viewing area	304.1x 228.1mm
• Display Colors	8 bits interface (16M colors)
VIDEO	
• Video dot rate	80 MHz
• Input impedance	
- Video	75 ohm
- Sync	2 kOhm
• Input signal levels	700m Vpp
• Sync input signal	Separate sync Composite sync

• Sync polarities	Positive and negative
• Input Frequency	XGA Hsync 48- 60 KHz, Vsync 60 - 75 Hz (N.I.) SVGA Hsync 35- 50 KHz, Vsync 56 - 75 Hz (N.I.) VGA Hsync 31- 38 KHz, Vsync 60 - 75 Hz (N.I.)
• Video interface	Analog (D-Sub)
OPTICAL CHARACTERISTICS	
• Contrast ratio	250 (typ.)
• Brightness	210 nits (typ.)
• Peak contrast angle	6 o'clock
• White Chromacity	x: 0.281 y: 0.311 (at 9300° K) x: 0.312 y: 0.338 (at 6500° K)
• Viewing Angle (C/R >5)	Upper >50 ° (typ.) Lower >55° (typ.) Left >75 ° (typ.) Right >75 ° (typ.)
• Response time	<=50ms (typ.)

* These information are subject to change without notice.

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Resolution & Preset Modes

- Maximum 1024 x 768 at 75Hz
- Recommended 1024x768 at 60Hz

14 USER DEFINABLE MODES

14 factory preset modes:

dot rate (MHz)	H. freq (KHz)	Mode	Resolution	V. freq (KHz)
25.175	31.469	IBM VGA 10h	640*350	70.086
28.322	31.469	IBM VGA 3h	720*400	70.087
25.175	31.469	IBM VGA 12h	640*480	59.940
30.200	35.000	MACINTOSH	640*480	67.000
31.500	37.861	VESA	640*480	72.809
31.500	37.500	VESA	640*480	75.000
36.000	35.156	VESA	800*600	56.250
40.000	37.879	VESA	800*600	60.317
50.000	48.077	VESA	800*600	72.188
49.500	46.875	VESA	800*600	75.000

57.300	49.700	MACINTOSH	832*624	75.000
65.000	48.363	VESA	1024*768	60.004
75.000	56.476	VESA	1024*768	70.069
78.750	60.023	VESA	1024*768	75.029

Automatic Power Saving

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

VESA Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	< 27W	0 %	Green
Stand-by	Blanked	No	Yes	< 5W	83.3%	Amber
Suspend	Blanked	Yes	No	< 5W	83.3%	Amber
OFF	Blanked	No	No	< 3W	90%	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.

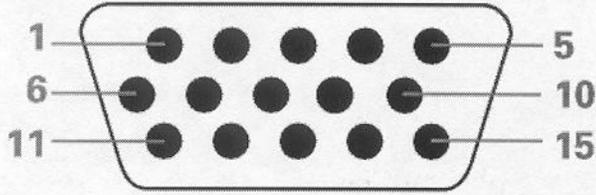
Physical Specifications

• Dimension (WxHxD)	387 x 375 x 165 mm (incl. Pedestal)
• Weight	5.0 Kg
• Power supply	100 — 240 VAC, 50/60 Hz
• Power consumption	27 W
• Temperature (operating)	0° C to 40° C
• Relative humidity	20% to 80%
• System MTBF	50K hrs (excluding LCD panel, CCFL) CCFL 40 Khrs (Panel dependant)

* These information are subject to change without notice

Pin Assignment

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



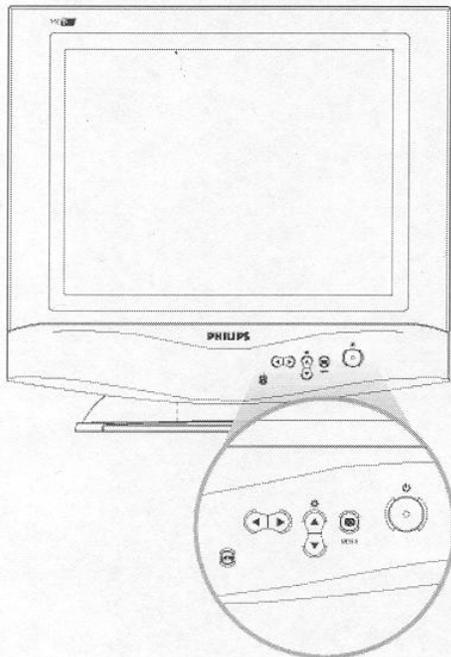
Pin No	Assignment	Pin No	Assignment
1	Red video input	9	No pin
2	Green video input	10	Logic ground
3	Blue video input	11	Identical output - connected to pin 10
4	Identical output - connected to pin 10	12	Serial data line (SDA)
5	Self test	13	H. Sync / H+V
6	Red video ground	14	V. Sync (VCLK for DDC)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

Installing your LCD Monitor

Your LCD Monitor : [Front View Product Description](#) • [Connecting to Your PC](#) • [Getting Started](#) • [Optimizing Performance](#)

Accessories (optional) : [Installing the Protective Cover](#) • [Installing the Wall Mount Kit](#)

Front View



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.



.OK button which when pressed will take you to the OSD controls



POWER button switches your monitor on



Automatically adjust the horizontal position, vertical position, phase and clock setting.

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- For best performance, ensure that your display settings are set at 1024x768@60Hz (for 150B) or 1280x768, 60Hz (for 181AS).

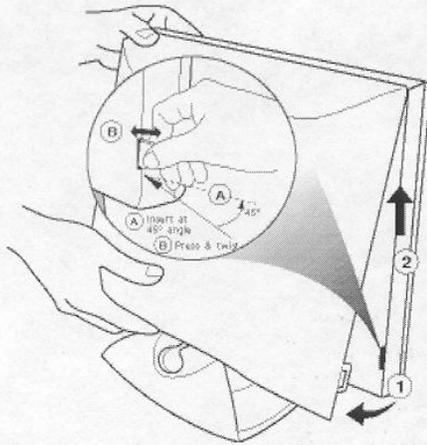


Note: You can check the current display settings by pressing the OSD "OK" button once. Go into the Product Information. The current display mode is shown on the item called RESOLUTION.

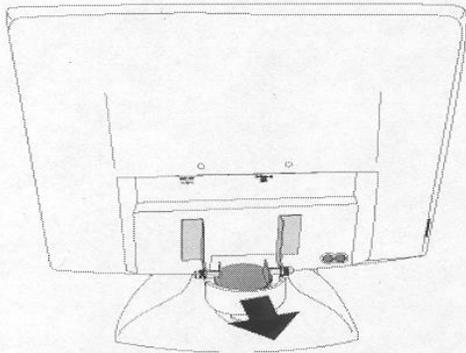
- You can also install the Flat Panel Adjust (FP Adjust) program, a program for getting the best performance out of your monitor, included in this CD. A step-by-step instructions is provided to guide you through the installation process. Click on the link to know more about this program.

More about  [FPadjust Program](#)

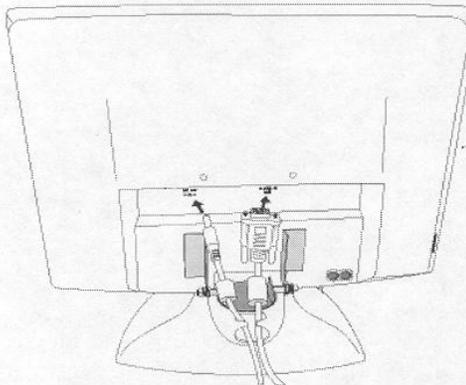
Connecting to Your PC



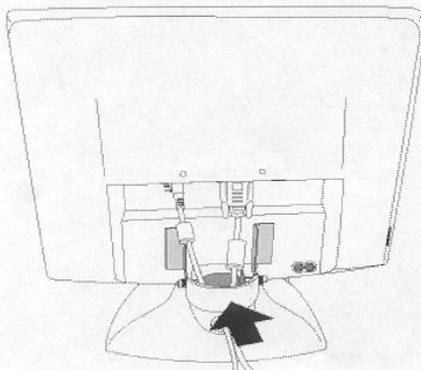
To remove the back cover, use a coin to disengage the clips on each side, then pull from the bottom at lift.



Remove the plastic ring from the hinge

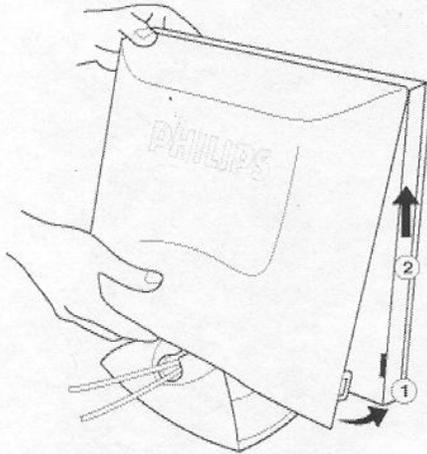
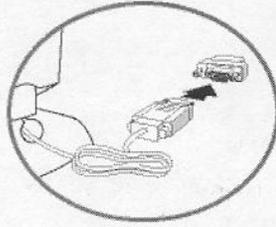


Plug in the video cable into VGA connector, and connect DC power cord into DC inlet

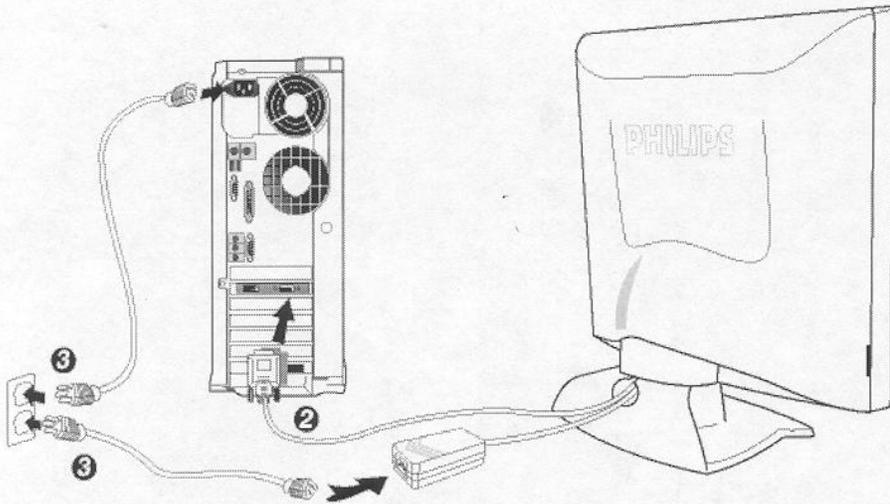


Cover the cables with the plastic ring and put the ring back on the hinge

NOTE: If you use an Apple Macintosh™, you need to connect the special Mac adapter to one end of the monitor signal cable



Replace the back cover on the monitor



6) Connect to Your PC

6.1 Turn off your computer and unplug its power cable.

6.2 Connect the monitor signal cable to the video connector on the back of your computer.

6.3 Plug the power cord of your computer and your monitor into a nearby outlet.

6.4 Turn on your computer and monitor. If the monitor displays an image, installation is complete.