

Installstion and Operating instructions

Product Information

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Product Features

150P3A / 150P3C

Ultra Slim Frame

- 15-inch color LCD monitor with excellent display performance
- Stereo 48W PMPO (2 x 2W RMS)
- Dual input- accepts both DVI Digital and VGA analog inputs
- Embedded universal AC power supply
- Adjustable viewing height
- Portrait and landscape display
- AUTO adjustment optimizes picture quality
- User installable bezel for optional protective cover choice
- Optional USB hub

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Technical Specifications*

LCD PANEL	
• Type	TFT LCD
• Screen size	15" visual
• Pixel Pitch	0.297 x 0.297mm (15.0")
• LCD Panel type	1024 x 768 pixels R.G.B. vertical stripe Anti-glare polarizer hardness
• Effective viewing area	304.1 x 228.1mm (15.0")
• Display Colors	16.7M colors
SCANNING	
• Vertical refresh rate	56Hz-76Hz
• Horizontal	

Horizontal frequency	30KHz-61KHz
VIDEO	
• Video dot rate	80 MHz
• Input impedance	
- Video	75 ohm
- Sync	5K6 ohm
• Input signal levels	700m Vpp
• Sync input signal	Separate sync Composite sync Sync on Green
• Sync polarities	Positive and negative
• Input Frequency	XGA Hsync 48- 61 KHz, Vsync 60 - 76 Hz (N.I.) SVGA Hsync 35- 50 KHz, Vsync 56 - 75 Hz (N.I.) VGA Hsync 31- 38 KHz, Vsync 60 - 76 Hz (N.I.)
• Video interface	<u>Dual input</u> : Both Analog (D-Sub) and DVI-D (Digital only) are available. It can be switching via OSD selection.
AUDIO	
• Input signal level	0.7 Vpp
• Headphone out signal level	32 Ohm 20+20mW
• Input signal connector	3.5mm mini jack
• Loudspeaker	2+2W stereo front firing (PMPO: 48W)
MICROPHONE	
• Sensitivity	-55dB re 1V/ubar at 1KHz
• Output impedance	2.2K Ohm max.
• Directivity	-5dB at 180°
• Frequency range	300Hz-3KHz
OPTICAL CHARACTERISTICS	
• Contrast ratio	350 (typ.)
• Brightness	250 cd/m ² (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 ≥60° (typ.) Left ≥75 ° (typ.) Right ≥75 ° (typ.)
• Response time	≤30ms (typ.)

* These information are subject to change without notice.

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Resolution & Preset Modes

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

14 user definable modes

14 factory preset modes:

H. freq (KHz)	Resolution	V. freq (Hz)
31.469	640*350	70.086
31.469	720*400	70.087
31.469	640*480	59.940
35.000	640*480	67.000
37.861	640*480	72.809
37.500	640*480	75.000
35.156	800*600	56.250
37.879	800*600	60.317
48.077	800*600	72.188
46.875	800*600	75.000
49.700	832*624	75.000
48.363	1024*768	60.004
56.476	1024*768	70.069
60.023	1024*768	75.029

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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:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED color
ON	Active	Yes	Yes	< 30W	Green
Stand-by	Blanked	No	Yes	< 2W	Amber
Suspend	Blanked	Yes	No	< 2W	Amber
OFF	Blanked	No	No	< 2W	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) *	343 x 354 x 179 mm (incl. Pedestal)
• Weight *	4.6 Kg
• Swivel	+/- 175°
• Portrait display	90° rotation counter clockwise
• Tilt (Forward / Backward)	- 5° / 25°
• Power supply	100 — 240 VAC, 50/60 Hz
• Power consumption	23 W (typ.)
• Temperature (operating)	5° C to 40° C
• Relative humidity	20% to 80%
• System MTBF	50K hrs (CCFL 40Khrs)
• Cabinet color	150P3A: Light Gray 150P3C: Black

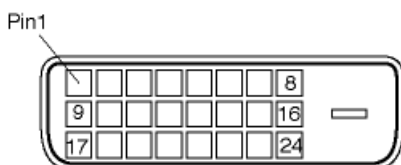
* These information are subject to change without notice.

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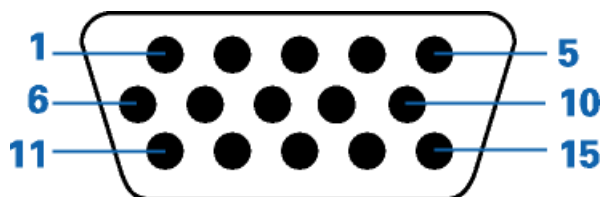
Pin Assignment

1. The digital only connector contains 24 signal contacts organized in three rows of eight contacts. Signal pin assignments are listed in the 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	DDC +5V
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	Cable detect	13	H. Sync / H+V
6	Red video ground	14	V. Sync
7	Green video ground	15	Data clock line (SCL)

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Product Views

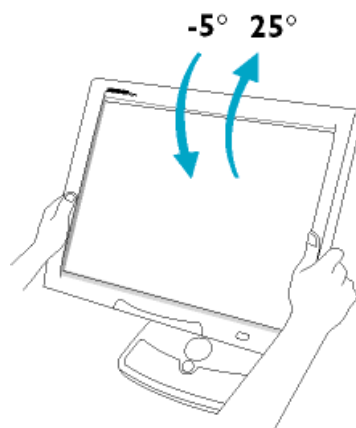
Follow the links to see various views of the monitor and its components.

[Front View Product Description](#)

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Physical Function

1) Tilt



2) Swivel



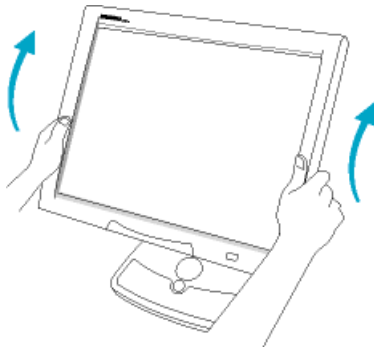
3) Height adjustment



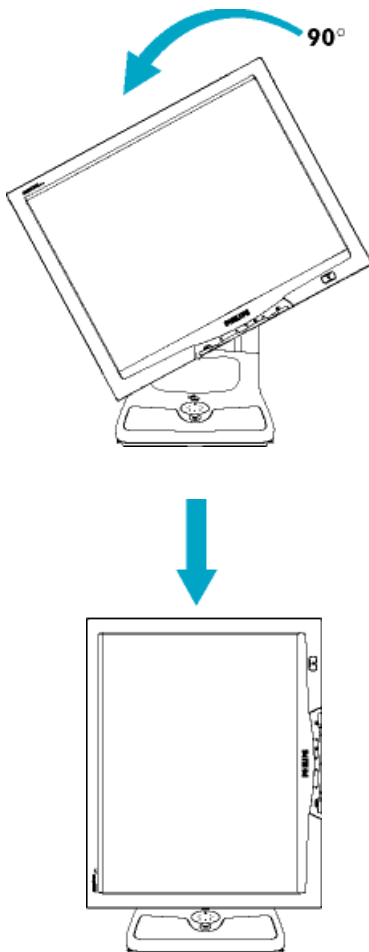
4) Portrait display

Turn monitor from landscape view to portrait view

4.1) Tilt the monitor body at an angle



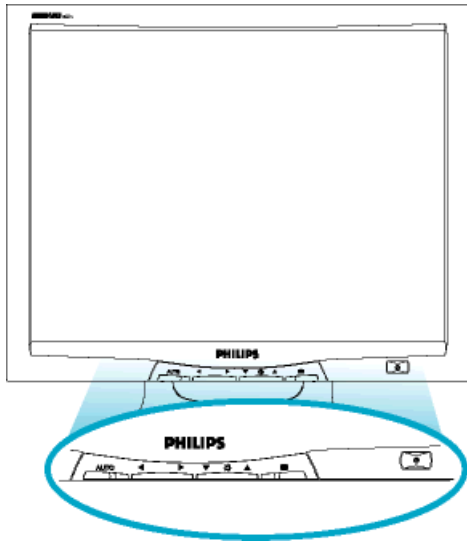
4.2) Rotate the monitor body 90 degrees counter clockwise.



Installing your LCD Monitor

Your LCD Monitor : [Front View Product Description](#) • [Connecting to Your PC](#) • [Remove and Re-install the Base](#) • [Getting Started](#) • [Optimizing Performance](#) • [Accessories \(optional\)](#)

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.



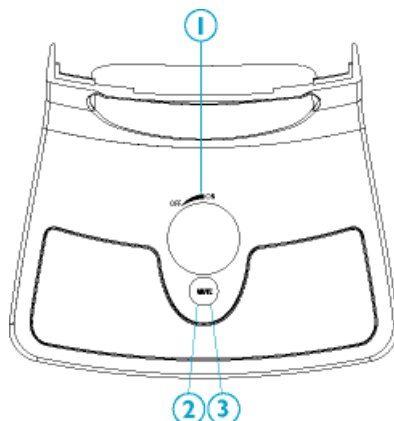
OK button which when pressed will take you to the OSD controls



POWER button switches your monitor on

AUTO

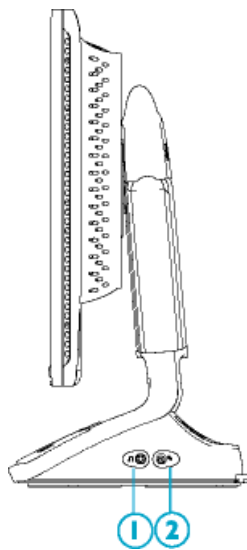
Automatically adjust the horizontal position, vertical position, phase and clock setting.



1. Audio power on/off and volume adjustment
2. Audio power LED
3. Mute on/off

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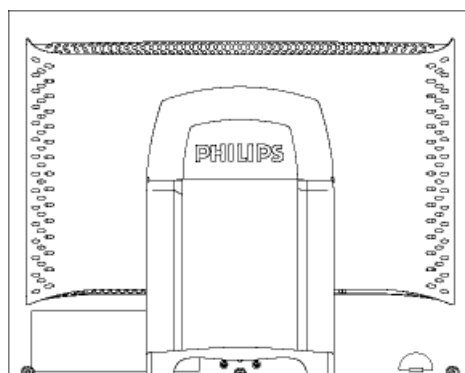
Side View

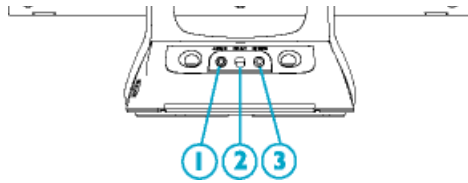


1. Headphone Jack
2. Microphone Jack

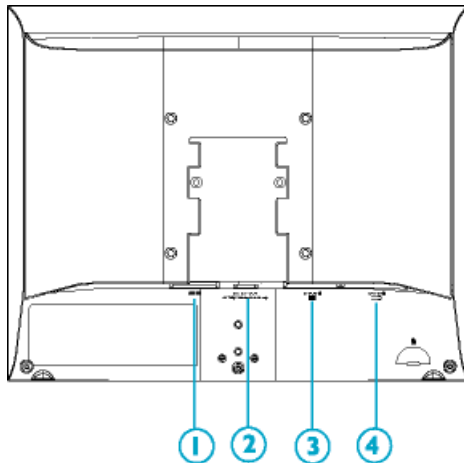
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Rear View





1. Audio in
2. Mic out
3. DC 12V in



1. AC power in
2. DC 12V out for Philips Multimedia Base only
3. D-SUB Connector
4. DVI-D Connector

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Optimizing Performance

- For best performance, ensure that your display settings are set at 1024x768@60Hz (for 14"/15") or 1280x1024, 60Hz (for 17"/18").



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, included in this CD. A step-by-step instructions is provided to guide you through the installtion process. Click on the link to know more about this program.

More about  [FP_setup01.exe](#)

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This monitor is equipped with a function for saving energy which supports the VESA Display Power Management Signaling (DPMS) standard. This means that the monitor must be connected to a computer which supports VESA DPMS to fulfill the requirements in the NUTEK specification 803299/94. Time settings are adjusted from the system unit by software. From indicated inactivity to Power Saving Position A2, the total time must not be set to more than 70 minutes.

NUTEK	VESA State	LED Indicator	Power Consumption
Normal operation	ON	Green	< 30 W
Power Saving Position A1	Suspend	Amber	< 2 W
Power Saving Position A2	OFF	Amber	< 2W



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 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 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.