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English	Information for Users in the U.S
-	FCC Declaration A2
	ENERGY DECLARATION A3
	TCO'99A4-A5
Deutsch	Hinweis / GS / ACHTUNG
Français	FCC Declaration
Dansk	ADVARSEL
Norsk	ADVARSEL
Svenska	VARNING
Suomi	VAROITUS

BECAUSE OF CONTINUOUS PRODUCT IMPROVEMENTS,

THE INFORMATION MENTIONED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

Introduction

The Philips Brilliance 107MP/109MP color monitor displays sharp and brilliant images of text and graphics with a maximum resolution of 1600x1200 (for 107MP); 1800x1350 (for 109MP) pixels. It is optimal for Windows, CAD / CAM / CAE, desktop publishing, spread sheets, multi-media, and any other application that demands a large screen size and high resolutions.

The monitor automatically scans horizontal frequencies from 30KHz to 95KHz (107KHz for 109MP), and vertical frequencies from 50Hz to 160Hz. With microprocessor-based digital-controlled circuitry and On-Screen Display (OSD) controls, the monitor can automatically adjust itself to the video card's scanning frequency and displays an image with the precise parameters you desire.

Features

• An anti-glare, anti-static, and anti-reflection super highcontrast screen coating eliminates any bad effects caused by room light reflecting on and dust attracted to the screen's surface.

• With the Color Adjustment feature, you can easily choose different preset color temperatures or set your own customized white point for different application.

• The Image Tilt Adjustment feature corrects a rotated image. This correction minimizes the distortions caused by elements such as the Earth's magnetic field.

• The zoom feature allows you to adjust the image on your

screen, both enlarging and reducing its overall size.

• USB Bay at back of monitor is prepared for the Universal Serial Bus hub. You can easily and flexibly connect USBdesigned devices – such as a mouse or keyboard – to the monitor for true Plug-and-Play function. USB hub shipped separately.

• Green Design – including automatic power saving function (NUTEK) and low-emission compliance

(TC0 '99) – shows your commitment to the environment.

• DDC1/DDC2B allows communication between the monitor and the PC for optimal video configuration.

•New CrystalClear II technology delivering sharper, brighter and higher contrast images across the entire screen.

• Moire Cancellation eliminates diffraction, a fringe pattern in the picture.

Note: Your monitor operates according to the VESA DDC level 1/2B. Only computers that support the same guidelines and operate at the same or a higher level can make use of this feature. If your computer does not support the relevant guidelines, you can still use your monitor and computer. However, you may need to manually specify the appropriate resolution in the computer.

As an ENERGY STAR[®] Partner, PHILIPS has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.



Contact us at our web site: http://www.monitors.philips.com

Safety precautions and maintenance

• Unplug the monitor, if you are not going to use it for an extended period of time.

• Unplug the monitor, if you need to clean it with a slightly damp cloth. Wiping the screen with a dry cloth is okay when the power is off. However, never use alcohol or ammonia-based liquids.

• Consult a service technician if the monitor does not operate normally when following the instructions in this manual.

• The back cover should be removed only by qualified service personnel.

• Keep the monitor out of direct sunlight and away from stoves or any other heat source.

• The top of the monitor is not a shelf. Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.

- Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- Keep the monitor away from magnetic objects, such as speakers, electric motors, transformers, etc.

• When positioning the monitor, make sure the power plug and outlet are easily accessible.

End-of-life disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor.

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DESCRIPTION OF CONTROLS



Description of Controls



PEDESTAL – With the built-in pedestal, you can tilt and swivel the monitor to the most comfortable viewing angle. To best use your monitor, always place it at eye level.

FRONT-PANEL MUTE BUTTON



USING THE FRONT-PANEL MUTE BUTTON -To turn the mute ON and OFF, press the MUTE button to highlight either ON or OFF. For another way to mute the sound, see page 14.

ON SCREEN DISPLAY – Your monitor is preset at the factory. However, you can adjust it using the ON SCREEN DISPLAY button and the ROTARY knob described on page 2. The way to do so is through the On Screen Display (OSD). Below is a brief description of the six On Screen Display windows.



AUDIO CONTROLS – This fifth window highlighted after the OSD has been selected. It has four features: MUTE, BASS, TREBLE, and BALANCE. To adjust these features, turn to page 14.

CONTROLS, OSD CONTROLS, and VIDEO INPUT. To adjust these features, turn to pages 10 - 13.

Note: Language allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See page 10 for details.

How TO USE THE ON SCREEN DISPLAY (OSD)

MAIN CONTROLS WINDOW

BRIGHTNESS

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. A 50% brightness level is recommended.



 \ldots to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)





HOW TO USE THE ON SCREEN DISPLAY (OSD)

MAIN CONTROLS WINDOW







How TO USE THE ON SCREEN DISPLAY (OSD)

SCREEN SIZE & POSITION WINDOW





On Screen Display (OSD) button in step 6], turn the Rotary knob unt another feature – for example, HORIZONTAL POSITION – is highlighted. Next, follow steps 2 - 6 under HORIZONTAL POSITION.

... after you have exited completely, press the OSD button and follow the steps under that feature, for example, HORIZONTAL POSITION.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

steps 2a - 2c under GEOMETRY WINDOW on the next page.



... TO exit completely, press the ON SCREEN DISPLAY button and hold for 1.5 seconds. The On Screen Display will disappear. All changes will be saved. To make changes to one item, follow the steps for that item. Then, follow "To exit Geometry Controls"

To return to factory presets, see "To Reset an Individual Window" on page 16.



COLOR TEMPERATURE WINDOW





After returning to Color Temperature ...

... to continue to Advanced Color Control, turn the Rotary knob until Advanced Color Control is highlighted. Next, follow steps 3 - 9 under Advanced Color Control on the next page.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)







How to Use the On Screen Display (OSD)

Special Controls window

Advanced Control ADVANCED CONTROLS is a set of Six adjustments. Shu Л They include UP CORNER, BUTTOM CORNER, VERTICAL LINEARITY, MOIRE, ROTARY DEFAULT, and POWER SAVING. CORNER CORRECTION "squares up" the corners of an image on the screen To adjust your Corner Correction, follow the steps below. Press the ON SCREEN n DISPLAY button. DOBO ROOM Turn the ROTARY 2 knob until the ¢0⊡⊿ ADVANCED CONTROLS a e ome t r v EXIT color icon is highlighted. colo RESET______ 1년 2년 3년 ③ _____ special 🖘 🗩 💭 audio ₩ 9:6 № 1600x1200 93.8K/75H2 ADVANCED CONTROLS ¢ O ⊡ ⊿ geometry EXIT color 回回回回 RESET 1년 2년 3년 ③ audio special = 🔍 🗐 ₩ 9: 6 ⊾⊿ 1600x1200 93.8K/75HZ 6 Press the ON Press the ON SCREEN DISPLAY SCREEN DISPLAY button to bring up button to bring up Advanced Controls ADVANCED CONTROLS screen. screen. ADVANCED CONTROLS BUTTOM CORNER ТДШ 🗐 🗉 🛥 BUTTOM CORNE If necessary, turn the ROTARY Д knob until Up Corner or BUTTOM CORNER is highlighted. 5 Turn the Rotary knob to adjust Then, press the ON SCREEN the UP CORNER OR BUTTOM DISPLAY button. CORNER. Smart Help After returning to Advanced Controls to continue to Vertical Linearity, turn the Rotary knob until Vertical LINEARITY icon is highlighted. Next, follow steps 4 - 6 under VERTICAL LINEARITY (on the next page). ... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

Advanced Controls

ADVANCED CONTROLS is a set of five adjustments, including VERTICAL LINEARITY. Linearity is the degree with which the actual location of a pixel on the screen corresponds with its intended location. To adjust your VERTICAL LINEARITY, follow the steps below.

How to Use the On Screen Display (OSD)

Exit and Reset

Exit & Reset from the On Screen Display

Exiting from the On Screen Display removes the On Screen Display from the monitor screen. Resetting from the On Screen Display returns everything in all the windows to factory presets.

1600x1200 93.8K/75HZ

Additional Hook Up Options

BNC and USB Set Ups

BNC Connections

BNC is another way to connect the monitor to the computer. This connection requires an optional BNC cable. It can be connected to either a Macintosh- or IBM-compatible computer. For those who work with graphics or designs, this option may be better.

Note: Be sure to flip the D-SuB/BNC switch to BNC when using this connection.

For an IBM-compatible computer:

1. Turn off the computer.

2. Connect the (optional) BNC monitor cable and set D-SuB/BNC switch to BNC.

- 3. Connect the power cable.
- 4. Turn on the monitor. Then turn on the computer.

5. If you have Windows '95, follow the "If you have Windows '95" steps on the Setting Up foldout sheet.

For a Macintosh-type computer:

- 1. Connect the Mac adapter to one end of the monitor cable.
- 2. Turn off the computer.

3. Connect the (optional) BNC monitor cable and set D-SuB/BNC switch to BNC.

- 4. Connect the power cable.
- 5. Turn on the monitor. Then turn on the computer.

Refer to the "Setting Up your Philips monitor" foldout for a more detailed guide to setting up your monitor.

Connections

USB (Universal Serial Bus) is an innovation in connecting your IBM-compatible computer to your monitor. By using the USB, you will be able to connect your keyboard, mouse, printer, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. Plus, you will have true plug-and-play capability. While the software is still being developed, Philips has included the hardware so you will be ready to take advantage of this next generation in computer development.

For an IBM-compatible Computer:

1. Turn off the computer.

2. Connect the (optional) USB Hub and cable to the computer and to the monitor. (Computer must have USB port.)

- 3. Connect the power cable.
- 4. Turn on the monitor. Then turn on the computer.

5. With the installation of the correct software, you will be able to connect specially-made peripherals to the monitor.

Note: USB Hub and cables sold separately. USB Bay exists in back of monitor.

Additional information

Audio hook ups and Power saving feature

Microphone and Earphones jacks

In addition to built-in speakers and microphone, you can connect this monitor to optional earphones and a microphone. The jacks are on the right side of the monitor.

To use the microphone with your computer or an amplifier, make the connections shown below.

Note: When the earphones are plugged in, there will be no sound from the built-in speakers.

Microphone and Audio-in jacks

A microphone jack is on the back of the monitor. Use it and the supplied cable to connect your monitor to your computer or an amplifier (if either has the right type of jack).

On the back of this monitor there is also one set of left and right audio-in jacks. Use them and the supplied cable to connect your monitor to your computer or an amplifier (if either has the right type of jacks).

See page 2 for more detailed illustrations of the jacks' locations.

Refer to the owner's manuals included with your earphones and microphone for a detailed guide to setting up these items.

Automatic Power Savings & Preset Resolution Modes

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. If input from a keyboard, mouse, or other device is detected, the monitor automatically "wakes up." The table at left shows the power consumption and signalling of this automatic power-saving feature. To turn this feature on and off, see page 12. The table at right shows the 12 factory preset resolution modes. The maximum number of modes is 16. This leaves room for additions.

Power Management Definition											
VESA's mode	Video	H-sync	V-sync	Power	Power	LED					
				used	saving(%)	color					
ON	Active	Yes	Yes	< 110W	0%	Green					
Stand-by	Blanked	No	Yes	< 15W	86.3%	Yellow					
Suspend	Blanked	Yes	No	< 15W	86.3%	Yellow					
0FF	Blanked	No	No	< 3W	97.2%	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. The proper operation of the function requires a computer with VESA DPMS power management capabilities. When used with a computer equipped with VESA DPMS, the monitor is ENERGY STAR[®] compliant.

	Factory Pre	set Resolutio	n Mode	es
Mode	RESOLUTION	Н. Freq. (Кнz)	V. Frec (Hz)	. Standard
1	640 x 400	31.5	70	VGA
2	640 x 480	31.5	60	VGA
3	640 x 480	37.5	75	VESA/75
4	800 x 600	46.9	75	VESA/75
5	800 x 600	53.7	85	VESA/85
6	1024 x 768	60	75	VESA/75
7	1024 x 768	68.6	85	VESA/85
8	1152 x 870	69.0	75	MAC
9	1152 x 900	71.8	76	SUN SPARC
9*	1600 x 1280	101.8	76	SUN SPARC
10	1280 x 1024	80.0	75	VESA/75
11	1280 x 1024	91.0	85	VESA/85
12	1600 x 1200	93.8	75	VESA/75
13*	1600 x 1200	106.2	85	VESA/85
* only	y for 109MP			

Additional Information

Coming to Terms with this Book

Specifications

General CRT

Screen size Viewable Image Size (VIS) Focusing method Dot pitch Phosphor

Screen treatment

Display area Factory preset Maximum usable Scanning frequency Horizontal (line) Vertical (frame) Input power Power consumption

Thermal dissipation

Input signal Video Sync

Pedestal

- Tilt Swivel Physical Unit dimension (WxHxD)
- Net weight Operating conditions Temperature

Humidity Storage conditions Temperature Humidity :17" (43.2 cm) flat & square :16.0" :Dynamic focus :0.22 mm (horizontal) :P22 or equivalent, medium short persistence :ARASC Super High Contrast

:300 mm (H) x 225 mm (V) :326.5 mm (H) x 242 mm (V)

:30-95kHz (AutoScan) :50-160 Hz (AutoScan) :100-240 V AC, 50-60 Hz :< 125 W (w/ USB, audio) < 110 W (w/o USB, audio) :375.4 BTU normal (w/o USB) 426.6 BTU maximum (w/USB)

:0.7 or 1.0 Vpp, 75 Ohm impedance :Separate sync. TTL level Composite sync. TTL level

:5° forward, 11° backward :90° left, 90° right

:442 x 433 x 500 mm (17.4" x 17" x 19.7") :20.5 kg (45.2 lbs.)

:0° C - 40° C :10% - 90%

:-40° C - 60° C :5% - 95%

Specifications

General CRT

Screen size Viewable Image Size (VIS) Focusing method Dot pitch Phosphor

Screen treatment

Display area Factory preset Maximum usable Scanning frequency Horizontal (line) Vertical (frame) Input power Power consumption

Thermal dissipation

Input signal Video

Sync Pedestal

Tilt Swivel Physical Unit dimension (WxHxD)

Net weight Operating conditions

Temperature Humidity

Storage conditions Temperature Humidity :19" (48.2 cm) flat & square :18.0" :Dynamic focus :0.22 mm (horizontal) :P22 or equivalent, medium short persistence :ARASC Super High Contrast

:340 mm (H) x 255 mm (V) :365.5 mm (H) x 273 mm (V)

:30-107kHz (AutoScan) :50-160 Hz (AutoScan) :100-240 V AC, 50-60 Hz :< 135 W (w/ USB, audio) < 110 W (w/o USB, audio)

:375.4 BTU normal (w/o USB) 426.6 BTU maximum (w/USB)

:0.7 or 1.0 Vpp, 75 Ohm impedance :Separate sync. TTL level Composite sync. TTL level

:5° forward, 11° backward :90° left, 90° right

:485 x 490 x 515 mm (19.1" x 19.3" x 20.3") :24.5 kg (53.9 lbs.)

:0° C - 40° C :10% - 90%

:-40° C - 60° C :5% - 95%

Pin Assignment

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

Glossary

Here are a few definitions that may help you.							
Degauss	The process by which metal parts of the monitor are demagnetized in order to reduce screen distortion and color impurity.						
D-Sub/ BNC	Two ways of connecting your monitor to your computer. Your monitor comes with a D-Sub cable. For work with a heavy emphasis on graphics, a BNC cable is recommended.						
Geometry	A set of controls that allows you to adjust the alignment of the picture on the monitor screen. The goal is to "square up" the picture. This is done by adjusting such items as balanced pincushion, pincushion, parallelogram, rotation, and trapezoid.						
Moire	A fringe pattern caused by the interference between two superimposed line patterns.						
USB	Universal Serial Bus. A way to connect your computer, monitor, and peripherals for true Plug-and-Play functions.						

Additional Information

What to Do if Something isn't Working

Troubleshooting

Having trouble? Something not	working? Before calling for help, try these suggestions.
Having this problem? No Picture (Power LED not lit)	CHECK THESE ITEMS Make sure the Power cable is plugged in the wall and back of the monitor. Power button on top of the monitor should be in the ON position. Disconnect the monitor from the power outlet for about one minute.
No Picture (Power LED is Amber or Yellow in color)	Make sure the computer is turned on. Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17. Make sure the monitor cable is properly connected to your computer. Check to see if the monitor cable has bent pins. The Energy Saving Feature may be activated. See pages 12 and 18 for more detail.
No Picture (Power LED is Green in color)	Make the Brightness and Contrast controls are set correctly. See page 4 for details Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17. Make sure the monitor cable is properly connected to your computer. Check to see if the monitor cable has bent pins. Make sure the computer Power button is on.
Screen says	Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17. Make sure the monitor cable is properly connected to your computer. See Setting Up foldout. Check to see if the monitor cable has bent pins. Make sure the computer is turned on
when you turn on the monitor.	
No Color	If you are using a non-VESA-DDC standard video card, consult your local Philips dealer or service organization to obtain an adapter.
Color appears blotchy	The picture may need degaussing. See page 5 for details. Remove any nearby magnetic objects. Face the monitor East for best picture quality.
Missing one or more colors	Check user settings of Color Temperature. See pages 8 and 9 for details. Make sure the monitor cable is properly connected to your computer. Check to see if the monitor cable has bent pins.
Dim Picture	Adjust the Brightness and Contrast controls. See page 4 for details. Check the Video Input selection and switch from 0.7 volts to 1.0 volts or 1.0 volts to 0.7 volts. See page 13. Check your video card and the manual instructions for it. It may be a non-VESA-DDC Standard card.
Picture is too large or too small	Adjust the Horizontal and/or Vertical Size. See pages 7 and 8 for details.
Edges of the picture are not square	The geometry controls require adjusting. See page 15 for details.
Picture has a double image	Eliminate the use of a video extension cable and/or video switch box. Face the monitor East for best picture quality.
Picture is not sharp	Check to make sure Moire is switched off. See page 11.
No Audio	Make sure mute is not activated. See pages 2 and 14 for details. Rotary Default may be set to Brightness or Contrast. See page 12 for details. Make sure the Right & Left Audio in cable is securely plugged into the monitor and the audio source. See pages 2 and 18 for details.
Unstable Picture	Increase your refresh rate. Consult your computer manual for details.
Windows '95 cannot find your video card	Select "Super VGA" under STANDARD DISPLAY TYPES, or contact your video card manufacturer for the right drivers.

Additional Information

