

*EXHIBIT 4*

*User's Manual*

*User's Manual*

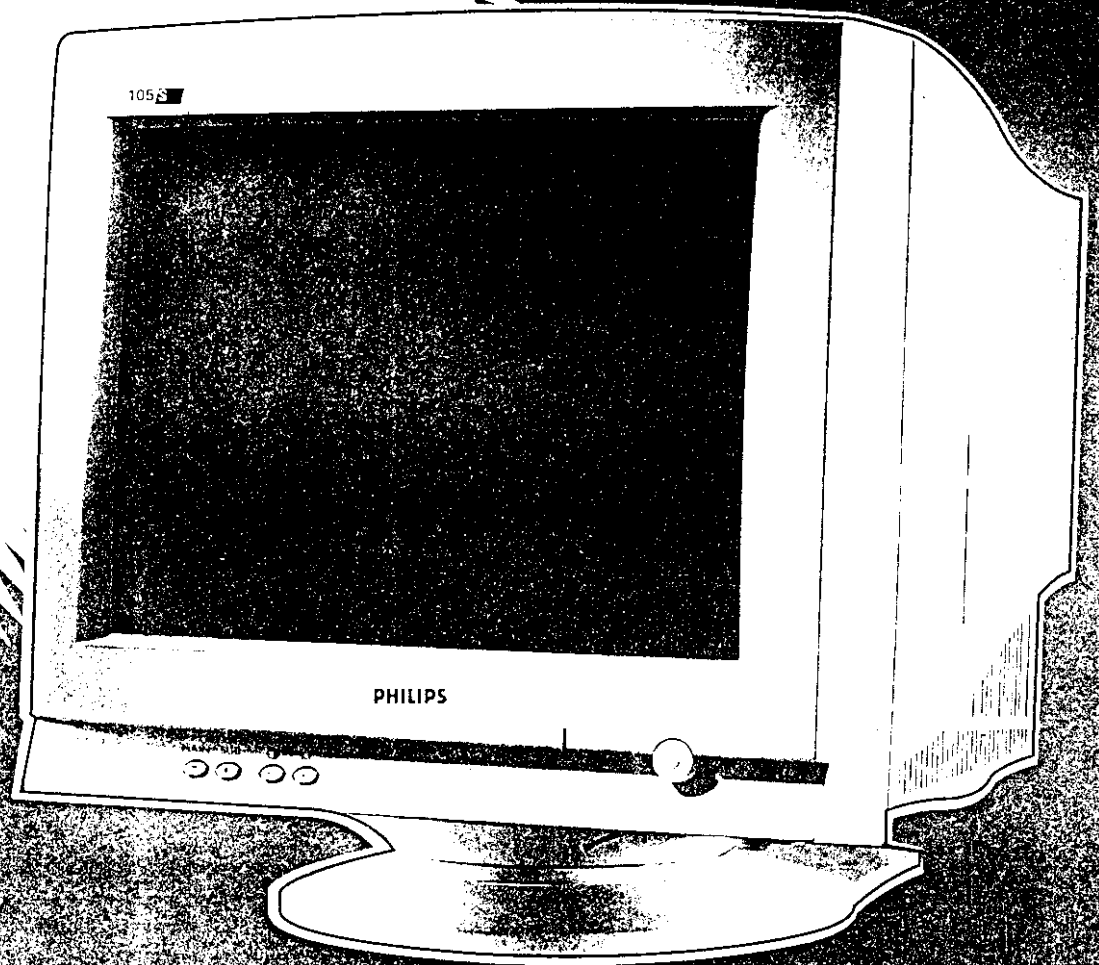
Delta Electronics, Inc.

Color Monitor

# PHILIPS

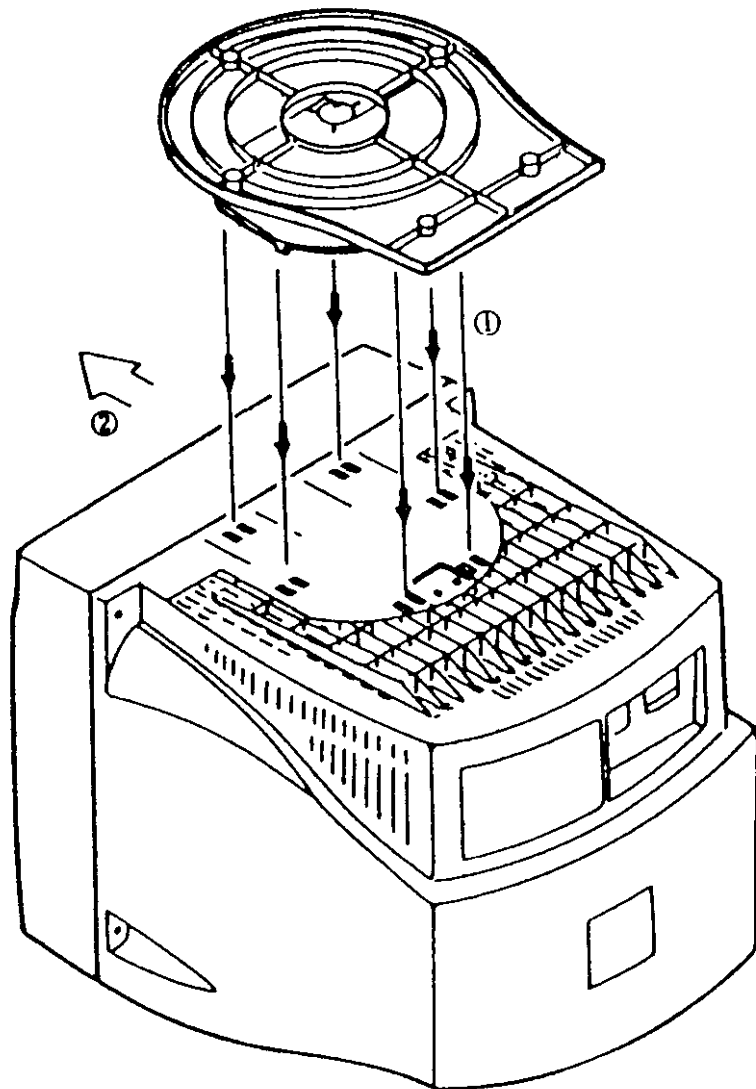
15" (13.8" VIS) Digital  
Autoscan Colour Monitor

## 105S



## PEDESTAL INSTALLATION INSTRUCTIONS

1. Insert hooks into the holes.
2. Push the base toward the front of the monitor until it snaps in.



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# Federal Communications Commission (FCC Statement)

NOTE: 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.

CAUTION: 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.

**Warning:**

WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.

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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## Introduction

The PHILIPS 105S color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1024x768 pixels. It is optimal for Windows, spread sheets, and any other application.

This monitor automatically scans horizontal frequencies from 30KHz to 60KHz, and vertical frequencies from 50Hz to 120Hz. With microprocessor based digital controlled circuit, the monitor can automatically adjust itself to the video card's scanning frequency and displays an image with precise parameters you desire. The wide range of scanning frequency supports variety of operating platforms, such as IBM PC and compatibles, including Intel based platforms such as 386, 486, Pentium and Pentium Pro.



## Feature Highlights

- **New Styling** demonstrates a smart image.
- **Digital Control** feature provides user-friendliness and ease-of-use when operating the monitor.
- **Anti-Glare** and **Anti-Static** screen coating eliminate any bad effects caused by the screen surface such as reflection of the room lights and dust attraction.
- **85Hz refresh rate:**  
The maximum display resolution is 1024 x 768 pixels non-interlaced mode. The recommended optimum resolution up to 800 x 600 pixels non-interlaced by maximum 85Hz refresh rate.
- **Green Design** including automatic power saving function (NUTEK) and low emission MPRII compliance shows our commitment in environmental care.
- **DDC1/DDC2B** allows communication between the monitor and PC system for optimal video configuration.

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## Safety precautions and maintenance

- ◆ Disconnect the monitor from the mains supply if the monitor is not to be used for an extended period of time.
- ◆ Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personnel.
- ◆ Do not place objects on top of the monitor cabinet, which could fall into vents or which could cover them and prevent proper cooling of the monitor's electronic devices.
- ◆ Do not expose the monitor to rain or excessive moisture to avoid the risk of shock or permanent damage to the set.
- ◆ Do not use alcohol or ammonia based liquid to clean the monitor. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the mains supply before cleaning.
- ◆ Consult a service technician if the monitor does not operate normally when operating instructions of this manual are followed.

## Package

Your PHILIPS 105S package includes the following items:

- The monitor
- Pedestal
- Power cord
- Interface cable (flying-in)
- Win95 driver disk

## End of life disposal

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

Please inform yourself on local regulations on disposal of your old set.

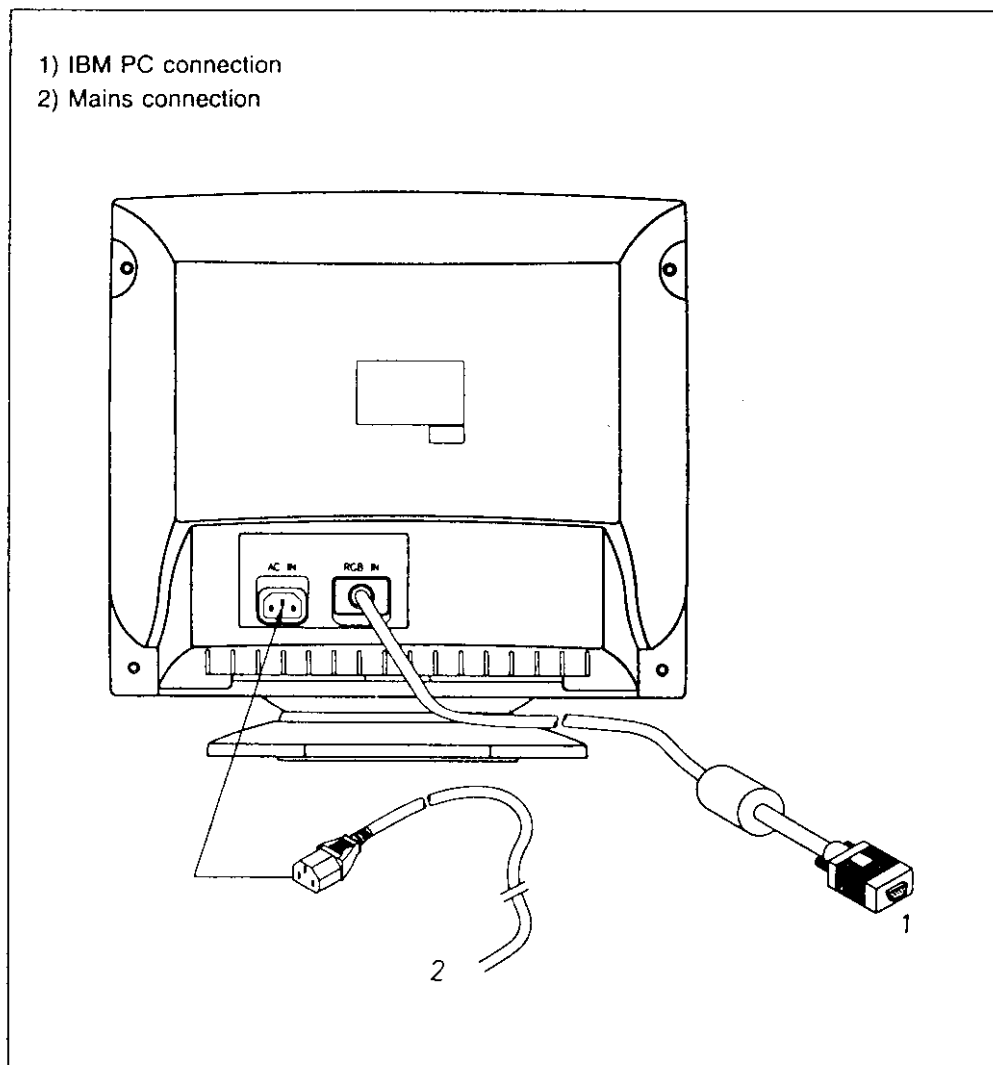
## Connection

**Important: Please make sure the AC power to your computer is "OFF" before connecting or disconnecting any display peripheral. Failure to do so may cause serious personal injury as well as permanent damage to your computer equipments.**

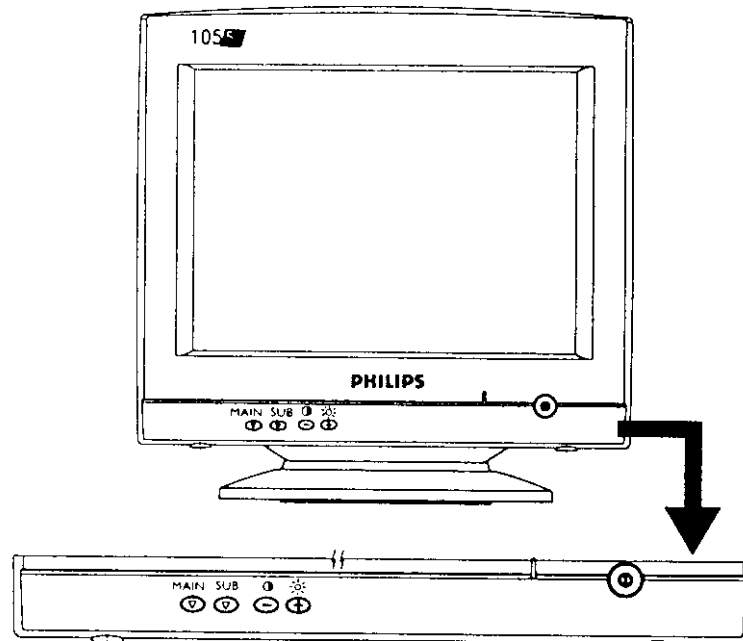
### Intel Based platform: 386, 486, Pentium, or other compatibles:

- Connect the monitor to the computer using the supplied interface cables.

Monitor rear view



## Front Control locations and functions



For an optimized adjustment of the picture following controls are available at the front.

- ① **POWER**
  - Press this knob, the green LED lights up and the power is ON.
  - Press this knob again, the green LED disappears and the power is OFF.



- Display OSD menu
- Shift downward to select from main menu.



- Shift downward to select sub-menu.
- Quit contrast or brightness adjustment.



- To decrease the value of the selected function.
- Hot key for contrast adjustment.



- To increase the value of the selected function.
- Hot key for brightness adjustment.



## Adjustment

The monitor is pre-set with 9 modes for optimal display size and centering as indicated in the following table:

Mode	Resolution (dots x lines)	Horizontal Freq.(KHz)	Vertical Freq.(Hz)	Remark
VGA	640 x 480	43.2	85	Non-interlaced
VGA	640 x 400	31.5	70	Non-interlaced
VGA	640 x 480	31.5	60	Non-interlaced
VESA/75	640 x 480	37.5	75	Non-interlaced
VESA/60	800 x 600	37.8	60	Non-interlaced
VESA/75	800 x 600	46.9	75	Non-interlaced
VESA/60	1024 x 768	48.3	60	Non-interlaced
VESA/85	800 x 600	53.7	85	Non-interlaced
VESA/75	1024 x 768	60.0	75	Non-interlaced

### (A) User mode: (10 modes)

- To select **RESET** and press the ⊕ button to restore the factory settings.

## Technical information

### (I) General:

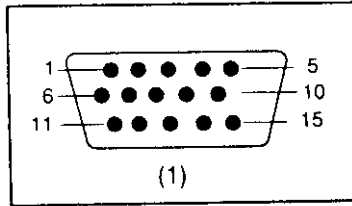
Picture tube	: 15 inch (38.1 cm), 90° deflection, non-glare, black matrix, light transmission 57%, phosphor P22 medium short, dotted pitch 0.28 mm.
Screen area	
Recommended Display Area:	270 mm (H) x 202 mm(V)
Maximum Display Area	: 280 mm (H) x 210 mm (V)
Line (Horizontal) frequency	: 30 - 60 KHz (automatically)
Raster (Vertical) frequency	: 50 - 120 Hz (automatically)
Mains voltage	: 100 - 240 VAC , 60 - 50 Hz (automatically)
Power consumption	: 75 watt nominal, 90 watt max.
Maximum dot rate	: 79 MHz
Video input signal	: 0.7 Vp-p linear / 75 Ohm
Sync type	: Separate H,V, TTL level
Sync Polarity	: Positive or Negative
Pedestal	: Tilt - 5° forward, 15° backward; swivel - 90° leftward or rightward.
Unit dimension (W x H x D)	: 362 x 370 x 396 mm
Net weight	: 13 Kg
Operating condition	
Temperature	: 0° C to 40° C
Humidity	: 20% to 80%
Storage condition	
Temperature	: -25° C to 65° C
Humidity	: 20% to 90%
DDC1/DDC2B	: VESA standard

### (II) Compatibility:

- . Intel based platform (386, 486, Pentium) and other compatibles.
- . VESA Guide lines and Standards.



(III) Pin assignment:



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

Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	No connection
2	Green video input	10	Logic ground
3	Blue video input	11	Ground
4	Ground	12	Serial data line (SDA)
5	Ground	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		

\* Because of a policy of continuous product improvement, the above specifications are subject to change without notice.




## (B) Power Management Signalling

Power Management Definition					
VESA DPMS				POWER SAVING STATES	
MODE	VIDEO	H-SYNC	V-SYNC	POWER USED	POWER SAVING(%)
ON	Active	Yes	Yes	< 90 Watts	0 %
Stand-by	Blanked	No	Yes	< 15 Watts	> 80 %
Suspend	Blanked	Yes	No	< 15 Watts	> 80 %
OFF	Blanked	No	No	< 8 Watts	> 90 %

Note: The video will be blanked and the power LED color will change into following colors whenever the monitor goes into power management status.

- Green LED light - "Normal" operation
- Amber LED light - "Stand by" or "Suspend" mode
- Amber LED light - "OFF" mode

This monitor is Energy Star compliant when used with  a computer equipped with DPMS.

AS AN ENERGY STAR PARTNER, PHILIPS HAS DETERMINED THAT THIS PRODUCT MEETS THE ENERGY STAR GUIDELINES FOR ENERGY EFFICIENCY.

### Remark:

- The transition time from "on" mode to any power down mode will take around 5 seconds.
- The recovery time from "stand by" or "suspend" mode to "ON" mode will take around 5 seconds.

**Contrast**

- Used to adjust the picture contrast level.

**Brightness**

- Used to adjust the overall screen brightness as a compensation for ambient light.

**V-position**

- Used to adjust the vertical position of the image.

**H-position**

- Used to adjust the horizontal position of the image.

**V-size**

- Used to adjust the vertical height of the image.

**H-size**

- Used to adjust the horizontal width of the screen image.

**Pincushion**

- Used to correct the pincushion or barrel distortion of the image.

**Trapezoid**

- Used to correct the trapezoid distortion of the image.

**Parallel**

- Used to correct the parallelogram distortion of the image.

**Color**

- Used to select the color temperature of the screen image. 9300°K is better and brighter than 6500°K which is redder and closer to paper white.

**Status  
Reset**

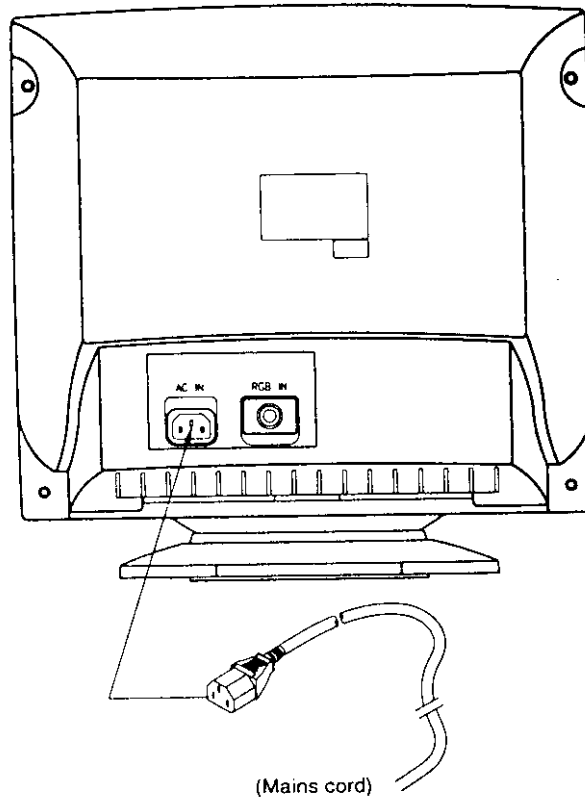
- To show current operating frequency and resolution.
- To select Reset and press the ⊕ button to restore the factory settings.

**OSD OFF**

- To quit OSD menu.

## Connection to the mains

Monitor rear view



### Connecting to the mains

This monitor is set to operate at a mains supply of 100-240 volts AC . If the mains voltage in your home is not between this, consult your dealer.

Connect one end of the Power cord to the mains socket at the rear of monitor, and the other end to the mains supply.

The monitor will be operating in power saving mode if you disconnect the signal cable from PC during operation. (Please refer to Power Management Signalling instruction.)

## Installation

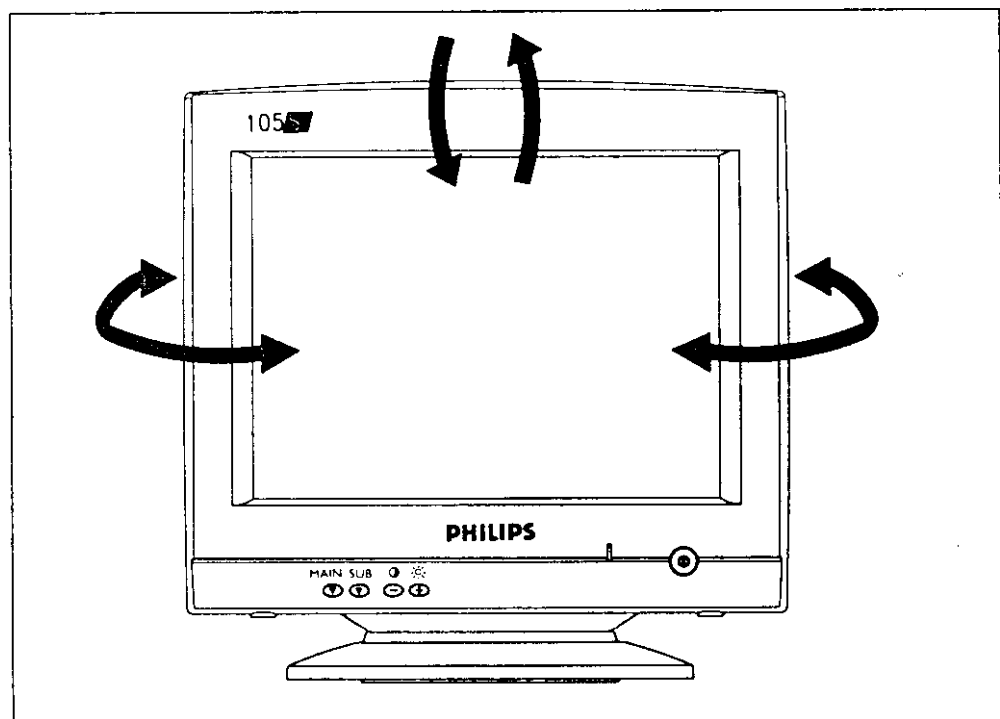
**Important:** Please refer to the user's manuals of your computer and video adapter to make sure these equipments are properly installed and configured before installing the monitor.

### Positioning / Ventilation

- ◆ Avoid exposing the monitor to direct sunlight, stoves or any other heat sources.
- ◆ To prevent overheating, make sure that the ventilation openings of the monitor are not covered.
- ◆ Keep moisture and dust away.
- ◆ Keep away from any magnetic objects, such as speakers, electric motors, transformers, ...etc.
- ◆ When positioning this monitor, make sure that the mains plug and socket are easily accessible.

### Pedestal

With the pedestal you can tilt and / or swivel the monitor for a most comfortable viewing angle.





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Note: If you experienced your monitor display is changing from color to mono, it's possible that you are using a non-VESA-DDC-standard video card. Please consult with your local Philips dealer for more information.

As an Energy Star Partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency.

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