

# 15B1322Q11 AutoScan Color Monitor


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**For Customer Use:**  
 Enter below the Serial No. which is located on the back of the cabinet. Retain this information for future reference.

**Model No. 15B1322Q11** \_\_\_\_\_

**Serial No.** \_\_\_\_\_

	<b>CAUTION</b>	
	RISK OF ELECTRICAL SHOCK DO NOT OPEN	
	<b>ATTENTION</b>	
	RISQUE DE CHOC ELECTRIQUE NE PAS OUVRI	
CAUTION TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE COVER(OR BACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		

 This "bolt of lightning" indicates that uninsulated material within your unit may cause an electrical shock. For the safety of everyone, do not remove product covering.

 This "exclamation point" calls attention to a feature for which you should read the enclosed literature carefully to prevent operating and maintenance problems.

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## Introduction

The PHILIPS 105B colour monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1280x1024 pixels. It is optimal for Windows, CAD / CAM / CAE, desktop publishing, spread sheets, multi-media, and any other application which demands large screen size and high resolutions.

This monitor automatically scans horizontal frequencies from 30KHz to 70KHz, 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, Apple's Macintosh, Quadra and Centris families, Power PC and workstations.



## Feature Highlights

- **On-Screen-Display** function provides more informations when the user operates the control functions. This 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.
- With **Color Adjustment** function you can easily choose different preset color temperatures or set your own customized color parameters.
- **Image Tilt Adjustment** function provides correction of rotated image. This correction can minimize the distortions caused by outside environments, such as earth magnetic field.
- With built-in **Audio Functions and Microphone** the monitor can connect with an MPC system, sound card, CD-ROM, or any sound source to operate for multi-media applications.
- **Green Design** including automatic power saving function (NUTEK) and low emission TCO'95 (15B1322Q) 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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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.

ENERGY STAR is a U.S. registered mark.

IBM, IBM PC and Power PC are registered trademarks of International Business Machines Corporation.

Apple, Macintosh, Quadra and Centris are registered trademarks of Apple Computer, Inc.

Some of the functions mentioned above such as Audio and Tilt correction are optional. You may have different options with the monitor you purchased.

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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 105B package includes the following items:

- The monitor (integrated with tilt / swivel pedestal)
- Power cord
- Interface cable (flying-in)
- Audio cable
- Microphone connector cable
- MAC adapter

## 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.

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## Installation

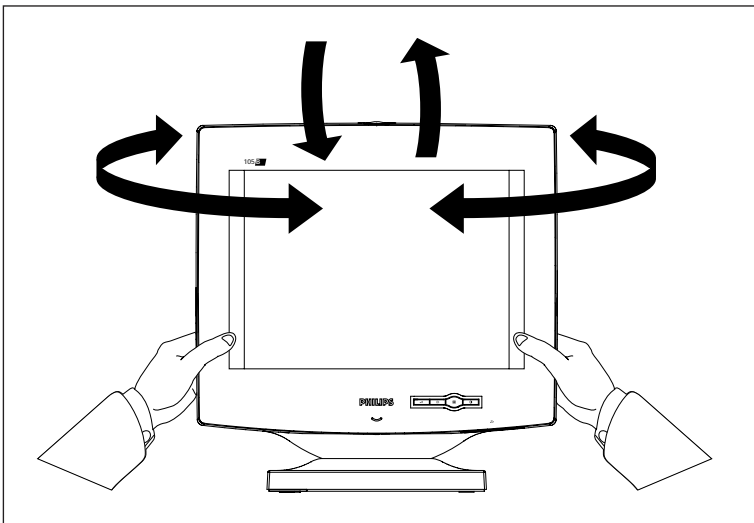
**Important:** Please refer to the user's manuals of your computer and video adapter to make sure these equipments are properly installed and configured before installing the monitor.

### 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 built-in pedestal you can tilt and / or swivel the monitor for a most comfortable viewing angle.



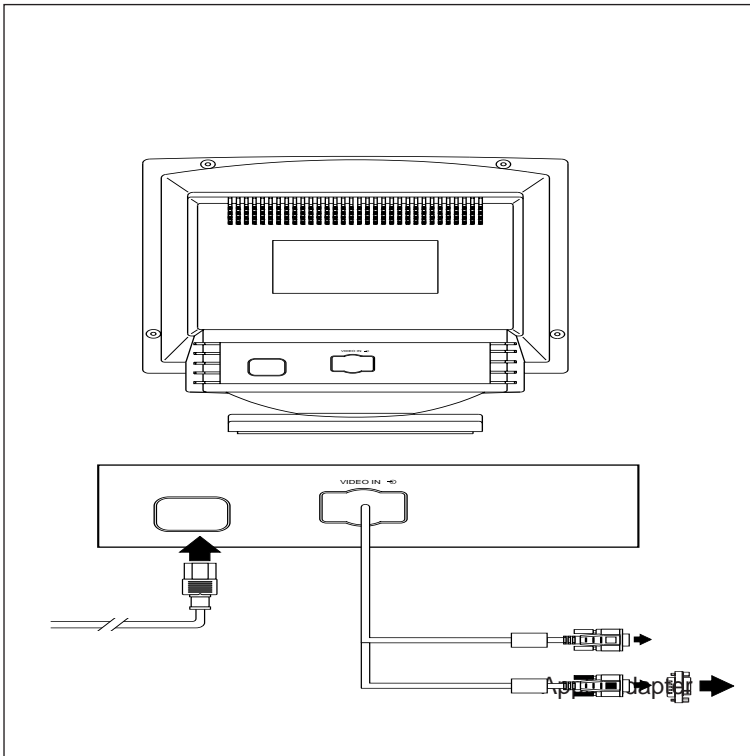
## Connection

**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.**

1. IBM PC, PC/XT, PC/AT, PS/2, or the compatibles:

- Connect the monitor to the computer using the supplied interface cables. Connection with computer system other than IBM PC or Apple computers may need different type of adapters. Please consult your computer supplier for these adapters. Connect the shielded power cord to a wall outlet after the interface cable is properly connected.

Monitor rear view

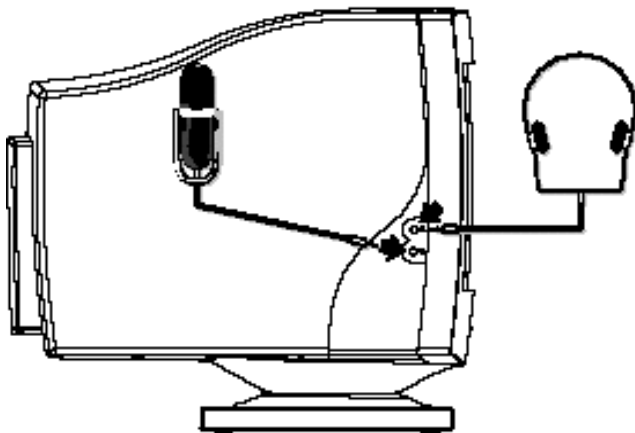


## 2. Earphone Connection :

- Connect your earphone plug (must be mini Jack type) to the earphone connector on the left side of the monitor.
- The speakers will be switched off when earphone is plugged in.

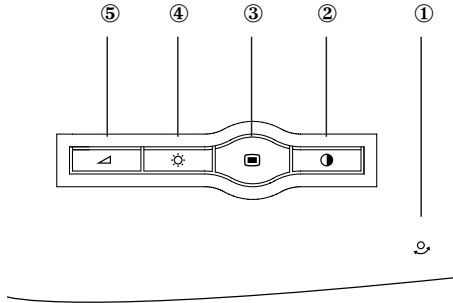
## 3. External Microphone Connection :

- Connect your microphone plug to the microphone connector on the left side of the monitor.
- The internal microphone will be switched off when external microphone is plugged in.



## Control locations and functions

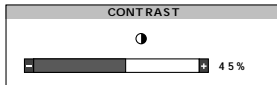
Monitor control panel



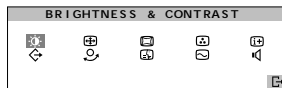
### Descriptions of knobs and keypads on front control panel

① • Rotary control knob (adjust OSD function).

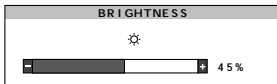
② • Activate/terminate contrast OSD menu.



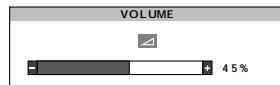
③ • Activate/terminate OSD main menu.



√ • Activate/terminate brightness OSD menu.

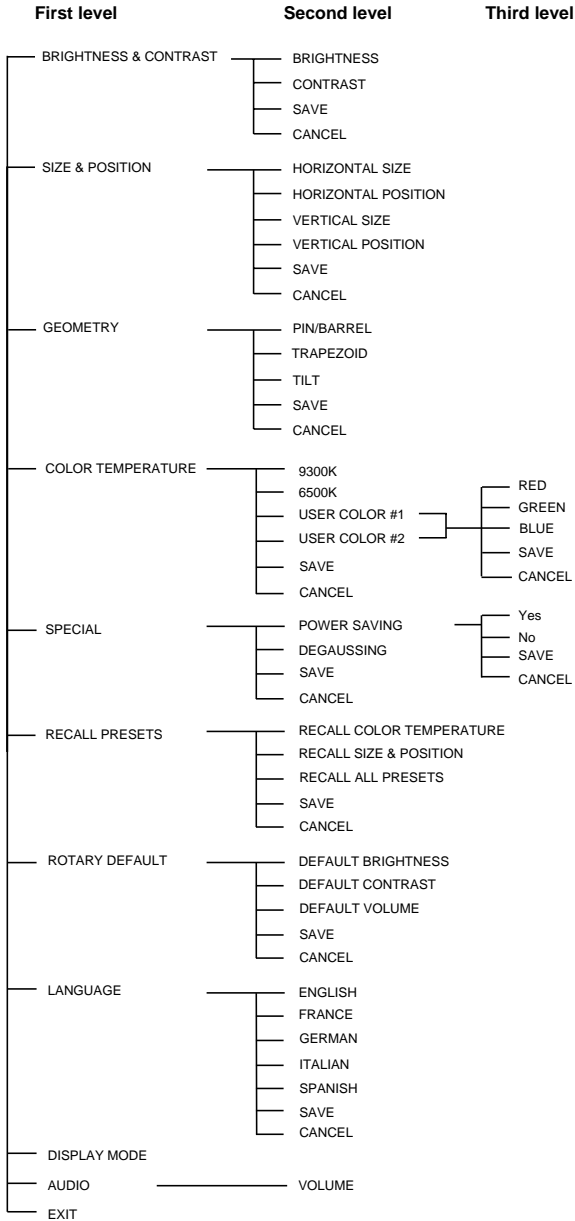


⑤ • Activate/terminate volume OSD menu.






# OSD main menu tree structure









# On-Screen-Display

Activating the On-Screen-Display

The monitor controls are accessed by pressing button  to enable OSD (On-Screen-Display). The main menu will be displayed as follows.



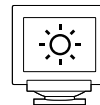
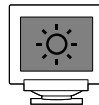
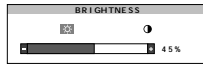
Each Sub-Menu (1-10) is selected by highlighting it via the rotary control , and pressing button  to confirm. To exit OSD, highlight  at the bottom of the main menu and press select button .


While operating Sub-Menu, please use rotary control , to select or adjust and press button  to confirm.

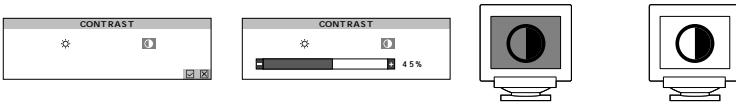
Note: If adjustment or selection of any OSD menu is not made for more than 12 seconds, the current setup will be saved and the OSD will disappear automatically.

## Sub Menu-1: BRIGHTNESS & CONTRAST

-  BRIGHTNESS : Adjusts background brightness



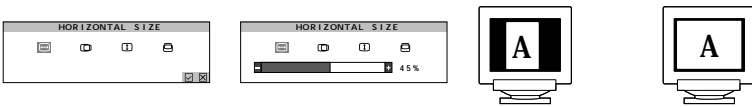
-  **CONTRAST** : Adjusts contrast between foreground and background.



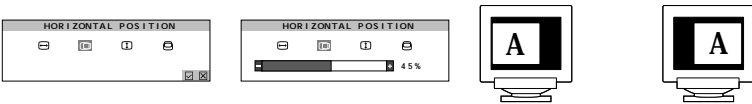
- **SAVE** : Save user adjustment and return to main menu.
- **CANCEL** : Abandon setup and return to main menu.


### Sub Menu-2: **SIZE & POSITION**

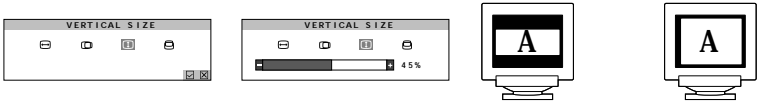
-  **HORIZONTAL SIZE** : Adjusts image width



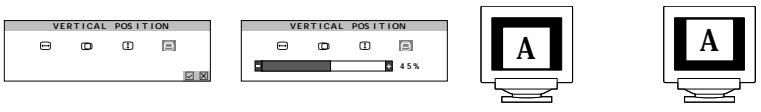
-  **HORIZONTAL POSITION** : Moves image left or right



-  VERTICAL SIZE : Adjusts image height



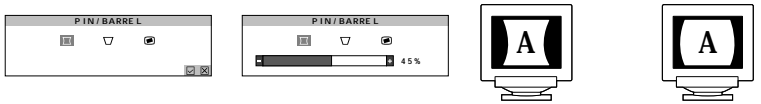
-  VERTICAL POSITION : Moves image up or down



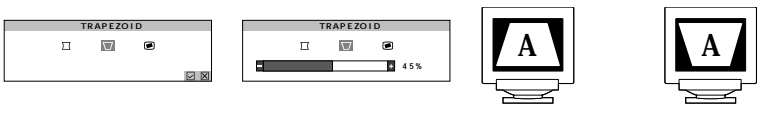
- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.

**Sub Menu-3:  GEOMETRY**

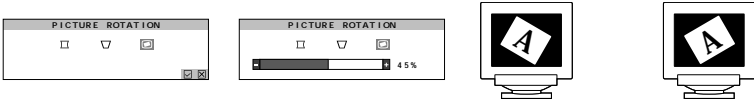
- PIN/BARREL : Adjusts the amount of curvature on the vertical edges.



- TRAPEZOID : Equalizes the length of the top and bottom edges.



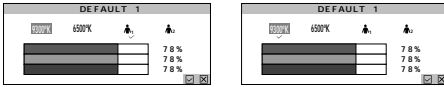
- PICTURE ROTATION : Tilts the image clockwise or counter-clockwise.



- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.


#### Sub Menu-4: COLOR TEMPERATURE

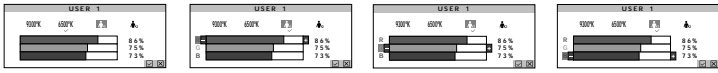
- 9300°K : Factory preset color temperature of 9300°K.




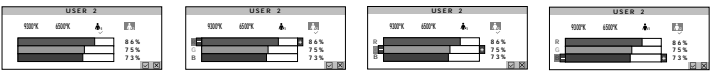
- 6500°K : Factory preset color temperature of 6500°K.



-  USER 1 : User set 1 for color temperature then select R, G or B for adjustment.
  - R : Adjusts red intensity.
  - G : Adjusts green intensity.
  - B : Adjusts blue intensity.



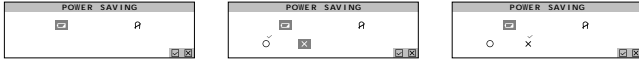
-  USER 2 : User set 2 for color temperature then select R, G or B for adjustment.
  - R : Adjusts red intensity.
  - G : Adjusts green intensity.
  - B : Adjusts blue intensity.



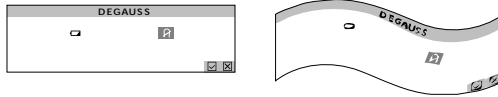
- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.

### Sub Menu-5: ⓘ SPECIAL

- POWER SAVING : Enable/Disable power saving function.




- DEGAUSS : Discoloration of the image can be caused by gradual magnetization of the monitor components. This is particularly likely to occur when the monitor is moved or rotated. The monitor may "buzz" momentarily when the user control is selected and the image will change color and wobble for a few seconds. These effects are normal.

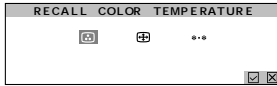


- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.

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**Sub Menu-6: ↻ RECALL PRESETS**

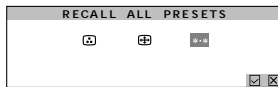
-  RECALL COLOR TEMPERATURE : Recall color temperature presets.



-  RECALL SIZE & POSITION : Recall size and position presets.




- \*\*\* RECALL ALL PRESETS : Recall all presets and return to factory presets.




- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.




### Sub Menu-7: ROTARY DEFAULT

-  DEFAULT - BRIGHTNESS : Define rotary knob as the trigger of the brightness adjustment.



-  DEFAULT - CONTRAST : Define rotary knob as the trigger of the contrast adjustment.



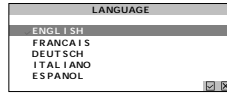
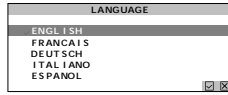
-  DEFAULT - VOLUME : Define rotary knob as the trigger of the volume adjustment.



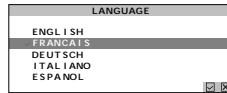
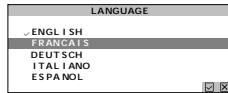
- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.

## Sub Menu-8: LANGUAGE

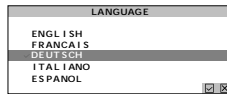
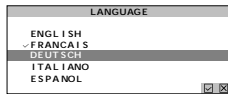
- ENGLISH: Select English as the OSD language.



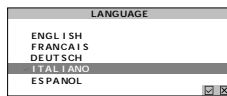
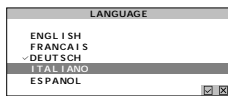
- FRANÇAIS: Select French as the OSD language.



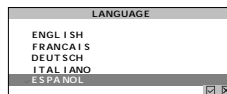
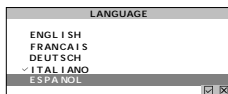
- DEUTSCH: Select German as the OSD language.



- ITALIANO: Select Italian as the OSD language.



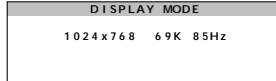

- ESPAÑOL: Select Spanish as the OSD language.



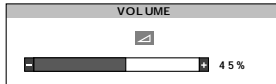
- SAVE : Save user adjustment and return to main menu.
- CANCEL : Abandon setup and return to main menu.


**Sub Menu-9:  DISPLAY MODE**

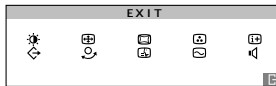
- DISPLAY MODE: Display monitor resolution and scanning frequency.

**Sub Menu-10:  AUDIO**

-  VOLUME: Adjusts speaker volume.



-  EXIT: Exit the OSD main-menu.



- \* Whenever the signal cable is disconnected, the screen will appear a message as below:



## Data Storage

### (A) Factory preset mode:

This monitor has 11 factory-preset modes as indicated in the following table:

	Mode	Resolution	Frequency		Sync polarity	
			H(KHz)	V(Hz)	H	V
M01	VGA	640x400	31.5	70	-	+
M02	VGA	640x480	31.5	60	-	-
M03	VGA	640x480	37.5	75	-	-
M04	VGA	640x480	43.3	85	-	-
M05	SVGA	800x600	53.7	85	+	+
M06	SVGA	800x600	37.8	60	+	+
M07	SVGA	800x600	46.9	75	+	+
M08	EVGA	1024x768	68.7	85	+	+
M09	EVGA	1024x768	48.4	60	-	-
M10	EVGA	1024x768	60.0	75	+	+
M11	EVGA	1280x1024	64.0	60	+	+

### (B) User mode

In addition to factory preset modes, the monitor can also provides additional 11 User-defined modes.

If the input video signal is different from our factory-preset modes, the new timing data will be automatically stored. However, the displayed parameters may need to be adjusted. User can adjust the parameters via OSD, as preceding procedures which already described on "Adjustment via On-Screen-Display" section.

### (C) New mode


The monitor is reversed for 4 new modes in case non-standard video modes are used.

## 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 keyboard, mouse or other input devices is detected, the monitor will automatically "wake up". The following table shows the power consumption and signalling of this automatic power saving feature:

Power Management Definition						
VESA's mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 100W	0%	Green
Stand-by	Blanked	No	Yes	< 15W	85%	Yellow
Suspend	Blanked	Yes	No	< 15W	85%	Yellow
OFF	Blanked	No	No	< 5W	95%	Amber

This monitor is Energy Star compliant and TCO'92 power management compatible.



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

# Specification\*

## (I) General

### CRT

Screen size	: 15" (13.8" VIS) flat & square
Focusing method	: Static focus
Dot pitch	: 0.28 mm
Phosphor	: P22 or equivalent, medium short persistence
Screen treatment	: Anti-glare, anti-static

### Display area

Factory preset	: 260 mm (H) x 195 mm (V)
Maximum usable	: 280 mm (H) x 210 mm (V)

### Scanning frequency

Horizontal (line)	: 30-70 kHz (AutoScan)
Vertical (frame)	: 50-120 Hz (AutoScan)

### Input power

: 100-240 VAC, 60-50 Hz

### Power consumption

: 70 Watt normal, 100 Watt maximum

### Input signal

Video	: 0.7 Vpp, 75 Ohm impedance
Audio	: 600mVrms linear/22K Ohm
Sync	: Separate sync. TTL level Composite sync. TTL level

### Pedestal

Tilt	: 5° forward, 11° backward
Swivel	: 90° leftward, 90° rightward

### Physical

Unit dimension (WxHxD)	: 382 x 392 x 424 (mm)
Net weight	: 14 kg

### Operating condition

Temperature	: 0° C - 40° C
Humidity	: 20% - 80%

### Storage condition

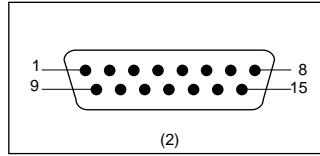
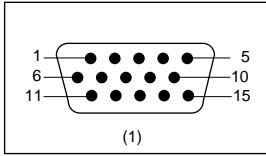
Temperature	: -25° C - 70° C
Humidity	: 10% - 95%

### White Color Coordinates:

Red:	x= 0.625	Blue:	x= 0.150
	y= 0.340		y= 0.065
Green:	x= 0.285		
	y= 0.605		

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

**(II) 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 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	Ground	13	H. Sync / H+V
6	Red video ground	14	V. Sync (VCLK for DDC)
7	Green video ground	15	Data clock line (SDA)
8	Blue video ground		

(2) The 15-pin D-sub connector (male) of the adapter ( Apple Macintosh systems):

Pin No.	Assignment	Pin No.	Assignment
1	Red ground	9	Blue video
2	Red video	10	Sense 2
3	Composite Sync, H+V	11	Composite Sync & V.Sync ground
4	Sense 0	12	V. Sync
5	Green video	13	Blue video ground
6	Green ground	14	H. Sync ground
7	Sense 1	15	H. Sync
8	Not connected		