

Exhibit 5

**INSTALLATION AND OPERATING
INSTRUCTION**

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EN

19B2502H

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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.



EN

Introduction

The PHILIPS 109B color monitor displays sharp and brilliant images of text and graphics with a maximum resolution up to 1600x1200 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 95KHz, and vertical frequencies from 50Hz to 160Hz. 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.
- **Green Design** including automatic power saving function (NUTEK) and low emission TCO'95 compliance shows our commitment in environmental care.
- **DDC1/DDC2B** allows communication between the monitor and PC system for optimal video configuration.
- **CustoMax** allows user to adjust the video, screen geometry, colour quality, image quality and hardware and software setting through USB upstream port in the rear of monitor.
- **Short length tube** allows the depth of this 19" monitor is the same as it of 17" monitor.



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.

ENERGY STAR is a U.S. registered mark.

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

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.



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 109B package includes the following items:

- The monitor (integrated with tilt / swivel pedestal)
- Power cord
- Interface cable (flying-in)
- CustoMax CD-ROM (containing information file [Philips.inf] for Windows '95/'98 driver)
- USB cable

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.

Installation

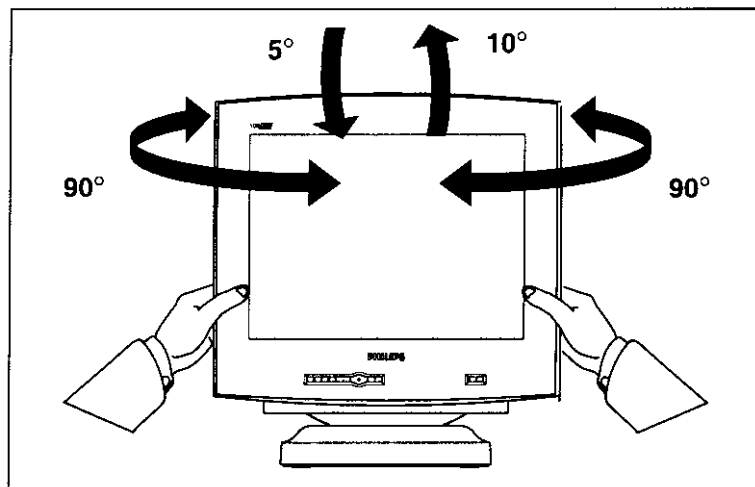
Important: Please refer to the user's manuals of your computer and video adapter to make sure these equipments are properly installed and configured before installing the monitor.

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.



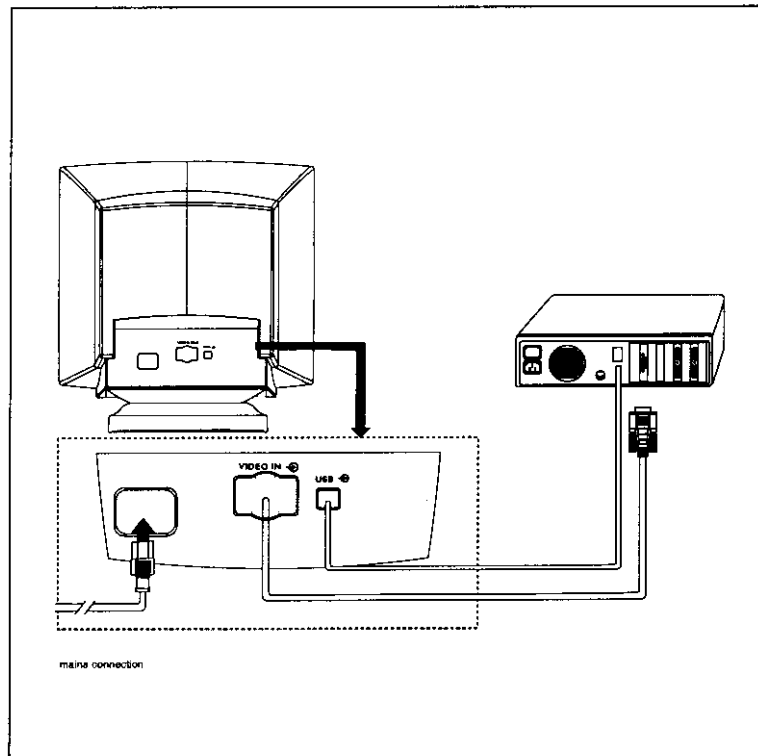
Connection

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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.

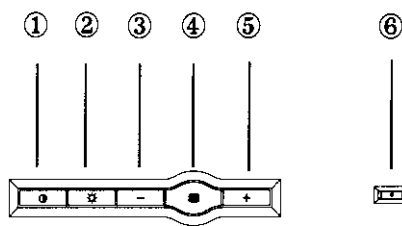
- Connect the monitor to the computer using the supplied interface cables. Connection with computer system other than IBM PC may need different type of adapters. Please consult your computer supplier for these adapters. Connect the power cord to a wall outlet after the interface cable is properly connected.

Monitor rear view









Control locations and functions

Front Controls

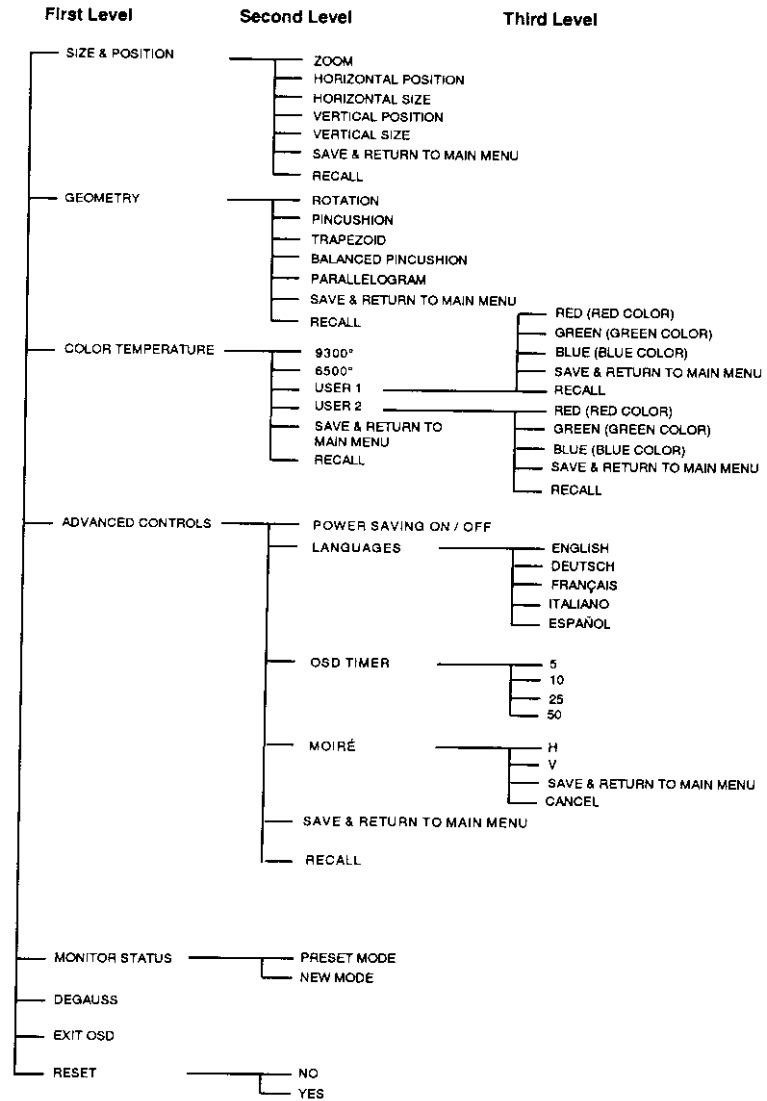


Descriptions of knobs and keypads on front control panel

- ①  • To adjust contrast of the display.
- ②  • To adjust brightness of the display.
- ③  • To adjust the OSD.
- ④  • To access OSD menu.
- ⑤  • To adjust the OSD.
- ≈  • To switch monitor's power ON and OFF.

OSD menu tree structure

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Adjustment via On-Screen-Display


Brightness / Contrast

Adjustment of brightness & contrast



- Press , then press "+" or "-" button to adjust.
- The adjusted parameters are automatically saved and the OSD menu will disappear within 5 seconds if there is not any adjustment/action has been made.



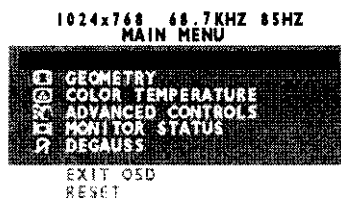
- Press , then press "+" or "-" to adjust.
- The adjusted parameters are automatically saved and the OSD menu will disappear within 5 seconds if there is not any adjustment/action has been made.

SIZE & POSITION

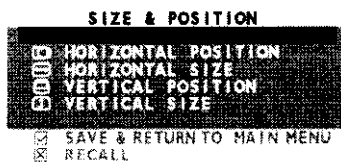
Adjustments of zoom, horizontal position, horizontal size, vertical position, vertical size:






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main menu



2nd level menu



- Press , to access OSD menu.
- Press "+" or "-" button to move the bar to "SIZE & POSITION".
- Press  to access the 2nd level menu. Press "+" or "-" button to select the function you want to adjust.
- Press , then press "+" or "-" button to adjust.
- Press , return to 2nd level menu.
- The adjusted parameters are automatically saved and the OSD menu will disappear within the time you selected on OSD TIMER (e.g.10 seconds) if there is not any adjustment/action has been made.
- Press , return to the OSD main menu.

SIZE & POSITION 3rd level menu

ZOOM



HORIZONTAL POSITION



HORIZONTAL SIZE



VERTICAL POSITION



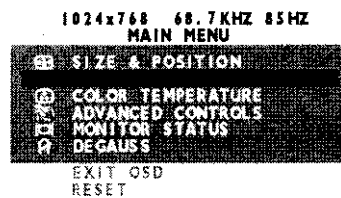
VERTICAL SIZE



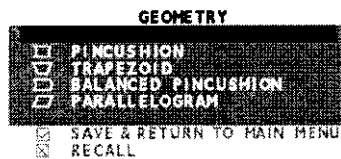
GEOMETRY

adjustments of rotation, pincushion, trapezoid, balanced pincushion, parallelogram:

main menu



2nd level menu



- Press to access OSD menu.
- Press "+" or "-" button to move the bar to "GEOMETRY".
- Press to access the 2nd level menu. Press "+" or "-" button to select the function you want to adjust.
- Press , then press "+" or "-" button to adjust.
- Press , return to 2nd level menu.
- The adjusted parameters are automatically saved and the OSD menu will disappear within the time you selected on OSD TIMER (e.g. 10 seconds) if there is not any adjustment/action has been made.
- Press , return to the OSD main menu.

GEOMETRY 3rd level menu

(1) ROTATION



(2) PINCUSHION



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(3) TRAPEZOID



(4) BALANCED PINCUSHION

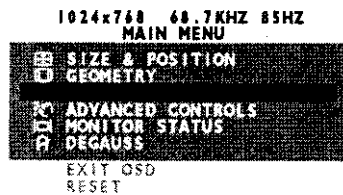





(5) PARALLELOGRAM



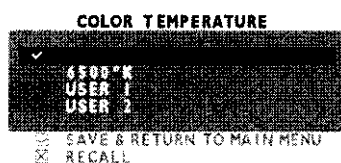
COLOR TEMPERATURE


main menu



- Press , to access OSD menu.
- Press "+" or "-" button to move the bar to "COLOR TEMPERATURE".
- Press , to access the 2nd level menu. Press "+" or "-" button to select the function you want to adjust.
- Press , the screen will show the color you selected (9300°K or 6500°K). Or press "+" or "-" button to adjust your own.

2nd level menu

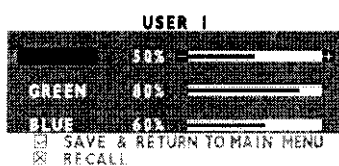



- The adjusted parameters are automatically saved and the OSD menu will disappear within 10 seconds if there is not any adjustment/action has been made.
- Press , return to the OSD main menu.

EN

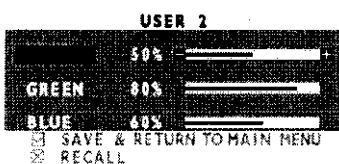
COLOR TEMPERATURE 3rd level menu


(1) USER 1



- Press "+" or "-" button to the function you need, then press and press "+" or "-" button to adjust it.
- Press  and press "+" or "-" button to choose "SAVE & RETURN TO MAIN MENU" or "RECALL".

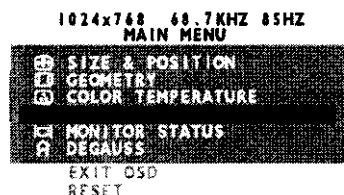
(2) USER 2



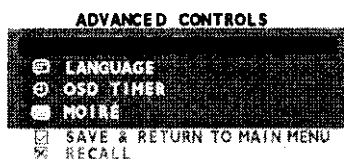
- Press "+" or "-" button to the function you need, then press and press "+" or "-" button to adjust it.
- Press  and press "+" or "-" button to choose "SAVE & RETURN TO MAIN MENU" or "RECALL".

ADVANCED CONTROLS

main menu



2nd level menu



- Press to access OSD menu.
- Press "+" or "-" button to move the bar to "ADVANCED CONTROLS".
- Press to access the 2nd level menu. Press "+" or "-" button to select the function you want to adjust.
- Press , press "+" or "-" button to adjust.
- Press , return to 2nd level menu.
- The adjusted parameters are automatically saved and the OSD menu will disappear within the time you selected on OSD TIMER (e.g. 10 seconds) if there is not any adjustment/action has been made.
- Press , return to the OSD main menu.

ADVANCED CONTROLS 3rd level menu

(1) LANGUAGE



(2) OSD TIMER



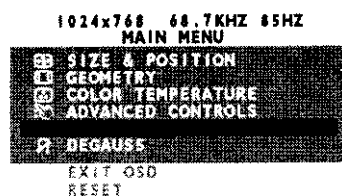
(3) MOIRE



- Press "+" or "-" button to choose "H" or "V".
- Press then press "+" or "-" button to adjust.
- Press and Press "+" or "-" button to choose "SAVE & RETURN TO MAIN MENU" or "RECALL".

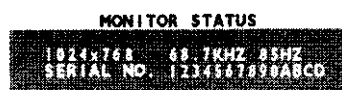
MONITOR STATUS

main menu

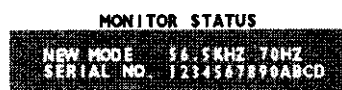


- Press to access OSD main menu.
- Press "+" or "-" button to move the bar to "MONITOR STATUS".
- Press to access the 2nd level menu.

2nd level menu



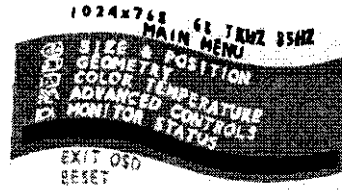
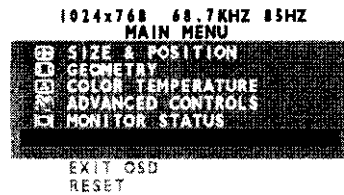
2nd level menu



E
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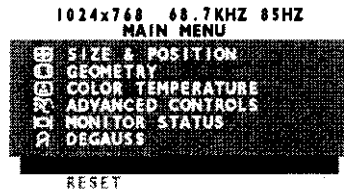
DEGAUSS

main menu



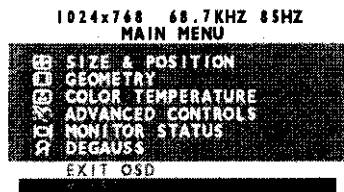
EXIT OSD

main menu



RESET

main menu



2nd level menu



- Press **[F4]** to access main menu.
- Press "+" or "-" button to move the bar to "RESET".
- Press **[F4]** to access the 2nd level menu. At this moment, it shows preset parameters status on the screen and you can select "NO" to go back to the previous setting or "YES" to reset all settings.
- If there is no action made, then OSD menu will disappear within the time you selected on OSD TIMER (e.g. 10 seconds) and the parameters will return to the previous setting.

How if you get lost in OSD tree structure?

You can press **[F4]** to go back to OSD main menu and select "RESET" in main menu to reset all settings.

Data Storage

(A) Factory preset mode:

This monitor has 10 factory-preset modes as indicated in the following table:

	Mode	Resolution	Frequency		Sync polarity	
			H(KHz)	V(Hz)	H	V
M01	VGA	600x400	31.5	70	—	+
M02	VGA	640x480	31.5	60	—	—
M03	VGA	640x480	43.3	85	—	—
M04	SVGA	800x600	46.9	75	+	+
M05	SVGA	800x600	53.7	85	+	+
M06	EVGA	1024x768	60.0	75	+	+
M07	EVGA	1024x768	68.7	85	+	+
M08		1280x1024	80.0	75	+	+
M09		1280x1024	91.1	85	+	+
M10		1600x1200	93.8	75	+	+

(B) User mode

In addition to factory preset modes, the monitor can also provides additional 10 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.

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



Specification*

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N

(I) General

CRT

Screen size	: 19" (48.3 cm) flat & square
Focusing method	: Dynamic focus
Dot pitch	: 0.22 mm horizontal pitch
Phosphor	: P22 or equivalent, medium short persistence
Screen treatment	: Anti-glare, anti-static

Display area

Factory preset	: 355 mm (H) x 265 mm (V)
Maximum usable	: 360 mm (H) x 273.5 mm (V)

Scanning frequency

Horizontal (line)	: 30-95 kHz (AutoScan)
Vertical (frame)	: 50-160 Hz (AutoScan)

Input power

: 100-240 VAC, 50- 60 Hz

Power consumption

: 105 Watt**

Input signal

Video	: 0.7 Vpp, 75 Ohm impedance
Sync	: . Separate sync. TTL level . Composite sync. TTL level

Pedestal

Tilt	: 5° forward, 10° backward
Swivel	: 90° leftward, 90° rightward

Physical

Unit dimension (WxHxD)	: 449 x 464 x 429 (mm)
Net weight	: 20.9 kg

Operating condition

Temperature	: 0° C - 40° C
Humidity	: 10% - 90%

Storage condition

Temperature	: -25° C - 65° C
Humidity	: 5% - 95%

Mains cord

: Non-shield

White Color Coordinates:

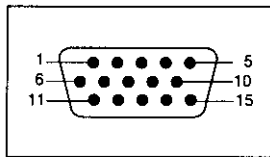
9300K	x= 0.281	y= 0.311
6500K	x= 0.313	y= 0.329

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

**At max resolution, preset size, 9300K, brightness center, contrast max, full white pattern.



(II) Pin assignment:



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	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		