

Safety and
trouble shooting

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EXIT



105G7

**Electronic
User's Manual**

Safety and Troubleshooting Information

[Safety Precautions and Maintenance](#) • [Troubleshooting](#) • [Regulatory Information](#) • [Other Related Information](#)

Safety precautions and maintenance



WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

Read and follow these instructions when connecting and using your computer monitor:

- Disconnect the monitor from the power 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, objects could fall into vents or cover them and prevent proper cooling of the monitor's electronic devices.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to rain or excessive moisture.
- 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 power supply before cleaning.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.

Consult a service technician if the monitor does not operate normally when operating instructions of this manual are followed.

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Troubleshooting

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Common Problems

Having trouble? Something not working? Before calling for help, try these suggestions.

Having this problem?

Check these items

No Picture

(Power LED not lit)

- Make sure the Power cable is plugged into the power outlet and back of the monitor.
- Power button on the front of your monitor should be in the ON position.

No Picture

(Power LED is flashing orange)

- Make sure the computer is turned on.
- 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

No Picture

(Power LED is orange)

- Make sure the Brightness and Contrast controls are set correctly.
- Make sure the monitor cable is properly connected to your computer.
- Check to see if the monitor cable has bent pins.

Screen doesn't show

when you turn on the monitor

- Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide).
- Check to see if the monitor cable has bent pins.
- Make sure the computer is turned on.

No color or intermittent color

- If you are using a non-VESA-DDC standard video card, turn the DDC1 / 2B feature Off.

Color appears blotchy

- The picture may need degaussing.
- Remove any nearby magnetic objects.
- Face the monitor toward the East for the best picture quality.

Missing one or more colors

- Check the Color Temperature.
- 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.
- Check your video card and it's owner's manual instructions for it may be a non-VESA-DDC Standard card.

Picture is too large or too small.

- Adjust the Horizontal and/or Vertical Size.

Edges of the picture are not square.

- Adjust the geometry.

Picture has a double image.

- Eliminate the use of a video extension cable and/or video switch box.
- Face the monitor toward the East for the best picture quality.
- Check to make sure Moire Function is switched off.

Picture is not sharp.

Unstable Picture

- Increase your refresh rate.

Problem with On Screen Display

- Refer to the instructions and troubleshooting information in that chapter.

For further assistance, refer to the [Consumer Information Centers](#) list to contact your local Philips distributor.

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Regulatory Information

[CE Declaration of Conformity](#) • [Federal Communications Commission \(FCC\) Notice \(U.S. Only\)](#) • [Commission Federale de la Communication \(FCC Declaration\)](#) • [North Europe Information \(Nordic Countries\)](#) • [BSMI Notice \(Taiwan Only\)](#) • [Ergonomie Hinweis \(nur Deutschland\)](#)

[Safety Precautions and Maintenance](#) • [Troubleshooting](#) • [Other Related Information](#)

CE Declaration of Conformity

- Philips Consumer Electronics declare under our responsibility that the product is in conformity with the following standards
 - EN60950:2000 (Safety requirement of Information Technology Equipment)
 - EN55022:1998 (Radio Disturbance requirement of Information Technology Equipment)
 - EN55024:1998 (Immunity requirement of Information Technology Equipment)
 - EN61000-3-2:2000 (Limits for Harmonic Current Emission)
 - EN61000-3-3:1995 (Limitation of Voltage Fluctuation and Flicker)following provisions of directives applicable
 - 73/23/EEC (Low Voltage Directive)
 - 89/336/EEC (EMC Directive)
 - 93/68/EEC (Amendment of EMC and Low Voltage Directive)and is produced by a manufacturing organization on ISO9000 level.
- The product also comply with the following standards
 - ISO9241-3, ISO9241-7, ISO9241-8 (Ergonomic requirement for Visual Display)
 - ISO13406-2 (Ergonomic requirement for Flat panels)
 - GS EK1-2000 (GS specification)
 - prEN50279:1998 (Low Frequency Electric and Magnetic fields for Visual Display)
 - MPR-II (MPR:1990:8/1990:10 Low Frequency Electric and Magnetic fields)
 - TCO99, TCO03 (Requirement for Environment Labelling of Ergonomics, Energy, Ecology and Emission, TCO: Swedish Confederation of Professional Employees) for TCO versions

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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.

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North Europe Information (Nordic Countries)

Placing/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIESTA.

Plassering/Ventilasjon

ADVARSEL:

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

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BSMI Notice (Taiwan Only)

符合乙類資訊產品之標準

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Ergonomie Hinweis (nur Deutschland)

Der von uns gelieferte Farbmonitor entspricht den in der "Verordnung über den Schutz vor Schäden durch Röntgenstrahlen" festgelegten Vorschriften.

Auf der Rückwand des Gerätes befindet sich ein Aufkleber, der auf die Unbedenklichkeit der Inbetriebnahme hinweist, da die Vorschriften über die Bauart von Störstrahlern nach Anlage III 5 Abs. 4 der Röntgenverordnung erfüllt sind.

Damit Ihr Monitor immer den in der Zulassung geforderten Werten entspricht, ist darauf zu achten, daß

1. Reparaturen nur durch Fachpersonal durchgeführt werden.

2. nur original-Ersatzteile verwendet werden.
3. bei Ersatz der Bildröhre nur eine bauartgleiche eingebaut wird.

Aus ergonomischen Gründen wird empfohlen, die Grundfarben Blau und Rot nicht auf dunklem Untergrund zu verwenden (schlechte Lesbarkeit und erhöhte Augenbelastung bei zu geringem Zeichenkontrast wären die Folge).

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.



ACHTUNG: BEIM AUFSTELLEN DIESES GERÄTES DARAUFG ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUß LEICHT ZUGÄNGLICH SIND.

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Other Related Information

[Safety Precautions and Maintenance](#) • [Troubleshooting](#) • [Regulatory Information](#) • [Information for Users in the U. S.](#) • [Information for Users Outside the U.S](#)

Information for Users in the U. S.

For units set at 115 V :

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a parallel blade, grounding type attachment plug rated 15 A, 125 V.

For units set at 230 V:

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a tandem blade, grounding type attachment plug rated 15 A, 250 V.

Information for Users outside the U.S.

For units set at 230 V:

Use a Cord Set rated minimum 5 A, 250 V (for units set at 230V) or 10A, 125V (for units set at 115V). The Cord Set should have the appropriate safety approvals for the country in which the equipment will be installed.

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About This Electronic User's Manual

[About This Guide](#) • [Other Documents You May Need](#) • [Notational Descriptions](#)

About This Guide

This electronic user's guide is intended for anyone who uses the Philips Color Monitor. It describes the monitor's features, setup, operation and all other information, which is the same exact information described in our printed version.

The sections are as follows:

- [Safety and Troubleshooting Information](#) provides tips and solutions for common problems, and other related information you may need.
- About This Electronic User's Manual gives overview of what information are included as well as notation icon descriptions and other documentation you can refer to.
- [Product Information](#) gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- [Installing Your Monitor](#) describes the initial setup process and gives an overview of how to use the monitor.
- [On Screen Display](#) provides information on adjusting the settings on your monitor.
- [Customer Care and Warranty](#) is a list of worldwide Philips consumer information centers along with the help desk phone numbers and information on the applicable warranty of your product..
- [Glossary](#) provides more information for technical terms.
- [Download](#) allows users to install the entire manual on their hard drive.
- [Frequently Asked Questions](#) provides answers to commonly asked questions.

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Other Documents You May Need

In addition to this *Electronic User's Guide*, you may need to refer to the following documentation:

- *Philips Color Monitor Quick Start Guide* which summarizes the steps for setting up the monitor. This is included with this product.

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Notational Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



NOTE: This icon indicates important information and tips that help you make better use of your computer system.



CAUTION: This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.



WARNING: This icon indicates the potential for bodily harm and tells you how to avoid the problem.



SMART HELP: This icon indicates helpful information when adjusting the On Screen Display of your monitor.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

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Product Information

[Product Features](#) • [Lead-free product](#) • [Technical Specifications](#) • [Automatic Power Saving](#) • [Physical Specification](#) • [Pin Assignment](#) • [Product Views](#)

Product Features

Model	Color
105G78	Black
105G79	Gray
105G7S	Silver/Black

105G7

- 15-inch (14.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscan covers horizontal frequencies up to 54 kHz offering a maximum resolution of 1024 x 768 with flicker free display of 800 x 600 at up to 85 Hz
- Flat square High Contrast CRT with high-resolution 0.28 mm dot pitch .

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Lead-free product

Philips eliminated toxic substances like lead from its displays. Lead-free display helps protect your health and promotes environmentally sound recovery and disposal of waste from electrical and electronic equipment. Philips complies with the European Community stringent RoHS Directive mandating restrictions on hazardous substances in electrical and electronic equipment. With Philips, you can be confident that your display device does not harm the environment.

Technical Specifications*

CRT

- | | |
|-----------------------|--|
| • Size and deflection | 15 inch / 38 cm ; 90° deflection angle |
| • Dot pitch | 0.28 mm |
| • Tube type | 29mm neck, glare screen |
| • Phosphor | P22 |

SCANNING

- | | |
|-----------------------|-------------|
| • Horizontal scanning | 30 - 54 KHz |
| • Vertical scanning | 50 - 120 Hz |

VIDEO

- | | |
|-------------------|--------|
| • Video dot rate | 72 MHz |
| • Input impedance | |
| - Video | 75 ohm |

- Sync 4.7k ohm
- Input signal levels 0.7 Vpp
- Sync input signal TTL Sync
- Sync polarities Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

- at 9300 K x = 0.283 / y = 0.297
- at 6500 K x = 0.313 / y = 0.329

* These information are subject to change without notice.

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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's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	Typical 62W	0 %	Green
OFF	Blanked	No	No	<5W	92%	orange

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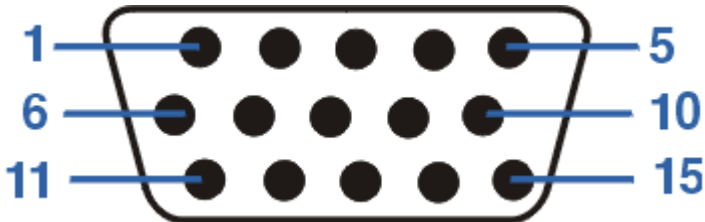
Physical Specifications

- Dimensions 14.2" x 14.3" x 15.3" / 360 x 362 x 387 mm (including base)
14.2" x 12.7" x 15.3" / 360 x 321 x 387 mm (excluding base)
- Weight 11.5kg
- Power supply 90 - 264 VAC, 60-50Hz
(Please refer to rating label)
- Temperature (operating) 0° to 40°C / 32° to 104°F
- Temperature (storage) -25° to +65°C / -13° to +149°F
- Relative humidity(storage) 5% to 95%

* These information are subject to change without notice.

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	NC
2	Green video input	10	Ground
3	Blue video input	11	Monitor Ground
4	Ground	12	DDC-Serial Data
5	Ground	13	H. Sync
6	Red video ground	14	V- Sync/ * VCLK
7	Green video ground	15	DDC-Serial clock
8	Blue video ground	*	For DDC

Views

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

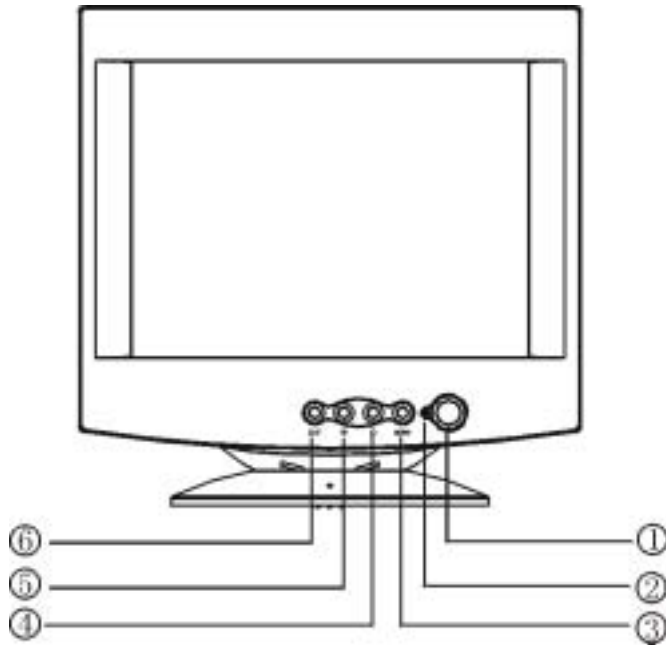
[Front View](#)

[Rear View](#)

Installing your Monitor

[Front View](#) • [Rear View](#)

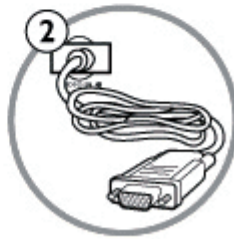
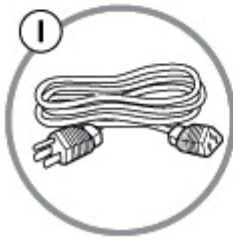
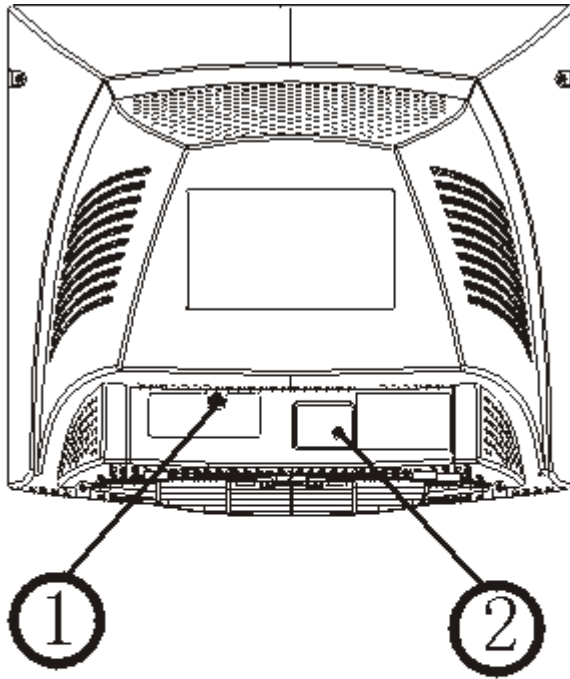
Front View



1	Power Switch
2	Power Indicator
3	Menu
4	Contrast
5	Brightness
6	Exit

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Rear View




1. Power in - attach power cable here.
2. Video In - this is a cable which is already attached to your monitor. Connect the other end of the cable to your PC.


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The OSD Controls

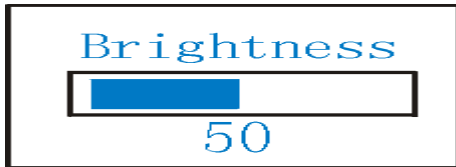
Brightness:

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

With the menu off, press , then press

 to decrease brightness

 to increase brightness




When the brightness is adjusted to the level desired, press the Exit Key. The BRIGHTNESS menu will disappear with the new adjustment saved.

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Contrast:

Contrast is the difference between the light and dark areas on the screen. A 100% contrast is recommended. To adjust your screen's contrast, follow the steps below.

With the menu off, press , then press

 to decrease contrast

 to increase contrast



When the contrast is adjusted to the level desired, press the Exit Key. The CONTRAST window will disappear with the new adjustment saved.












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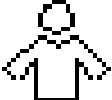


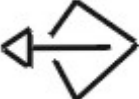


How to Adjust a Setting

1. Press the Menu Key to make the OSD window appear.
2. Press the Up or Down Key to select the desired function.

3. Press the Menu Key again to select the function that you want to adjust.
4. Press the Up or Down Key to change the settings of the current function.
5. When the OSD window is active, it shows the input signal timing. The "H" stands for the horizontal frequency and "V" for the vertical frequency.
6. To exit and save, either press the Exit Key, or leave the monitor alone for 10 seconds. If you want to adjust any other function, repeat steps 2-4.

Adjusting the Picture

Icon	Adjustment	
	Contrast	Adjusts the contrast between the foreground and background of the screen image.
	Brightness	Adjusts the background brightness of the screen image.
	Horizontal position	Moves the screen image to the right or left.
	Horizontal size	Adjusts screen width.
	Vertical position	Moves screen image up or down.
	Vertical size	Adjusts screen height.
	ZOOM	Adjust the picture's horizontal and vertical size simultaneously.
	Pincushion	Straightens the left and right vertical edges of the display.
	Trapezoid	Adjusts the width of the top and bottom of the screen.
	Pin-Balance	Adjust to compensate the pincushion unbalance.
	Parallelogram	Adjusts the viewing area when it is tilted left or right.
	Rotation	Adjust the picture tilt to horizontal position.

		
	6500°K/9300°K (Color Temperature)	The color temperature for 6500°K is $x=0.313$, $y=0.329$ and 9300°K is $x=0.283$, $y=0.297$. It presents two different color sets on the screen. You can select 9300°K or 6500°K by pressing the Shuttle Knob .
	User Color (Red/Blue)	If the 9300°K normal white or 6500°K warmer white do not satisfy your desire, properly adjust R.B GAIN controls to obtain your optimum whiteness level.
	Degauss	If color impurity occurs when moving or swiveling the monitor, press the Shuttle Knob and degauss to fix the picture condition.
	Moiré Reduce	Moiré is the result of interference between the phosphor layout and the video signal. In some cases, you may find the moiré very noticeable. Press the Shuttle Knob to enter in the moiré reduce setting. Please adjust the level to the optimum condition. Note: Too high of a setting will cause the picture to shake.
	Recall	Press RECALL to restore the monitor to factory settings.
	Exit	Close OSD window.
	SELECT LANGUAGE	Select the language you like.

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Customer Care & Warranty

PLEASE SELECT YOUR COUNTRY/AREA TO READ THE WARRANTY COVERED:

PACIFIC: [Australia](#) • [New Zealand](#)

ASIA: [Bangladesh](#) • [China](#) • [Hong Kong](#) • [India](#) • [Indonesia](#) • [Japan](#) • [Korea](#) • [Malaysia](#) • [Pakistan](#) • [Philippines](#) • [Singapore](#) • [Taiwan](#) • [Thailand](#)

AFRICA: [Morocco](#) • [South Africa](#)

MIDDLE EAST: [Dubai](#) • [Egypt](#)

Your International Guarantee

Dear Customer,

Thank you for purchasing this Philips product which has been designed and manufactured to the highest quality standards.

If, unfortunately, something should go wrong with this product Philips guarantees free of charge labor and replacement parts irrespective of the country where it is repaired during a period of 12 months from date of purchase. This international Philips guarantee complements the existing national guarantee obligations to you of dealers and Philips in the country of purchase and does not affect your statutory rights as a customer.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

The Philips guarantee may not apply if:

- the documents have been altered in any way or made illegible;
- the model or production number on the product has been altered, deleted, removed or made illegible;
- repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect.

Please note that the product is not defective under this guarantee in the case where modifications become necessary in order for the product to comply with local or national technical standards which apply in countries for which the product was not originally designed and/or manufactured. Therefore always check whether a product can be used in a specific country.

In case your Philips product is not working correctly or is defective, please contact your Philips dealer. In the event you require service whilst in another country a dealer address can be given to you by the Philips Consumer Help Desk in that country, the telephone and fax number of which can be found in the relevant part of this booklet.

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting your dealer. If you have questions which your dealer cannot answer or any related question please contact the [Philips Consumer Information Centers](#) or via:

Website: <http://www.philips.com>

Philips F1rst Choice Warranty

Thank you for purchasing this Philips monitor.



All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you encounter any difficulties while installing or using this product, please contact Philips directly to benefit from your Philips F1rst Choice Warranty. This three-year service warranty entitles you to a swap model on-site within 48 hours of your call being received within the first year of purchase. If you have any problems with your monitor within the second or third year of purchase, we will repair it after it has been sent to the service provider at your expense and returned to you within five working days, free of charge.

LIMITED WARRANTY (Computer Monitor)

Click here to access the [Warranty Registration Card](#)

Three Years Free Labor / Three Years Free Service on Parts / One Year Exchange*

**Product will be exchanged with a new or renewed to original specifications unit within two business days for the first year. This product must be shipped in at your expense for service during years two and three.*

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For three years thereafter*, all parts will be repaired or replaced, and labor is free. *After three years from the day of purchase*, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on all replaced and repaired products and parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may

not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

- a product used for commercial or institutional purposes.
- the model or production number on the product has been altered, deleted, removed or made illegible.

Where IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

Where CAN I GET MORE INFORMATION?

For more information, contact the Philips Customer Care Center by calling [\(877\) 835-1838](tel:877-835-1838) (U.S.A. customers only) or [\(919\) 573-7855](tel:919-573-7855).

Before Requesting Service...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact the Philips Customer Care Center phone number listed below for product assistance and procedures for servicing:

Philips Customer Care Center

[\(877\) 835-1838](tel:877-835-1838) or [\(919\) 573-7855](tel:919-573-7855)

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

[\(800\) 479-6696](tel:800-479-6696)

Three years free parts and three years free labor will be provided at Philips Canada depot or any one of its authorized service centers.

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER... Please record the model and serial numbers found on the product below.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Before contacting Philips, please prepare the following details so we can solve your problem quickly.

- Philips type number
 - Philips serial number
 - Purchase date (copy of purchase may be required)
 - PC environment Processor:
 - 286/386/486/Pentium Pro/Internal memory
 - Operating system (Windows, DOS, OS/2, MAC)
 - Fax/Modem/Internet program?
 - Other cards installed
- Having the following information available will also help speed up the process:
- Your proof of purchase indicating: date of purchase, dealer name, model and product serial number.
 - The full address to which the faulty monitor has to be collected and the swap model should be delivered.

Just a phone call away

Philips' customer help desks are located worldwide. Within the U.S. you can contact Philips customer care Monday-Friday from 8:00 AM-9:00 PM Eastern Time (ET) and on Saturdays from 10:00 AM-5:00 PM ET hrs by using one of the contact phone numbers.

For more information on this and more great Philips products visit our website at:

Website: <http://www.philips.com>

F1rst Choice Contact Information

Country	Telephone number	Tariff
Austria	01 546 575 603	Local call tariff
Belgium	070 253 010	€0.17
Cyprus	800 92256	Free of Charge
Denmark	3525 8761	Local call tariff
Finland	09 2290 1908	Local call tariff
France	08 9165 0006	€0.23
Germany	0180 5 007 523	€0.12
Greece	00800 3122 1223	Local call tariff
Ireland	01 601 1161	Local call tariff
Italy	199 404 042	€0.25
Luxembourg	26 84 30 00	Local call tariff
The Netherlands	0900 0400 063	€0.20
Norway	2270 8250	Local call tariff
Portugal	2 1359 1440	Local call tariff
Spain	902 888 785	€0.15
Sweden	08 632 0016	Local call tariff
Switzerland	02 2310 2116	Local call tariff
United Kingdom	0906 1010 017	£ 0.15

Consumer Information Centers

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Eastern Europe

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Tel: 8-800-200-0880
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Limab18
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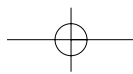
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DOKKI
Phone: (02)-3313993
Fax : (02)-3492142



It Takes Only A Moment To PROTECT YOUR INVESTMENT.

Congratulations on investing in a Philips product. It's an important and intelligent decision that's sure to reward you for many years to come. To ensure you'll get all of the privileges and protection that come with your purchase, please complete your Warranty Registration Card within the next ten days.

SIMPLY MAIL THE CARD BELOW TO RECEIVE ALL OF THESE BENEFITS TO WHICH YOU'RE ENTITLED.

WARRANTY VERIFICATION

Your prompt registration verifies your right to protection under the terms and conditions of your warranty.

OWNER CONFIRMATION

Your completed Warranty Registration Card serves as confirmation of ownership in the event of product loss or theft.

MODEL REGISTRATION

Returning the attached card right away guarantees you'll receive all information and special offers for which your purchase makes you eligible. So please act today!

www.philipsusa.com

DETACH AND MAIL PORTION BELOW.

WARRANTY REGISTRATION CARD

MODEL NUMBER	SERIAL NUMBER
--------------	---------------

Registering your product is an essential step to ensure that you receive all of the benefits you are entitled to as a Philips customer. So complete the information below in ink, and drop this card in the nearest mailbox.

IMPORTANT - RETURN WITHIN TEN DAYS

Date of Purchase: / /
Month Day Year

Your Name:
First Initial Last

Address:
Street Apt. #

City State ZIP Code

Retail Price Paid \$.00
(Excluding sales tax, maintenance agreement, delivery, installation, and trade-in allowance.)

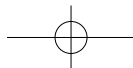
Your Phone Number (optional):
Area Code Phone Number

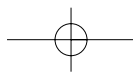
E-mail Address (optional):



Mail This Card Today To Get The Most From Your Purchase!

No, I do not want to receive personalized offers about Philips products or other information from Philips in the future.





PHILIPS
PO BOX 1533
DEPOSIT NY 13754-1533

TIME-DATED
MATERIAL
Please Open
Promptly!

PLEASE
APPLY FIRST
CLASS
STAMP



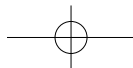
IMPORTANT

PHILIPS Warranty Registration Card

**RETURN THE ATTACHED CARD WITHIN
TEN DAYS TO ENSURE YOUR:**

- ✓ Warranty Verification
- ✓ Owner Confirmation
- ✓ Model Registration

*See Inside For
Valuable
Benefits!*



Frequently Asked Questions

1. What does the "Designed for Windows" logo signify?

The "Designed for Windows" logo means your Philips monitor fulfills the requirements and recommendations of the PC9x (97, 98, or 99) System Design Guide and passes stringent WHQL tests.

2. What models are Mac compatible?

All listed Philips monitors are Mac compatible. BUT, you may need an adapter to connect the monitor to your Mac system. Please contact your dealer/reseller for details.

3. What is TCO?

TCO is a Swedish abbreviation for the Swedish Confederation of Professional Employees.

4. What is MPR?

MPR is a Swedish abbreviation for the Swedish National Board of Measurement and Testing.

5. What are the differences between MPRII, TCO92, TCO95, TCO99 and TCO'03?

In the general hierarchy of standards, TCO'03/TCO99 is the highest level of certification. Next is TCO95, which is "better" than TCO92, which, in turn, is better than MPRII. Below, we compare the standards in each category.

-TCO 92 Phase out: June 30, 2000

-TCO 95 Will be end December 31, 2003

Emissions:

MPRII: Set low emission rules for visual displays.

TCO92: Imposed more stringent standards than MPRII.

TCO95: Further toughened TCO92 rules.

TCO99: Delineated even more severe standards and test procedures than TCO95.

TCO'03: Same as TCO99 standard + Testing uncertainty.

Safety:

MPRII: No requirement.

TCO92/95/99/03: All set requirements.

Energy Saving:

MPRII: No requirement.

TCO92: Standby mode < 30W, Off mode < 8W

TCO95: Standby mode < 30W, Off mode < 8W
TCO99: Standby mode < 15W, Off mode < 5W
TCO'03: Standby mode < 4W, Off mode < 3W

Visual Ergonomics:

MPRII: No requirement.
TCO92: No requirement.
TCO95: Set ergonomic rules including minimum contrast level, flicker and jitter.
TCO99: Tightened TCO95 rules.
TCO'03: Tighten TCO99 rule for CRT and new requirement of screen color for TFT LCD Monitors.

Ecology:

MPRII: No requirement.
TCO92: No requirement.
TCO95: Set general ecological standards including recycling preparation, environmental policy and environmental certification.
TCO99: Further tightened TCO95 norms.
TCO'03: Require the recycling information to users.

6. How do I enable the energy saving function?

Go to 'My Computer' and select 'Control Panel' followed by "Monitor Control". Select "All default selection" and choose your Philips monitor model from the default driver list. Plug and Play will automatically enable the EPA tick box for you. In DOS or Windows 3.1, you must first make sure your PC supports power saving.

7. What is refresh rate?

"Refresh rate" describes the number of times an entire screen is vertically scanned each second. In other words: If a monitor's refresh rate is 85 Hz, its screen is refreshed - or vertically scanned - 85 times per second. A higher refresh rate means better image stability and less flicker. A high refresh rate helps users who work long hours in front of a monitor avoid eye fatigue and stress. To change the refresh rate, go into "Start/Settings / Control Panel / Display / Properties / Setting/Advance/Adaptor" Windows settings of the computer, the monitor will automatically adjust itself to the video card.

8. Why does the picture on the screen appear to flicker?

A low refresh rate or electrical interference typically causes flickering in the picture. Possible solutions include the following:

- Verify that the proper drivers are installed for your video card
- Make sure that all electrical devices (such as mobile phones) are at least 1m from the monitor
- Place the monitor in another physical location away from electrical interference

- Adjust the refresh rate to 75hz or higher.

9. How do I adjust my monitor's resolution?

Available resolutions are determined by the capabilities of your video card and graphic driver. Under Windows '95, you may select the desired available resolution through the 'Display properties/Settings' menu.

10. How can I adjust the size, position and rotation of my screen?

Depending on the model you own, you can use your CustoMax Software, On Screen Display (OSD) or control knobs located on the monitor.

11. What if I get lost when making monitor adjustments?

Simply press OK button then select "Reset to factory settings" to restore all settings.

Press and hold the OSD menu key for about 15 seconds until picture displays "OSD MAIN MENU UNLOCKED"

12. My screen shows NO SYNC INPUT , how can I get rid of this?

Check the following for possible solutions:

- Bent pins on the video cable
- Make sure the computer is turned on
- Ensure the VGA Cable is properly connected
- Ensure the BNC/D-Sub connector on the rear of the monitor is in the correct position, newer models have this option in the On Screen Display under Input Signal Selection.
- Video card may be not a VESA standard (try the monitor with another computer)

13. Why does my monitor display "Out of Range"?

The video card installed in your computer may be too high for the monitor 's specifications. Please contact your computer manufacturer for details on how to lower resolution for your operating system.

14. What is Moire? Why does my monitor have this wavy phenomenon?

Moire is a natural effect or phenomenon of CRT that has the appearance of a wavy pattern, which is repetitive and superimposed on the screen as ripple images. These are a few suggestions to

help reduce or minimize the effects:

- Some monitors have a Moire cancellation feature, activate it to the on position or adjust the Moire cancellation function via the OSD on the monitor.
- Change resolution to the recommended standard for the specific monitor size.
- Change Window viewing pattern/scheme to a pattern where the Moire is less visible.
- Change horizontal and vertical size to optimize the reduction of the Moire effect.

15. My monitor appears to be missing one or more colors. How do I correct this?

- If the OSD menu is also missing a color, please contact service for details
- Set color temperature to 9300 color coordination
- Check the video cable for any bent pins
- Video card could be defective (try the monitor with another computer).

16. When I degauss my monitor, it makes a loud noise. Is this normal?

Yes, when degaussing your monitor via the OSD, it is normal for the monitor to make a relatively loud noise. Please be aware that many models will not degauss more than once within any given time period (up to 10 minutes). This is due to the unit having a temperature sensitive resistor. While the unit is degaussing, the resistor increases in value with heat and once it reaches a certain temperature, the resistance will rise and prevent voltage from reaching the degaussing coil. This is what stops the degausser, and this device's resistance will decrease as it cools back off, enabling the degauss function to operate again. This is an intentional design and is an industry standard, not just for Philips monitors. Please be aware that not all models in the Philips range has this manual degauss function. Some models are built with an auto degauss feature which automatically degausses the monitor when it is switched on.

17. How do I adjust the picture on the screen?

Please perform the following to correct the picture image:

- Reset your monitor via the OSD menu
- Adjust the Horz (width) and/or Vert size (height) in the OSD
- Change monitor timing to work at the recommended resolution

18. The edge of the picture on the screen appears to be distorted. How can I correct this?

Please perform the following to correct the picture image:

- A magnetic or electrical interference typically causes poor geometry in the picture. Place the monitor in a different physical location

- Reset the monitor to the factory preset via the OSD menu
- Access the Geometry Menu in the OSD of the Monitor and perform the necessary adjustments
- Change the monitor timing to the recommended resolution

19. The picture appears too dim. How can I correct this?

Adjust Brightness and/or Contrast via the monitor 's OSD. Some models have a Video Input Select

under Advanced Controls in the monitor 's OSD. Most computers require it to be set at 0.7V.

Please review the following for possible solutions:

- If the OSD menu is also dim, please contact service for repair
- Reset the monitor via the OSD menu
- Change the color temperature settings to 9300 color coordination via the OSD menu
- Set the Contrast to maximum level (100) and Brightness to middle level (50)

20. How can I increase the color display of my monitor?

The amount of video memory your video card holds determines the amount of colors that can be displayed on your computer screen. To get the most out of your video card, you will need to either install the latest drivers onto your computer or upgrade the video cards memory. Please check with your computer or video card manufacturer for further details.

21. Why is there no picture on my monitor?

- Check the wall socket for power. Verify that there is power by connecting another product.
- Ensure the power cable is correctly attached to both the wall socket and the monitor.
- Check that the power button is switched on.
- Unplug the monitor for approx. 1 minute and plug it in again. Switch the monitor back on.

22. Why is there no picture on my monitor even though the power LED is yellow/amber or flashing green?

- Reboot your computer while holding the Ctrl key on your computer. If you see any picture during the boot procedure, please verify the settings of your video card (for Windows go to Control Panel and select Display).
- Check that the video cable is not damaged, bent or that any of the pins in the connector are damaged (please be aware that some VGA connectors have one missing pin). If damaged, replace with a new cable.
- Check that the cable is attached correctly to the computer.
- Press any key on the keyboard to wake-up the computer from power saving mode.

23. Why is there no picture on my monitor even though the power LED is green?

- Verify the Contrast and Brightness setting of the monitor. First press and hold the ▲ (-) button to increase Contrast and then press and hold the ▶ (+) button to increase Brightness. These buttons are located on the front of your monitor.
- Press both the ▲ (-) button and the OK button at the same time to switch input A|B.
- Try and repeat step 48 above.

24. Why does the picture disappear after I press the on/off button quickly?

This is a unique Philips feature designed to preserve the life of your monitor. Please allow 5 seconds between powering off and on your monitor, your picture will then be restored.

Glossary

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A

Autoscan

A microprocessor-based feature of Philips Brilliance monitors is able to detect automatically horizontal and vertical frequencies of input signals with those of the installed video card. An autoscan monitor can thus operate with a wide range of video cards. MultiSync, a registered trademark of NEC, provides a similar function.

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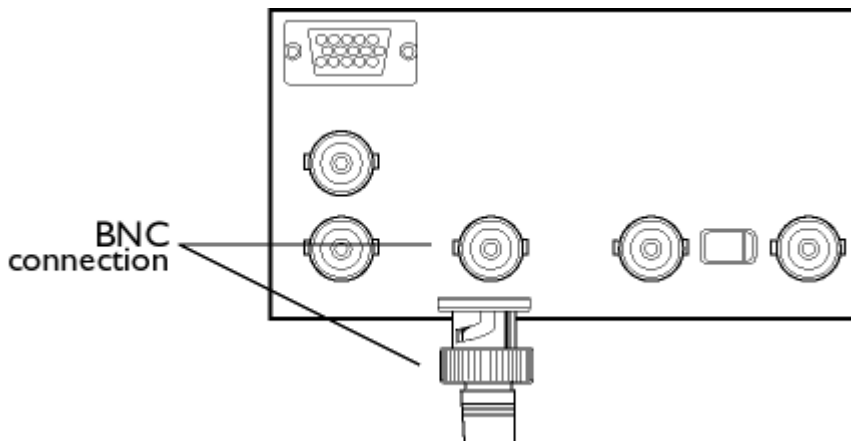
B

Balanced pincushion

See Geometric distortion

BNC connection

A special construction of connector used in some monitors with higher horizontal scanning frequency. The BNC connection can provide the optimum shielding and matching characteristic impedance of video signal path to ensure the best video performance.



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C

CE Mark

CE mark is displayed on products per EMC and LV (low Voltage Device) directives in compliance with European Community safety, EMI and EMS requirements and is compulsory on

products for sale in the European Community.

Color temperature

A way of describing the color of a radiating source in terms of the temperature (in degrees Kelvin) of a black body radiating with the same dominant frequency as the source.

Most Philips monitors offer the possibility of setting the color temperature to any desired value.

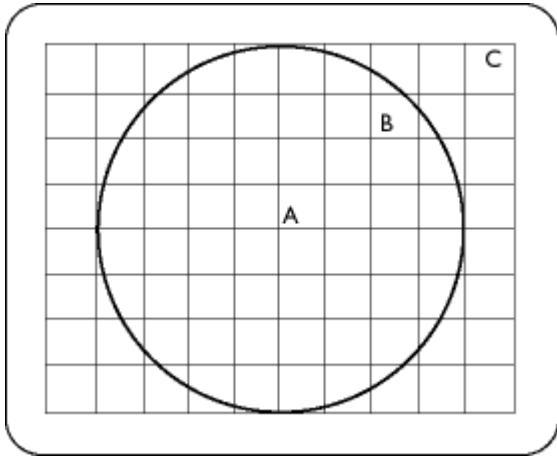
Contrast

The ratio between the brightness of the brightest and darkest parts of a picture. The darkest part of a picture is set by the brightness of the unexcited phosphor, which is governed by the degree with which ambient light is reflected. Contrast is therefore reduced in conditions of high ambient light levels. Black Matrix tubes reflect less ambient light so exhibit higher contrast than other tubes.

Convergence error

Beam misalignment causing one or more of the three beams passing through the wrong aperture in the shadow mask and striking a phosphor dot in the wrong triad.

Convergence error is expressed in mm often at three well-defined points on the screen, designated A, B and C (see figure). Also known as misconvergence.



Points where convergence error is specified.

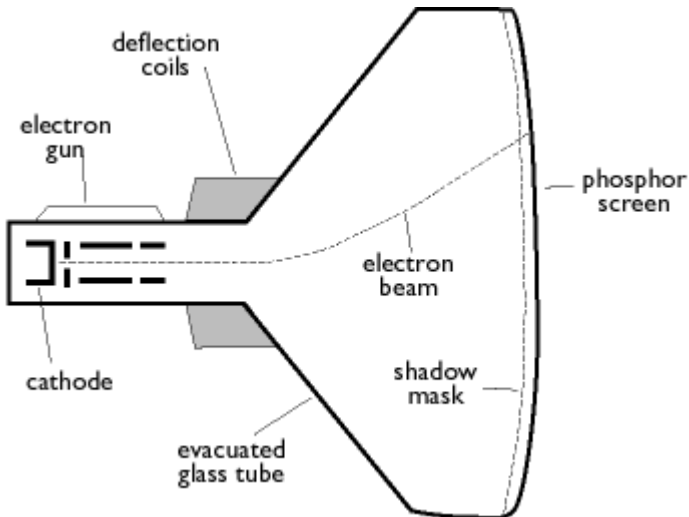
Convergence-error correction

A method of correcting for convergence error to insure that all three beams land simultaneously in the same triad. This is usually accomplished by means of special convergence-error correction coils in the deflection yoke.

CRT

Cathode-ray tube - the general term for all tubes in which one or more electron beams emitted by

a cathode are periodically scanned across a phosphor screen by means of deflection circuitry. A special form of the cathode-ray tube is the TV and monitor picture tube.



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D

DDC (Display Data Channel)

DDC is a communication channel for displays and computers. The DDC feature allows the monitor controller to be automatically configured to make optimal use of the display without manual user interaction. DDC is implemented as part of the new Plug & Play approach introduced into the PC market to increase user friendliness.

The three levels developed for Plug & play are: (1) DDC1, monitor send data to the PC; (2) DDC2B, PC can request information from monitor; and (3) DDC2Bi which is a two-way communication - monitor can be addressed and PC or graphics board can give commands to monitor.

DDC 1/2B

See DDC.

DDC 2Bi

See DDC.

Degaussing

The procedure of demagnetizing the shadow mask and associated metal parts of a picture tube at switch-on to minimize picture distortion. This is usually accomplished by means of a special degaussing coil through which a decaying alternating current is passed to generate an alternating magnetic field that gradually decays to demagnetize the tube. Some monitors offer a manual

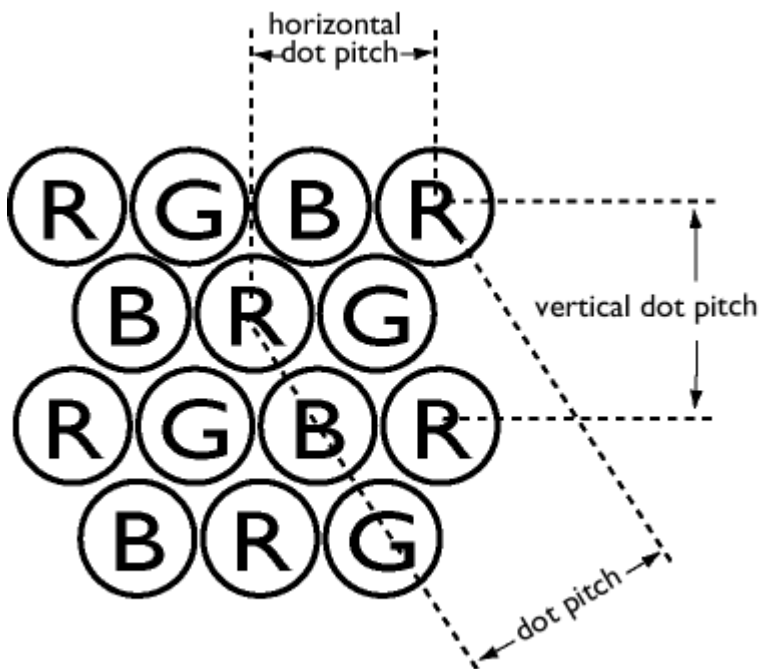
degaussing facility that can be activated at any time.

Digital control

Microprocessor-based digital control of picture parameters and video modes for complete control of picture settings and modes and instant recall of all settings at the push of a button. This is a very advanced feature that allows the user to switch to any required mode at any instant without having to spend time readjusting the picture. It is currently available in most Philips monitors.

Dot pitch

The shortest distance between two phosphor dots of the same color on the screen. The smaller the dot pitch, the better the resolution of the monitor.



Dot rate

Frequency in MHz of the dot clock. It is a measure of the speed with which data is transferred between the video card and subsequent processing circuitry.

Also known as video dot rate.

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E

Electromagnetic radiation standards

International standards set to limit electromagnetic emissions from monitors. There are currently two important standards both derived from regulations originally laid down by Swedish

authorities.

MPR-II

The standard originally proposed by the Swedish National Board of Measurement and Testing. It set maximum levels of electromagnetic radiation emitted by monitors, and has now been adopted as a world standard. MPR-II defines maximum permitted electrostatic, magnetic and electric field levels measured at a distance of 50 cm from the center of the monitor (see table).

TCO

In 1991, the Swedish Tjänstemannens Central Organization (TCO, Swedish confederation of Professional Employees) set a standard even more severe than MPR-II, especially for alternating electric fields (AEF). The TCO standard is more severe since not only are the permitted field levels reduced compared with MPR-II, but the measuring distance is also reduced (see table).

Electromagnetic radiation standards

EMI (Electrical Magnetic Interference)

The electrical and/or magnetic radiation coming from the working electrical or electronic equipment.

EMS (Electrical Magnetic Sustainment)

The ability of electrical or electronic equipment to function properly in the environment with electrical and/or magnetic interference.

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F

Flicker

Very rapid variations in picture intensity caused by the finite time required for the electron beam to scan a picture onto the screen. Two kinds of flicker occur: line flicker caused by the electron beam scanning-in each line of the picture; and frame flicker (or field flicker if the picture is interlaced) caused by the frame repetition rate of 50 frames/second. Frame flicker is noticeable with GUI and DTP software (which have a light background), and can be very disturbing, especially for those who work regularly with displays - contributing to eye strain, headaches, visual blurring, stress, etc. The problem can, however, be eliminated by increasing the refresh rate (number of frames/second) of the monitor to a value above around 70 Hz. Sensitivity to flicker appears to diminish with increasing age.

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H

Hertz

The unit of frequency named after the physicist Heinrich Hertz (1857-1894). 1 hertz (Hz) is equal to 1 cycle/second.

Horizontal dot pitch

See Dot pitch.

Horizontal scanning frequency

Also called line frequency and expressed in kHz, it is the number of video lines written on the screen every second (from left to right). The higher the horizontal scanning frequency, the better the resolution (i.e., the higher the resolution and/or the higher the refresh rate).

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INF File

INF file (Information File)

Information (INF) files store information in a specific format. The set-up functions retrieve information from the INF file to use when performing installation operations. Examples of the type of information stored in an INF file include INI and registry changes, file names, and locations of the source files on source media.

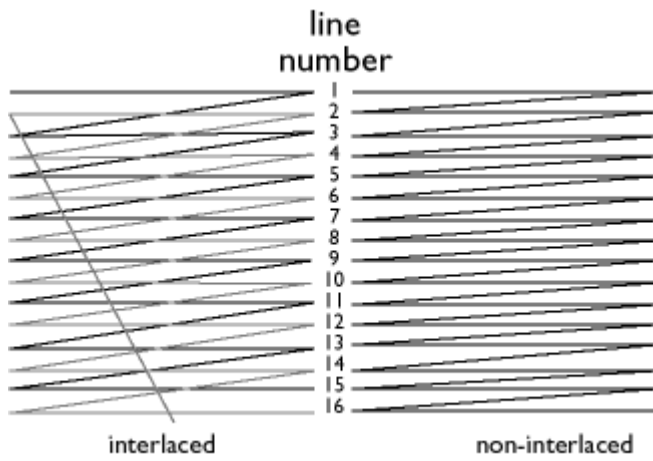
Interlaced/non-interlaced

Interlaced.

The method of writing a picture on the screen by initially writing all even lines and subsequently writing all odd lines of the picture. Result: The complete picture is composed of two interlaced half pictures (or fields). With interlacing, a vertical (or field) frequency of 50 Hz means a picture (or frame) frequency of 25 Hz.

Non-interlaced.

The method of writing a picture on the screen by successive video lines of the picture so that a full frame is written onto the screen in one vertical sweep of the beams. With a non-interlaced display, a vertical frequency of 50 Hz means a picture (or frame) frequency of 50 Hz. At any given resolution, non-interlaced modes are preferable to interlaced modes; however, generation of non-interlaced modes is more expensive.

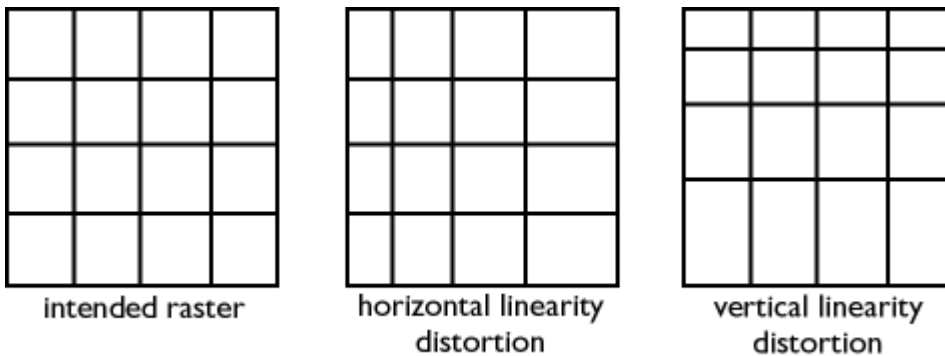


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L

Linearity

The degree to measure the actual location of a pixel on the screen corresponds with its intended location. (see figure)



Line frequency

See Horizontal scanning frequency.

Low-emission monitor

A monitor that complies with international standards on radiation.

See Electromagnetic radiation standards.

Low-frequency electric and magnetic fields

Alternating fields generated by the deflection yoke. These are subject to increasing attention, notably by governing authorities, the trade and the press. Although there is no scientific evidence

that monitor emissions are harmful, much effort has gone into reducing emissions on the principle of better safe than sorry. Currently, there are two areas of interest: very-low frequency (VLF) electric and magnetic fields extending from 2 kHz to 400 kHz, and extreme low frequency (ELF) fields extending from 5 Hz to 2 kHz.

See also *Electromagnetic radiation standards*.

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M

Moiré effect

A fringe pattern arising from the interference between two superimposed line patterns.

In a monitor it comes from the interference between the shadow mask pattern and the video information (video moiré), and between the shadow mask pattern and the horizontal line pattern (scan moiré). It shows itself as wavy patterns on the screen and becomes more noticeable as monitor resolution increases. Since the video signal varies continuously, little can be done about video moiré. Scan moiré depends on the horizontal scanning frequency and can be alleviated by appropriate choice of frequency. Autoscan (MultiSync) monitors, which operate over a range of scanning frequencies, may sometimes exhibit moiré in certain video modes.

MPR

See Electromagnetic radiation standards.

MultiSync monitor

See Autoscan monitor.

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N

Non-interlaced

See Interlaced/non-interlaced.

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O

OSD (On Screen Display)

The feature that allows an end user to adjust screen performance and parameters of monitors directly through an on-screen instruction window. See CustoMax in CrystalClear section.

Overscan

The practice in which areas without useful video information are scanned outside the visible screen area in order to make maximum use of the screen for display of active video information. This practice is occasionally necessary because some video cards generate a video pattern that is smaller than the visible screen area, resulting in an image that is smaller (and less legible) than it needs to be.

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P

Parallelogram Distortion

See Geometric distortion.

Phosphor

Generic name for the class of substances that exhibit luminescence. To produce a picture on screen, phosphors are deposited on the inner surface of the picture-tube screen and excited into luminescence by the electron beam. Typical examples of phosphors are P22 medium short-persistence phosphor and EBU high-color-saturation phosphor.

Pin-cushion Distortion

See Geometric distortion.

Pixel

Abbreviation for picture element, the smallest element of the picture that can be displayed on the screen. The smaller the pixel size, the better the resolution of the monitor. Pixel size is determined by the size of the electron spot on the screen and not necessarily by the phosphor dot pitch (the size of the triad). Thus, a monitor with a large electron spot covering several triads can exhibit poor resolution even though its dot pitch is small.

Pixel frequency

The number of pixels that can be written in a video line per second.

Pixel rate

See pixel frequency

Plug-and-Play

See DDC. See USB section.

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R

Raster

The area on screen that electron beam can reach.

Refresh rate

See Vertical scanning frequency.

Resolution

The number of pixels that can be displayed on the screen. The resolution is specified as the number of pixels in a line multiplied by the number of horizontal lines.

See also video graphic adapter.

Rotation function

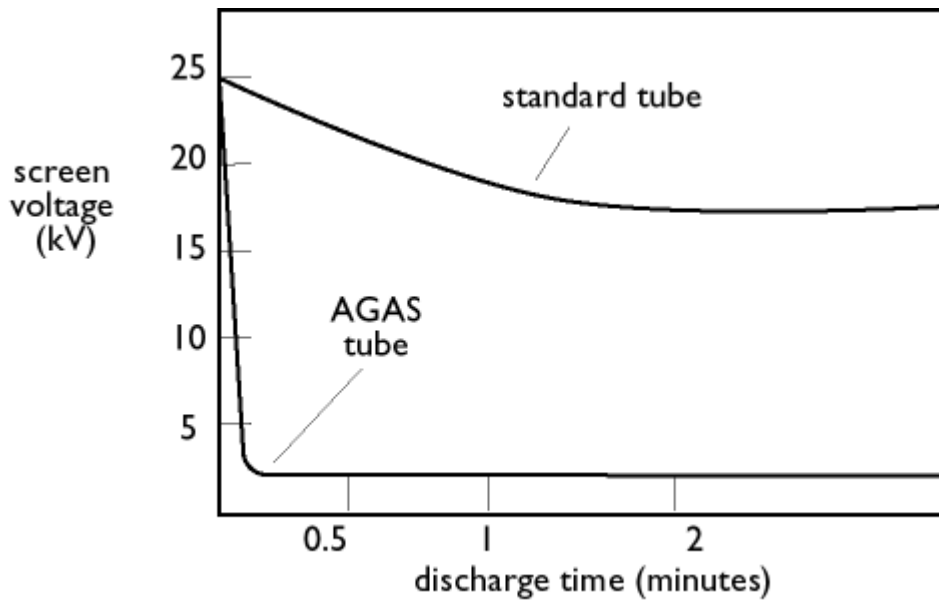
The feature that allows users to adjust the whole screen rotating to be horizontal.

Because of the magnetic field of earth, the screen of monitor will be tilt when the screen faces toward the different direction.

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S

Screen coatings



Anti-Static coatings

Due to bombardment by beam electrons, monitor screens become electrically charged when in use. Electrically charged screens surfaces can attract dust particles. An Anti-Static coating is a conductive coating deposited on the screen (or on a glass panel immediately in front of the screen) that conducts away the charge and prevents screen dust build-up.

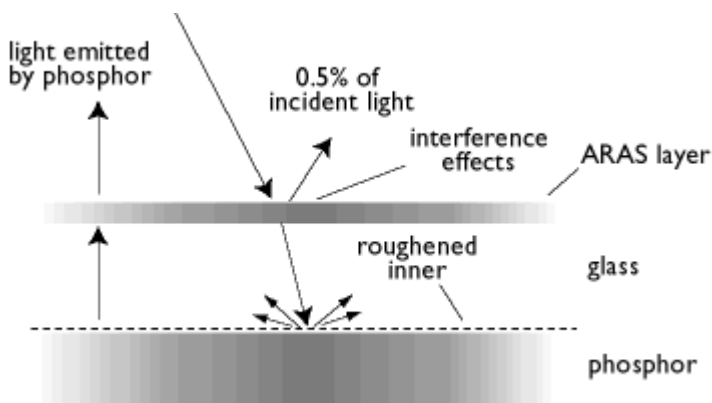
AGAS (Anti-Glare, Anti-Static) coating

AGAS is a silica coating applied to the surface of the screen by a spinning and spraying process. It operates by diffusing reflected light to blur images of light sources on the screen. To provide anti-static properties, the coating is impregnated with small conductive particles.

ARAS (Anti-Reflection, Anti-Static) coating

ARAS is one of the most effective anti-reflection/anti-static screen treatments currently available. It is composed of a multi-layer structure of transparent dielectric material that suppresses specular reflections by broadband interference effects at the screen surface. Anti-static properties are provided by a single conductive layer within the multi-layer structure.

With ARAS, the intensity of reflected light is reduced from around 4.5% of the incident light (the reflectivity of uncoated screens) to less than 0.5%. ARAS also has a major advantage over other screen treatments: It doesn't diffuse or scatter reflected light, so picture contrast and sharpness remain completely unimpaired. It's also easy to clean and tough enough to withstand commercially available cleaning agents.



The ARAS coating reflects only about 0.5% of the incident light.

AGARAS (Anti-Glare Anti-Reflection Anti-Static) coating.

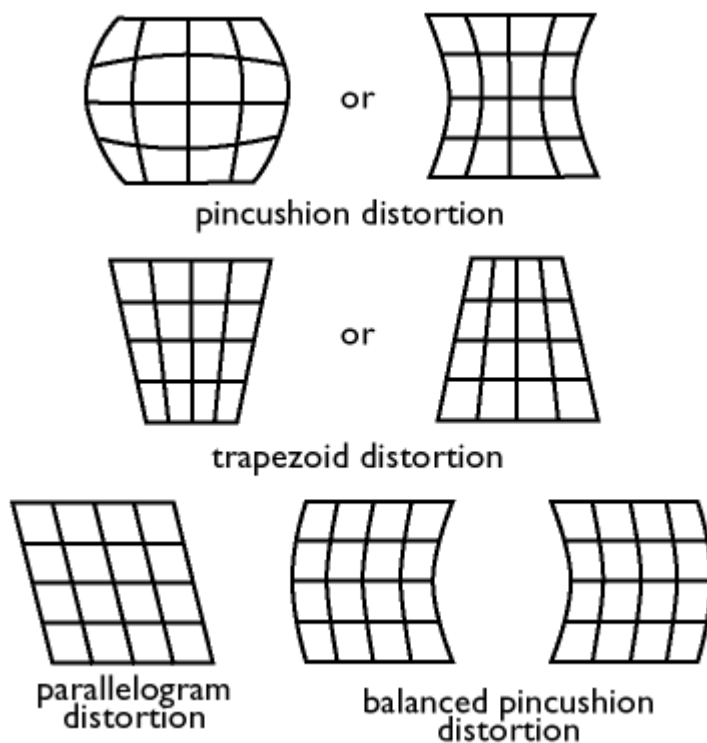
A combined anti-reflection, anti-glare, anti-static coating.

Self-test function

A monitor equipped with hardware or software to automatically detect cable connection status.

Shape

Deviation of a reproduced picture from its intended shape. The following types of distortion are most common:



SOG (Synchronization On Green)

A properly functioning color monitor requires five kinds of signals: horizontal sync pulse, vertical sync pulse, red color signal, green color signal and blue color signal. Signals from a PC are transmitted to a monitor using one of three methods:

1. Separate sync: Horizontal and Vertical sync signals transmitted separately
2. Composite sync: Horizontal and vertical sync pulses mixed into a single signal train.
3. SOG: Horizontal and vertical sync pulses mixed, then combined with the green color signal.

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TCO

See Electromagnetic radiation standards.

Tilt function

See rotation function.

Trapezoid distortion

See Geometrical distortion.

TTL signal

A TTL (Transistor-transistor-logic) signal is a digital signal level for controlling the screen colors. With TTL driving, the red, green and blue signals can only be switched on or off or provided with an intensity signal. A TTL-driven monitor can thus display a maximum of 64 colors. Video standards such as MDA, CGA and EGA are based on TTL level.

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U

USB or Universal Serial Bus

[A smart plug for PC peripherals.](#) USB automatically determines resources (like driver software and bus bandwidth) required by peripherals. USB makes necessary resources available without user intervention.

- USB eliminates "case angst" -- the fear of removing the computer case to install add-on peripherals. And USB also eliminates adjustment of complicated IRQ settings when installing new peripherals.
- USB does away with "port gridlock." Without USB, PCs are normally limited to one printer, two Com port devices (usually a mouse and modem), one Enhanced Parallel Port add-on (scanner or video camera, for example) and a joystick. More and more peripherals for multimedia computers arrive on the market every day. With USB, up to 127 devices can run simultaneously on a computer.
- USB permits "hot plug-in." There's no need to shut down, plug in, reboot and run set-up to install peripherals. And no need to go through the reverse process to unplug a device.

In short, USB transforms today's "Plug-and-Pray" into true Plug-and-Play!

Hub

A Universal Serial Bus device that provides additional connections to the Universal Serial Bus.

Hubs are a key element in the plug-and-play architecture of USB. The Figure shows a typical hub. Hubs serve to simplify USB connectivity from the user's perspective and provide robustness at low cost and complexity.

Hubs are wiring concentrators and enable the multiple attachment characteristics of USB. Attachment points are referred to as ports. Each hub converts a single attachment point into

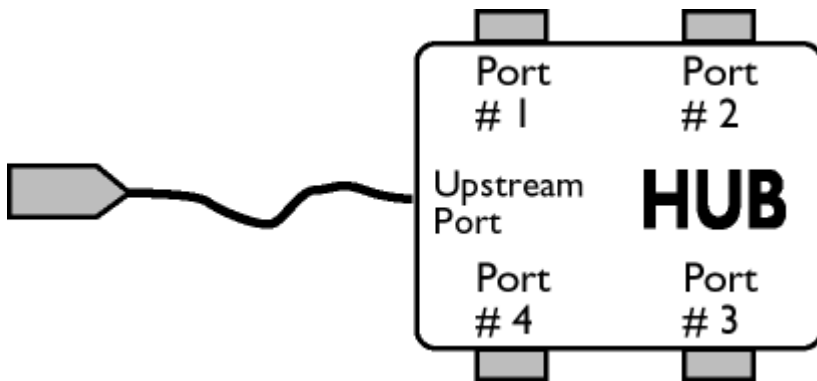
multiple attachment points. The architecture supports concatenation of multiple hubs.

The upstream port of a hub connects the hub towards the host. Each of the other downstream ports of a hub allows connection to another hub or function. Hubs can detect, attach and detach at each downstream port and enable the distribution of power to downstream devices. Each downstream port can be individually enabled and configured at either full or low speed. The hub isolates low speed ports from full speed signaling.

A hub consists of two portions: the Hub Controller and Hub Repeater. The repeater is a protocol-controlled switch between the upstream port and downstream ports. It also has hardware support for reset and suspend/resume signaling. The controller provides the interface registers to allow communication to/from the host. Hub specific status and control commands permit the host to configure a hub and to monitor and control its ports.

Device

A logical or physical entity that performs a function. The actual entity described depends on the context of the reference. At the lowest level, device may refer to a single hardware component, as in a memory device. At a higher level, it may refer to a collection of hardware components that perform a particular function, such as a Universal Serial Bus interface device. At an even higher level, device may refer to the function performed by an entity attached to the Universal Serial Bus; for example, a data/FAX modem device. Devices may be physical, electrical, addressable, and logical.



Downstream

The direction of data flow from the host or away from the host. A downstream port is the port on a hub electrically farthest from the host that generates downstream data traffic from the hub. Downstream ports receive upstream data traffic.

Upstream

The direction of data flow towards the host. An upstream port is the port on a device electrically closest to the host that generates upstream data traffic from the hub. Upstream ports receive downstream data traffic.

UPS (Universal Power Supply)

The monitor with UPS feature can work in different countries with various mains voltage.

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V

Vertical dot pitch

See Dot pitch.

Vertical scanning frequency

Expressed in Hz, this is the number of fields written to the screen every second in interlaced mode. In non-interlaced mode vertical scanning frequency is the number of frames (complete pictures) written to the screen every second (also known as refresh rate).

Vertical sync pulses

A train of square shaped waveforms that define the start of a new frame.

VESA

Video Electronic Standards Association, a consortium of manufacturers formed to establish and maintain industry-wide standards for video cards and monitors. VESA was instrumental in the introduction of the Super VGA and Extended VGA video graphics standards (see Video graphics adapters) with a refresh rate of 70 Hz, minimizing flicker and helping to reduce operator eyes fatigue and stress.

Video dot rate

See Dot rate.

Video graphics adapters

A card equipped with a character or graphic generator and video memory, which maps to the screen. A microprocessor scans video memory and translates bit information from the computer into displayable video signals for the monitor. These cards comply with various standards that determine the nature and quality of the display.

[VGA \(Video Graphics Array\)](#), introduced in 1987, was the first analog card. It offered still higher resolution than EGA: 640 X 480 pixels for graphics and 720 x 400 pixels for text, and a color palette of 256 colors. VGA could also emulate EGA and CGA.

[Super VGA](#), devised by VESA in 1989, offers a resolution of 800 x 600 pixels.

[Extended VGA](#), introduced by VESA in 1991, offers a top resolution of 1024 x 768 pixels (non-interlaced) and a refresh rate slightly higher than IBM's XGA 8514A.

[High-end, graphics adapters](#), introduced over the last three years for professional workstations, offer top resolutions from 1280 x 1024 to 1600 x 1280, horizontal line frequencies up to 90 kHz and bandwidths up to 200 MHz.

VIS (Viewable Image Size)

The real screen dimensions that users can see measured diagonally. The VIS of a monitor is always less than the so called screen size of a monitor. For example, the VIS of a 17-inch monitor is only about 16 inches. It depends on the useful screen size of CRT and the opening of a monitor's front cabinet.

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