LG Electronics Inc.

http://www.lge.co.kr

USER GUIDE

99G Color Monitor

LG

Color Monitor

USER GUIDE
BENUTZERHANDBUCH
MANUEL D'UTILISATION
GUIDA UTENTE
GUIA DEL USUARIO

MODEL: 99G

AGENCY REGULATORY NOTICE

FCC Compliance Statement

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 using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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 (or your) authority to operate the equipment. Only peripherals (digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Only shielded Signal Cables may be used with this System.

Canadian D.O.C. Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE Conformity Notice

Products with the "CE" Marking comply with the EMC Directive(89/336/EEC) and LOW VOLTAGE Directive (73/23/EEC) issued by the Commission of the European Community.

Compiance with these directives implies conformity to the following European Norms :

EN 55022	; Radio Frequency Interference
EN 50082-1:1992	; Electromagnetic Immunity
EN 60555-2	; Power Line Harmonics
EN 60555-3	; Voltage Fluctuations
EN 60950	; Product Safety

Environmental Labelling of Personal Computers

Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation), Statens Energimyndighet (The Swedish National Energy Administration) and SEMKO AB.
The requirements cover a wide range of issues: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does the environmenal labelling involve?

The environmental demands has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development
SE-114 94 Stockholm, Sweden
Fax: +46 8 782 92 07
Email (Internet): development@tco.se
Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Environmental requirements

Flame retardants
Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**
Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**
Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

CFCs (freons)
The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**
Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

*** Bio-accumulative is defined as substances which accumulate within living organisms**
**** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.**

Table of Contents

Introduction

Thank you for purchasing a high resolution monitor. It will give you high resolution performance and convenient reliable operation in a variety of video operating modes.

Features

- The monitor is a 19-inch (18.0-inch viewable) intelligent, microprocessor based monitor compatible with most analog RGB (Red, Green, Blue) display standards, including IBM PC®, PS/2®, Apple®, Macintosh®, Centris®, Quadra®, and Macintosh II family.
- The monitor provides crisp text and vivid color graphics with VGA, SVGA, XGA, and VESA Ergo modes (non-interlaced), and most Macintosh compatible color video cards when used with the appropriate adaptor. The monitor's wide compatibility makes it possible to upgrade video cards or software without purchasing a new monitor.
- Digitally controlled auto-scanning is done with the micro-processor for horizontal scan frequencies between 30 and 96kHz, and vertical scan frequencies between 50-160Hz. The microprocessor-based intelligence allows the monitor to operate in each frequency mode with the precision of a fixed frequency monitor.
- The microprocessor-based digital controls allow you to adjust conveniently a variety of image controls by using the OSD (On Screen Display).
- The monitor has 31 memory locations for display modes, 5 of which are factory preset to popular video modes.
- This monitor is capable of producing a maximum horizontal resolution of 1600 dots and a maximum vertical resolution of 1200 lines. It is well suited for CAD work and sophisticated windowing environments.
- For greater user health and safety, this monitor complies with the stringent Swedish TCO'99 requirements for low radiation emissions.
- For low cost of monitor operation, this monitor is certified as meeting the EPA Energy Star requirements, and utilizes the VESA Display Power Management Signalling (DPMS) protocol for power saving during non-use periods.

Monitor Registration

The model and serial numbers are found on the rear of this unit. These numbers are unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Staple your receipt here.

Date of Purchase : _____
Dealer Purchased From : _____
Dealer Address : _____
Dealer Phone No. : _____
Model No. : _____
Serial No. : _____

Trademark Acknowledgments
LG is a trademark of **LG Electronics Inc.**
IBM is a registered trademark and **VGA** is a trademark of International Business Machines Corporation.

Warning : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Avertissement : Ne pas placer cet appareil dans un endroit humide. Cela peut entraîner un incendie ou une décharge électrique.

Important Precautions

This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electrical shock or fire hazard. In order not to defeat the safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing. Also follow all warnings and instructions marked directly on your monitor.

On Safety

Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards if not being provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

Operate the monitor only from a power source indicated in the specifications of this manual or listed on the monitor. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Do not Open the Monitor

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the monitor is not operating properly.

To Avoid Personal Injury :

- Do not place the monitor on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

To Prevent Fire or Hazards:

- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.
- Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.

- Do not add accessories that have not been designed for this monitor.
- During a lightning storm or when the monitor is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

Monitors are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore, NEVER:

- Block the bottom ventilation slots by placing the monitor on a bed, sofa, rug, etc.
- Place the monitor in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the monitor near or over a radiator or heat source.

On Cleaning

- Unplug the monitor before cleaning the face of the picture tube.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the picture tube because overspray may cause electrical shock.

On Repacking

- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

Connecting the Monitor

Connection to any IBM VGA PC compatible system

Figure 1 shows the signal cable connections from the monitor to the Video Graphics Array (VGA) port typical in an IBM PC or PC compatible. This also applies to any graphics video card for PC-CAD or workstation that has a 15 pin high density (3 row) D-Sub connector.

1. Power off both the monitor and PC.
2. Connect the 15 pin VGA connector of the supplied signal cable to the output VGA video connector on the PC and the matching input connector on the rear of the monitor. The connectors will mate only one way. If you cannot attach the cable easily, turn the connector upside down and try again. When mated, tighten the thumbscrews to secure the connection.
3. Power ON the PC, then the monitor.
4. If you see the **SELF DIAGNOSTICS** message, check the signal cable and connectors.
5. After using the system, power OFF the monitor, then the PC.

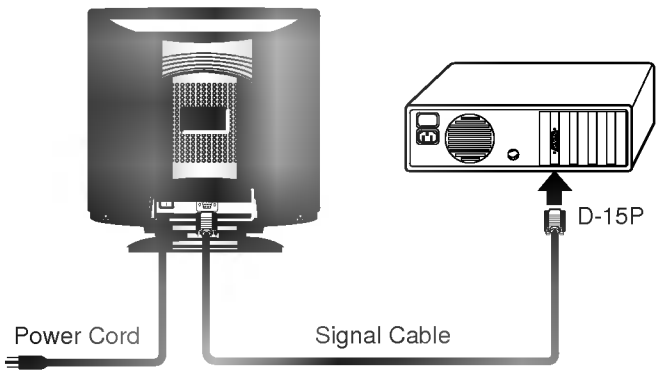


Figure 1.

Connecting to an Apple Macintosh PC

Figure 2 shows the connection to an Apple Macintosh, using a separately purchased adapter.

1. Power OFF both the monitor and the PC.
2. Locate the appropriate MAC to VGA adapter block at your local computer store. This adapter changes the high density 3 row 15 pin VGA connector to the correct 15 pin 2 row connection to mate with your MAC. Attach the other end of the signal cable to the side of the adapter block with 3 rows.
3. Connect the attached adapter block/signal cable to the video output on your MAC.
4. Power ON the PC, then the monitor.
5. If you see the **SELF DIAGNOSTICS** message, check the signal cable and connectors.
6. After using the system, power OFF the monitor, then the PC.

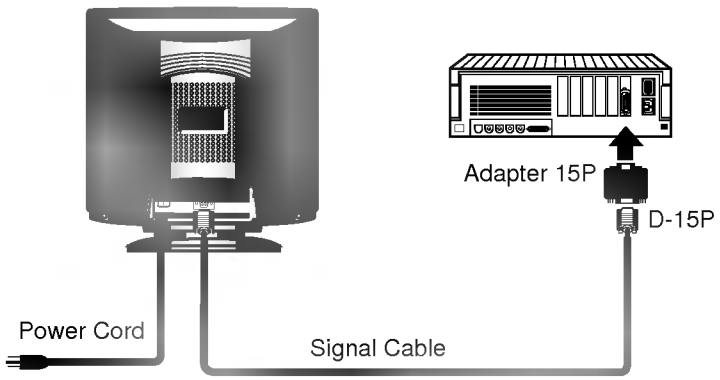
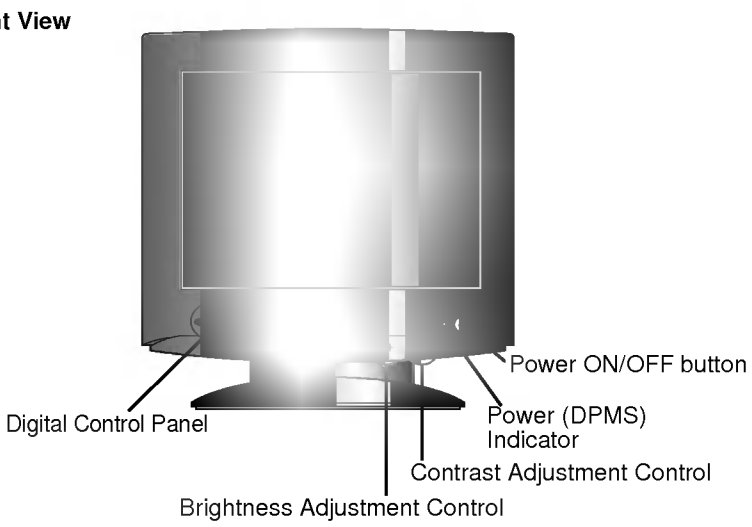


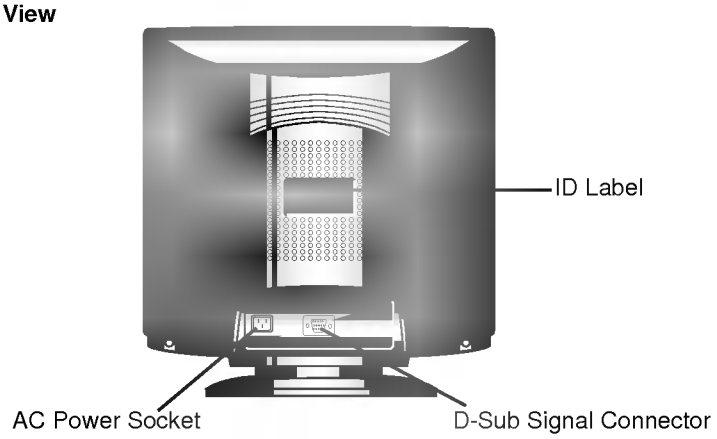
Figure 2.

Location and Function of Controls

Front View

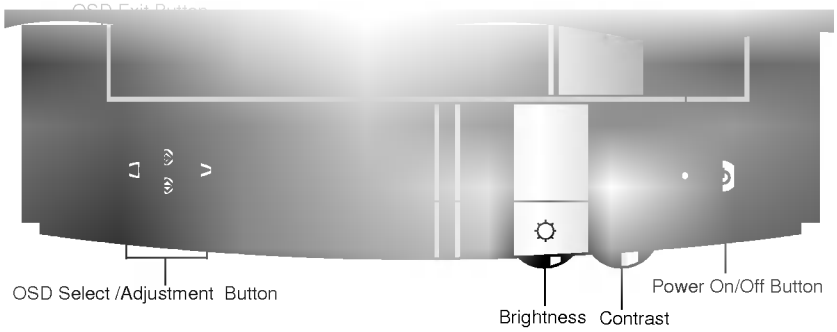


Rear View



Control Panel Function

Front Panel Controls

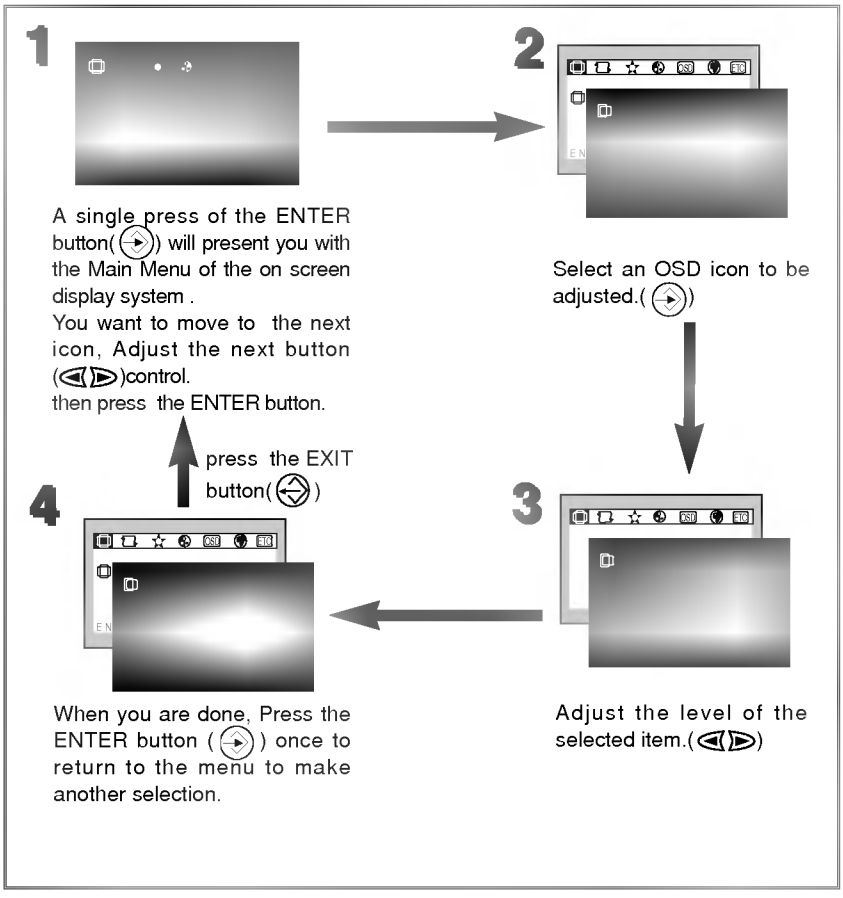


Control	Function
OSD Enter Button	Use this button to start/enter and exit from the On Screen Display (OSD). If there is no OSD on the screen, One click (press) of this button will show the Main Menu.
OSD Exit Button	To disappear of the OSD on the screen.
OSD Select/ Adjustment Buttons	Use these buttons for selecting (highlighting) an OSD icon to be adjusted. It is also used for selecting the level of the selected item to be adjusted.
Brightness Adjustment Control	Used to adjust the brightness of the screen.
Contrast Adjustment Control	Adjust the display to the contrast desired.
Power (DPMS) Indicator	This indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/ suspend/power off), this indicator color changes to amber.
Power ON/OFF Button	Use this button to turn the monitor on or off.

On Screen Display (OSD) Control Adjustment

Making adjustments to the image size, position and operating parameters of the monitor are quick and easy with the On Screen Display Control system, using only the Enter button and Adjustment Control buttons. A quick example is given below to familiarize you with the use of the controls. Following this section is an outline of the available adjustments and selections you can make using the OSD.

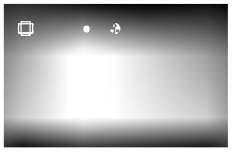
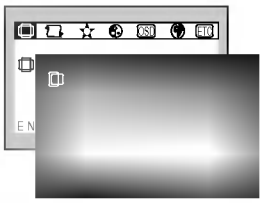
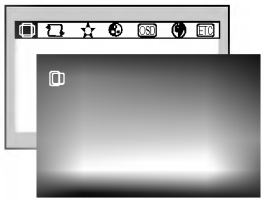
Note : Allow the monitor to stabilize for at least 30 minutes before making image adjustment.

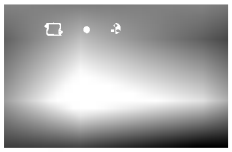
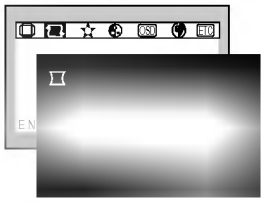
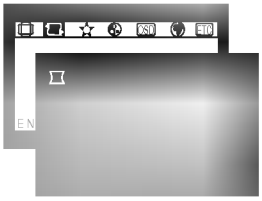


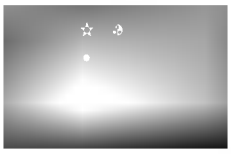
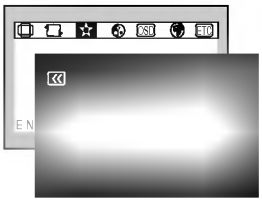
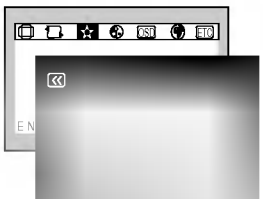
On Screen Display(OSD) Selection and Adjustment

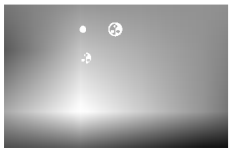
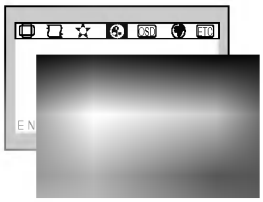
You were introduced to the procedure of selection and adjusting an item using the OSD system.

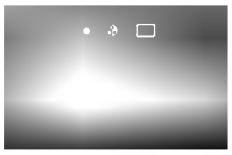
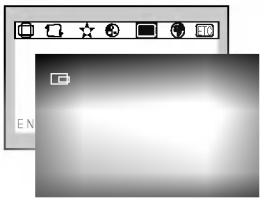
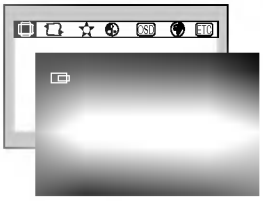
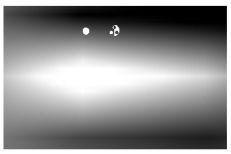
Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

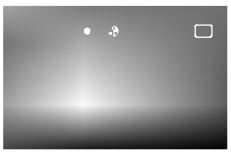
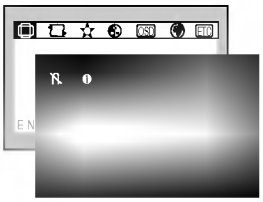
OSD Adjust	Description
	**H Position** (Horizontal Position) To move picture image left and right.
	H Size (Horizontal Size) To adjust image width.
	V Position (Vertical Position) To move image up and down.
	**V Size** (Vertical Size) To adjust image height.
	Zoom To adjust horizontal and vertical image size simultaneously.
	Tilt To correct image rotation.
	**Recall** If the monitor is operating in a factory preset mode, this control will reset the image to the factory preset mode. If the monitor is operating in a user mode, this control has no effect.

OSD Adjust	Description
	**(side) Pincushion** To correct the bowing in and out of the image.
	Trapezoid To correct geometric distortion.
	**Pin balance (Side pincushion balance)** To correct the balance of both sides bowing.
	Parallelogram This control adjusts for a skewing of the screen image.
	**Top Corner** To correct the irregular distortion of the displayed image.
	Bottom Corner To correct the irregular distortion of the displayed image.
	Recall Select the **Recall** screen to reset Side Pincushion Balance, Parallelogram, Top Corner and Bottom Corner to their original factory preset settings. If the monitor is operating in a user mode, this control has no effect.

OSD Adjust	Description
	**H Moire** (Horizontal Moire) Reduce horizontal moire when interference patterns of dark steady wary lines appear on your screen. The moire adjustments may affect the focus of the screen.
	**V Moire** (Vertical Moire) Reduce vertical moire when interference patterns of dark steady wary lines appear on your screen. The moire adjustments may affect the focus of the screen.
	**H Convergence** (Horizontal Convergence) This item allows you to adjust the horizontal convergence. The horizontal convergence control adjust the alignment of the red and blue horizontal fields.
	Degauss Used to demagnetize the picture to give a move account image and color.

OSD Adjust	Description
	9300 **9300K** To appear the display's color temperature. Slightly bluish white.
	6500 **6500K** To appear the display's color temperature. Slightly reddish white.
	**User** To set your own color levels. Allow for specific adjustments to Red, Green and Blue (R/G/B).
	Color Temp (Temperature) Temperature range is from 5000K to 10000K. So, user easily color set without adjustment Red, Green and Blue (R/G/B).

OSD Adjust	Description
	**H Position** (Horizontal Position) This item lets you adjust the OSD horizontal position.
	**V Position** (Vertical Position) This item lets you adjust the OSD vertical position.
	**OSD Time** To control OSD display time from 5 second to 120 second.
	**Language** To choose the language in which the control names are displayed. OSD Menus are available in 8 language: **English, Deutsch, Français, Español, Italiano, Svenska, Suomi and Português.**
	

OSD Adjust	Description
	**Degauss** Used to demagnetize the screen if minor color impurity occurs.
	**Information** To inform users of preset and user mode data. This item provides information about the stored video modes.
	Video Level To select input signal Level (0.7V or 1.0V).
	DDC (Display Data Channel) To select the DDC plug and play function.
	CLAMP Clamp In case of input SOG(Sync On Green) Video Signal, the background raster will appear the green. Then, to select the SOG(Sync On Green) in the clamp, will take you back to the original background raster.

Video Memory Modes

The monitor has 31 memory locations for display modes, 5 of which are factory preset to popular video modes.

- **Display Modes (Resolution)**

Display Modes (Resolution)			Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	VESA	640 x 480	43.269	85
2	VESA	800 x 600	53.674	85
3	VESA	1024 x 768	68.677	85
4	VESA	1280 x 1024	91.146	85
5	VESA	1600 x 1200	93.750	75

- **User Modes**
  Modes 6-31 are empty and can accept new video data. If the monitor detects a new video mode that has not been present before or is not one of the preset modes, it stores the new mode automatically in one of the empty modes starting with mode 6.

  If you use up the 26 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 6.

- **Recalling Display Modes**
  When your monitor detects a mode it has seen before, it automatically recalls the image settings you may have made the last time you used that mode.

  You may, however, manually force a recall of the factory default display settings of the each preset mode by pressing the Recall button. All preset modes are automatically recognized by the monitor as its microcontroller senses the incoming signal characteristics.

  The ability to recall the preset modes is dependent on the signal coming from your PC's video card or system. If this signal does not match any of the factory modes, the monitor automatically sets itself to display the image.

Energy Saving Design

This monitor complies with the EPA's Energy Star program, which is a program designed to have manufacturers of computer equipment build circuitry into their products to reduce power consumption during time of non-use.

This monitor also goes into its energy saving mode if you exceed the monitor's operating limits, such as the maximum resolution of 1600x1200 or the frequency refresh rates of 30-96kHz horizontal or 50-160Hz vertical. When this monitor is used with a Green or EPA Energy Star PC, or a PC with a screen blanking software following the VESA Display Power Management Signalling (DPMS) protocol, this monitor can conserve significant energy by reducing power consumption during periods of non-use. When the PC goes into the energy saving mode, the monitor will go into a suspended operation state, indicated by the Power LED light changing from a green color to an amber color. After an extended period in the suspended mode, the monitor will then enter a semi-OFF mode to conserve more energy. In the semi-OFF mode or DPMS OFF mode as we call it in our specifications, the Power LED will still show an amber color. When you awaken your PC by hitting a key or moving the mouse, the monitor will also awaken to its normal operating mode, indicated by the green Power LED light. By following these conventions, the power consumption can be reduced to the following levels:

Power Consumption

	Hori.	Verti.		Power	
Normal(Max.)	On	On	Normal	≤ 130W	Green
Stand-by	Off	On	Off	≤ 8W	Amber
Suspend	On	Off	Off	≤ 8W	Amber
Off	Off	Off	Off	≤ 3W	Amber

Low Radiation Compliance (MPR II)

This monitor meets one of the strictest guidelines available today for low radiation emissions, offering the user extra shielding and an antistatic screen coating. These guidelines, set forth by a government agency in Sweden, limit the amount of emission allowed in the Extremely Low Frequency (ELF) and Very Low Frequency (VLF) electromagnetic range.

Self Diagnostics

This monitor can sense when there is a possible problem present, and informs you of this condition by presenting you with a **SELF DIAGNOSTICS** OSD. This OSD may pop up when it is On but no signal is detected. In this case the message **CHECK SIGNAL CABLE** will be high lighted, alerting you to check the signal cable connections.

DDC (Display Data Channel)

DDC is a communication channel over which the monitor automatically informs the host system (PC) about its capabilities. This monitor has two DDC function; DDC1 and DDC2B. DDC1 and DDC2B carry out uni-directional communication between the PC and the monitor. Under these situations, the PC sends display data to the monitor but not commands to control the monitor settings.

Note : PC must support DDC functions to do this.

If your monitor is displaying a mono chrome image or the wrong resolution, select the DDC OFF function.

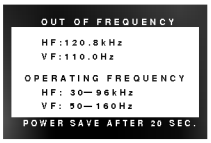
Troubleshooting

Self diagnostics message.

■ The signal cable is not connected.

OUT OF FREQUENCY message appears.

■ The frequency of the sync input is outside the operating range of the monitor.



***Horizontal Frequency: 30-96kHz**
***Vertical Frequency: 50-160Hz**

Use the graphics board's utility software to change the frequency setting (Refer to the manual for graphics board).

The power LED is illuminated amber.

■ Display power management mode.
■ These is no sync signal.
■ The signal cable is not fastened securely.
■ Check the computer power and graphics adapter configuration.

The image on the SCREEN is not centered, or too small, or not a rectangle shape.

■ Image adjustment not been done yet in the current operating mode. Use the SELECT and ◀ or ▶ buttons to set the image to your liking.

The monitor doesn't enter the power saving off mode (Amber).

■ Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function.

Note : If the power indicator(LED) light is blinking amber, may result in abnormal condition of the monitor.

Then press a power ON/OFF button on the front panel control and call your service technician for more information.

Service

Unplug the monitor from the wall outlet and refer servicing to qualified service personnel when :

- The power cord or plug is damaged or frayed.
- Liquid has been spilled into the monitor.
- The monitor has been exposed to rain or water.
- The monitor does not operate normally following the operating instructions. Adjust only those controls that are covered in the operating instructions. An improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore the monitor to normal operation.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor exhibits a distinct change in performance.
- Snapping or popping from the monitor is continuous or frequent while the monitor is operating. It is normal for some monitors to make occasional sounds when being turned on or off, or when changing video modes.

Do not attempt to service the monitor yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

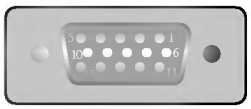
Specifications

Sync Signal Types

Type	H. Sync	V. Sync	Green
Separate Sync	H. Sync	V. Sync	-
Composite Sync	H/V Sync	-	N.C
Sync On Green	-	-	H/V Sync

(N.C : No Connection)

Signal Connector Pin Assignment



Pin	Signal(D-Sub)	Pin	Signal(D-Sub)
1	Red	9	NC
2	Green	10	Ground
3	Blue	11	Ground
4	Ground	12	SDA
5	Self-Test	13	Hori. Sync
6	Red Ground	14	Vert. Sync
7	Green Ground	15	SCL
8	Blue Ground		

Note :No. 5 Pin have to ground on the PC side.

Specifications

Picture tube
- 19 inches (18.0 inches viewable) FST, 90˚ deflection
- 0.26 mm dot pitch, Non-glare, Darkface
- Anti-Static, U-Coating

Sync Input
- Horizontal Frequency : 30 - 96kHz (Automatic)
- Vertical Frequency : 50 - 160Hz (Automatic)
- Input Form : Separate, Composite, SOG(Sync On Green), Positive/Negative,
- Signal input : 15 pin D-Sub Connector

Video Input
- Input Form : Separate, RGB Analog, 0.7 Vp-p/75 ohm, Positive
- Maximum Resolution : 1600 x 1200, 75Hz

Power Input
- AC100-240V 50/60Hz 2.0A

Dimensions (with tilt/swivel stand)
- Width : 458 mm/18.0inches
- Depth : 479 mm/18.9 inches
- Height : 468 mm/18.4 inches

Weight
- Net : 22.5kg (49.60lbs)

Environment
- Operating condition
  - Temperature : 10˚C to 35˚C
  - Humidity : 10% to 90% non-condensing
- Storage condition
  - Temperature : 0˚C to 60˚C
  - Humidity : 5% to 90% non-condensing

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