

# HITACHI

## COLOUR MONITOR

# CM621FET

## USER MANUAL MANUEL D'UTILISATION BEDIENUNGSANLEITUNG MANUAL DE USUARIO MANUALE DI ISTRUZIONI



**READ THE INSTRUCTIONS INSIDE CAREFULLY.  
KEEP THIS USER MANUAL FOR FUTURE REFERENCE.**

For future reference, record the serial number of your color monitor.

**SERIAL No.** \_\_\_\_\_

The serial number is located on the rear of the monitor.

This monitor is ENERGY STAR<sup>®</sup> compliant when used with a computer equipped with VESA DPMS.

The ENERGY STAR<sup>®</sup> emblem does not represent EPA endorsement of any product or service.

As an ENERGY STAR<sup>®</sup> Partner, Hitachi, Ltd. has determined that this product meets the ENERGY STAR<sup>®</sup> guidelines for energy efficiency.



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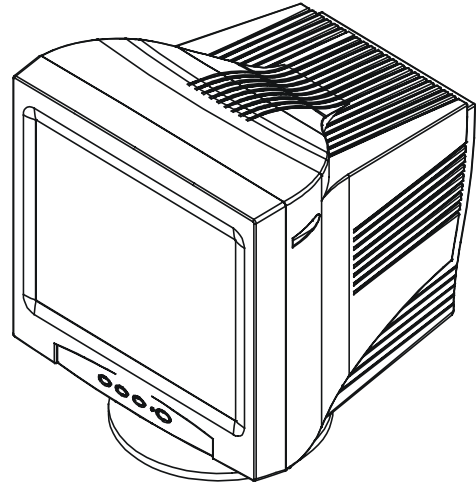
# Monitor

# INTRODUCTION

Congratulations on your purchase of this high performance 17" monitor. Using state-of-the-art electronics, this monitor can support up to 1280 x 1024 resolution. The on-screen display(OSD) allows you to customize the display setting to suit your individual needs.

## *Features*

- ☺ 17-inch monitor with a large, 16.1 inch/407 mm viewable screen for comfortable viewing.
- ☺ OSD controls for easy and accurate adjustment of the screen image.
- ☺ Energy Star compliant to reduce power consumption.



## *Package Overview*

Please make sure the following items are in the shipping packing and found in good condition:

- \* 17" Monitor
- \* Tilt and swivel stand
- \* Power cord
- \* This manual

Please save this packing material in case the monitor needs warranty service in the future.

# CAUTIONS

## **NEVER REMOVE THE REAR COVER !**

The rear cover MUST be removed only by authorized service personnel. This colour monitor contains high voltage components.

## **THE RECEPTACLE SHOULD BE CLOSE TO THE MONITOR AND EASILY ACCESSIBLE !**

## **INSTALL THE UNIT IN A SUITABLE ENVIRONMENT !**

DO NOT expose this monitor to rain or moisture to prevent electric shock or fire hazard. This unit is designed to be used in an office or business environment.

DO NOT subject the unit to vibrations, dust, or corrosive gases.

## **KEEP IN A WELL VENTILATED PLACE !**

DO NOT cover this monitor or place anything against any sides (not only the top, right and left side but also the rear and bottom side ) of unit. Ventilation holes are provided at all sides of the rear cover to prevent the temperature from rising.

## **KEEP AWAY FROM HEAT SOURCES !**

AVOID placing the unit in direct sunshine or near a heating appliance.

## **BE CAREFUL OF MAGNETIC FIELDS !**

DO NOT place a magnet, loudspeaker system, floppy disk drive, printer, or anything which will generate magnetism near the unit. A magnetic field may cause blurred colours or distortion of the displayed pattern.

## **BE CAREFUL OF GENERATED MAGNETISM !**

After the power has been turned on or "DEGAUSS" button has been pressed, the CRT is demagnetized for approximately 10 seconds. This generates a strong magnetic field around the front cover which may affect the data stored on magnetic tape or disks near the front cover. Place such magnetic recording equipment and tapes/disks away from this unit.

## **AMBIENT ILLUMINATION**

Avoid direct rays of the sun or room lighting onto the CRT screen in order to prevent eye fatigue.

## **THE ENCLOSED POWER CORD MUST BE USED !**

In Europe, a proper European standard approved power cord is to be used with this monitor. For a rated current up to 6 A, a type not lighter than H05VV-F 3G 0.75 mm<sup>2</sup> or H05VVH2-F 3G 0.75 mm<sup>2</sup> must be used.

In USA/Canada, use a UL LISTED/CSA LABELLED or CERTIFIED power cord set meeting the following specifications

Rating: min. 125V, 7A

Length: max. 3.0m

Type: SVT or SJT

Plug type: NEMA 5-15P figure, Parallel blade, Grounding type

Failure to do so may cause fire or electric shock hazard.

## **USE ONLY THE CORRECT VOLTAGE POWER OUTLET WITH SAFETY GROUND CONNECTION !**

100 - 120 V for USA, Canada, etc.

200 - 240 V for Europe, etc.

(This monitor will automatically adjust to the input voltage 100 - 120 / 200 - 240V.)

**CAUTION for 200 - 240V operation only**

This equipment relies on the protective devices in the building installation for short-circuit and over-current protection. Refer to the following table for the suitable number and location of the protective devices which should be provided in the building installation.

**Informative examples of  
protective devices in single - phase equipment or sub - assemblies**

	Protection against	Minimum number of fuses or circuit - breaker poles	Location
Case A: Equipment to be connected to POWER SYSTEMS with earthed neutral reliably identified, except for Case C below.	Earth faults	1	Phase conductor
	Overcurrent	1	Either of the two conductors
Case B: Equipment to be connected to any supply, including IT POWER SYSTEMS and supplies with reversible plugs, except for Case C below.	Earth faults	2	Both conductors
	Overcurrent	1	Either of the two conductors
Case C: Equipment to be connected to 3-wire power systems with earthed neutral reliably identified.	Earth faults	2	Each phase conductor
	Overcurrent	2	Each phase conductor

Verify that the protective devices in the building installation meets the conditions in the table prior to installing the equipment.

**BE CAREFUL OF POWER CORD CONNECTION !**

Before inserting the plug of the power cord into a receptacle of the correct voltage, check that the connection portion of the power cord is clean (with no dust). Then, insert the plug of power cord to a receptacle firmly, otherwise it may cause electrical shock or fire.

**REMOVE THE POWER CORD FOR COMPLETE SEPARATION !**

For complete separation from the power source, remove the power cord from the monitor or from the wall outlet.

**AVOID FREQUENT POWER ON-OFF SWITCHING !**

DO NOT repeat OFF and ON in a short period. It may cause blurred colours or distortion of the displayed pattern.

**BE CAREFUL OF STATIC ELECTRICITY ON CRT SURFACE !**

To prevent electrical shock by the static electricity on the CRT surface, disconnect the power cord at least 30 SECONDS AFTER turning off the power.

**ABOUT CLEANING**

This monitor has a non-glare and anti-electrostatic treatment on the surface of the screen. Use water or alcoholic solvent with soft cloth like gauze to clean the surface of the screen.

NEVER use abrasive, glass cleaner containing highly concentrated ammonia and strong base chemicals since they damage the surface treatment.

Clean the cabinet and controls with a lightly moistened soft cloth.

DO NOT use aerosol sprays, solvents or abrasive cleaners.

▲ CAUTIONS (Continued)

## FCC Statement Warning

**WARNING :** 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.

**INSTRUCTIONS TO USERS :** This equipment complies with the requirements of FCC (Federal Communication Commission) equipments provided that following conditions are met.

(1) Power cord: Unshielded power cord must be used.

(2) Meet the specified level.

**CAUTION :** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Declaration of Conformity

According to 47CFR, Part 2 and 15 for

**Class B Personal Computers and**

**Peripherals; and / or**

**CPU Boards and Power Supplies used**

**With Class B Personal Computers:**

**We:** HITACHI America, Ltd.

**Located at:** 2000 Sierra Point Parkway, Brisbane, CA 94005-1835 U.S.A.

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards.. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47FCR § 2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §§ 15.101 to 15.109.

**Trade name:** Color Monitor

**Model Number:** CM621F

**Signature of Party Responsible:** \_\_\_\_\_

**Printed name of Party Responsible:** Hideaki Kusaba

**Executed on (Date), at (Place):** April 10, 2001 CA, U.S.A.

## ***For the Customers in CANADA***

**NOTICE** : This Class B digital apparatus complies with Canadian ICES-003.

### ***TCO'99 Statement***



#### **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 for 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 a lot of energy.

#### **What does the environmental 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](mailto: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 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



**⚠ CAUTIONS (Continued)**

## For the Customers in the UK

THIS PRODUCT IS SUPPLIED WITH A TWO PIN MAINS PLUG FOR USE IN MAINLAND EUROPE. FOR THE UK PLEASE REFER TO THE NOTES ON THIS PAGE.

### **IMPORTANT FOR UNITED KINGDOM**

#### **WORDING FOR CLASS EQUIPMENT INSTRUCTION BOOKS AND LABELS**

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power outlets in your home or the cable is too short to reach a power outlet, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

#### **WARNING: THIS EQUIPMENT MUST BE EARTHED**

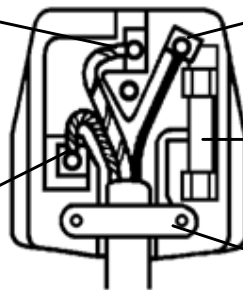
#### **IMPORTANT**

The wires in the mains lead are coloured in accordance with the following code:

Green and Yellow = Earth, Blue = Neutral, Brown = Live.

Green & Yellow to Earth

Brown to Live



Fuse

Blue to Neutral

Cord Clamp

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol  $\oplus$  or coloured GREEN or GREEN and YELLOW.

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

#### **NOTE:**

The information in this manual is subject to change without notice. The manufacturer assumes no responsibility for any errors that may appear in this manual.

## TRADEMARK ACKNOWLEDGEMENT

VGA is a registered trademark of International Business Machines Corporation.

VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.

ENERGY STAR<sup>®</sup> is a U.S. registered mark of Environmental Protection Agency (EPA).

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## REMARQUE:

Les informations contenues dans ce manuel peuvent être modifiées sans préavis. Le constructeur n'accepte aucune responsabilité pour les erreurs qui peuvent éventuellement apparaître dans ce manuel.

## MARQUES DÉPOSÉES

VGA est une marque déposée d' International Business Machines Corporation.

VESA est la marque d'une organisation sans but lucratif, la Video Electronics Standard Association.

ENERGY STAR<sup>®</sup> est une marque de l' EPA (Environmental Protection Agency, USA).

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## HINWEIS:

Änderungen der Daten in dieser Bedienungsanleitung sind vorbehalten. Der Hersteller übernimmt keine Haftung für jegliche in diesem Handbuch eventuell enthaltenen Irrtümer.

## GESCHÜTZTE WARENZEICHEN

VGA ist ein eingetragenes Warenzeichen der International Business Machines Corporation.

VESA ist ein Warenzeichen der Video Electronics Standard Association, einer Organisation ohne Erwerbscharakter.

ENERGY STAR<sup>®</sup> ist ein Warenzeichen der Environmental Protection Agency (EPA).

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## NOTA:

La información contenida en este manual está sujeta a cambios sin previo aviso. El fabricante no se responsabiliza de los errores que puedan aparecer en este manual.

## RECONOCIMIENTO DE MARCAS

VGA es una marca registrada de International Business Machines Corporation.

VESA es una marca registrada de una organización sin ánimo de lucro, Video Electronics Standard Association.

ENERGY STAR<sup>®</sup> es una marca de Environmental Protection Agency (EPA).

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## NOTA:

Tutte le informazioni di questo manuale sono soggette ad essere modificate senza preavviso. Il costruttore non si assume responsabilita' per errori che possono essere riportati sul manuale.

## Marchi di fabbrica riconosciuti.

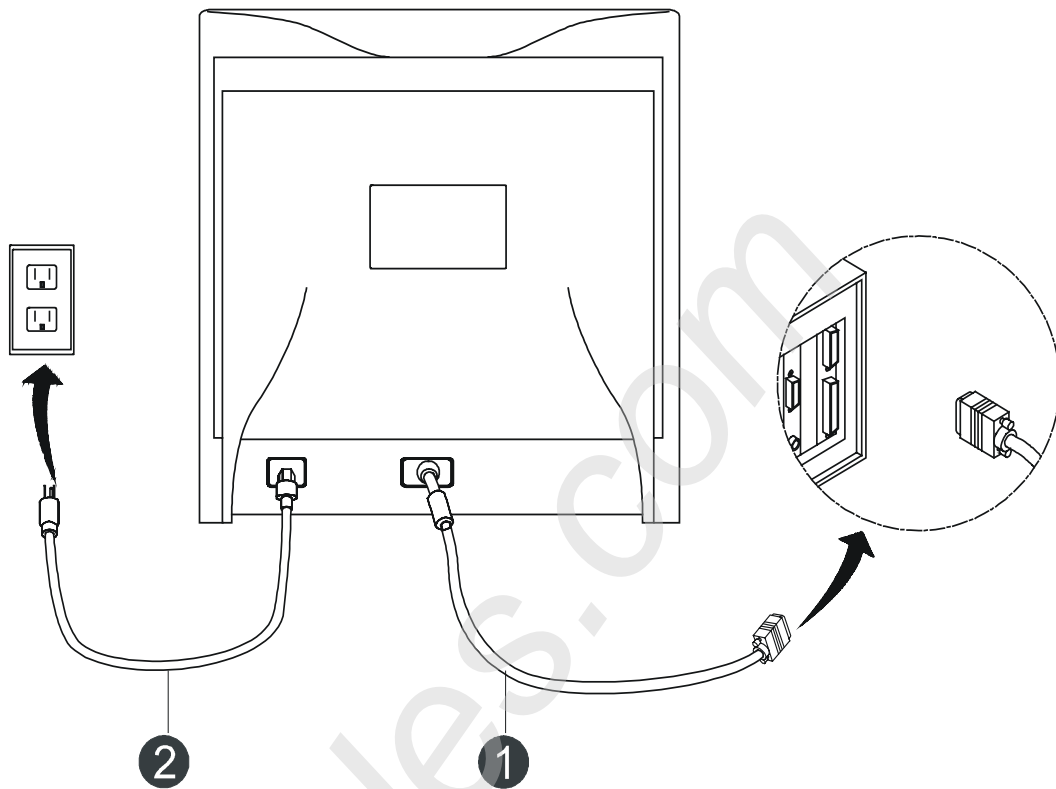
VGA e' um marchio di fabbrica registrato da International Business Machine Corporation.

VESA e' il marchio di riconoscimento della organizzazione a non-profitto, Video Electronics Standard Association.

ENERGY STAR<sup>®</sup> e' il marchio di fabbrica della Eviromental Protection Agency (EPA).

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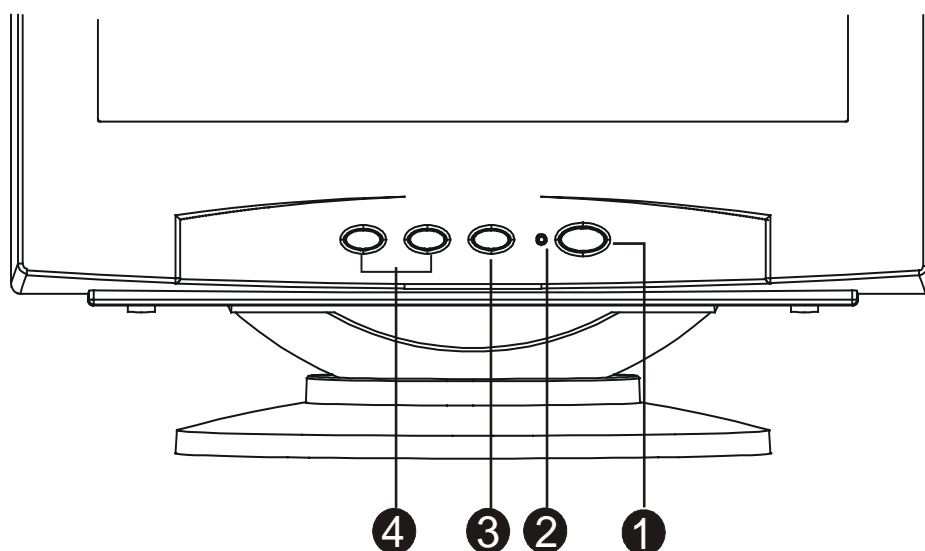
# INSTALLATION



1. Connect the monitor signal cable ① to the 15-pin mini D-sub (VGA) on the computer.
2. Connect the power cord ② to the power connector on the back panel of the monitor, then plug the other end into an appropriately grounded electrical outlet that is easily accessible and close to the monitor.
3. First turn on the computer, then the monitor.
4. Adjust the tilt and swivel base for your viewing comfort.

***And now, your monitor installation is complete.***

# USER CONTROLS



## 1 Power Switch



Turn monitor on and off.

## 2 Power LED Indicator



LED Color

State

Green  
Yellow

On  
Sleep

## 3 Select button



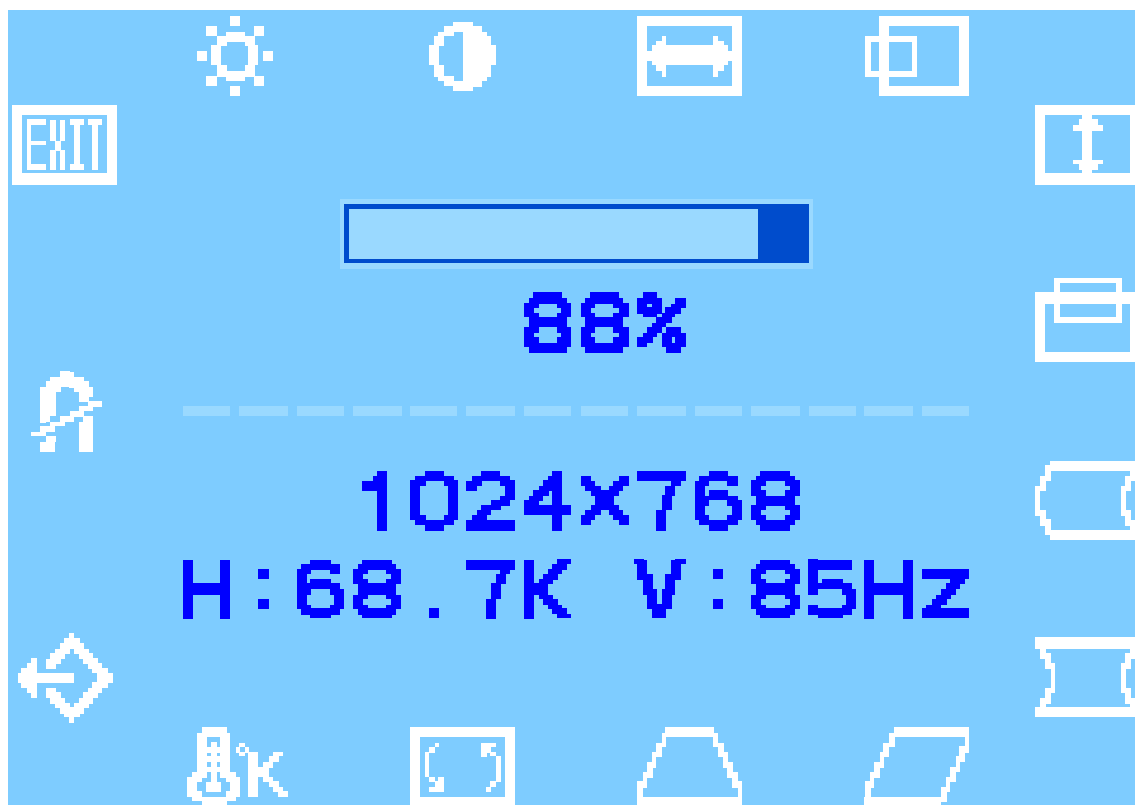
For selecting OSD functions.










## 4 Adjustments


















For adjusting the display parameters in the selected function.

# OSD FUNCTION DESCRIPTION



1. Press the *select* button  to display the OSD menu.
2. To select function, press the  and  buttons until the function you want is highlighted.
3. Press the *select* button  to choose the function.
4. Use the  and  buttons to increase or decrease the adjustment of this function.
5. Press the *select* button  to save the new adjustment.
6. Select the  (Exit) icon if you want to exit the OSD function then press the button  once.

# OSD ICON SUMMARY

Icon	Function	Function Description
	Brightness	Adjusts display brightness
	Contrast	Adjusts display contrast
	H. Size	Increases and decreases screen width
	H. Position	Shifts display image right or left
	V. Size	Increases and decrease screen height
	V. Position	Shifts display image up or down
	Pin. Balance	Adjusts the curve of the entire image left or right
	Pincushion	Adjusts the curve of the left and right sides inward and outward
	Parallelogram	Adjusts the tilt of the display sides to the left or right
	Trapezoid	Adjusts the top and bottom display widths
	Rotation	Adjusts the tilt of the display
	Color Temp	Adjusts picture to make vibrant colors
	Reset	Reset default values
	Degauss	Demagnetizes screen to reduce color impurities
	Exit	Exits OSD menu

## ADVANCED ADJUSTMENTS

This monitor features 2 advanced adjustments that are not included in Hitachi's EasyMenu. To adjust colors or moire please use the following steps:

### Moire Adjust

- 1) Push and hold down the function button (next to the power button), then push the power button to turn the monitor on (hold down the function button until the image appears).
- 2) Release the function key. You will see the normal screen image.
- 3) Depress the function key again and the Advanced Menu will appear.
- 4) Select the "SP" icon. This will bring up a sub-menu. Select the icon with horizontal or vertical wavy lines (depending upon whether you wish to adjust horizontal or vertical moire) and adjust the image to suite your needs.
- 5) When you are done, select the exit icon.
- 6) Push the power button to turn the monitor off and on, then go back to EasyMenu.

### Color Adjust

- 1) Push and hold down the function button (next to the power button), then push the power button to turn the monitor on (hold down the function button until the image appears).
- 2) Release the function key. You will see the normal screen image.
- 3) Depress the function key again and the Advanced Menu will appear.
- 4) Select the color temperature icon (it looks like a thermometer). This will give you a sub menu with color temperature, "Gain R, G & B" & "Bias R, G & B". Select the individual colors from Gain RGB or Bias RGB and adjust them to suit your needs. The Gain controls will adjust the colors in context with contrast and Bias will adjust the colors in context with brightness.
- 5) When you are done select the exit icon.
- 6) Push the power button to turn the monitor off and on, then go back to EasyMenu.

**WARNING:** While you will see a full menu of adjustments, Hitachi does not suggest using the other advanced adjustments without Hitachi service staff supervision. Using the other adjustments may cause irregularities in the image that can be time consuming to correct. Because these are advanced controls, these changes will override the return to factory preset function and these new adjustments will serve as presets.

# SPECIFICATION

<b>Screen</b>	
Size	17" CRT
Horizontal dot pitch	0.22 mm
Horizontal mask pitch	0.21 mm
Surface	Non-glare
Viewable Image Area (mm)	16.0" (407 mm)
<b>Input Signal</b>	
Video signals.	RGB Analog 0.7Vp-p / 75 Ohm a. Separate H/V, TTL (+/-) b. Composite H+V, TTL (+/-)
<b>Scanning Frequency</b>	
Horizontal (KHz)	30 - 70
Vertical (Hz)	50 - 160
Max. Resolution	1280 x 1024
<b>Signal Cable</b>	
	15-pin mini D-sub
<b>Power</b>	
Consumption	<75W
Supply	100 - 240VAC $\pm$ 10%, 50 - 60Hz
Power Management	Complies with EPA Energy Star, VESA DPMS
<b>Display Modes</b>	
Preset	6
User	18
<b>Operating</b>	
Operating Temperature	0 - 40 °C
Relative Humidity	10 - 90 %
<b>Dimensions (L x Wx H)</b>	
Including Stand	434 x 404 x 434 (mm)
<b>Weight</b>	
Unpacked	17.8 kgs (39.16 Lbs)
Packed in box	20.4 kgs (44.88 Lbs)



# **TROUBLESHOOTING**

Please make reference to following solutions for most of the failure symptoms occurred. If the symptom remains after trying the suggested solutions, please contact your local authorized service center.

***Problem: Power LED is not lit when monitor is powered on.***

- ✎ Check to make sure that the power cord is properly connected.
- ✎ Make sure that extension cord or the surge protector is turned on if the monitor is plugged into such equipment.

***Problem: No display appears on screen.***

- ✎ Make sure that the computer is turned on.
- ✎ Make sure that the signal cable is properly connected to the video adapter port on the PC.

***Problem: Display image is either flickering or unstable.***

- ✎ Make sure that the signal cable is properly connected to the video adapter port on the PC.

***Problem: Image is bouncing or in a wave pattern.***

- ✎ Move any electrical devices interference. (Please refer to the FCC statement at the beginning of the manual for more details of display interference).

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