

# **COLOR MONITOR OWNER'S MANUAL**

Please carefully read this manual  
before attempting to operate your monitor.

**Model : C B575BC**

# FCC Warning

## Class B Computing Device

### Information to the User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of 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 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

### FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: In order for an installation of this product to maintain compliance with the limits for a Class B device, shielded cables must be used.

# Color Monitor Owner's Manual

Please read this manual carefully before operating your set.

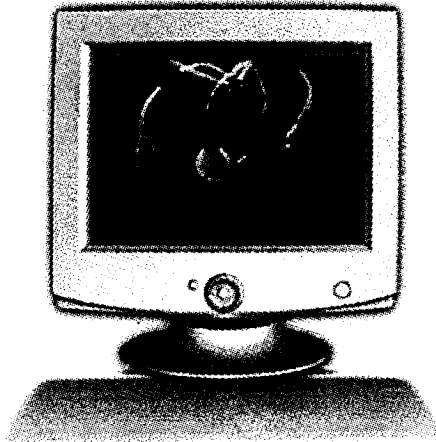
Retain it for future reference.

Record model number and serial number of the set.

See the label attached on the back cover and quote this information to your dealer when you require service.

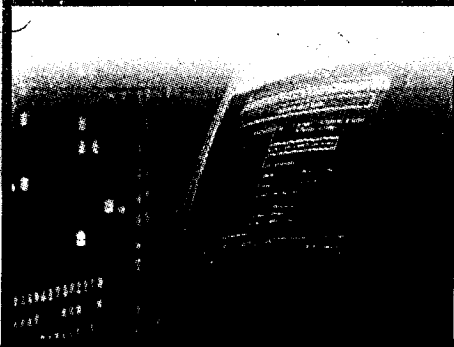
## Basic Specifications

Model : StudioWorks 575N/575C, 775N/775C



Studio Works 775N/C	Studio Works 575N/C
<ul style="list-style-type: none"> <li>● 17 inches (15.9 inches viewable)</li> <li>● 90 degree defection</li> <li>● AR-ASC(Anti-Reflective Anti-Static Coating)</li> <li>● Horizontal Frequency : 30-70kHz</li> <li>● Vertical Frequency : 50-160kHz</li> </ul>	<ul style="list-style-type: none"> <li>● 15 inches (13.8 inches viewable)</li> <li>● 90 degree defection</li> <li>● AR-ASC(Anti-Reflective Anti-Static Coating)</li> <li>● Horizontal Frequency : 30-70kHz</li> <li>● Vertical Frequency : 50-160kHz</li> </ul>

## 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.

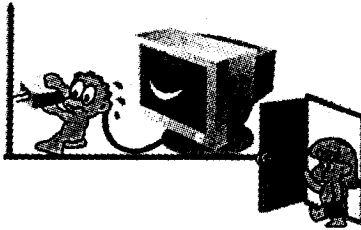
- The Monitor provides crisp text and vivid color graphics with VGA, SVGA, XGA, and VESA Ergo modes (non-interlaced), and most Macintosh compatible color video cards when used with the appropriate adapter. The monitor's wide compatibility makes it possible to upgrade video cards or software without purchasing a new monitor.
- Digitally controlled auto-scanning is done with the microprocessor for horizontal scan frequencies between 30-70Hz. 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).
- This monitor is capable of producing a maximum horizontal resolution of 1280 dots and a maximum vertical resolution of 1024 lines. It is well suited for CAD work and sophisticated windowing environments.
- 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.

## 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.

### On Safety

- Do not Open the Monitor
- To Avoid Personal Injury
- To Prevent Fire or Hazards

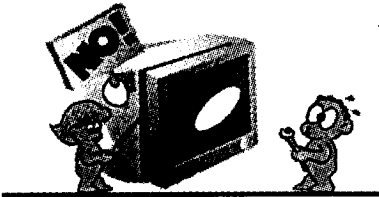


Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable standards if not being provided by the supplier.

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.

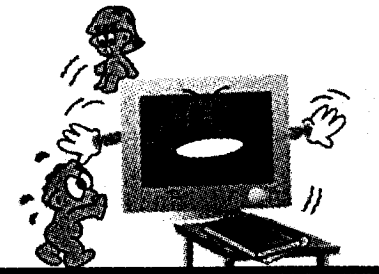
### Do not Open the Monitor



- 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.



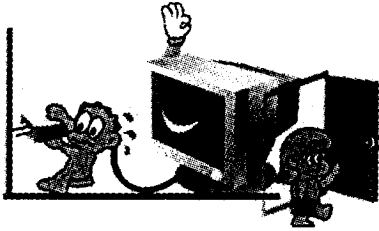
### To Avoid Personal Injury



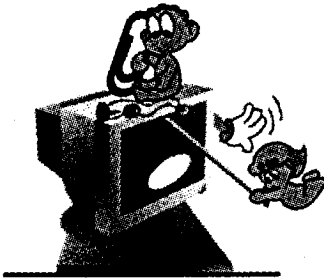
- Do not place the monitor on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.



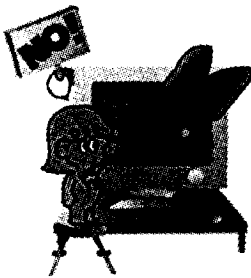
## To Prevent Fire or Hazards



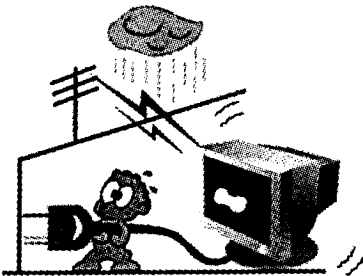
- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.



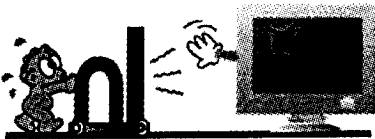
- Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.



- 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.

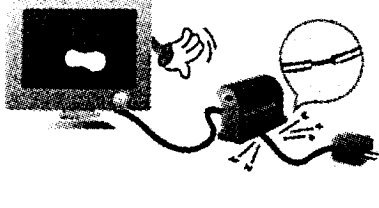


- Do not bring magnetic devices such as magnets or motors near the picture tube.

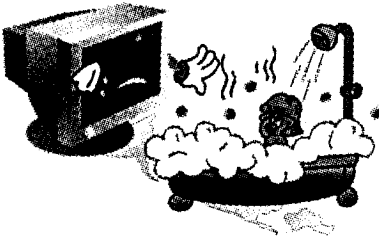
## Important Precautions

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### On Installation

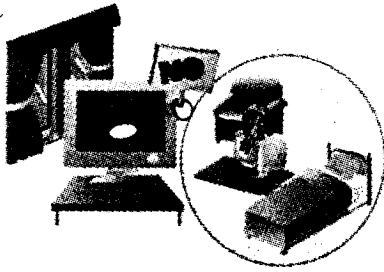


- Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

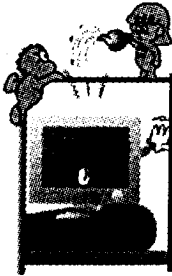


- Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

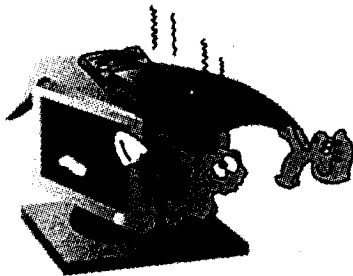
**NEVER:**



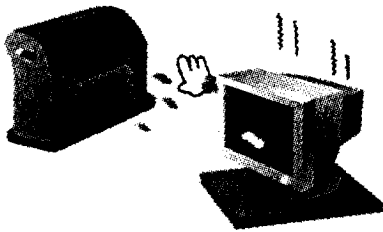
- Block the bottom ventilation slots by placing the monitor on a bed, sofa, rug, etc.



- 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.

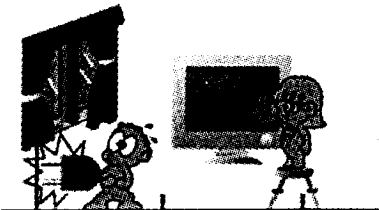


## Important Precautions

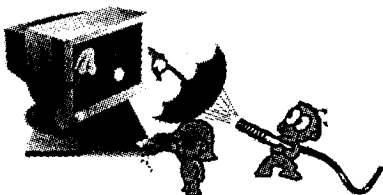


This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electrical shock or fire hazard. In order not to defeat the safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing.

## On Cleaning



- Unplug the monitor before cleaning the face of the picture tube.



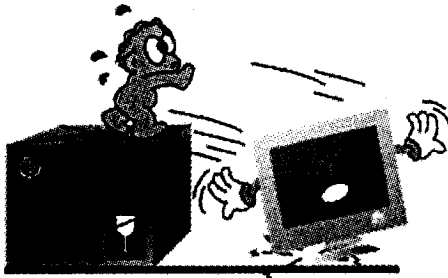
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the picture tube because overspray may cause electrical shock.

## Important Precautions



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### On Repacking



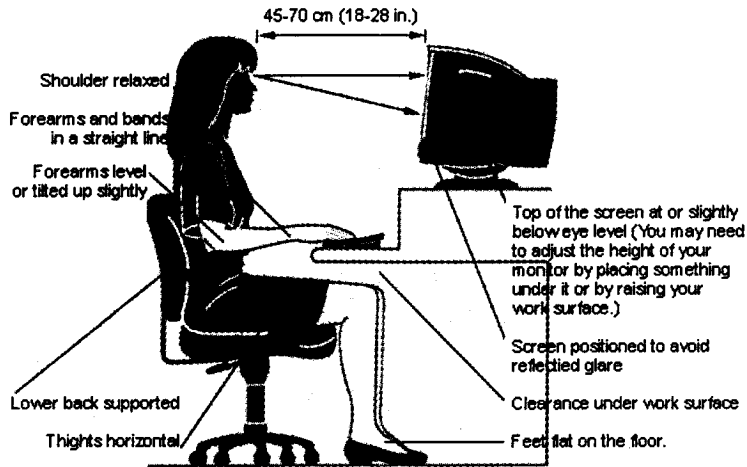
- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

## Important Precautions

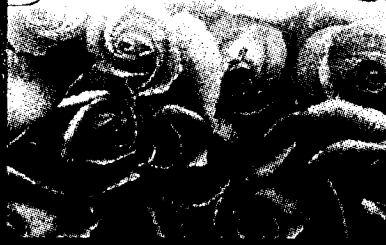
This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electrical shock or fire hazard. In order not to defeat the safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing.

## Positioning Monitor

Here are some key factors to consider when determining where to place your monitor.



## Connecting the Monitor

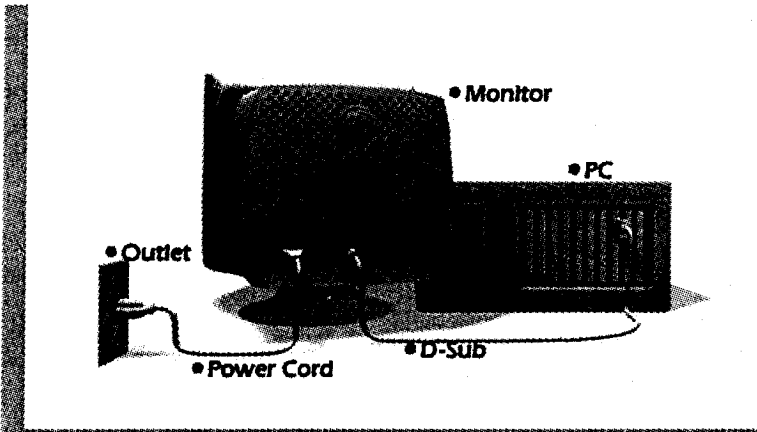


On the back of the monitor are two plug-in connections:  
one for the AC power cord, and the others for the signal cable from the video card.

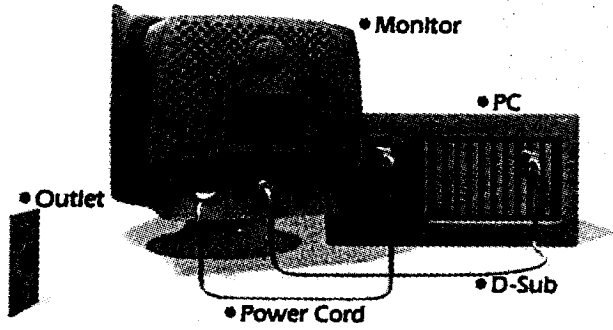
### Connection to any IBM VGAPC compatible system








- Wall-Out Type
- PC-Out Type

#### ■ Wall-out Type



# PC-Out Type



- |  |  |   |
|--|--|---|
| <br>Europe          | <br>Australia   | <br>UK           |
| <br>American/Canada | <br>Korea   | <br>South Africa |
| <br>Japan          | <p>ETC Country<br/>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 standards if not being provided by the supplier.</p> |   |

## Connecting the Monitor



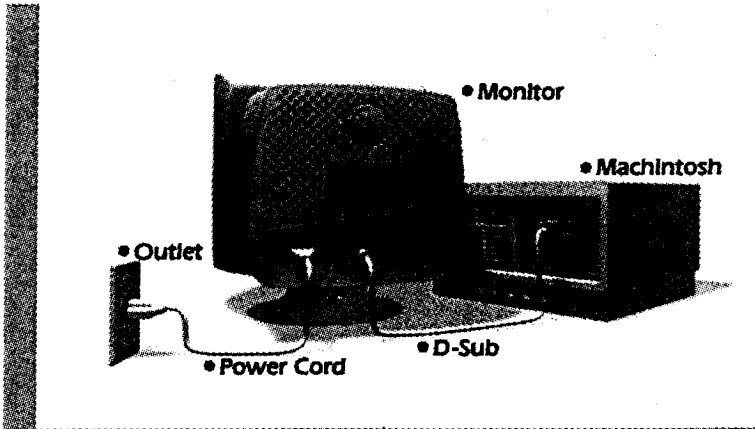
On the back of the monitor are two plug-in connections:  
one for the AC power cord, and the others for the signal cable from the video card.

## Connecting to an Apple Macintosh PC

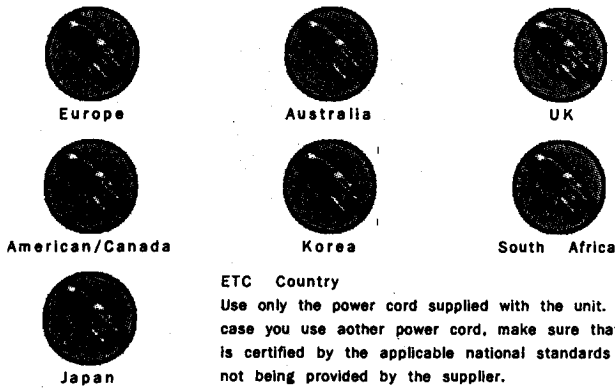
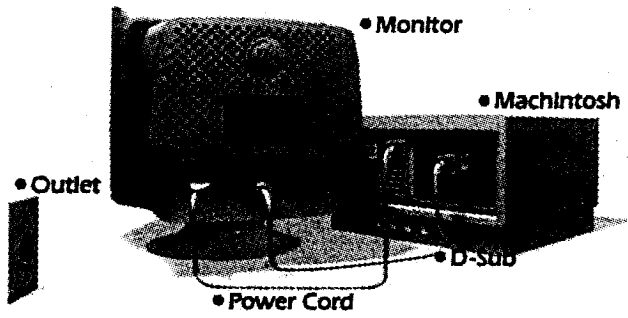
- Wall-Out Type
- PC-Out Type

### ■ Wall-out Type

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



# PC-Out Type



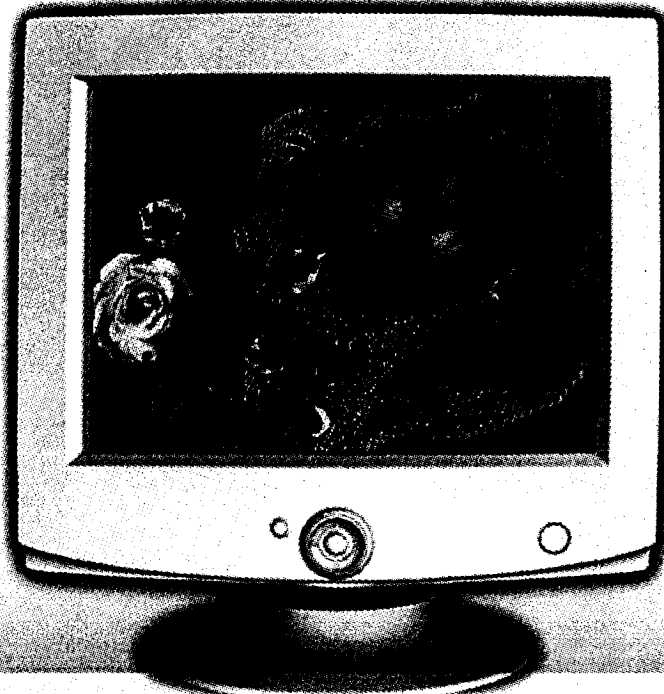
**ETC Country**  
 Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards if not being provided by the supplier.



# Location and Function of Controls

Turn on the monitor using the ON/OFF switch on the rear of the monitor. This switch cuts off the power supply to the monitor.

## Front View



OSD

Power ON/OFF Button

OSD SET Button

◀▶ / ▲▼ Buttons

OSD ENTER/EXIT Button

■ [Click Here Animation View](#)



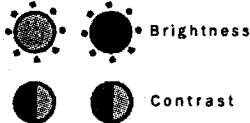
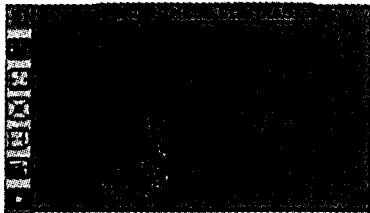
# On Screen Display(OSD) Selection and Adjustment



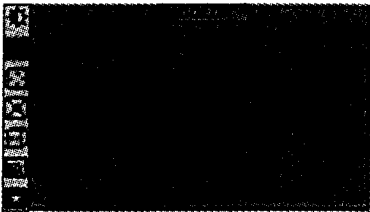
You were introduced to the procedure of selection and adjusting an item using the OSD system.

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

## ● Brightness Contrast

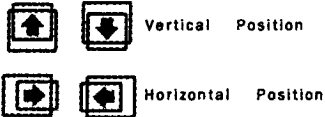
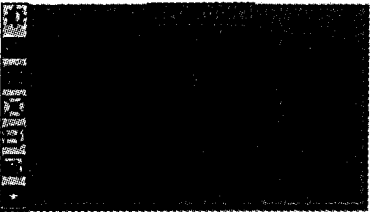


## ● Color

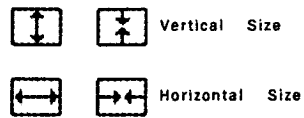
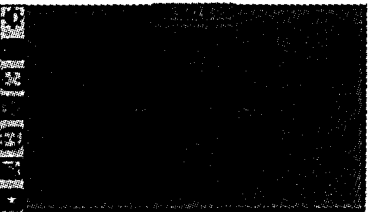


- 6500K 9300K 6500K/9300K
- TEMP Temp
- RED Red
- GREEN Green
- BLUE Blue

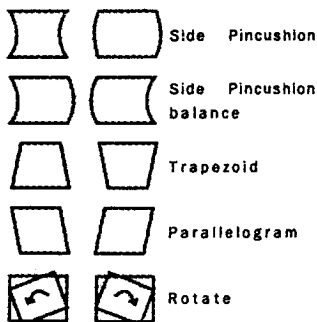
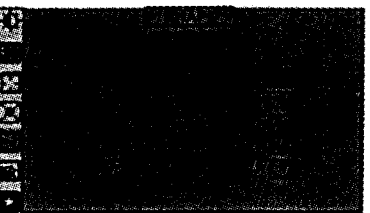
## ● Position



## ● Size



## ● Shape



● Setup



**VIDEO LEVEL**

To Select input signal Level (0.7V or 1.0V)

**DDC OPTION**

To select DDC function (ON/OFF)

**LANGUAGE**

To choose the language in which the control names are displayed.

**OSD POSITION** OSD Position

● Special



**DEGAUSS** Degauss

**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 effect.

**MOIRE**

This item allow you to reduce the moire (Moire is caused by interface Horizontal Scan Line with the periodical dot screen). It is normally, OFF(H:0/V:0). The moire adjustments may affect the focus of the screen.

## Video Memory Modes

- Resolution
- User Modes
- Recalling Display Modes

### Resolution

The monitor has 37 memory locations for display modes, 11 of which are factory preset to popular video modes.

Model	StudioWorks 575N/C	StudioWorks 775N/C
Display modes (Resolution)	VESA 640x480 @75Hz VGA 720x400 @70Hz VESA 800x600 @75Hz VESA 800x600 @85Hz VESA 1024x768 @85Hz VESA 1280x1024 @60Hz	VGA 640x400 @70Hz VESA 640x480 @60Hz VESA 640x480 @75Hz VESA 640x480 @85Hz MAC 832x624 @75Hz VESA 800x600 @60Hz VESA 800x600 @75Hz VESA 800x600 @85Hz VESA 1024x768 @75Hz VESA 1024x768 @85Hz VESA 1280x1024 @60Hz

 Top

### User Modes

Modes 1-25 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 1.

If you use up the 25 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 1.

 Top

### 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 each of the 11 preset modes by pressing the Recall button. All preset modes are automatically recalled as the monitor senses the incoming signal.

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.

 Top

## Features

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.

## Energy Saving Design

This monitor also goes into its energy saving mode if you exceed the monitor's operating limits, such as the maximum resolution of 1280x1024 or the frequency refresh rates of 30-70kHz 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

Mode	Hori. Sync	Verti. Sync	Video	Power Consumption	LED Color
Normal(Max.)	On	On	Normal	≤105W(105W)	Green
Stand-by	Off	On	Off	≤15W(15W)	Amber
Suspend	On	Off	Off	≤15W(15W)	Amber
Off	Off	Off	Off	≤5W(5W)	Amber

\* ( ) : StudioWorks 575N/C

## Features

### MPRII, Self Diagnostics and DDC

- Low Radiation Compliance(MPRII)
- Self Diagnostics
- DDC (Display Data Channel)

#### ■ Low Radiation Compliance(MPRII)

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 INPUT SIGNAL 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, 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 monochrome image or the wrong resolution, select the DDC OFF function.



## Features

Congratulations! You have just purchased a TCO'95 approved and labelled product(StudioWorks 575C/775C)! 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 to the further development of environmentally-adapted electronic products.

### TCO'95-Environmental Labelling of Personal Computers

- Why do we have environmentally-labelled computers?
- What does labelling involve?
- TCO'95 Environmental Requirements
- Shipping Packaging
- CFC Compounds in Distribution Packaging
- Design for Disassembly/Recycling

#### ■ 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 electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, 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 both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic- and climatic-influencing emissions, radioactive waste, etc.), it is vital to conserve energy. Electronic equipment in offices consumes an enormous amount of energy, since it is often routinely left running continuously.



Top

## ■ What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation), and NUTFK (The National Board for Industrial and Technical Development in Sweden), and SEMKO AB (an international certification agency).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern, among other things, restriction on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling, and the manufacturer is obliged to have an environmental plan, 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.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

The following is a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development Unit  
Linnegatan 14, S-11494 Stockholm, Sweden  
FAX +46-8 782 92 07  
E-mail (Internet): [development@tco.se](mailto:development@tco.se)

Current information regarding TCO'95 approved and labelled products may also be obtained on the Internet using the address: <http://www.tco-info.com/>

TCO'95 is a co-operative project between:

Naturskydds  
SEMKO  
foreningen  
Narings- och teknikutvecklingsverket



Top

## TCO'95 Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cabling, casings, and housings, and are added to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame-retardant substances. These are related to another group of environmental toxins, PCBs, and are suspected of giving rise to similar harm, including reproductive damage in fish-eating birds and mammals. Flame retardants have been found in human blood, and researchers fear that they can disturb fetus development.

Bio-accumulative TCO'95 demands require that plastic components weighing more than 25 grams must not contain flame retardants with organically bound chlorine or bromine.

Lead can be found in picture tubes, display screens, solder, and capacitors. Lead damages the nervous system and in higher doses causes lead poisoning. The relevant bio-accumulative TCO'95 requirement permits the inclusion of lead, as no replacement has yet been developed.

Cadmium is present in rechargeable batteries and in the color-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant bio-accumulative TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The color-generating layers of display screens must not contain any cadmium.

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses. The relevant bio-accumulative TCO'95 requirement states that batteries may not contain more than 25 ppm of mercury and that no mercury is present in any of the electrical or electronic components concerned with the display unit.

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacture of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the atmosphere, causing increased reception on Earth of ultra-violet light with consequent increased risks of skin cancer (malignant melanoma).



## Shipping Packaging

The packaging material can be recycled, or you can save it to return the monitor to a service center for repair or disposal.



## CFC Compounds in Distribution Packaging

Cushioning material used for shipping finished monitors are not manufactured with nor do they contain any CFC compounds.



## Design for Disassembly/Recycling

These monitors have been designed for easy end-of-life disassembly and recycling. Fasteners are generally of the same type for efficient disassembly. Components made of different materials can be easily separated and plastics have been identified using international symbols to aid in recycling.





## Troubleshooting



If you have a problem with your monitor and nothing presented in this manual solves it, consult the service and support information that come with your monitor for instructions on how to contact an LG-authorized service provider or LG for assistance.

- Self diagnostics message.
- The power LED is illuminated amber.
- The image on the SCREEN is not centered, or too small, or not a rectangle shape.
- The monitor doesn't enter the power saving off mode(Amber).

### ■ Self diagnostics message.

- The signal cable is not connected.



### ■ The power LED is illuminated amber.

- Display power management mode.
- There 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 button on the front panel control and call your service technical for more information.



## Service



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

<http://www.ige.co.kr>

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.

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When replacement parts are required, have the service technician verify in writing that the replacements used have the same safety characteristics as the original parts. Use of manufacturer specified replacements can prevent fire, shock, and other hazards.

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Upon completion of any service or repairs to the monitor, ask the service technician to perform the safety check described in the manufacturer's service manual.

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When a video monitor reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the monitor.

# Specifications



Model	StudioWorks 575N/C	StudioWorks 775N/C
Picture Tube	15 inch (13.8 inches viewable) FST, Non-glare, 90 degree deflection, 0.28 dot pitch	17 inch (15.9 inches viewable) FST, Non-glare, 90 degree deflection, 0.28 dot pitch
Power Input	100-240 VAC 50/60 1.5A	100-240 VAC 50/60 2.0A
Dimensions(W X H X D) (with tilt/swivel stand)	360X389,5X391,5mm / 14,2X15,3X15,4 inches	410X432X440mm / 16,1X17X17,3 inches
Weight(net)	13,0kg / 28,66lbs	15,9kg / 35,05lbs
Sync Input Horizontal Frequency Vertical Frequency Input Form Signal Input	30kHz - 70kHz (automatic) 50Hz - 160Hz (automatic) Separate, Positive/Negative 15 pin D-Sub connector	
Video Input Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, positive	
Resolution	1280x1024 @60Hz	
Operating Condition Temperature Humidity	10C to 35C 10% to 90% non-condensing	
Storage Condition Temperature Humidity	0C to 60C 5% to 90% non-condensing	

## Signal connector pin assignment



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

NOTE : No.5 Pin have ground on the PC side