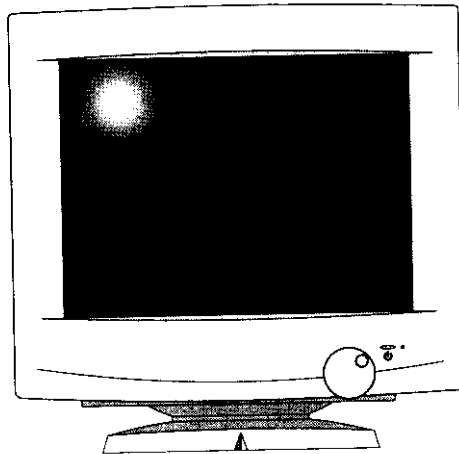


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**XJ796**

**User's Guide**



**17" (16.0" viewable)  
Ultra High Resolution  
Plug & Play Ready  
Color Monitor  
with JAG™ OSD Control**

## Notices

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**XJ796 User's Guide**

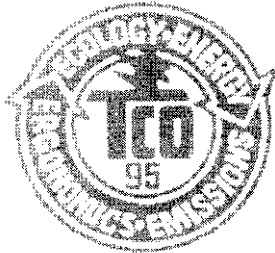
**Model no.: U7003-02**

07/99

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## TCO95 Environmental Labelling (TCO95 only)



**Congratulations!** You have just purchased a TCO95 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.

### **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 the manufacturing. Since it has not been possible for the majority of electronics 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 the viewpoints of both the work (internal) and natural (external) environments. Since all methods of conventional electricity generation have a negative effect on the environment (acidic and climate-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 left running continuously.

### **What does labelling involve?**

This product meets the requirements for the TCO 95 scheme which provides for international and 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 NUTEK (The National Board for Industrial and Technical Development in Sweden).

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 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 plan which must be adhered to each country where the company implement 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, physical and visual ergonomics and good usability. In the following paragraphs, you will find a brief summary of the environmental requirement met by this product. The complete environmental criteria document may be ordered from:

TCO Development Unit  
S-114 94 Stockholm  
Sweden  
Fax: +46 8 782 92 07  
Email (Internet): [development@tco.se](mailto:development@tco.se)

Current information regarding TCO 95 approved and labelled products may also be obtained via the Internet, using the address:

<http://www.tco-info.com/>

TCO 95 is a co-operative project between TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden)

### Environmental Requirements

#### Brominated flame retardants

Brominated flame retardants are present in printed circuit boards, cables, wires, casing and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substance. There are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative\* process. Flame retardants have been found in human blood and researchers fear that disturbances in foetus developments may occur.

TCO 95 requirement states that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

#### 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.

TCO 95 requirement permits the inclusion of lead since no replacement has yet been developed.

#### Cadmium\*\*

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer display. Cadmium damages the nervous system and is toxic in high doses.

TCO 95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

#### Mercury\*\*

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

TCO 95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

#### CFCs (freons)

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

TCO 95 requirement states that neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

\* Bio-accumulative is defined as substances which accumulate within living organisms.

\*\* Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

## Specifications

All Specifications are subject to changed without notice or obligation.

|                      |   |
|----------------------|---|
| CRT                  | 17-inch (16.0" viewable) flat square tube with TCO/Anti-reflective coating, anti-glare, anti-static, 90° deflection         |
| Dot pitch            | 0.26mm  |
| Max Resolution       | 1600 x 1200 (Non-interlaced)  |
| Display color        | Unlimited   |
| Scanning frequency   | Horizontal: 30 - 96 KHz<br>Vertical: 50 - 160 Hz  |
| Display area         | Factory presetting: 310 x 230 mm (W x H)  |
| Video bandwidth      | 203 MHz (-3db) nominal  |
| Input signal         | Video: Analog, 0.7V <sub>p-p</sub> , 75ohm<br>Sync: Separate TTL level<br>Composite TTL level                               |
| Power supply         | 100 - 240 Vac, 50/60 Hz   |
| Power consumption    | Normal: < 130W<br>Suspend: < 15W<br>Active Off: < 5W  |
| Recommended ambience | Operating temperature: 32°F~104°F (0°C~40°C)<br>Operating humidity: 10~90 %<br>Storage temperature: -4°F~140°F (-20°C~60°C) |
| Dimensions           | 425 x 425 x 460 mm (W x H x D)  |
| Weight               | Net: 16.0Kg<br>Gross: 19.0Kg  |
| Certifications       | UL, CUL, TUV/GS, SEMKO, NEMKO, DEMKO, FINKO, CE, DHHS, FCC B, MPR-II, TCO92/TCO95(optional)                                 |
| Power Management     | EPA Energy Star®, VESA DPMS™  |

## Safety Precautions

Please read all of the following instructions before use.

- Follow all warnings and instructions marked on this product.
- When cleaning this monitor, first unplug it from the wall outlet. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use this product where water spills may occur.
- Prevention from falling, do not place this product on an unstable surface.
- To protect this monitor from overheating, slots and openings on the back and bottom of this unit (use for ventilation) should never be blocked.
- Never be placed near a radiator or heating element.
- Only operate this monitor from the power source indicated on the marking label. If you are not sure of the type of power source available in your area, consult your dealer or your local power company.
- This product is equipped with a 3-wire grounding type plug. For safety this device is meant to be used with a grounding-type power outlet. If you do not have one, contact your electrician to replace your obsolete outlet. **Do not use a 3-to-2 prong adapter.**
- Do not allow anything to rest on the power cord or leave any cords hanging where people frequently walk.
- If an extension cord is used with this product, make sure that the total amperage ratings do not exceed the extension cord's amperage or 10 amperes.
- Never puncture any objects through the walls of the monitor. High voltage points could result in electric shock, fire hazard or cause a short circuit.
- Never attempt to service this product yourself. Opening this unit may expose you to dangerously high voltages. Refer all servicing to a qualified service personnel.
- Save this instruction manual for later use.

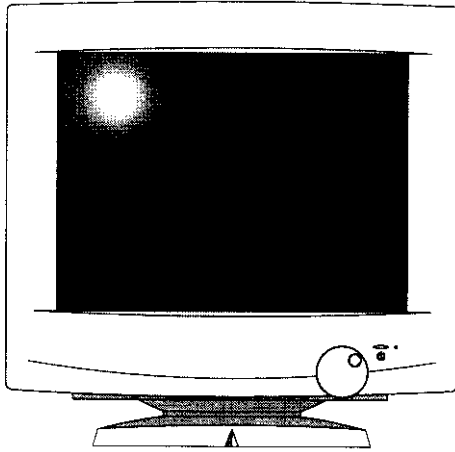
**Note:** Unplug this product and contact qualified service personnel if:

- The power cord or plug is damaged or frayed
- The product has been exposed to rain or water
- The product does not operate normally when used properly
- Improper adjustments has been made
- The product has been dropped or damaged
- The product does not achieve maximum performance

## Introduction

The **XJ796** is a 17-inch (16.0" viewable) multi-scanning, ultra high resolution color monitor with an advanced High Contrast flat square tube. With state-of-the-art electronics, this monitor is capable of resolutions up to 1600 x 1200 non-interlaced.

The intelligent microprocessor-based design enables the monitor to automatically synchronize and adjust to most common video modes.



---

### Check list:

Before operating this monitor, please make sure that all of the following items are included:

- XJ796 Monitor
  - Swivel base
  - Power cord
  - This user's guide
- 

### JAG™ Control

The JAG™ is designed to provide full user programming capabilities in one simple-to-use location for a more ergonomically-friendly design. This allows you to choose a control function and make necessary display adjustments with just one dial.

### On Screen Display (OSD)

The combination of the JAG™ control and OSD (On-Screen Display) makes it easier for you to make precise screen format adjustments simply. The User Mode control within the OSD allows you to change and save custom display characteristics and timing modes.



### DDC Plug & Play

With VESA® DDC1/2B, when the monitor is powered up, it will automatically notify a Windows® 95/98 host computer of its scanning frequencies, capabilities and characteristics. Windows® 95/98 will automatically recognize the connection of the monitor and select the appropriate display resolution.

### MPRII and TCO Compliant

The monitor has been designed to meet Swedish MPRII and TCO92/TCO95 guidelines for electromagnetic and static emissions.

### EPA™ Energy Star® and VESA® DPMS

In the business world, the fastest growing use of electrical power is by computer systems. The amount of electricity used by computers in businesses and homes is phenomenal. A large portion of this electricity is wasted. The Environmental Protection Agency (EPA) has conducted research showing that most of the time PCs are powered up, they are not in use. The EPA promotes the use of energy-efficient equipment because generating electricity causes emissions that pollute the air.

This monitor is Energy Star compliant when used with a computer equipped with VESA® Display Power Management System (DPMS).

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**Note:** The XJ796 monitor has three power-saving modes. The power saving operation is indicated by the LED power indicator on the front panel.

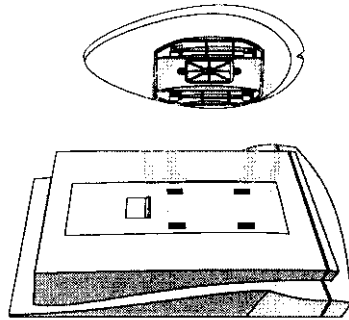
- When the LED is green, your monitor is operating normally.
  - When the LED is orange, your monitor is in a power saving mode.
  - If the LED is orange and blinking, the monitor is in a sleep mode. Press a keyboard key or move the mouse to return to normal usage.
  - If the LED is orange and blinking and you cannot return to normal usage by using the mouse or keyboard, check your video signal connection.
  - When the monitor is not in use, save energy by turning off the monitor.
-

## Setting up Your Monitor

Setting up your monitor is easy. All you have to do is make the following connections and adjustments.

### Installing the Base

Turn the monitor upside down. Align the holders on the swivel base with the holes on the bottom of the monitor. Firmly press down and forward (toward the front of the monitor) until the latches catch.



---

**Note:** As you line up the holes on the bottom of the monitor to the latches on the top of the base, the bottom of the base may move. This is because the base has a tilt/swivel function. Let the bottom of the base swivel down first. This will help you to connect the monitor to the base and slide them together easily.

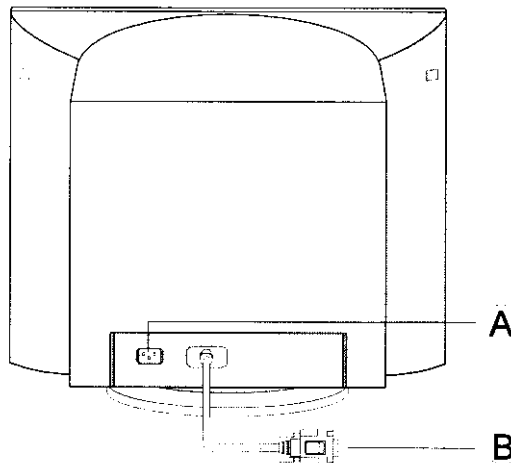
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### Connecting the Monitor

Once you have attached the base to the monitor unit, you are ready to connect the monitor to your system. It is important that you use the power cord that came with your monitor in order to insure that the monitor conforms to mandatory FCC standards.

**To connect the monitor to the system:**

1. Turn off the power to your system and all its attached options.
2. Make sure that your equipment is in cable-reaching distance from a properly grounded electrical outlet. Position the monitor and the computer so that you can access the back panel of both without difficulty.
3. Connect one end of the signal cable into the video input connector on back panel of the monitor. Plug the other end of the cord into the graphic card video adapter on the back of the computer.
4. Tighten the screws on the video signal cable connector to keep them from coming loose and to prevent radio and TV interference.
5. Connect the power cord that came with the monitor to the AC connector at the back of the monitor. Plug the other end of the power cord into a properly grounded power outlet.



- A. AC power connector  
B. Attached video cable

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**Note:** It is important that you use the power cord that came with your monitor in order to insure that the monitor conforms to mandatory FCC standards.

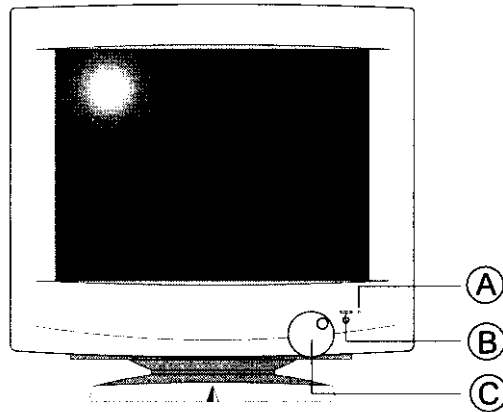
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## Operation

Make sure you carefully follow the “Safety” and “setting Up Your Monitor” instructions to install your monitor to your system before operating your monitor. You may also want to familiarize yourself with the “Image Adjustment” section of this manual before making any operational adjustments to your operating monitor.

### To operate the monitor:

1. Turn on the monitor by pressing the power button once. The power LED lights and the monitor demagnetizes itself for about five seconds.
2. Power up the system.
3. Once the system is completely powered up, the LED power indicator on the monitor should be green. If not, check the connections.
4. Use On-Screen Display to adjust the controls needed to get the best picture. Experiment with the display settings to choose the optimum image size and position for you (refer to the Image Adjustment section of this manual for Instructions).



- A. LED Power indicator
- B. Power button
- C. JAG Dial

---

**Note:** If you need to disconnect the power cord from the wall socket or monitor for any reason, be sure to wait at least 30 seconds after you turn off the monitor before you unplug it. This allows the monitor to discharge any static electricity from the screen surface.

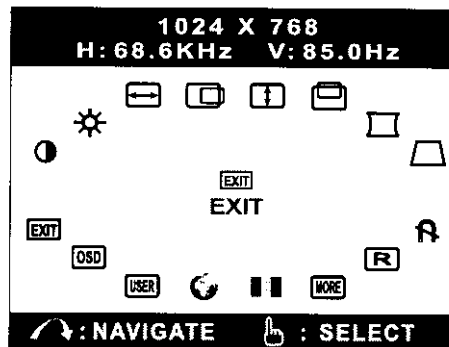
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## Image Adjustment
















The JAG™ is designed to provide full user programming capabilities in one simple-to-use location for a more ergonomically-friendly design. This allows you to choose a control and make necessary display adjustments with just one dial.

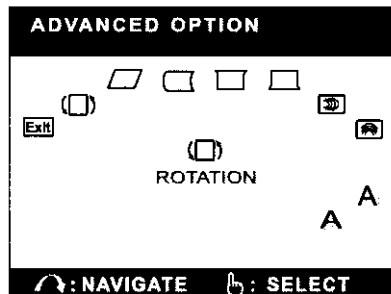
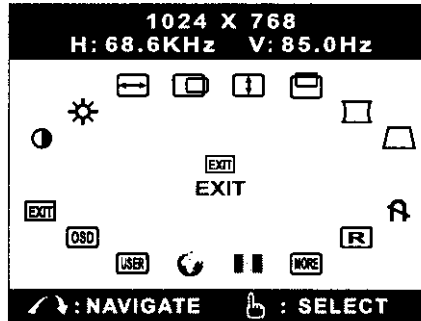
### To adjust other visual settings:







1. Press the JAG. The Main Menu appears, displaying the current resolution and a number of visual setting options. (refer to the “OSD Options” section of this manual).
2. Rotate the JAG to highlight the desired option.
3. Press the JAG again to access the option. A control screen for the option appears.
4. If this option is adjustable, rotate the JAG to adjust it. Some options are not adjustable and are simply activated when the JAG is pressed.
5. Press the JAG when adjustments are complete to exit the control screen and return to the Main Menu.
6. Select Exit and press the JAG to exit the OSD Main Menu.



### OSD Options

- ◆ **Contrast**  - Adjusts the contrast level (black level) in the display.
- ◆ **Brightness**  - Adjusts the brightness level (white level) in the display.
- ◆ **Horizontal Size**  - Increases and decreases the display width.
- ◆ **Horizontal Position**  - Shifts the display to the right or left.
- ◆ **Vertical Size**  - Increases and decreases the display height.
- ◆ **Vertical Position**  - Shifts the display up or down.
- ◆ **Pincushion**  - Bends the sides of the screen display inward or outward.
- ◆ **Trapezoid**  - Adjusts the top and bottom display widths to be even.
- ◆ **Degauss**  - Removes any discoloration from the display image due to electromagnetic field buildup. It is not usually necessary to degauss your monitor, unless it has been moved.
- ◆ **Reset**  - While in a preset video mode, press the JAG dial to reset all customer display setting to the factory default settings.
- ◆ **Advanced options**  - Activates the secondary menu that displays options for rotation, bow, parallelogram, corner, moire and focus.
  - **Rotation**  - Adjusts the tilt of the display.
  - **Parallelogram**  - Adjusts the tilt of the display sides to the left or right.
  - **Bow**  - Bends the sides of the display in the same direction.
  - **Corner**  - Squares off the display corners.



- **V-Moire**  - Reduces the optical effect of wavy lines or ripples on the display image in the horizontal direction. These effects are usually more noticeable on large gray areas or on black and white checkerboard patterns.
  - **H-Moire**  - Reduces the optical effect of wavy lines or ripples on the display image in the vertical direction.
  - **Vertical Focus** **A** - Adjust the vertical focus of the display image.
  - **Horizontal Focus** **A** - Adjust the horizontal focus of the display image.
  - ◆ **Color Manager**  - Activates the secondary menu that display three preset level options. Once color temperature option is selected, rotate and press the JAG to choose and adjust the red, green or blue color levels, You may also use recall to return to the original factor settings.
- 
- ◆ **Language Manager**  - Activates the Language Manager submenu. Allows you to choose the language for the menu screens.
  - ◆ **User Mode**  - Activates the User Mode submenu. This stores the display characteristics of a specific resolution (not already defined as a factory preset timing mode) into the monitor's memory. This saves you from having to readjust the display features each time you reboot (refer to the "Video Modes" section for preset timing options) the computer.
- 
- ◆ **OSD Manager**  - Activates the OSD Manager submenu. This allows you to adjust the OSD menu position on the display.

## Video Modes

This multi frequency monitor operates at horizontal frequencies of 30 to 96 KHz and vertical frequencies of 50 to 160 Hz. The range refers to a maximum flicker-free, usable resolution of 1600x1200 at a non-interlaced refresh rate of 75Hz Vertical.

This monitor offers 16 preprogrammed settings that cover most of the common video modes supported by popular graphics adapters. If the monitor recognizes one of the preset timing signals, it will recall that mode and any stored display adjustments you have made. However, the monitor is multi-scanning, thus, it can accept any signal within its frequency range.

If your video timing mode is not one of the preset timing modes, a screen will appear instructing you to save your timing mode to the User Mode.

| Preset Modes | Resolution |           | Frequency |         |
|--------------|------------|-----------|-----------|---------|
|              | H (Pixels) | V (Lines) | H (KHz)   | V (Hz)* |
| 1            | 720        | 400       | 31.5      | 70      |
| 2            | 640        | 480       | 31.5      | 60      |
| 3            | 640        | 480       | 43.3      | 85      |
| 4            | 800        | 600       | 37.9      | 60      |
| 5            | 800        | 600       | 46.9      | 75      |
| 6            | 800        | 600       | 53.7      | 85      |
| 7**          | 832        | 624       | 49.7      | 75      |
| 8            | 1024       | 768       | 48.4      | 60      |
| 9            | 1024       | 768       | 60.0      | 75      |
| 10           | 1024       | 768       | 68.7      | 85      |
| 11**         | 1152       | 870       | 68.7      | 75      |
| 12           | 1280       | 1024      | 64.0      | 60      |
| 13           | 1280       | 1024      | 80.0      | 75      |
| 14           | 1280       | 1024      | 91.1      | 85      |
| 15           | 1600       | 1200      | 75.0      | 60      |
| 16           | 1600       | 1200      | 93.7      | 75      |

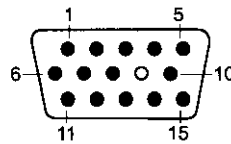
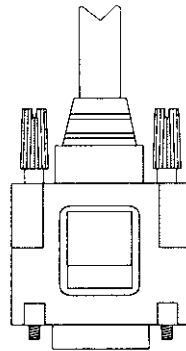
\* Refresh rate. \*\* Macintosh Timing.



## Pin Assignment

The pin assignment of the connectors is listed below for professional use only. Please do not attempt to alter the connections yourself as this may seriously damage the monitor.

| <u>Pin No.</u> | <u>Assignment</u>  |
|----------------|--------------------|
| 1              | Red Video input    |
| 2              | Green video input  |
| 3              | Blue video input   |
| 4              | Ground             |
| 5              | Ground (DDC)       |
| 6              | Red video ground   |
| 7              | Green video ground |
| 8              | Blue video ground  |
| 9              | No connection      |
| 10             | Ground             |
| 11             | Ground             |
| 12             | DDC SDA            |
| 13             | Horizontal sync.   |
| 14             | Vertical sync.     |
| 15             | DDC SCL            |



## Regulatory Compliance Statements



### American User:

This monitor has been tested to comply with the limits for a Class B digital device, Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference within a residential area. This equipment is able to radiate radio frequency energy therefore using in nonaccordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will be present in a particular installation. If there is interference, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between your monitor and your computer.
- Connect the monitor into an outlet different from that to which the computer is connected.
- Consult the dealer, our customer service hotline, or an experienced computer hardware technician for help.

### Warning!

This device has been tested and found to comply with the limits of a Class B digital device. The accessories associated with this equipment are as follows:

- Shield video cable
- Shield power cord

Change or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### Power Supply Notice

Install only a UL LISTED/CSA LABELED power supply cord meeting the following specifications:

|           |                                |
|-----------|--------------------------------|
| Plug Type | Nema-Plug 5-15P                |
| Cord Type | SVT or SJT, minimum 3 x 18 AWG |
| Length    | Maximum 15 feet                |
| Rating    | Minimum 7A, 125V               |



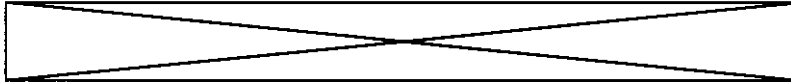
### EPA Energy Star

This monitor is Energy Star compliant when used with a computer equipped with VESA Display Power Management System (DPMS). The Energy Star emblem does not represent EPA endorsement of any product or service.



### Canadian Users:

This digital apparatus does not exceed the Class B digital limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.



### European Users:

This Information Technology Equipment has been tested and found to comply with the following European directives:

- [i] EMC Directive 89/336/EEC amending directive 91/31/EEC 95/263/EE & 93/68/EEC as per
  - EN 50081-1: 1992 according to
    - EN 55022: 1994+A1:1995+A2+1997/CISPR 22:1993+A1+A2/AS/NZS 3548:1995, Class B
    - EN 61000-3-2: 1995, Class A
    - EN 61000-3-3: 1995
  - EN50082-1: 1992/1994 according to
    - EN61000-4-2: 1995 or IEC 801-2: 1987
    - ENV 50140: 1994 or IEC 801-3: 1984
    - EN 61000-4-4: 1995 or IEC 801-4: 1988
- [ii] Low Voltage Directive (Safety) 73/23/EEC as per EN 60950: 1992



### Japanese Users:

This equipment is in the Class 2 category (Information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in such residential area.

When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

#### 電波障害について

この装置は、情報処理装置等電波障害自由規制協議会(VCCI)の基準に基づく第二種情報技術装置です。  
 この装置は、家庭環境で使用することを目的としていますが、この装置をラジオやテレビジョン受信器に近接してご使用になると、受信障害を引き起こすことがあります。  
 取扱説明書に従って正しい取り扱いをしてください。

## Customer Service

Please direct inquiries regarding warranty coverage to your Authorized Ultimate Reseller, Authorized Distributor, or Worldwide service centers listed below:

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