



14-inch SVGA Color Monitor Installation Guide

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EDMatic V4.02





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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 and television reception; 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:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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.

DO NOT attempt to modify this equipment. If modified, your authority to operate this equipment might be voided by the FCC.

Canadian Department of Communications Statement

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About This Guide

Overview

The SVGA Color Monitor (PCXCV-Rx) has *multi-modes*: VGA, SVGA, and 1024 × 768 interlaced modes.



The monitor offers the following features:

- Anti-glare screen with unlimited display colors
- Automatic selection of horizontal and vertical frequencies
- User controls for image size and centering to adapt to a variety of video cards

This product also has been designed and manufactured to minimize the impact to the environment.





Audience

This guide is intended for users who wish to install the monitor.

Conventions

The following conventions are used in this document:

| Convention | Meaning |
|----------------|--|
| Note | Provides general information. |
| Caution | Provides information to prevent damage to equipment. |
| Warning | Provides information to prevent injury. |





Installation/Operating Guidelines

Observe the following basic rules for installation and use.

Do . . .

- Use the power cord supplied with the monitor, which is UL- and CSA-approved, designed for a **grounded** outlet.
- Turn the monitor off when you clean the monitor or if you do not use it for an extended period of time.

Do Not . . .

- Exceed the ac power output rating of the ac outlet of your computer or other source.
- Move the monitor on a stand over carpet or thresholds.
- Push objects into the monitor's openings.
- Add accessories that are not designed for this monitor.
- Operate the monitor near water or in a damp environment, which could cause an electrical shock hazard.
- Operate the monitor near magnets, motor devices, transformers, high power lines, or large steel pillars, which can cause distortion in the picture.
- Obstruct the ventilation openings in the monitor's cabinet, such as placing the monitor on a rug or within an enclosure.
- Place the monitor near a radiator or heat source.
- Use liquid cleaners or aerosol cleaners. Instead, use a damp cloth for cleaning.





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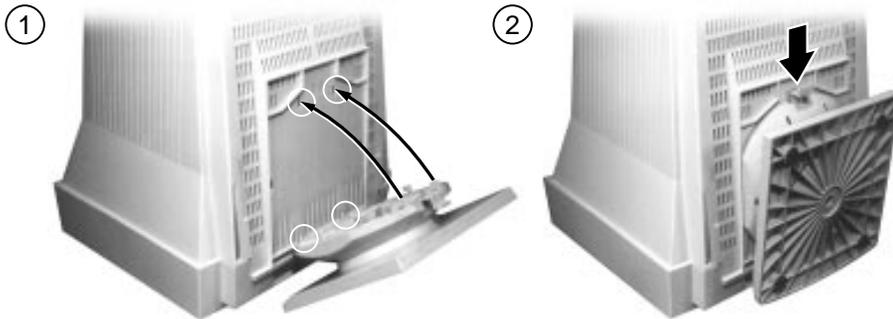


1

Installation

1.1 Install the tilt/swivel stand.

1. With the monitor face down, insert the hooks on the stand into the slots in the bottom of the monitor.
2. Apply pressure near the latch so it is secure.





Installation

1.2 Monitor Installation

1.2 Monitor Installation

To connect your monitor:

1. Make sure the power to the monitor and the computer is off.
2. Connect the monitor's signal cable to the 15-pin interface connector on the High Resolution Graphic Video Adapter on the back of the computer.
3. Plug in the ac power cord to the monitor, then to a properly-grounded ac electrical outlet.

Turn On Power to Monitor

Push the power switch button  to turn on the monitor. The power indicator LED above this switch should light green.





Installation 1.2 Monitor Installation

Figure 1-1 Monitor Control Panel

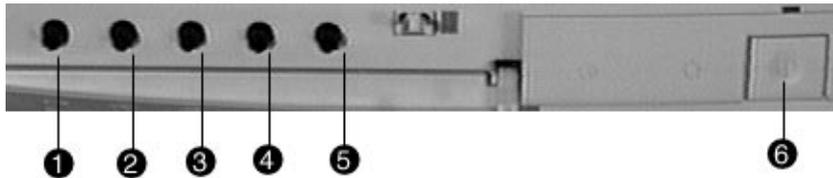


Table 1-1 User Controls and Functions

| Control | Action |
|---|---|
|  | Brightness – Turn the control clockwise to increase brightness. Turn the control counterclockwise to reduce brightness. |
|  | Contrast – Turn the control clockwise to increase contrast. Turn the control counterclockwise to reduce contrast. |

Note

If the picture is too small or not centered, the monitor does not recognize the input frequency mode. Adjust the position and size of the picture using the controls that follow.

(continued on next page)

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Installation 1.2 Monitor Installation

Table 1-1 (Cont.) User Controls and Functions

| Item | Control | Screen | Adjustment |
|------|---------|--------|---|
| 1 | | | Pincushion (PCC) – Turn this control to correct a bowed image. |
| 2 | | | Vertical Size – Turn this control for correct vertical display size. |
| 3 | | | Vertical Center – Turn this control for correct vertical display position. |
| 4 | | | Horizontal Size – Turn this control for correct horizontal display size. |
| 5 | | | Horizontal Center – Turn this control for correct horizontal display position. |

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Servicing

2.1 Cleaning the Monitor

To clean the monitor:

1. Unplug the monitor.
2. Clean the monitor with a soft, slightly damp cloth. **Do not** use an aerosol cleaner directly on the screen.

Caution

Do not use benzene, thinner, or any volatile substance to clean the monitor, as these product may discolor the monitor's cabinet. Likewise, do not place rubber or vinyl on the monitor.

2.2 Maintenance and Troubleshooting

2.2.1 Identifying and Correcting Problems

The following can be sources of problems:

- Communications cables
- Host system
- Nearby power or electrical sources





Servicing 2.2 Maintenance and Troubleshooting

2.2.2 Troubleshooting Table

Use Table 2-1 to identify and correct any problem areas.

Table 2-1 Identifying and Correcting Problems

| Symptom | Possible Cause | Suggested Solution |
|---|--|---|
| Display does not appear. | Brightness or Contrast control is set too low. | Increase the brightness and contrast control setting. |
| | There is no power. | Check the power cord. Use another ac outlet. |
| Video display has moving dots and distorted lines. The display rolls or flickers. | There is electromagnetic interference. | Move any electromechanical device, such as a fan or a motor, away from the monitor or move the monitor. |

Warning

Serious shock hazards exist inside this display. There are no user serviceable parts inside. DO NOT remove covers under any circumstances or attempt to service the monitor yourself. Call a qualified service representative.

If you need to dispose of a unit, ask a qualified service representative for the proper procedure. Improper disposal could result in personal injury from implosion.





3

Specifications

3.1 Monitor Specifications

| | |
|--------------------------|--|
| Monitor | 35.6 cm (14 in) non-glare |
| Active area | 24.8 × 18.6 cm |
| Height | 38.1 cm (15.0 in) |
| Width | 36.2 cm (14.3 in) |
| Depth | 38.0 cm (15.0 in) |
| Swivel | ±45° |
| Tilt | -5° to +15° |
| Weight | 11 Kg (24.2 lbs) |
| Video Signal | 0.7V p-p R, G, B color (positive) 75Ω. |
| H-Sync | TTL positive or negative, 1KΩ min. 30K to 38KHz (multi-scanning). |
| V-Sync | TTL positive or negative, 1KΩ min. 50 to 88 Hz. |
| Connector | 15-pin D-sub |
| Power input | 90 - 135 Vac, 1.0 A max at 60 Hz; 180 - 264 Vac, 0.4 A max at 50 Hz (auto-switching) |
| Power consumption | 75 W (max) |
| Environment: | |
| Operating Temperature | 10 - 40°C |
| Humidity | 20 - 80% relative humidity (noncondensing) |

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Specifications

3.2 Scanning Modes

3.2 Scanning Modes

To minimize adjustment needs, the monitor has six factory pre-set display standards, shown in Table 3-1. When the monitor detects any of these display standards, it automatically adjusts the picture size and centering.

Table 3-1 Factory Pre-set Resolution and Frequencies

| Mode | Pre-set Addressability (Pixels x Lines) | Vertical Refresh (Hz) | Horizontal Frequency (kHz) |
|------|--|--------------------------|-------------------------------|
| 1 | 640 x 350 | 70.09 | 31.47† |
| 2 | 720 x 400 | 70.09† | 31.47 |
| 3 | 640 x 480 | 59.94 | 31.47 |
| 4 | 640 x 480 | 75.00 | 37.50 |
| 5 | 800 x 600 | 60.32† | 37.88† |
| 6 | 1024 x 768 | 86.96‡ | 35.52 |

†positive polarities

‡interlaced

3.3 Pin Assignments

The pin assignments for the 15-pin D-type connector are:

| Pin | Signal | Pin | Signal | Pin | Signal |
|-----|----------|-----|--------------|-----|--------|
| 1 | Red | 6 | Red Return | 11 | GND |
| 2 | Green | 7 | Green Return | 12 | No pin |
| 3 | Blue | 8 | Blue Return | 13 | H-SYNC |
| 4 | GND | 9 | No pin | 14 | V-SYNC |
| 5 | Selftest | 10 | GND | 15 | No pin |





Specifications
3.4 Environment

3.4 Environment

This product has been designed and manufactured to minimize the impact to the environment. The packaging is recyclable and the monitor can be returned for proper disposal.

Asbestos

This product does not use asbestos in any form.

Flame Retardants

The enclosures do not contain polybrominated diphenylether (PBDE) as a flame retardant additive; therefore, they do not emit toxic dibenzofuran and dibenzodioxin gases.

Ozone Depleting Substances (ODS)

The PCXCV-Rx is in full compliance with the labeling requirements in the U.S. Clean Air Act Amendments of 1990. It does not contain, nor is it manufactured with, a Class 1 ODS, as defined in Title VI Section 611 of this act.

PVC

The plastic enclosures are not made of rigid PVC. The material has a non-halogenated, flame-retardant system and is cadmium free.

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