

HEWLETT-PACKARD

35741

HP Color Display Monitor

Installation Guide

Guía de Instalación

Montagehinweise

Manuel d'Installation

Manuale d'Installazione

X-RAY RADIATION NOTICE

Model 35741A/B

Warning

When operating, this product emits x-rays; however, it is well shielded and meets safety and health requirements of various countries, such as the Department of Health and Human Services (USA) and the Radiation Act of Germany.

Radiation emitted by this product is less than 0.5mR/hr (5uSv/h) at a distance of five (5) centimeters from the surface of the cathode ray tube. The x-ray radiation primarily depends on the characteristics of the cathode ray tube and its associated low voltage and high voltage circuitry. Internal controls have been adjusted to ensure safe operation. Only qualified personnel should perform any internal adjustment as specified in the service manual for this product.

Replace the cathode ray tube with an identical CRT only. For the number of the German PTB license, see the enclosed copy of the x-ray license.

Achtung

Während des Betriebs erzeugt dieser Farb-Monitor Röntgenstrahlung. Das Gerät ist so abgeschirmt, dass die Dosisleistung weniger als 5 uSv/h in 5 cm Abstand von der Oberfläche der Kathodenstrahlröhre beträgt. Somit sind die Sicherheitsbestimmungen verschiedener Länder, u.a. der deutschen Röntgenverordnung eingehalten.

Die Stärke der Röntgenstrahlung hängt im Wesentlichen von der Bauart der Kathodenstrahlröhre und der daran angelegten Spannungen ab. Um einen sicheren Betrieb zu gewährleisten, wurden die interne Schalter schon eingestellt. Weitere Einstellungen dürfen von qualifiziertes Personal nur entsprechend dem Wartungshandbuch vorgenommen werden. Die Kathodenstrahlröhre darf nur durch den gleichen Typ ersetzt werden. Das Gerät ist in der BR Deutschland zugelassen unter der Nummer (Siehe beigefügte Kopie der Bauartzulassung).

HP Computer Museum
www.hpmuseum.net

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HP 35741 Color Display Monitor Installation Guide

Logo Base line here



**Manual Part No.
035741-90001**

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Federal Communications Commission Radio Interference Statement

Warning

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference in 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 the receiving antenna

- Relocate the computer with respect to the receiver

- Move the computer away from the receiver

- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician 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, DC 20402, Stock No. 004-000-00345-4.

Notice

The information contained in this document is subject to change without notice. **Hewlett-Packard makes no warranty of any kind with regard to this material including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.** Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

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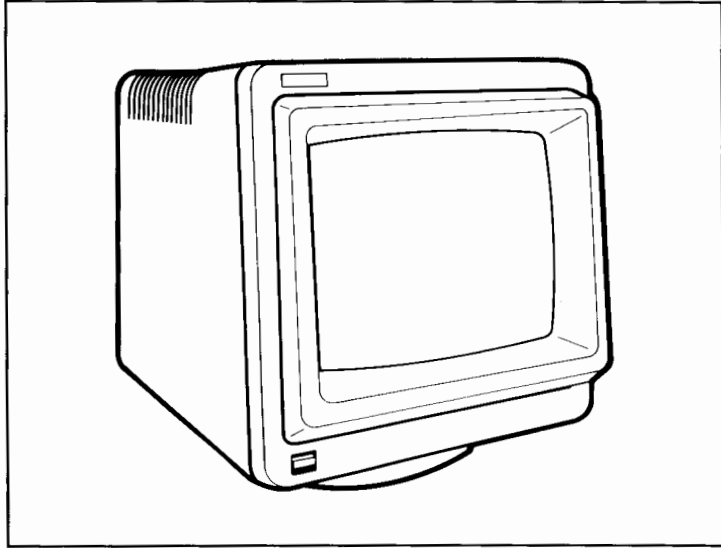
Printing History

First edition—September 1985

HP Monitor Installation Guide

Introduction

Figure 1. HP 35741 Color Display Monitor



Note Please read all instructions before beginning installation.

The HP 35741 Color Display Monitor is a color CRT display unit with a 12-inch screen and the following features:

- Screen resolution of 640 × 400 pixels
- Full spectrum of colors displayable
- Horizontal scan frequency 24.9 - 25.8 KHz
- Front panel power, brightness and contrast controls
- Built-in tilt and swivel
- Removable CRT bezel for optional user-installable touchscreen
- Internal speaker

Installing and Connecting the Monitor



The following is a list of what you need to install and prepare your monitor for use:

1. Monitor
2. A control unit (personal computer, terminal or workstation) to connect to the monitor
3. The control unit User's Manual
4. Video cable (supplied with control unit or purchased separately)
5. Power cord
6. An insulated screwdriver for adjusting the screen image
7. HP Touch Accessory (optional) plus HP Touch Installation Guide

Note

This HP Monitor may be used with one of various control units. This manual, therefore, describes installation procedures that are general in nature. For more specific installation instructions, please refer to the User's Manual for your control unit.

HP Touch Installation

If you have purchased HP Touch, consult the HP Touch Installation Guide and install HP Touch before proceeding with monitor installation.

Note

An additional cable is required if HP Touch is installed. Please follow instructions in your system manual for attaching the display unit to the control unit with the extra cable.

Where to Put Monitor

Place the monitor on a flat, sturdy surface, or on top of the control unit you are using.

Be sure to leave enough space for air to flow through ventilation holes at the top, bottom and sides of the monitor.

Note

The operating site must be free from excessive heat, moisture or electromagnetic field sources such as transformers, motors and other equipment producing strong magnetic fields.

Where Are The Connections?

The controls and connections provided on the back of the monitor are shown in Figure 2.

Figure 2. Points Of Connection (Back of Monitor)

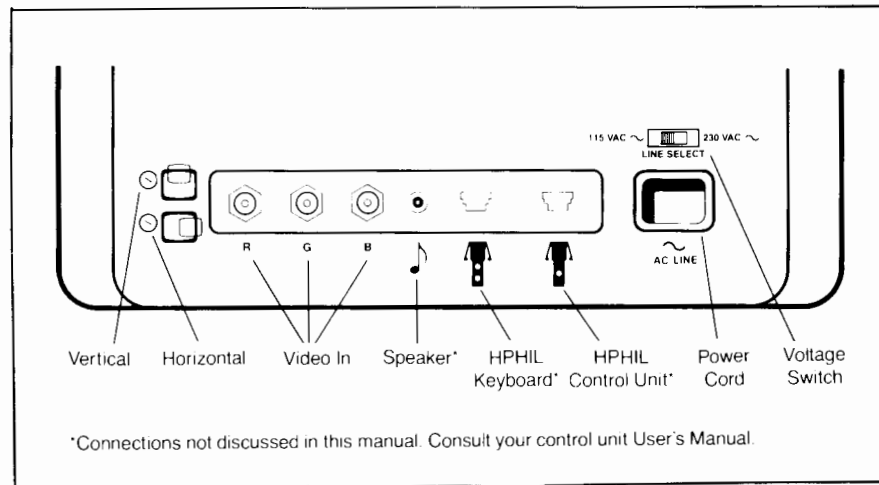
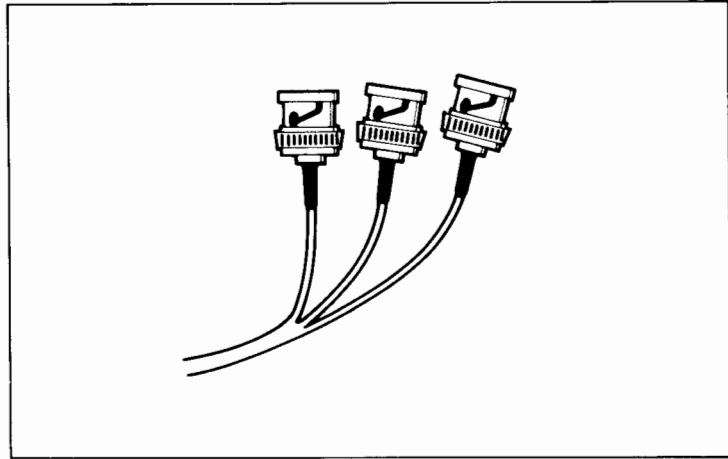


Figure 3. Video Cable



Note

The video cables to be used with the HP Monitor are either included with the HP control unit or purchased separately as an accessory. This cable has BNC-type plugs on the end that connects to the monitor. The control unit end of the cable will vary. For proper operation, make sure that the red, green and blue video inputs of the monitor are connected to the matching red, green and blue outputs of the control unit. If you have the wrong kind of cable, please contact your HP sales office or dealer to obtain the correct video cable.

How to Make The Right Connections

Follow these steps to make the right connections on your monitor:

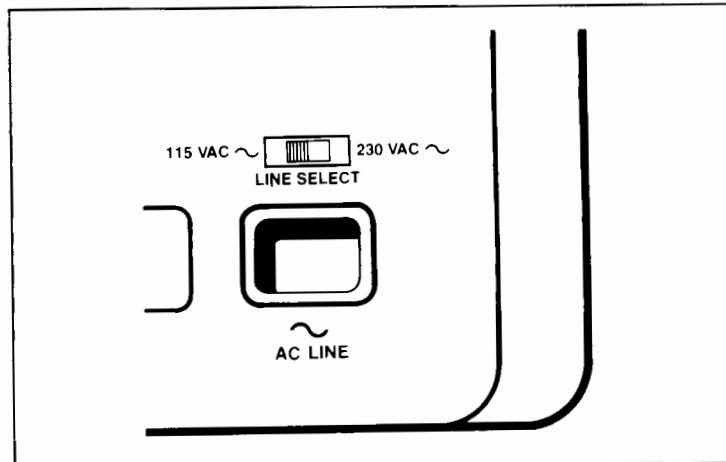
Caution

Your HP Monitor is equipped with a voltage selection switch (Figure 4). Make sure that the switch is set for the correct voltage **BEFORE** applying power to the monitor. You may damage the monitor if you run it at the wrong voltage.

To set the voltage switch:

- Insert a small, flat-head screwdriver or similar tool into the recessed voltage switch illustrated in Figure 4.
- For 115 Volts, push the switch LEFT.
- For 230 Volts, push the switch RIGHT.

Figure 4. Voltage Switch (Rear Of Monitor)

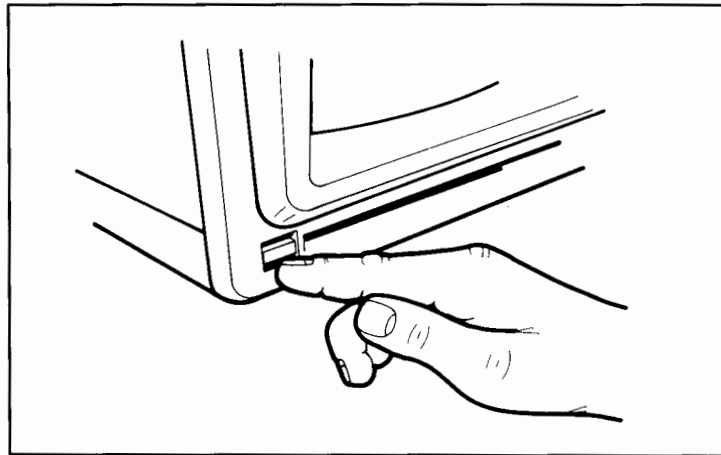


Warning

Be sure that the monitor power button is set to OFF (Figure 5).

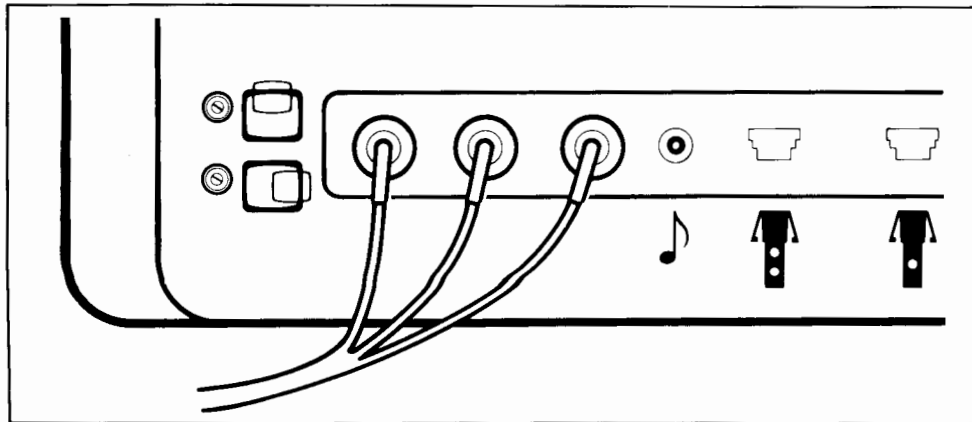
Be sure the control unit is turned off before connecting any cables to it.

Figure 5. Power Button Operation



- Plug the video cables into the three sockets on the monitor. Be sure that when you connect the other end of the cables to your control unit that the ribbon cable is not twisted (this ensures the three connectors are matched on monitor and control unit — i.e., that red goes to red, blue to blue, and green to green for video input). See Figure 6.

Figure 6. Video Cables Connected To Monitor



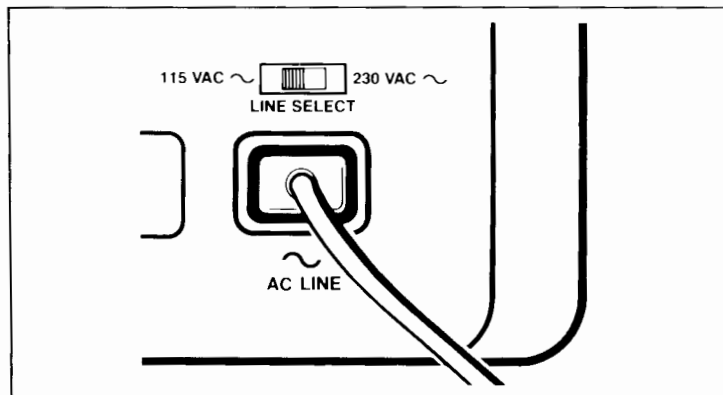
- Plug the three connectors of the remaining end of the video cable into the proper connector sockets on your control unit (see control unit User's Manual for specific information).
- Make any other connections at this time as directed by your control unit User's Manual.

Warning

Make sure that you connect the power cord to the monitor **BEFORE** you connect the cord to the power source. Contact with a live power cord could result in serious injury or death.

- Now connect the power cord to the AC connector on the monitor as shown in Figure 7. (If your control unit or personal computer is equipped with a convenience outlet, you have an alternate method of getting power to the monitor. Instead of using the monitor's power cord, you can use the short cable shipped with your system to connect the power from the monitor to the control unit. Consult your control unit's manual for complete details.)

Figure 7. Power Cord Connected To The Monitor

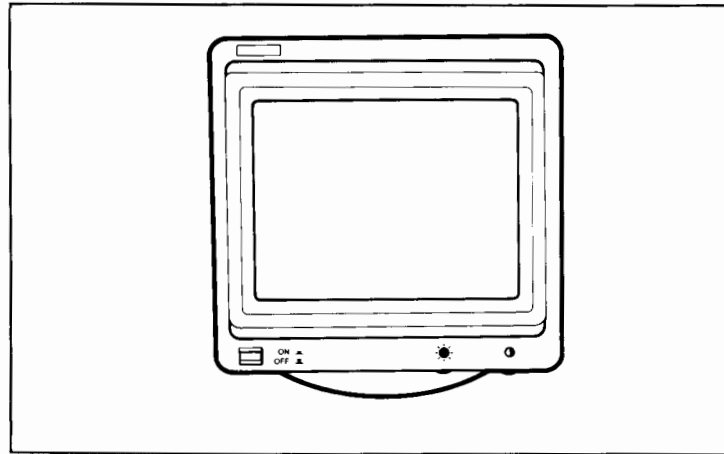


- Now plug the other end of the power cord into an electrical outlet.
- To turn the monitor on and make the proper adjustments, please read the section "Adjusting and Controlling Your Monitor".

Adjusting And Controlling Your Monitor




Your HP Monitor is designed for your ease of use. The controls most frequently used are located on the front of the monitor (Figure 8).

Figure 8. Front Panel Controls



How To Operate Controls

The following table shows the symbols for each user control and tells how to operate each control:

- | | |
|---|--|
|  | Press in to turn monitor on. Press again to turn monitor OFF. |
|  | Turn clockwise to increase contrast. Turn counterclockwise to decrease contrast. |
|  | Turn clockwise to increase brightness. Turn counterclockwise to decrease brightness. |

Caution

Displaying an image with brightness and contrast at maximum level can damage the screen permanently.



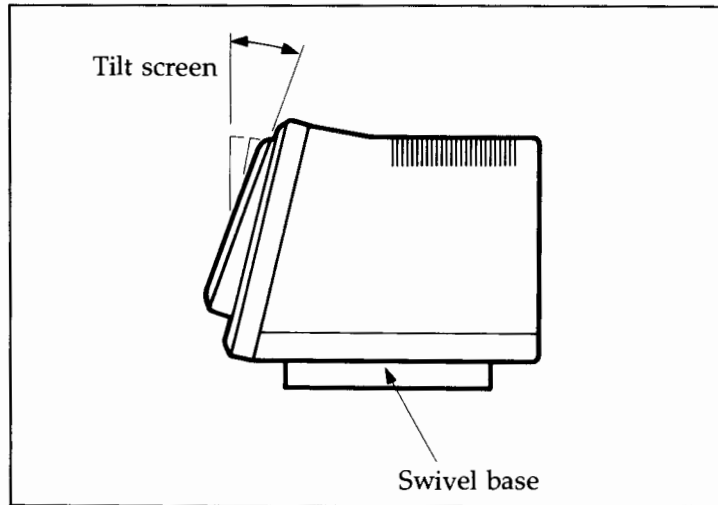
- | | |
|---|---|
|  | Insert an insulated screwdriver to adjust image horizontally (located on back of monitor) |
|  | Insert an insulated screwdriver to adjust image vertically (located on back of monitor) |

Figure 9. Operating Tilt and Swivel



Specifications

Display	CRT:	12-inch diagonal, 90-degree deflection non-glare screen.
	Phosphor:	RGB standard persistence (p22)
	Max Active Display Area:	210 (W) x 164 (H) mm (Actual display area depends on video source)
Video Input Signal	Type:	Analog RGB composite video, sync on green
	Polarity:	Negative sync
	Level:	0.8 Vp-p composite signal level (Min.)
	Input Impedance:	75 ohms
	Input Terminal:	BNC
Electrical Performance	Video Bandwidth:	35 MHz. 14 ns rise and fall time. Less than 5.4 ns skew
	Scan Frequency:	Horizontal 24.90—25.8 KHz
	Frame Rate:	Vertical 60 Hz (16.67 ms)
	Display Capacity:	640 dots x 400 lines
Ambient Operating Temperature		0 to 55 degrees Centigrade
Ambient Storage Temperature		-40 to 65 degrees Centigrade
AC Power Requirements	35741:	50 or 60 Hz, 65 W (90-132 V, 180-250 V)
Physical Dimensions		328 (W) x 345 (H) x 390 (D) mm
Weight		13.9 Kg

Warranty Information (U.S.A. and Canada)

In the U.S. and Canada, this product is warranted by Hewlett-Packard against defects in materials and workmanship for one year from date of original purchase. If you transfer ownership, this warranty is automatically transferred to the new owner and remains in effect for the original one year period.

During the warranty period we will repair or, at our option, replace at no charge any unit that proves to be defective, provided it is returned, shipping prepaid, to an identified Hewlett-Packard repair facility. You are responsible for all customs duties in connection with the return of the unit.

This warranty does not apply if the product has been damaged by accident or misuse, or as a result of service or modification by other than an authorized HP repair facility, or by hardware, software interfacing, or peripherals not provided by Hewlett-Packard. Hewlett-Packard shall have no obligation to modify or update products once manufactured. This warranty does not apply to HP software products. If this product is purchased as part of certain HP systems, consult the system warranty for any potential modifications to this product warranty.

No other expressed warranty is given. The repair or replacement of a product is your exclusive remedy. Any implied warranty of merchantability or fitness is limited to the one year duration of this written warranty. Some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. In no event shall Hewlett-Packard Company be liable for consequential damages. Some states or provinces do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary according to the state or province in which you reside. Retain this warranty for your records.

If your hardware should fail during the warranty period, bring the failed piece of equipment to an Authorized HP Personal Computer Dealer Repair Center—or send the equipment to an HP Field repair center in your area. If you are uncertain about which unit to return, call your Authorized HP Dealer or Field Repair Center for assistance. When sending equipment to a Field Repair Center, use the original shipping container if possible. Insure the shipment.

Call your Hewlett-Packard Authorized Dealer or one of the Hewlett-Packard Sales and Service Offices to learn more about the support services available to you.

**Warranty
Information
(Except U.S.A.
and Canada)**

In countries outside the U.S.A. and Canada, contact your local Hewlett-Packard Sales and Service facility to determine warranty terms.



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