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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ 2309M-V. You'll find the answers to all your questions on the COMPAQ 2309M-V in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual COMPAQ 2309M-V**  
**User guide COMPAQ 2309M-V**  
**Operating instructions COMPAQ 2309M-V**  
**Instructions for use COMPAQ 2309M-V**  
**Instruction manual COMPAQ 2309M-V**

#### **User's Guide**

1859m  
2009m/v/f  
2159m/v  
2309m/v  
2709m



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**Manual abstract:**

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Throughout this guide, blocks of text may be accompanied by an icon.

These blocks are notes, cautions, and warnings, and they are used as follows: **WARNING:** Indicates that failure to follow directions could result in bodily harm or loss of life. **CAUTION:** Indicates that failure to follow directions could result in damage to equipment or loss of information. **NOTE:** Indicates additional information. Contents Notational Conventions..

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*..C4 D Index 1 Product Features HP LCD Monitors The HP LCD (liquid crystal display) monitors have an active matrix, thin-film transistor (TFT) screen. This guide discusses the following models: 1859m LCD monitor 2009m/v/f LCD monitor 2159m/v LCD monitor 2309m/v LCD monitor 2709m LCD monitor Features Large diagonal display Optimum resolution: 1859m: 1366 x 768 @ 60Hz 2009m/v/f: 1600 x 900 @ 60Hz 2159m/v: 1920 x 1080 @ 60Hz 2309m/v: 1920 x 1080 @ 60Hz 2709m: 1920 x 1080 @ 60Hz Plus full-screen support for lower resolutions Video inputs supported: VGA analog signal (select models only) DVI digital signal (select models only) High-definition multimedia interface (HDMI) (select models only) Fast response time, providing better experience for gaming and graphics Easy viewing from a sitting or standing position, or while moving from one side of the monitor to the other Tilt*

adjustment Swivel adjustment Removable pedestal and Video Electronics Standards Association (VESA) standard mounting holes for flexible mounting solutions, including wall-mounting Security lock slot for a locking security cable (security cable sold separately) Plug and Play capability, if supported by your computer system On-screen display (OSD) adjustments for ease of setup and screen optimization (choose English, Simplified Chinese, Traditional Chinese, French, German, Italian, Spanish, Dutch, Japanese, or Brazilian Portuguese) Built-in stereo speakers, downward firing Keyboard parking Power Saver to reduce energy consumption Quick View settings display Ambient Light Sensor (select models only) CD included: Drivers Auto-adjustment software Webcam software (select models only) Documents Adobe® the cabinet requires additional cleaning, use a clean cloth dampened with isopropyl alcohol. 5. 6. Plug in the monitor. Turn on the monitor and the computer. 3 Setting Up the Monitor Unpacking the Monitor 1. 2.

3. Unpack the monitor. Make sure all contents are included. Store the packing box. Turn off the computer and other attached devices. Determine whether the monitor will be desktop mounted or wall-mounted. See "Installing the Monitor" in this chapter. 4. Prepare a flat area to assemble the monitor. You may need a flat, soft, protected area for placing the monitor screen-down while preparing it for installation.

5. You need a Phillips screwdriver for preparing the monitor for wall-mounting. You may need a straight-slot screwdriver to secure some cables. Installing the Monitor You can install the monitor on a desktop or wall-mount it. Place the monitor in a convenient, well-ventilated location near your computer. Connect the monitor cables after you have installed the monitor. Preparing the monitor for desktop use CAUTION: The screen is fragile. Avoid touching or applying pressure to the LCD screen; doing so can cause damage. Unfold the monitor by lifting it from the top edge of the bezel. 1.

Set the monitor screen face down on a flat, soft, protected surface. Unfolding the monitor 2.



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Grip the base near where it attaches to the monitor with one hand and lift the top part of the monitor until it is unfolded into the desired position. 3. Lift the monitor to an upright position and place on a flat, stable surface. Monitor in upright position Preparing the monitor for wall-mounting **WARNING:** To reduce the risk of personal injury or of damage to the equipment, check that the wall-mounting fixture is adequately installed and secured before attaching the monitor. Refer to the instructions supplied with the wall-mounting fixture and check that it is capable of supporting the monitor. 1. 2. 3.

Disconnect the power cable and any other cables from the monitor. Place the monitor face down on a flat, protected surface. Remove the four screws that fasten monitor base to the monitor. Location of screws securing base to monitor 4. Slide the base away from the bottom of the monitor. Sliding the base away from the monitor 5. Remove the square plate on the back of monitor. Use a coin at the base of the plate to pry it loose. Removing the plate from the back of the monitor Four or six threaded holes are exposed (depending on your model). These holes are for screws to attach the swing arm or other mounting fixture to the back of the monitor.

Some models will include mounting screws in the mounting holes. You will need to remove the screws, position the mounting device, then re-install the screws. 100 x 100mm Threaded holes for attaching wall mount 100 x 200mm Threaded holes for attaching wall mount 6. Follow the instructions included with the mounting fixture to ensure that the monitor is safely attached. The threaded holes that are on the back of the panel are compliant with the VESA standard for mounting flat-panel monitors.

7. Attach a swing arm or other mounting fixture. Connecting the VGA (Analog) or DVI-D (Digital) Cable Use a VGA video cable or a DVI-D video cable (provided with select models). To use DVI, you must have a DVI-compliant graphic card. Connectors are located on the back of the monitor. Be sure the computer and monitor are turned off and unplugged. Some graphic cards have both a DVI connector and a DVI-to-VGA converter included in the box (select models only). If the monitor has a VGA connector but no DVI connector, use the DVI-to-VGA converter to connect to the computer: Connect the DVI-to-VGA converter to the DVI connector on the computer graphic card, and then connect the VGA cable to the converter and the monitor. Connecting the VGA or DVI-D cable--connector locations may vary To connect the VGA cable Connect one end of the VGA video cable to the back of the monitor and the other end to the VGA video connector on the computer. To connect the DVI-D cable Connect one end of the DVI-D video cable to the back of the monitor and the other end to the DVI video connector on the computer. You can use this cable only if your computer has a DVI-compliant graphic card installed. The monitor DVI-D connector and cable are included with select models only. **NOTE:** If you use a DVI-to-HDMI adapter, you must connect the green audio cable to enable the speakers. The signal from the DVI connector is for video only. Connecting the HDMI Cable (Select Models Only) Connect one end of the HDMI cable to the back of the monitor and the other end to a computer with an HDMI connector.

**Audio and Video Cables and Adapters** The following table shows the cable and adapter types that may be required to connect the monitor to the computer, TV, or set-top box. The number and type of cables required may vary by model. Some cables and adapters are included for select models only and may be sold separately. 

Cable/Adapter Name	Description
HDMI cable	HDMI transmits an all-digital signal. It is the recommended choice for playback from a DVD or DVR. HDMI is capable of transmitting both uncompressed digital audio and digital video signals, because it has video, audio, and control signals.
DVI cable	DVI transmits an all-digital video signal.
VGA cable	VGA transmits an analog video signal.
DVI-to-VGA adapter	Connects a DVI monitor to a VGA connector on the back of the computer, TV, or set-top box or connects a VGA monitor to a DVI connector on the back of the computer, TV, or set-top box.

Cable/Adapter (Continued) 

Name	Description
DVI-to-HDMI adapter	Connects a DVI monitor to an HDMI connector on the back of the computer, TV, or set-top box or connects an HDMI monitor to a DVI connector on the back of the computer, TV, or set-top box.

**NOTE:** If you use a DVI-to-HDMI adapter, you must connect the green audio cable to enable the speakers. **VGA-to-DVI-I cable** Connects a DVI monitor to a VGA connector on the back of the computer, TV, or set-top box or connects a VGA monitor to a DVI connector on the back of the computer, TV, or set-top box. **NOTE:** When using a VGA or DVI signal, you must connect your audio separately because a VGA or DVI signal converts only video data, not audio data. A separate audio connection is not necessary when you use an HDMI signal, because an HDMI signal can convert both video and audio data. **High-Bandwidth Digital Content Protection (HDCP)** If your monitor supports HDCP, it can receive high-definition content.

High-definition content is available in many sources, such as Blu-ray Disc devices or HDTV air or cable broadcasts. If you do not have an HDCP-enabled monitor, you may see a black screen or a lower resolution picture when playing high-definition protected content. Your computer graphic card and monitor must both support HDCP to display protected content. **Connecting the Audio Cable** Connect the built-in monitor speakers to the computer by using the audio cable, as shown in the following illustration. **Connecting the audio cables--connector locations may vary** **Connecting the Power Cable 1.**

Read the warning below. **WARNING:** To reduce the risk of electric shock or damage to your equipment: Do not disable the power cord grounding plug. The grounding plug is an important safety feature. Plug the power cord into a grounded (earthed) electrical outlet. Be sure that the grounded power outlet you plug the power cord into is easily accessible to the operator and located as close to the equipment as possible. A power cord should be routed so that it is not likely to be walked on or pinched by items that are placed upon it or against it. Do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. See "Technical Specifications" (Appendix B) for additional information.

Connecting the power cable 2. Connect one end of the power cable to the monitor and the other end to a grounded electrical outlet. **Cable Management** The HP LCD monitors have cable management. Cables can be easily routed through the square hole in the base and are partially hidden when viewed from the front. . **Adjusting the Tilt For optimal viewing, adjust the screen tilt to your own preference, as follows: 1.**



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2. Face the front of the monitor and hold the base so that you do not topple the monitor while changing the tilt. Adjust the tilt by moving the top edge of the monitor either toward or away from you, without touching the screen. Adjusting the Swivel The HP LCD monitor allows a usable range of motion with the swivel feature.

**CAUTION:** To avoid breakage or other damage, avoid applying pressure to the LCD screen while swiveling it or changing the tilt. Keyboard Parking If you need more space on your desktop, place the keyboard under the monitor when not in use. 4 Operating the Monitor CD Software and Utilities The CD that is included with this monitor contains the drivers and software that you can install on your computer. Installing Drivers If you determine that you need to update the drivers, you can install the monitor-driver INF and ICM files from the CD, or download them from the Internet. To install the monitor-driver software from the CD: 1.

2. 3. 5. 6. Insert the CD in your computer CD drive.

The CD menu appears. Select the language. Click Install Monitor Driver Software. Restart the computer. Ensure that the proper resolutions and refresh rates appear in the Display Control Panel settings. Refer to the Windows® operating system documentation for more information. 4. Follow the onscreen instructions. **NOTE:** You might need to install the digitally signed monitor drivers (INF or ICM files) manually from the CD, in case of an installation error. Refer to the "Driver Software Readme" file on the CD for instructions (in English only).

Downloading updated drivers from the Internet To download the latest version of drivers and software files from the HP Support site: 1. 2. 3. 5. 6. Refer to: <http://www.hp.com/support> Select your country/region. Select Download Drivers and Software. Download and install the driver and software files by using the instructions in the download pages.

Ensure that your system meets the requirements. 4. Enter the model number of your monitor. The software-download pages for your monitor are displayed. Using the Auto-Adjustment Function You can easily optimize the screen performance for the VGA input by using the Auto/Select button on the monitor and the auto-adjustment pattern software on the CD provided.

Do not use this procedure if your monitor is using a DVI or HDMI input. If your monitor is using the VGA input, this procedure can correct the following image-quality conditions: Fuzzy or unclear focus Ghosting, streaking, or shadowing effects Faint vertical bars Thin, horizontal scrolling lines Off-center picture **CAUTION:** Burn-in image damage may occur on monitors that display the same static image on screen for a prolonged period of time (12 consecutive hours of non-use). To avoid burn-in image damage on your monitor screen, you should always activate a screen saver application or turn off the monitor when it is not in use for a prolonged period of time. Image retention is a condition that may occur on all LCD screens. To use the auto-adjustment feature: 1. 2. Allow the monitor to warm up for 20 minutes before adjusting. Press the Auto/Select button on the monitor front panel. You can also press the Menu button, and then select Image Control, followed by Auto Adjustment from the OSD menu. See "Adjusting Screen Quality" in this chapter. If the result is not satisfactory, continue with the procedure. 3. 5. 6. Insert the CD in your computer CD drive.

The CD menu displays. Select Open Auto-Adjustment Software. The setup test pattern displays. 4. Select the language. Auto-adjustment setup test pattern 7. Press the Auto/Select button on the monitor front panel to produce a stable, centered image. Front-Panel Controls Control buttons are located on the lower right front of the monitor: Icon Power Description Turns the monitor on and to standby or sleep mode. **NOTE:** The power button is located on the top or front of the monitor depending on the model. Menu Opens, selects, or exits the OSD menu.

Adjusts the volume level. Source + Auto OK Chooses video input source from the computer. Navigates backward through the OSD menu and decreases adjustment levels. Navigates forward through the OSD menu and increases adjustment levels. Auto-adjusts the display to the ideal setting when the OSD is not active.

Enters the selected option. Using the On-screen Display (OSD) An On-screen display is an image superimposed on a screen picture, commonly used by monitors, televisions, VCRs, and DVD players to display information such as volume, channel, and time. **NOTE:** You can use My Display OSD software or the front-panel control buttons to adjust settings. 1. 2.

3. If the monitor is not already on, press the Power button to turn on the monitor. To access the OSD menu, press the Menu button. The OSD Main Menu displays. To navigate through the Main or Sub-Menu menu, press the + (Plus) button on the monitor's front panel to scroll up, or the (Minus) button to scroll in reverse. Then press the Auto/Select button to select the highlighted function. The menu moves to the top if you scroll down at the bottom of the selections. The menu moves to the bottom if you scroll up at the top of the selections. 4. To adjust the scale of a selected item, press the + or - button.

5. 6. Select Save and Return. If you don't want to save the setting, select Cancel from the Sub-Menu or Exit from the Main Menu. Press the Menu button to exit the OSD. **NOTE:** When a menu is displayed, if the buttons are untouched for 30 seconds (factory default), adjustments and settings are saved and the menu closes. OSD Menu Selections The following table lists the On-Screen Display (OSD) menu selections and their functional descriptions. After changing an OSD menu item, and if the menu screen has these options, you may choose to: Cancel -- to return to the previous menu level. Save and Return -- to save all changes and return to the OSD Main Menu screen. This Save and Return option is active only if you change a menu item.

Reset -- to change back to the previous setting. Main Menu Options Switch Video Input (select models only) Brightness Contrast Image Control Auto-Adjustment Horizontal Position Vertical Position Clock Submenu Options Description Switches the video input signal source when the monitor is connected to two active and valid video sources. Switching video input sources may take several seconds. Adjusts the brightness level of the screen. Adjusts the contrast level of the screen.

Adjusts the screen image. Also enables or disables the ambient light sensor (select models). Automatically adjusts the screen image (VGA Input only). Adjusts the horizontal position of the picture (VGA Input only). Adjusts the vertical position of the picture (VGA Input only).

@@@ Adjusts the focus of the display. @@ Selects the screen color. @@9300 K 6500 K Custom Color Changes to slightly blueish white. Changes to slightly reddish white. @@G -- Sets your own green color levels. B -- Sets your own blue color levels.



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Screen is black or displaying at a lower resolution while displaying high-definition (HD) content. Image appears blurred, indistinct, or too dark. Image is not centered. Check Video Cable appears on screen. Input Signal Out of Range appears on screen.

Picture is fuzzy and has ghosting, shadowing problem. Check if your monitor and computer support HDCP. Refer to High-Content Digital Bandwidth Protection or <http://www.hp.com/support> Press the Auto/Select button on the monitor front panel. If this does not correct the image, press the Menu button to open the OSD menu, and adjust the brightness and contrast scales. Press the Menu button to access the OSD menu. Select Image Control, and then select Horizontal Position or Vertical Position to adjust the position of the image. Connect the monitor VGA signal cable to the VGA connector on the computer, or connect the DVI-D signal cable to the DVI connector on the computer. Be sure that the computer power is off while connecting the video cable.

Restart your computer and enter Safe Mode. Change your settings to a supported setting (see the table in "Preset Video and High-Definition Modes" in Appendix B). Restart your computer so that the new settings take effect. Adjust the contrast and brightness controls. Make sure that you are not using an extension cable or switch box.

We recommend plugging the monitor directly into the graphic card output connector on the back of your computer. For VGA input, the auto-adjustment feature might fix this problem. Unable to set the monitor to the optimal resolution. Make sure the graphic card supports the optimal resolution. Make sure the latest supported driver is installed for the graphic card.

For HP and Compaq systems, you can download the latest graphics driver for your system from: [www.hp.com/support](http://www.hp.com/support). For other systems, refer to the Web site for your graphic card. Ensure HDMI audio is selected as the main audio output in the operating system. To do so, click the Windows Start Button, and then click Control Panel. Click Sound, and in the Playback tab, ensure the check mark is next to the HDMI output, and click OK. Using HDMI connection, unable to hear audio. Problem Unable to hear audio from built-in speakers. Solution (Continued) Do the following: Ensure the source signal is good by using headphones at the source.

Press the Menu button to access the OSD menu. Select Management, and then select Volume to adjust the volume. Turn up the volume with the front panel volume button. Ensure speaker volume is not muted or too low: Click the Windows Start Button, Control Panel, and Hardware and Sound. Under Audio Devices and Sound, click Adjust system volume. Under Main Volume, move the slider up. No Plug and Play. In order for the Plug and Play feature of the monitor to work, you need a computer and graphic card that are compatible with Plug and Play. Check with your computer manufacturer. Check the monitor's video cable, and make sure that none of the pins are bent.

Make sure that the HP monitor drivers are installed. Refer to "Installing Drivers" in the Operating the Monitor chapter for more information. HP monitor drivers are also available at: <http://www.hp.com/support> Picture bounces, flickers, or wave pattern is present in the picture.

Move electrical devices that may cause electrical interference as far away from the monitor as possible. Use the maximum refresh rate that your monitor is capable of at the resolution that you are using. The computer power switch should be in the On position. The computer graphic card should be snugly seated in its slot. Check that the monitor video cable is properly connected to the computer.

Inspect the monitor video cable, and make sure that none of the pins are bent. Check that your computer is operational: Press the Caps Lock key and observe the Caps Lock LED found on most keyboards. The LED should either turn on or off after hitting the Caps Lock key. Monitor is always in "Sleep Mode (Amber LED)." Getting Support from hp.com Before you contact customer service, refer to HP Technical Support at: <http://www.hp.com/support> Select your country/region, and then follow the links to the support page for your monitor. Preparing to Call Technical Support If you cannot solve a problem by using the troubleshooting tips in this section, you might have to call technical support. For technical support contact information, refer to the printed documentation included with the monitor.

Have the following information available when you call: Monitor model number (located on label on back of monitor) Monitor serial number (located on label on back of monitor or in the OSD display in the Information menu) Purchase date on invoice Conditions under which the problem occurred Error messages received Hardware configuration Name and version of hardware and software you are using Locating the Rating Label The rating label on the monitor provides the product number and serial number. You may need these numbers when contacting HP about your monitor model. The rating label is on the back of the monitor. B Technical Specifications All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. HP LCD Monitors Face treatment: Glare polarizer with hard coating Input Terminals: VGA connector (select models) DVI-D 24-pin D-type connector (select models) HDMI connector (select models) Specifications model 1859m Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d): Maximum Graphics Resolution: Optimum Graphics Resolution: Text Mode: Dot Pitch: Horizontal Frequency (analog mode): Vertical Frequency (analog mode): Environmental Requirements Temperature (independent of altitude) Operating Temperature: Non-operating Temperature: Relative Humidity (non-condensing): Operating Humidity: Non-operating Humidity: Power Source: Power Consumption: Sleep Power Consumption: 20% to 80% 5% to 95% 100/240Vv, 50/60 Hz 40 watts maximum <2 watts typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 18.5 in. (47.0 cm) diagonal 5o to +25o 9.5 lb (4.3 kg) 14.

0 x 18.0 x 7.2 in. (355 x 470 x 184 mm) 1366 x 768 @ 60 Hz analog mode 1366 x 768 @ 60 Hz analog mode 720 x 400 0.30 x 0.

30 mm 24 to 83 kHz 50 to 76 Hz Specifications (Continued) model 2009m/v/f Display Type: Viewable Image Size: Tilt: Dimensions (h x w x d): Maximum Graphics Resolution: Optimum Graphics Resolution: Text Mode: Dot Pitch: Horizontal Frequency (analog mode): Vertical Frequency (analog mode):

Environmental Requirements Temperature (independent of altitude) Operating Temperature: Non-operating Temperature: Relative Humidity (non-condensing): Operating Humidity: Non-operating Humidity: Power Source: Power Consumption: Sleep Power Consumption: 20% to 80% 5% to 95% 100-240Vv, 50/60 Hz 56 watts maximum <2 watts typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 20 in.



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(50.8 cm) diagonal 50 to +250 18.9 x 20.6 x 11.

4 in. (481 x 523 x 289 mm) 1600 x 900 @ 60 Hz analog mode 1600 x 900 @ 60 Hz analog mode 720 x 400 0.2768 x 0.2768 mm 24 to 85 kHz 48 to 76 Hz model 2159m/v Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d): Maximum Graphics Resolution: Optimum Graphics Resolution: Text Mode: Dot Pitch: Horizontal Frequency (analog mode): Vertical Frequency (analog mode): Environmental Requirements Temperature (independent of altitude) Operating Temperature: Non-operating Temperature: Relative Humidity (non-condensing): Operating Humidity: Non-operating Humidity: Power Source: Power Consumption: Sleep Power Consumption: 20% to 80% 5% to 95% 100240Vv, 50/60 Hz 56 watts maximum <2 watts typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 21.53 in. (55.68 cm) diagonal 50 to +250 13.2 lb (6.0 kg) 16.3 x 22.

2 x 7.6 in. (415 x 563 x 194 mm) 1920 x 1080 @ 60 Hz analog mode 1920 x 1080 @ 60 Hz analog mode 720 x 400 0.2480 x 0.2480 mm 24 to 94 kHz 50 to 76 Hz Specifications (Continued) model 2309m/v Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d) Maximum Graphics Resolution: Optimum Graphics Resolution: Text Mode: Dot Pitch: Horizontal Frequency (analog mode): Vertical Frequency (analog mode): Environmental Requirements Temperature (independent of altitude) Operating Temperature: Non-operating Temperature: Relative Humidity (non-condensing): Operating Humidity: Non-operating Humidity: Power Source: Power Consumption: Sleep Power Consumption: 20% to 80% 5% to 95% 100-240Vv, 50/60 Hz 54 watts maximum <2 watts typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 23.0 in. (58.42 cm) diagonal 50 to +250 21.6 lb (9.8 kg) 16.

2 x 22.6 x 7.9 in. (412 x 573 x 200 mm) 1920 x 1080 @ 60 Hz analog mode 1920 x 1080 @ 60 Hz analog mode 720 x 400 0.265 x 0.

265 mm 24 to 94 kHz 50 to 76 Hz model 2709m Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d): Maximum Graphics Resolution: Optimum Graphics Resolution: Text Mode: Dot Pitch: Horizontal Frequency (analog mode): Vertical Frequency (analog mode): Environmental Requirements Temperature (independent of altitude) Operating Temperature: Non-operating Temperature: Relative Humidity (non-condensing): Operating Humidity: Non-operating Humidity: Power Source: Power Consumption: Sleep Power Consumption: 20% to 80% 5% to 95% 100-240Vv, 50/60 Hz 120 watts maximum <2 watts typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 27 in. (68.58 cm) diagonal 50 to +250 21.2 lb (9.6 kg) 18.

5 x 26.4 x 8.4 in. (469 x 671 x 214 mm) 1920 x 1080 @ 60 Hz analog mode 1920 x 1080 @ 60 Hz analog mode 720 x 400 0.265 x 0.265 mm 24 to 94 kHz 48 to 76 Hz Preset Video and High-Definition Modes The monitor automatically recognizes many preset video input modes that will appear properly sized and centered on the screen. Factory Preset Video Input Modes, 1859m Preset 1 2 3 4 5 6 7 Resolution 640 x 480 720 x 400 800 x 600 1024 x 768 1280 x 960 1280 x 1024 1366 x 768 Horizontal Frequency (kHz) 31.47 31.47 37.88 48.

36 60.00 63.98 47.71 Vertical Frequency (Hz) 59.94 70.09 60.32 60.00 60.00 60.02 59.

79 Factory Preset Video Input Modes, 2009m/v/f Preset 1 2 3 4 5 6 7 Resolution 640 x 480 720 x 400 800 x 600 1024 x 768 1280 x 1024 1440 x 900 1600 x 900 Horizontal Frequency (kHz) 31.47 31.47 37.88 48.36 63.  
98 55.93 55.54 Vertical Frequency (Hz) 59.94 70.09 60.

32 60.00 60.02 59.88 59.98 Factory Preset Video Input Modes, 2159m/v, 2309m/v, and 2709m Preset 1 2 3 4 5 6 7 8 9 10 Resolution 640 x 480 720 x 400 800 x 600 1024 x 768 1280 x 960 1280 x 1024 1440 x 900 1600 x 1200 1680 x 1050 1920 x 1080 Horizontal Frequency (kHz) 31.47 31.47 37.88 48.36 60.00 63.

98 55.93 75.00 65.29 67.50 Vertical Frequency (Hz) 59.94 70.09 60.32 60.00 60.00 60.

02 59.88 60.00 60.00 60.00 High Definition Video Formats Preset 1 2 3 4 5 6 7 8 9 10 Timing Name 480i 480p 720p60 1080i60 576i 576p 720p60 1080i50 1080p60 1080p50 Resolution 720 x 480 720 x 480 1280 x 720 1920 x 1080 720 x 576 720 x 576 1280 x 1920 1920 x 1080 1920 x 1080 Horizontal Frequency (kHz) 15.  
73 31.47 45.00 33.75 15.63 31.

25 37.50 28.13 67.50 56.25 Vertical Frequency (Hz) 60 60 60 60 50 50 50 50 60 50 LCD Monitor Quality and Pixel Policy The HP LCD Monitor uses high-precision technology, manufactured according to high standards, to help guarantee trouble-free performance. Nevertheless, the display may have cosmetic imperfections that appear as small bright or dark spots. This is common to all LCD displays used in products supplied by all vendors and is not specific to the HP LCD Monitor. These imperfections are caused by one or more defective pixels or subpixels. A pixel consists of one red, one green, and one blue subpixel. A defective whole pixel is always turned on (a bright spot on a dark background), or it is always off (a dark spot on a bright background).

The first is the more visible of the two. A defective subpixel (dot defect) is less visible than a defective whole pixel, and is small and only visible on a specific background. To locate defective pixels, the monitor should be viewed under normal operating conditions and in normal operating mode at a supported resolution and refresh rate, from a distance of approximately 16 inches (50 cm). We expect that, over time, the industry will continue to improve its ability to produce displays with fewer cosmetic imperfections, and we will adjust guidelines as improvements are made. For more information about your HP LCD Monitor, refer to the HP Web site at: <http://www.hp.com/support> Power Cord Set Requirements The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100240Vv, 50/60 Hz, 1.5A. The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country/region where you purchased the equipment.

If you need to obtain a power cord for a different country/region, you should purchase a power cord that is approved for use in that country/region. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. If you have questions about the type of power cord to use, contact your HP-authorized service provider. A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product. C Agency Regulatory Notices Federal Communications Commission Notice 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.



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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 the receiver. @@@@ @@@@. Box 692000, Mail Stop 530113 Houston, Texas 77269-2000 Or Call: 1-800-474-6836 For questions regarding this FCC declaration, contact: Hewlett-Packard Company P. O. Box 692000, Mail Stop 510101 Houston, Texas 77269-2000 Or Call: 1-281-514-3333 To identify this product, refer to the part, series, or model number found on the product. Materials Disposal This HP product contains mercury in the fluorescent lamp in the display LCD that might require special handling at end-of-life: Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (EIA) (<http://www.eiae.org>).

Chemical Substances HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at: <http://www.hp.com/go/reach> Canadian Notice This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Avis Canadien Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. European Union Regulatory Notice Products bearing the CD marking comply with the following EU Directives: Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC Ecodesign Directive 2009/125/EC, where applicable CE Compliance of this product is valid if powered with the correct CE-marked AC adapter provided by HP. Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) that are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family and available (in English only) either within the product documentation or at the following web site: <http://www.hp.ed/certificates> (type the product number in the search field).

This compliance is indicated by one of the following conformity markings placed on the product: For non-telecommunications products and for EU harmonized telecommunications products, such as Bluetooth® within power class below 10mW.

For EU non-harmonized telecommunications products (if applicable, a 4-digit notified body number is inserted between CE and !). Please refer to the regulatory label provided on the product. The point of contact for regulatory matters is: Hewlett-Packard GmbH, HQ-TRE, Herrenberger Straße 140, 71034 Böblingen, Germany. Disposal of Waste Equipment by Users in Private Households in the European Union This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.

The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product. Japanese Notice Japanese Power Cord Notice Japanese Material Content Declaration A Japanese regulatory requirement, defined by Specification JIS-C-0950, 2008, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006. To view the JIS-C-0950 material declaration for this product, visit [www.hp.com/go/jisc0950](http://www.hp.com/go/jisc0950)

Korean Notice EPA ENERGY STAR Compliance Products marked with the ENERGY STAR® logo on the packaging box qualify with the U.S.

Environmental Protection Agency's ENERGY STAR® guidelines for energy efficiency. Products with the ENERGY STAR® label are designed to use less energy, help you save money on utility bills, and help protect the environment. ENERGY STAR® is a registered trademark owned by the U.S. government. HP

Recycling Program HP offers product end-of-life return programs for HP and other manufacturers' hardware in several geographic areas. The terms and availability of these programs vary by geography because of differences in regulatory requirements and local customer demand. For information on the HP recycling program, refer to the HP Web site at: <http://www.hp.com/recycle>

Republic of Turkey EEE Regulation Republic of Turkey: In conformity with the EEE Regulation. The Table of Toxic and Hazardous Substances/Elements and their Content as required by China's Management Methods for Controlling Pollution by Electronic Information Products Toxic and Hazardous Substances and Elements Part Name Lead (Pb) X X Mercury (Hg) X O Cadmium (Cd) O O Hexavalent Chromium (Cr(VI)) O O Polybrominated biphenyls (PBB) O O Polybrominated diphenyl ethers (PBDE) O O Liquid Crystal Display Panel Chassis/Other O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006. X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006. All parts named in this table with an "X" are in compliance with the European Union's RoHS Legislation "Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment". Note: The referenced

Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity. (Pb) (Hg) X / O X X " 2003 I RoHS 27 X X O (Cd) (Cr(VI)) O O O O (PBB) O O (PBDE) O O SJ/T11363-2006 SJ/T11363-2006 2002/95/EC D Index A adjustments swivel 310 tilt 39 audio and video cables and adapters 36 maintenance cleaning 22 guidelines 22 monitor conditions Auto Adjustment in Progress 47 Check Video Cable 47 Input Signal Out of Range 47 Monitor Going to Sleep 47 No Input Signal 47 OSD Lock-out 47 monitor operation 41 48 monitor setup 31 310 B base unfolding 31 C cable management 39 cleaning 22 connecting audio cable 37 HDMI 36 power cable 38 VGA DVI-D 35 P power cable connecting 38 power saver 48 R regulatory notices C1 C5 F features 11 front panel 43 S safety guidelines 21 precautions 21 setup 31 310 shipping the monitor 51 software and utilities CD 41 46 specifications B1 B6 swivel adjustment 310 H High-Bandwidth Digital Content Protection (HDCP) 37 I installing 31 310 K keyboard parking 310 T technical specifications B1 B6 tilt adjustment 39 troubleshooting A1 A3 M U unpacking 31 V video and audio cables and adapters 36 video input connectors selecting 47 W wall-mounting 32 Part number: 507981-003 .



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