



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ Q1859. You'll find the answers to all your questions on the COMPAQ Q1859 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ Q1859
User guide COMPAQ Q1859
Operating instructions COMPAQ Q1859
Instructions for use COMPAQ Q1859
Instruction manual COMPAQ Q1859

User's Guide

Q1859
Q2009
Q2159



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Manual abstract:

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Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. HP supports lawful use of technology and does not endorse or encourage the use of its products for purposes other than those permitted by copyright law. The information contained herein is subject to change without notice. Notational Conventions The following section describes notational conventions used in this document. Notes, Cautions, and Warnings

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. User's Guide iii iv User's Guide Table of Contents Notational Conventions..

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..... D-1 vi User's Guide 1 Product Features Compaq LCD Monitors The Compaq LCD (liquid crystal display) monitors have an active matrix, thin-film transistor (TFT) screen. This guide discusses the following models: Q1859 LCD monitor Q2009 LCD monitor Q2159 LCD monitor Features Large diagonal display Maximum graphics resolution: Q1859: 1366 x 768 @ 60Hz Q2009: 1600 x 900 @ 60Hz Q2159: 1920 x 1080 @ 60Hz Plus full-screen support for lower resolutions VGA analog video input Fast response time, providing better experience for casual 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 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, French, German, Italian, Spanish, Dutch, Japanese, or Brazilian Portuguese) Built-in stereo speakers, front facing Power Saver to reduce energy consumption Quick View settings display User's Guide 1-1 Product Features Software and utilities CD, containing the following: Drivers Auto adjustment software Documents Adobe® Acrobat® Reader 1-2 User's Guide 2 Safety and Maintenance Guidelines Important Safety Information The power cord is designed for use with your monitor. To use a different cord, use only a power source and connection compatible with this monitor. **WARNING:** Always connect your monitor, the computer, and other equipment to a grounded (earthed) power outlet. To reduce the risk of electric shock or damage to your equipment, do not use devices.

3. 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. 1. Set the monitor screen face down on a flat, soft, protected table or desk surface with the support column overhanging the edge. 2. Hold the base and push it onto the bottom of the support column until it snaps into place. Installing the monitor base User's Guide 3-1 Setting Up the Monitor 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.



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1. Disconnect the power cable and any other cables from the monitor. 2. Place the monitor face down on a flat, protected surface. 3. Release the base from the column by squeezing the two tabs toward each other. Pull the base away from the column as you do so. Bottom view of monitor base showing release tabs (circled) 3-2 User's Guide Setting Up the Monitor 4.

Remove the screws inside the support column as indicated. Remove the screws inside the support column 5. Rock the bottom of the support column until it snaps away from the top portion of the column, which covers the support column mounting bracket. Snapping the bottom portion of the column from the top 6. Slide the top portion of the column up to expose the mounting bracket.

Removing the top portion of the column 7. Remove the four screws that secure the column mounting bracket. User's Guide 3-3 Setting Up the Monitor 8. Slide the column mounting bracket away from the bottom of the monitor. Sliding the column mounting bracket from the monitor 9.

Remove the Compaq logo from the back of monitor to expose the top two threaded holes (A) and (B) for the wall mount bracket. Place the tip of a small, flat blade screwdriver under the logo to pry it up. NOTE: The logo is held in place by rubber cement. A C B D Removing the logo from the back of the monitor Use the four holes (A), (B), (C), and (D) to attach the swing arm or other mounting fixture to the back of the monitor with screws (not supplied). 10. Follow the instructions included with the mounting fixture to ensure that the monitor is safely attached. The four threaded holes that are on the back of the panel are compliant with the VESA standard for mounting flat-panel monitors. 11. Attach a swing arm or other mounting fixture. 3-4 User's Guide Setting Up the Monitor Connecting the VGA (Analog) Cable Use a VGA video cable to connect your Compaq flat-screen monitor to your computer.

Connecting the VGA cable 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. NOTE: If your computer has a DVI connector and no VGA connector, use a DVI-I to VGA adapter to connect your computer to the monitor. Connect the DVI-I to VGA adapter to the DVI connector on the computer graphic card, and connect the VGA cable to the adapter and the monitor. User's Guide 3-5 Setting Up the Monitor 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 VGA cable Description VGA transmits an analog video signal. DVI-I to VGA adapter Connects a VGA monitor to a DVI connector on the back of the computer, TV, or set-top box. DVI-I to VGA cable Connects a VGA monitor to a DVI connector on the back of the computer, TV, or set-top box. Audio Cable Connects the audio output from your computer to the audio input on your monitor.

This enables the built-in speakers to play sound. 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. 3-6 User's Guide Setting Up the Monitor 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 User's Guide 3-7 Setting Up the Monitor 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. WARNING: To prevent injury from electrical shock, you should do one of the following if a properly grounded electrical outlet is not available: (1) You should use an electrical outlet adapter that provides proper grounding. (2) You should have a properly grounded electrical outlet installed. 3-8 User's Guide Setting Up the Monitor Cable Management Your Compaq LCD monitor provides cable management. Cables can be easily routed through the hollow section of the support column and are hidden when the monitor is viewed from the front.

Routing cables through the rear of the support column User's Guide 3-9 Setting Up the Monitor Adjusting the Tilt For optimal viewing, adjust the screen tilt to your own preference, as follows: 1. Face the front of the monitor and hold the base so that you do not topple the monitor while changing the tilt. 2. Adjust the tilt by moving the top edge of the monitor either toward or away from you, without touching the screen. Tilt adjustment 3-10 User's Guide 4 Operating the Monitor CD Software and Utilities The CD that is included with this monitor contains 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. Installing the monitor driver software from the CD To install the monitor driver software from the CD: 1. Insert the CD in your computer CD drive. The CD menu appears. 2.

Select the language. 3. Click Install Monitor Driver Software. 4. Follow the onscreen instructions.

5. Restart the computer. 6. 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.

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. Refer to: <http://www.hp.com/support> 2. Select your country/region. 3. Select Download Drivers and Software.



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Enter the model number of your monitor. The software download pages for your monitor are displayed. 5. Download and install the driver and software files by following the instructions on the download pages. 6. Ensure that your system meets the requirements. User's Guide 4-1 Operating the Monitor Using the Auto Adjustment Function You can easily optimize the screen performance for the VGA input by using the Auto/OK 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 a 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. Allow the monitor to warm up for 20 minutes before adjusting. 2. Press the Auto/OK button on the monitor side 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. Insert the CD in your computer CD drive.

The CD menu displays. 4. Select the language. 5. Select Open Auto Adjustment Software. 6. The setup test pattern displays. Auto adjustment setup test pattern 7. Press the Auto/OK button on the monitor side panel to produce a stable, centered image. 4-2 User's Guide Operating the Monitor Side-Panel Controls Control buttons are located on the right side of the monitor: 1 2 3 4 5 Side-panel control buttons No.

1 Icon Power Description Turns the monitor on or puts it in standby or sleep mode. NOTE: The Power button is located on the top right side of the monitor. 2 3 4 5 Auto/OK /+ / Menu Auto-adjusts the display to the ideal setting when the OSD is not active. / Enters the selected option. Hot key to link to Quick View. / Navigates forward through the OSD menu and increases adjustment levels. Hot key to link to volume level adjustment. / Navigates backward through the OSD menu and decreases adjustment levels. @@1. @@2.

To access the OSD menu, press the Menu button. The OSD Main Menu displays. 3. @@Then press the Auto/OK button to select the highlighted function. @@@@4.

To adjust the scale of a selected item, press the + or - button. 5. Select Save and Return. @@6. Press the Menu button to exit the OSD.

@@@@@@This Save and Return option is active only if you change a menu item. @@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. @@@@Changes to slightly reddish white. @@G -- Sets your own green color levels.

@@Selects the language in which the OSD menu is displayed. The factory default is English. Selects the power-management features of the monitor. Adjusts the volume level. Adjusts the position of the OSD menu on the screen. @@The factory default range is 50. @@The factory default range is 50.

@@@@@@@Select: On Off The factory default is On or Off, depending on the model. User's Guide 4-5 Operating the Monitor Icon Main Menu Options Management (continued) Sub-menu Options Power-On Status Display Description (continued) Displays the operating status of the monitor each time the monitor is powered on. Select the location at which to display the status: Top Middle Bottom Off The factory default is Top or Off, depending on the model. DDC/CI Support Allows the computer to control some OSD menu features such as Brightness, Contrast, and Color Temperature. Select: On Off The factory default is On. Bezel Power LED Sleep Timer Turns the light (LED) in the Power button on and off. When set to off, the light will remain off at all times.

Provides the timer-adjustment menu options: Set Current Time -- Sets the current time in hours and minutes.

Set Sleep Time -- Sets the time you want to place the monitor in sleep mode. Set On Time -- Sets the time you want the monitor to wake up from sleep mode. Timer -- Sets the Sleep Timer feature on or off; the default setting is Off. Sleep Now -- Immediately sets the monitor to enter sleep mode. Information Current Settings Recommended Settings Serial Number Version Backlight Hours Service Support Factory Reset Selects and displays important information about the monitor.

Provides the current input video mode. Provides the recommended resolution mode and refresh rate for the monitor. Reports the serial number of the monitor. The serial number is needed if contacting HP technical support. Reports the firmware version of the monitor. Reports the total hours of backlight operation.

For service support, go to: <http://www.hp.com/support> Returns settings to factory defaults. 4-6 User's Guide Operating the Monitor Identifying Monitor Conditions Special messages appear on the monitor screen for the following monitor conditions: Input Signal Out of Range -- Indicates the monitor does not support the video card's input signal because its resolution or refresh rate are set higher than the monitor supports.

Change your video card settings to a lower resolution or refresh rate. Restart your computer for the new settings to take effect. Monitor Going to Sleep -- Indicates the screen display is entering a sleep mode. The speakers are turned off in sleep mode. Check Video Cable -- Indicates a video input cable is not properly connected to the computer or monitor. OSD Lock-out -- The OSD can be enabled or disabled by pressing and holding the Menu button on the side panel for 10 seconds. If the OSD is locked, the warning message OSD Lock-out appears for 10 seconds. If the OSD is locked, press and hold the Menu button for 10 seconds to unlock the OSD. If the OSD is unlocked, press and hold the Menu button for 10 seconds to lock the OSD. No Input Signal -- Indicates the monitor is not receiving a video signal from the computer on the monitor video input connector.

Check to see if the computer or input signal source is off or in the power-saver mode. Auto Adjustment in Progress -- Indicates the auto adjustment function is active. See "Adjusting Screen Quality" in this chapter. Adjusting Screen Quality The auto adjustment feature automatically fine-tunes the image quality for display size, position, clock, and phase each time a new video mode is displayed.



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For more precise adjustments of VGA input, run the Auto Adjustment software on the CD.

See "Using the Auto Adjustment Function" in this chapter. If you want additional image quality improvement, use the Clock and Clock Phase controls of the monitor to fine tune the image. See "Optimizing Analog Video" in this chapter. Optimizing Analog Video Some monitors contain advanced circuitry that allow the monitor to function as a standard analog monitor. Two controls in the OSD menu can be adjusted to improve analog image performance: Clock --

Increase or decrease the value to minimize any vertical bars or stripes visible on the screen background.

Clock Phase -- Increase or decrease the value to minimize video distortion or video jitter. Use these controls only when the auto adjustment function does not provide a satisfactory monitor image in analog mode. To obtain the best results: 1. Allow the monitor to warm up for 20 minutes before adjusting. 2. Display the adjustment-pattern application provided on the CD. 3. Access the OSD menu, then select Image Control. 4. Set the main Clock settings correctly first, because the Clock Phase settings depend on the main Clock settings.

When adjusting the Clock and Clock Phase values, if the monitor images become distorted, continue adjusting the values until the distortion disappears. To restore the factory settings, access the OSD menu, select Factory Reset, and then select Yes. User's Guide 4-7 Operating the Monitor Power-Saver Feature

When the monitor is in normal operating mode, the Power light is green and the monitor uses the normal watts of power. For power usage, refer to "Technical Specifications" (Appendix B). The monitor also supports a power-saver mode that is controlled by the computer. When the monitor is in the reduced-power state, the monitor screen is blank, the backlight is off, and the Power light is amber. The monitor uses minimum power. When the monitor is "awakened," a brief warm-up period occurs before the monitor returns to normal operating mode. The energy-saving reduced power state activates if the monitor does not detect either the horizontal sync signal or the vertical sync signal. The power-saver feature must be activated on your computer for this feature to work.

Refer to your computer documentation for instructions on setting energy-saver features (sometimes called power-management features). NOTE: The energy-saver feature works only when the monitor is connected to computers that have energy-saver features. 4-8 User's Guide 5 Preparing the Monitor for Shipping Keep the original packing box in a storage area. You may need it later if you move or ship your monitor. WARNING: Before folding the monitor, turn off the monitor power, and disconnect all power, video, and audio cables.

To disconnect power from the equipment, unplug the power cord from the power outlet by grasping the power plug firmly. Never pull on the cord. CAUTION: The screen is fragile. Placing the monitor screen down on a flat, soft area prevents scratches, defacing, or breakage. Avoid applying pressure to the LCD screen; doing so can cause damage.

Preparing the Monitor for Shipping 1. Disconnect the power, video, and audio cables from the monitor. 2. Place the monitor face down on a soft, protected surface. 3. Release the base from the column by squeezing the two tabs toward each other. Pull the base away from the column as you do so. Preparing the monitor for shipping 4. Place the monitor and base in the original packing box. User's Guide 5-1 Preparing the Monitor for Shipping 5-2 User's Guide A Troubleshooting Solving Common Problems The following table lists possible problems, the possible cause of each problem, and the recommended solutions:

Problem	Power LED is not on.
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Solution Make sure the Power button is on, and the power cord is properly connected to a grounded power outlet and to the monitor. Select Management in the OSD menu, and then select Bezel Power LED. Check if the Bezel Power LED option is set to Off and, if so, set to On mode. Screen is blank. Connect the power cord. Turn on the power. Connect the video cable properly. See "Setting Up the Monitor" for more information. Press a key on the keyboard or move the mouse to turn off the screen-blanking utility. 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. Press the Auto/OK button on the monitor side 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. 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 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. The auto adjustment feature might fix this problem. Unable to set the monitor to the optimal resolution. Make sure the graphics card supports the optimal resolution. Make sure the latest supported driver is installed for the graphics card.

For HP and Compaq systems, you can download the latest graphics driver for your system from: www.hp.com/support. For other systems, refer to the Web site for your graphics card. Do the following: Unable to hear audio from built-in speakers. 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 side panel Volume button. Ensure speaker volume is not muted or too low: Click the Windows Vista start button™, Control Panel, and Hardware and Sound. Under Audio Devices and Sound, click Adjust system volume. Under Main Volume, move the slider up. User's Guide A-1 Troubleshooting Problem No Plug and Play. Solution (continued) 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 Compaq monitor drivers are installed. Refer to "Installing Drivers" in the "Operating the Monitor" chapter for more information. Compaq monitor drivers are also available at: <http://www.hp.com/support> Picture bounces, flickers, or wave pattern is present in the picture.



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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. A-2 User's Guide B Technical Specifications All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Compaq LCD Monitors Face treatment: Glare polarizer with hard coating Input Terminals: VGA connector Specifications model Q1859 Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d): Maximum 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 40 watts (W) maximum <2 watts (W) 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 456 x 184 mm) 1366 x 768 @ 60 Hz analog mode 720 x 400 0.

30 x 0.30 mm 24 to 83 kHz 50 to 76 Hz User's Guide B-1 Technical Specifications Specifications (continued) model Q2009 Display Type: Viewable Image Size: Tilt: Dimensions (h x w x d): Maximum 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 (W) maximum <2 watts (W) typical 41o to 104o F (5o to 40o C) 29o to 140o F (20o to 60o C) TFT LCD active matrix 20 in. (50.8 cm) diagonal 5o to +25o 18.9 x 20.6 x 11.4 in. (481 x 523 x 289 mm) 1600 x 900 @ 60 Hz analog mode 720 x 400 0.2768 x 0.2768 mm 24 to 85 kHz 46 to 76 Hz model Q2159 Display Type: Viewable Image Size: Tilt: Maximum Weight (unpacked): Dimensions (h x w x d): Maximum 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 (W) maximum <2 watts (W) 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 5o to +25o 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 720 x 400 0.2480 x 0.2480 mm 24 to 94 kHz 50 to 76 Hz B-2 User's Guide Technical Specifications Preset Video 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, Q1859 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, Q2009 Preset 1 2 3 4 5 6 7 8 Resolution 640 x 480 720 x 400 800 x 600 1024 x 768 1280 x 960 1280 x 1024 1440 x 900 1600 x 900 Horizontal Frequency (kHz) 31.47 31.47 37.88 48.36 60.

00 63.98 55.47 55.54 Vertical Frequency (Hz) 59.94 70.09 60.32 60.00 60.00 60.02 59.90 59.98 Factory Preset Video Input Modes, Q2159 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 55.47 75.00 65.29 67.50 Vertical Frequency (Hz) 59.94 70.09 60.32 60.00 60.00 60.02 59.90 60.00 60.

00 60.00 User's Guide B-3 Technical Specifications LCD Monitor Quality and Pixel Policy Your Compaq 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 your Compaq 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 50 cm (16 inches).

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.



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For more information about your Compaq 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 100-240V, 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. B-4 User's Guide 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. 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. @@@@ Increase the separation between the equipment and the receiver. @@@@ Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For questions regarding your product, contact: Hewlett-Packard Company P. O.

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. User's Guide C-1 Agency Regulatory Notices Materials Disposal This Compaq 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 This product complies with the following EU Directives: Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family. This compliance is indicated by one of the following conformity markings placed on the product: XXXX* This marking is valid for non-Telecom products and for EU harmonized Telecom products (for example, Bluetooth). This marking is valid for EU non-harmonized Telecom products.

*Notified body number (used only if applicable--refer to the product label). Hewlett-Packard GmbH, HQ-TRE, Herrenberger Straße 140, 71034 Böblingen, Germany C-2 User's Guide Agency Regulatory Notices 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, 2005, 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 Korean Notice User's Guide C-3 Agency Regulatory Notices 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> C-4 User's Guide Agency Regulatory Notices 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.



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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 1 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 User's Guide C-5 Agency Regulatory Notices C-6 User's Guide D Index A adjustments tilt 3-10 audio and video cables and adapters 3-6 P power cable connecting 3-8 power saver 4-8 C cable management 3-9 cleaning 2-2 connecting audio cable 3-7 power cable 3-8 VGA 3-5 R regulatory notices C-1 C-5 S safety guidelines 2-1 precautions 2-1 setup 3-1 3-10 shipping the monitor 5-1 side panel 4-2 4-3 software and utilities CD 4-1 specifications B-1 B-4 F features 1-1 I installing 3-1 3-10 T technical specifications B-1 B-4 tilt adjustment 3-10 troubleshooting A-1 A-2 M maintenance cleaning 2-2 guidelines 2-2 monitor conditions Auto Adjustment in Progress 4-7 Check Video Cable 4-7 Input Signal Out of Range 4-7 Monitor Going to Sleep 4-7 No Input Signal 4-7 OSD Lock-out 4-7 monitor operation 4-1 4-8 monitor setup 3-1 3-10 U unpacking 3-1 V video and audio cables and adapters 3-6 W wall-mounting 3-2 User's Guide D-1 Part number: 517198-001 .



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