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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ CQ1859. You'll find the answers to all your questions on the COMPAQ CQ1859 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ CQ1859
User guide COMPAQ CQ1859
Operating instructions COMPAQ CQ1859
Instructions for use COMPAQ CQ1859
Instruction manual COMPAQ CQ1859

CQ1859, CQ1859e, and CQ1859s LCD
Monitors
User Guide



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Manual abstract:

The warranties for Hewlett-Packard products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. This document contains proprietary information that is protected by copyright. @@@@WARNING!
@@@@NOTE: Text set off in this manner provides important supplemental information. ENWW iii iv About This Guide ENWW Table of contents 1 Product Features CQ1859, CQ1859e, and CQ1859s LCD Monitors

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... 30 Appendix D LCD Monitor Quality and Pixel Policy vi ENWW 1 Product Features CQ1859, CQ1859e, and CQ1859s LCD Monitors The LCD (liquid crystal display) monitors have an active matrix, thin-film transistor (TFT) panel. The monitor features include: 47 cm (18.5-inch) diagonal viewable area display with 1366 x 768 resolution, plus full-screen support for lower resolutions; includes custom scaling for maximum image size while preserving original aspect ratio Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side Tilt capability Video signal input to support VGA analog with VGA signal cable provided Internal speakers with audio cable included Plug and play capability if supported by the system Security slot provision on rear of monitor for optional cable lock Cable management feature for placement of cables and cords On-Screen Display (OSD) adjustments in several languages for easy setup and screen optimization Software and documentation CD that includes monitor drivers and product documentation Energy saver feature to meet requirements for reduced power consumption Intelligent Management AssetControl Compliant with European Union CE Directives ENWW CQ1859, CQ1859e, and CQ1859s LCD Monitors 1 2 Safety and Maintenance Guidelines Important Safety Information A power cord is included with the monitor. If another cord is used, use only a power source and connection appropriate for this monitor. For information on the correct power cord set to use with the monitor, refer to the Power Cord Set Requirements on page 28 in Appendix C. WARNING! To reduce the risk of electric shock or damage to the equipment: · Do not disable the power cord grounding feature. The grounding plug is an important safety feature.

· Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times. · Disconnect power from the product by unplugging the power cord from the electrical outlet. For your safety, 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. When unplugging from the electrical outlet, grasp the cord by the plug. To reduce the risk of serious injury, read the Safety and Comfort Guide. It describes proper workstation, setup, posture, and health and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located on the Web at <http://www.hp.com/ergo> and/or on the documentation CD, if one is included with the monitor. CAUTION: For the protection of the monitor, as well as the computer, connect all power cords for the computer and its peripheral devices (such as a monitor, printer, scanner) to some form of surge protection device such as a power strip or Uninterruptible Power Supply (UPS). Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a Damage Replacement Policy so you can replace the cable to the monitor. ENWW Rear Components 5

Connecting the Cables 1.

Place the monitor in a convenient, well-ventilated location near the computer. NOTE: Before connecting the cables, route them through the opening on the monitor's stand, if desired. 2. 3. 4.

Connect one end of the VGA signal cable to the VGA connector on the monitor and connect the other end of the cable to the VGA connector on the computer.

Connect one end of the provided audio cable to the audio connector on the monitor and connect the other end of the cable to an audio output is file is activated from within graphics programs that support this feature. NOTE: The ICM color profile is written in accordance with the International Color Consortium (ICC) Profile Format specification. ENWW Software and Utilities 9 Installing the .INF and .ICM Files After you determine that you need to update, you can install the .INF and .ICM files from the CD or download them. Installing from the CD To install the .INF and .

ICM files on the computer from the CD: 1. 2. 3. 4. 5. Insert the CD in the computer CD-ROM drive. The CD menu is displayed. View the Monitor Driver Software Readme file. Select Install Monitor Driver Software. Follow the on-screen instructions.

Ensure that the proper resolution and refresh rates appear in the Windows Display control panel. NOTE: You may need to install the digitally signed monitor



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INF and .ICM files manually from the CD in the event of an installation error. Refer to the Monitor Driver Software Readme file on the CD. Downloading from the Worldwide Web To download the latest version of .INF and .ICM files from the HP monitors support Web site: 1. 2. 3.

4. Refer to <http://www.hp.com/support> and select the country region. Follow the links for the monitor to the support page and download page. Ensure the system meets the requirements. 2. Allow the monitor to warm up for 20 minutes before adjusting. Press the Auto/OK button on the monitor side panel. 3.

4. 5. 6. Refer to Adjusting the Monitor Settings on page 13 in this chapter. The CD menu is displayed. Select Open Auto-Adjustment Software. The setup test pattern is displayed. If the OSD menu is on, press to select the highlighted menu item. 5 Menu Power LED Opens, selects or exits the OSD menu. Green = Fully powered.

Amber = Sleep mode. Flashing Amber = Sleep Timer mode. NOTE: If there is a problem with the display settings, try resetting the settings to the factory defaults by opening the OSD and selecting Factory Reset from the OSD menu. Using the On-Screen Display Menu Use the On-Screen Display (OSD) to adjust the screen image based on your viewing preferences. To access the OSD, do the following: 1.

2. 4. 5. The factory default range is 90. Adjusts the contrast level of the screen.

The factory default range is 80. Selects the screen color. The factory default is 6500K or Custom Color, depending on the model. Changes to slightly blueish white. Changes to slightly reddish white. It will not reset or affect Custom Color RGB settings. Adjusts the position of the screen image left and right. Adjusts the position of the screen image up and down. Provides a menu for adjusting the on-screen display (OSD) controls. The factory default range is 50.

The factory default range is 50. Adjust to view the background information through the OSD. The range is 5 60 seconds. The factory default is 30 seconds. Select: On Off The factory default is On. Select: On Off The factory default is On. ENWW Adjusting the Monitor Settings 15 Table 4-2 OSD Menu (continued) Icon Main Menu Submenu Mode Display Description Displays the resolution, refresh rate and frequency information on the screen each time the OSD Main Menu is accessed. Select: On Off The factory default is On. Monitor Status Displays the operating status of the monitor each time the monitor is powered on. Select the location to display the status to: Top Middle Bottom Off The factory default is Top.

DDC/CI Support Allows the computer to control some OSD menu features such as brightness, contrast and color temperature. Set to: On Off The factory default is On. Bezel Power LED Turns off the power LED on the side panel of the monitor. The factory default is On. Adjusts the volume of the monitor speakers.

The ranges is 0 100. The factory default setting is 90. Provides the timer adjustment menu options: Language Information 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 Volume Sleep Timer Selects the language in which the OSD menu is displayed.

The factory default is English. Selects and displays important information about the monitor. Current Settings Provides the current input video mode. 16 Chapter 4 Operating the Monitor ENWW Table 4-2 OSD Menu (continued) Icon Main Menu Submenu Recommended Settings Serial Number FW Version Backlight Hours Service Support Factory Reset Exit Description 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. <http://www.hp.com/support>

Returns all OSD menu settings and DDC/CI controls to the factory default settings, except the Language. Exits the OSD menu screen. Optimizing

Digital Conversion Two controls in the on-screen display can be adjusted to improve image performance: Clock and Clock Phase. NOTE: The Clock and Clock Phase controls are adjustable only when using an analog input. These controls are not adjustable for digital inputs. The Clock must first be set correctly since the Clock Phase settings are dependent on the main Clock setting. Use these controls only when the auto-adjustment function does not provide a satisfactory image. Clock--Increases/decreases the value to minimize any vertical bars or stripes visible on the screen background. Clock Phase--Increases/decreases the value to minimize video distortion or video jitter. NOTE: When using the controls, you will obtain the best results by using the auto-adjustment pattern software utility provided on the CD.

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, select Yes from the Factory Reset menu in the on-screen display. Identifying Monitor Conditions Special messages will appear on the monitor screen when identifying the following monitor conditions: Monitor Status--When the monitor is powered on, a Monitor Status message is displayed for five seconds. The message shows the current active input signal, the current preset display resolution, and the recommended preset display resolution. Input Signal Out of Range--Change resolution setting to 1366 x 768 60Hz--Indicates the monitor does not support the input signal because the resolution and/or refresh rate are set higher than the monitor supports.

ENWW Identifying Monitor Conditions 17 No Source Signal--Indicates the monitor is not receiving a video signal from the PC on the monitor video input connector. Check to determine if the PC or input signal source is off or in the power saving mode. Auto Adjustment in Progress--Indicates the auto-adjustment function is active. This also extends the life of the backlight bulbs in the monitor. 2.

3. 4. Scroll down and highlight Management. Press the OK button to select Management. Scroll down and highlight and select Sleep Timer > Set Current Time. NOTE: You must set the current local time before you reset the time for Sleep Time or On Time. Note that the time is displayed in a 24hour clock format. For example, 1:15 p.m. is displayed as 13 hours 15 minutes.

A power failure or loss of power to the monitor will cause the timer to reset to 00:00. If this occurs, you will need to reset the sleep timer mode. 5. 6. Press the OK button once to enter the adjustment mode for hours. Press the - (Minus) or + (Plus) button to adjust the hour.



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18 Chapter 4 Operating the Monitor ENWW 7. 8. 9. Press the OK button again to enter the time for minutes.

Press the - (Minus) or + (Plus) button to adjust the minutes. Press the OK button to lock in the time chosen. 10. After setting the current time, the highlight automatically skips to Set Sleep Time. Repeat steps 6 through 9 to set Sleep Time.

11. If you do not want to set Sleep Time, press the OK button twice, then select Save and Return to exit the menu. 12. After setting Sleep Time, the highlight automatically skips to Set On Time. Repeat steps 6 through 9 to set On Time.

13. Set the Timer mode to On to activate the Sleep Timer settings. 14. When you are finished, select Save and Return to exit the menu. The fifth selection, Sleep Now, turns the monitor backlights off immediately and stays in sleep mode until the next On Time activates or a monitor button is pressed. sRGB Support The monitor is designed to support sRGB for color management, which adapts to the color standards used in the image technology industry. To take advantage of the sRGB support, you will need to change the monitor's color temperature to sRGB and install the sRGB color profile (ICM) file. NOTE: The sRGB color temperature preset will improve the color accuracy of sRGB images on the computer monitor, but some color variation may still occur. Changing the Color Temperature 1. 2.

3. 4. Press the Menu button on the side panel of the monitor to launch the Main Menu of the OSD. Select Color. Select sRGB. Select Save and Return to exit the menu. Installing the sRGB ICM File for Microsoft Windows 2000 and Windows XP NOTE: To complete the following procedure, you must be logged in as an administrator or a member of the administrator's group. If the computer is connected to a network, network policy settings may prevent you from completing this procedure. The sRGB ICM file does not support Windows 95 and Windows NT operating systems. 1.

2. 3. 4. Click the Display icon in the Control Panel. In the Display Properties windows, select the Settings tab, then click the Advanced button. Select the Color Management tab, then click the Add button to open the Add Profile Association dialog box. Select the sRGB Color Space Profile.icm file, then click the Add button ENWW sRGB Support 19 5. 6. To activate a color profile for the monitor, you must set it as the Default Monitor Profile. Select sRGB Color Space Profile, then click Set as Default button. Click Apply or OK. Installing the sRGB ICM File for Microsoft Windows Vista 1. 2. 3. 4. 5. 6. 7. 8.

9. Click Appearance and Personalization icon in the Control Panel. Click Personalization. Click Display Settings. Click the Advanced Settings button. Click the Color Management tab, then click the Color Management button. Click the Advanced tab, then click the Change System Defaults button. On the Devices tab, click the Add button. Select the RGB Color Space Profile.icm file, then click the OK button.

To activate a color profile for the monitor, you must set it as the Default Monitor Profile. Select sRGB Color Space Profile, then click the Set as Default button. 20 Chapter 4 Operating the Monitor ENWW A Troubleshooting Solving Common Problems The following table lists possible problems, the possible cause of each problem, and the recommended solutions. Problem Screen is blank. Possible Cause Power cord is disconnected.

Power button on side panel of the monitor is turned off. Video cable is improperly connected. Screen blanking is active. Screen image appears distorted; text is fuzzy or blurred; image quality is degraded. Image appears blurred, indistinct, or too dark.

The computer's graphics card resolution is set lower or higher than the monitor's native resolution. Brightness and contrast are too low. Solution Connect the power cord. Press the side panel power button. Connect the video cable properly. Refer to Chapter 3, Setting Up the Monitor on page 4 for more information.

Press any key on the keyboard or move the mouse to inactivate the screen blanking utility. Set the computer's display resolution to the same mode as the monitor's recommended native screen resolution to provide the best picture quality. Press the Auto/OK button on the 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 as needed.

Press the Menu button to access the OSD menu. Select Image Control/Horizontal Position or Vertical Position to adjust the horizontal or vertical position of the image. Connect the video cable between the computer and monitor. Be sure that the computer power is off while connecting the video cable. Restart the computer and enter Safe Mode. Change the settings to a supported setting (see Recognizing Preset Display Resolutions on page 24). Restart the computer so that the new settings take effect. In the monitor's OSD menu, select Management > Power Saver. The control should be set to On to allow the monitor to enter into low-power modes. Image is not centered Position may need adjustment.

Check Video Cable is displayed on screen. Input Signal Out of Range. Change Settings to 1366 x 768 @ 60Hz is displayed on screen. Monitor video cable is disconnected. Video resolution and/or refresh rate are set higher than what the monitor supports.

The monitor is off but it did not seem to The monitor's power saving enter into a low-power sleep mode. control is disabled. ENWW Solving Common Problems 21 Online Technical Support For the online access to technical support information, self-solve tools, online assistance, community forums of IT experts, broad multivendor knowledge base, monitoring and diagnostic tools, go to <http://www.hp.com/support> Preparing to Call Technical Support If you cannot solve a problem using the troubleshooting tips in this section, you may need to call technical support.

Have the following information available when you call: Monitor model number Monitor serial number Purchase date on invoice Conditions under which the problem occurred Error messages received Hardware configuration Name and version of the hardware and software you are using 22 Appendix A

Troubleshooting ENWW B Technical Specifications NOTE: All performance specifications are provided by the component manufacturers. Performance specifications represent the highest specification of all HP's component manufacturers' typical level specifications for performance and actual performance may vary either higher or lower. CQ1859, CQ1859e, and CQ1859s Models Table B-1 Specifications Display Type Viewable Image Size Speakers Tilt Maximum Weight (Unpacked) Dimensions (includes base at 10° tilt) Height Depth Width Maximum Graphic Resolution Optimum Graphic Resolution Text Mode Dot Pitch Pixels Per Inch Horizontal Frequency Vertical Refresh Rate Environmental Requirements Temperature Operating Temperature Storage Temperature Relative Humidity Power Source 5 to 35° C -20 to 60° C 20 to 80% 100 240 VAC 50/60 Hz 41 to 95° F -4 to 140° F 30.



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24 cm 13.09 cm 45.25 cm 1366 x 768 (60 Hz) analog input 1366 x 768 (60 Hz) analog input 720 x 400 0.10 (H) x 0.30 (W) mm 85 PPI 24 to 83 kHz 50 to 76 Hz 11.91 inches 5.15 inches 17.

81 inches 47 cm wide screen TFT LCD 47 cm diagonal 1 watt per channel 10° to 30° 2.9 kg 6.39 lbs. 18.5 inch diagonal 18.5 inches wide screen ENWW CQ1859, CQ1859e, and CQ1859s Models 23 Table B-1 Specifications (continued) Altitude: Operating Storage Power Consumption (maximum) Input Terminal 0 to 3657.6 m 0 to 12192 m 30 watts One VGA connector with cable included 0 to 12,000 feet 0 to 40,000 feet Recognizing Preset Display Resolutions The display resolutions listed below are the most commonly used modes and are set as factory defaults. This monitor automatically recognizes these preset modes and they will appear properly sized and centered on the screen. CQ1859, CQ1859e, and CQ1859s Models Table B-2 Factory Preset Modes Preset 1 2 3 4 5 6 7 Pixel Format 640 x 480 720 x 400 800 x 600 1024 x 768 1280 x 960 1280 x 1024 1366 x 768 Horiz Freq (kHz) 31.469 31.469 37.879 48.363 60.00 63.98 47.712 Vert Freq (Hz) 59.940 70.087 60.317 60.004 60.000 59.79

Entering User Modes The video controller signal may occasionally call for a mode that is not preset if: You are not using a standard graphics adapter. You are not using a preset mode. It this occurs, you may need to readjust the parameters of the monitor screen by using the on-screen display. Your changes can be made to any or all of these modes and saved in memory. The monitor automatically stores the new setting, then recognizes the new mode just as it does a preset mode. In addition to the factory preset modes, there are 10 user modes that can be entered and stored. Energy Saver Feature When the monitor is in its normal operating mode, the monitor uses less than 28 watts. The monitor also supports a reduced power state.

The reduced power state will be entered into if the monitor detects the absence of either the horizontal sync signal and/or the vertical sync signal. Upon detecting the absence of these signals, the monitor screen is blanked, the backlight is turned off, and the power light is turned amber. When the monitor is in the reduced power state, the monitor will utilize 24 Appendix B Technical Specifications ENWW less than 2 watts of power. There is a brief warm up period before the monitor will return to its normal operating mode. Refer to the computer manual for instructions on setting energy saver features (sometimes called power management features). NOTE: The above power saver feature only works when connected to computers that have energy saver features. By selecting the settings in the monitor's Energy Saver utility, you can also program the monitor to enter into the reduced power state at a predetermined time. When the monitor's Energy Saver utility causes the monitor to enter the reduced power state, the power light blinks amber. ENWW Energy Saver Feature 25 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. 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. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

@@Operation is subject to the following two conditions: 1. 2. This device may not cause harmful interference. @@O. @@O.

@@This compliance is indicated by the following conformity marking placed on the product: This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth) This marking is valid for EU nonharmonized Telecom products. *Notified body number (used only if applicable -- refer to the product label). ENWW Canadian Notice 27 Hewlett-Packard GmbH, HQ-TRE, Herrenberger Strasse 140, 71034 Boeblingen, Germany German Ergonomics Notice HP products which bear the "GS" approval mark, when forming part of a system comprising HP brand computers, keyboards and monitors that bear the "GS" approval mark, meet the applicable ergonomic requirements. The installation guides included with the products provide configuration information. Japanese Notice Korean Notice Power Cord Set Requirements The monitor power supply is provided with Automatic Line Switching (ALS). @@@@The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wire must be a minimum of 0.75 mm² or 18 AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact an authorized HP 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. Japanese Power Cord Requirements For use in Japan, use only the power cord received with this product. CAUTION: Do not use the power cord received with this product on any other products. 28 Appendix C Agency Regulatory Notices ENWW Product Environmental Notices 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 the local authorities or the Electronic Industries Alliance (EIA) <http://www.eiae.org>. Disposal of Waste Equipment by Users in Private Household in the European Union This symbol on the product or on its packaging indicates that this product must not be disposed of with your 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 or 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.



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For more information about where you can drop off your waste equipment for recycling, please contact the local city office, the household waste disposal service or the shop where you purchased the product. 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 Council). A chemical information report for this product can be found at <http://www.hp.com/go/reach>.

HP Recycling Program HP encourages customers to recycle used electronic hardware, HP original print cartridges, and rechargeable batteries. For more information about recycling programs, go to <http://www.hp.com/recycle>. Restriction of Hazardous Substances (RoHS) 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 <http://www.hp.com/go/jisc0950>. ENWW Product Environmental Notices 29 11363-2006 11363-2006 Turkey EEE Regulation In Conformity with the EEE Regulation EEE Yönetmeliine Uygundur 30 Appendix C Agency Regulatory Notices ENWW D LCD Monitor Quality and Pixel Policy The TFT monitor uses high-precision technology, manufactured according to HP standards, to 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. These imperfections are caused by one or more defective pixels or sub-pixels. A pixel consists of one red, one green, and one blue sub-pixel. 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 sub-pixel (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, in normal operating mode at a supported resolution and refresh rate, from a distance of approximately 50 cm (20 in). HP expects that, over time, the industry will continue to improve its ability to produce LCDs with fewer cosmetic imperfections and HP will adjust guidelines as improvements are made. ENWW 31 .



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