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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ MP3220. You'll find the answers to all your questions on the COMPAQ MP3220 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ MP3220
User guide COMPAQ MP3220
Operating instructions COMPAQ MP3220
Instructions for use COMPAQ MP3220
Instruction manual COMPAQ MP3220

hp
mp3220 series
digital projector



user's guide



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Manual abstract:

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Symbol Item Projector Carrying case USB cable VGA cable Remote control Function Displays images.



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Carries and protects projector. Connects to computer USB input.

Connects to computer video output. Control projector. 1 2 3 4 5 6 7 8 Quick Setup Guide, warranty, Provide documentation to help get started support, and port activation and find support. documentation Documentation CD Power cord Contains user's guide and other documentation. Connects projector to power source.

8 User's Guide Setting Up Identifying Common Features This section identifies common features and functions of the projector. "Projector at a glance" on page 10 "Projector buttons and lights" on page 11 "Back panel" on page 12 "Remote control" on page 13 "Accessories" on page 14 User's Guide 9 Setting Up Projector at a glance 2 3 4 5 1 6 7 Identifying the projector Symbol Item Function Connects power cord to projector. Contains buttons and lights.

Enlarges picture size 100/120%. Focuses at distances of 1.

2 to 12 m (4 to 40 ft). Adjusts the height of the picture. Receives signals from the remote control. Protects lens. 1 2 3 4 5 6 7 Power cord socket Button panel Zoom ring Focus ring Height adjustment button Receiver for remote control Lens cover 10 User's Guide Setting Up Projector buttons and lights 1 2 3 4 5 6 DXWR VQF EDFN 8 7 9 Identifying buttons and lights on the projector Symbol Item Function Turns the projector on or off. Change projector settings using the on-screen menu. Resynchronize 1.62.0 m 2.42.

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012.0 m 11.812.0 m 16 User's Guide Setting Up If you do not want to use the distance table, you can use the following equations to help determine where to install the projector relative to the screen. Calculating projection dimensions distance from lens to screen = $A \times \text{width of screen}$ minimum and maximum distance from screen = $B \text{ width of screen} = 0$.

$8 \times \text{diagonal of screen}$ (for 4:3 screen) projector lens below bottom of screen = $C \times \text{width of screen}$ (for 4:3 screen) $A = 2.0$ to 2.4 $B = 1.2$ to 12 m (4 to 40 ft) $C = 0.11$ to 0.42 To set up on a table 1. Place the projector on a stable platform located 1.2 to 12 m (4 to 40 ft) in front of the screen. Ideally, the platform should be lower than the bottom of the screen. 2.

Connect one end of the power cord to the side of the projector and the other end to an electrical outlet. 3. When you first turn on the projector, if the image is upside-down or backward, you should change a menu setting. Open the on-screen menu (see "To change settings using the on-screen menu" on page 37) and select Setup > Projector position. Then choose Front Table from the drop-down list--this is the default setting. If you want to permanently install the projector on the ceiling or behind the screen, see "Installing the Projector" on page 49. User's Guide 17 Setting Up To connect power Connect one end of the power cord to the side of the projector 1 and the other end to an electrical outlet 2. 2 1 18 User's Guide Setting Up To connect a computer 1. Connect the VGA cable between the VGA port on the projector 1 and the VGA port on the computer 2. 2.

(Optional) To allow the remote control to function as the computer mouse, connect the USB cable between the USB port on the projector 3 and the USB port on the computer 4. 3. (Optional) To get audio, connect a mini-phone audio cable (not provided) between the audio port on the projector 5 and the computer 6.

1 9*\$ LQ 6 2 4 5 3 in S User's Guide 19 Setting Up To connect a handheld organizer 1. Be sure the handheld organizer has a VGA-out port.

If necessary, install a VGA-out accessory card into the organizer. with Not all handhelds come Card VGA-out ports. For example, the iPAQ Pocket PC requires a VGA-out PC with 15-pin connector. 2. Connect the VGA cable between the VGA port on the projector 1 and the VGA-out PC Card 2 on the organizer.

2 1 L 9*\$ Q 20 User's Guide Setting Up To connect video sources If you have a SCART video device, you will need an adapter (available from HP) to connect the device to the projector. S-video connection Many DVD players and VCRs have S-video output. 1. Connect an S-video cable (not provided) between the S-video port on the projector 1 and the video device 2. 2. (Optional) To get audio, connect a mini-phone audio cable (not provided) between the audio port on the projector 3 and the video device 4. If the video device has RCA audio connectors, use a mini-phone to RCA adapter or cable. 4 2 1 3 in S User's Guide 21 Setting Up Composite video connection Many VCRs and other video equipment have composite video output, a single RCA video output connector. 1. Connect a composite video cable (RCA connector) (not provided) between the composite video port on the projector 1 and the RCA video port on the video device 2.

2. (Optional) To get audio, connect a mini-phone audio cable (not provided) between the audio port on the projector 3 and the video device 4. If the video device has RCA audio connectors, use a mini-phone to RCA adapter or cable. 4 3 1 S in 2 22 User's Guide Setting Up Component video connection Many DVD players and other video equipment have component-video output, three RCA connectors labeled "Y,Pb,Pr", "R,G,B", or similar. 1. Connect a VGA-to-component video cable (available from HP) between the VGA port on the projector 1 and the three RCA component-video connectors on the video device 2. 2. (Optional) To get audio, connect a mini-phone audio cable (not provided) between the audio port on the projector 3 and the video device 4. If the video device has RCA audio connectors, use a mini-phone to RCA adapter or cable. 2 4 1 L 9*\$ Q 3 S in in User's Guide 23 Setting Up Turning On and Off This section provides instructions on turning the projector on and off.

"To turn the projector on" on page 24 "To turn the projector off" on page 25 To turn the projector on 1. Be sure the power cord is connected. 2. Open the lens cover 1 by rotating it. 3.

Press the power button 2 on top of the projector, or press the power button on the remote control. 2 1 4. Connect and power on the source, such as computer, handheld organizer, or DVD player. See "Setting Up the Projector" on page 15 for more information. 24 User's Guide Setting Up To turn the projector off 1. Press the power button on the projector or remote control to turn off the projector. The power button blinks during the cool-down period, then the projector turns off. 2. You can disconnect video and audio equipment from the projector during the cool-down period, but not the power cord. 3. If you must unplug or remove the projector, wait until the power light stops blinking, then unplug the power cord.



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has cooled down (the **CAUTION:** Do not disconnect power until the projector might shorten the life of the lamp and power button stops blinking. Otherwise, of the lamp. If you try to turn on the projector again during the cool-down period, it does not turn on. Wait until the cool-down period ends and the power button stops blinking.

User's Guide 25 Setting Up Making Basic Adjustments This section provides instructions on making basic adjustments to the projector. "To aim the projector" on page 26 "To adjust the focus and zoom" on page 27 To aim the projector To raise the projected picture on the screen, press the height adjustment button 1 and lift the front of the projector to the desired display angle 2. Release the button to lock the adjustment. To lower the projected picture, press the height adjustment button while lowering the front of the projector. Release the button to lock the adjustment. To store the projector, press the height adjustment button and lower the projector fully, then release the button. 1 2 When you tilt the projector up or down, the sides of the picture might become slanted. To adjust the picture so the sides are vertical, see "To adjust a slanted picture" on page 33. If the picture is not level on the screen, screw the adjustable back foot in or out to level the projector. 26 **User's Guide Setting Up To adjust the focus and zoom** 1.

Rotate the focus ring until the image becomes clear. The projector can be focused at distances of 1.2 to 12 m (4 to 40 ft). 2. Rotate the zoom ring to adjust the picture size from 100 to 120%.

If the picture does not fit the screen, you might have to move the projector closer to the screen. **User's Guide 27 Setting Up 28 User's Guide 2 Giving Presentations** The chapter explains how to give presentations with the projector. "Using the Remote Control" on page 29 "Showing Presentations" on page 31 Using the Remote Control 6 5 7 5 2 4 3 2 1 8 9 To turn the projector on or off, press the power button 7. To hide or unhide the projected picture, press the hide button 6. To switch to the next connected input source, press the source button 3.

User's Guide 29 Giving Presentations To operate as a mouse on a computer, press the edge of the mouse pad 4 in the direction you want the pointer to move, and press the left-click 5 or right-click 5 button. This feature requires a USB connection between the projector and computer. To control page-up and page-down on a computer, press the page-up and page-down buttons 2. This feature requires a USB connection between the projector and computer. To optimize the picture for the type of input signal, press the picture mode / button. This changes between adjustments for video input and for data input. To change projector settings using the on-screen menu, press enter and use the navigation buttons to make the changes. See "Using the On-Screen Menu" on page 36 for more details. To exit from any on-screen menu or adjustment, press the back To adjust synchronization, press the auto sync button. button.

within From or back a distance of 9 m (30 ft), aim the remote control at the screen or at the front of the projector. 30 **User's Guide Giving Presentations Showing Presentations** This section describes several things you can do during presentations. "To present from a computer" on page 31 "To change the source" on page 32 "To hide or show the display" on page 32 To present from a computer 1. Be sure the computer is connected to the projector. See "To connect a computer" on page 19 for more information. 2. Be sure the computer and the projector are on. See "To turn the projector on" on page 24 for more information. on screen, you might have to press a If the computer display is not projected F5) the turn on the computer's video port. See function key (such as Fn F4 or Fn + to the video port card shipped with the projector for more information.

3. If you want to adjust the projected image, see "Adjusting the Picture and Sound" on page 33. 4. You can use the remote control to enhance your presentation. For more information, see "Using the Remote Control" on page 29. To page through a presentation, press the page-up buttons. or page-down To move the mouse pointer, press the edge of the mouse pad in the direction you want the pointer to move. the mouse page-up or the remote For the screen and the front or back page-down operations, aim distance of 9 control at at of the projector from within a m (30 ft). These operations require a USB connection from the projector to the computer. **User's Guide 31 Giving Presentations To change the source** To change the source, either: Press the source button on the projector or remote control.

Open the on-screen menu, go to Select input and select the port to which the input source is connected. To hide or show the display You can hide the display from your audience temporarily. Press the hide button on the remote control. (If you press the hide button again within 5 seconds, the display becomes completely blank, without the reminder how to show the display again.) Open the on-screen menu and select Quick choice > Hide. The screen remains blank until you press the hide button again or any other button on the projector or remote control. If you are using can press the B key or the W key hide the display. Microsoft PowerPoint, you until also press the B key or the W key to The screen remains blank you again. 32 **User's Guide 3 Adjusting the Projector** This chapter describes how to make adjustments to the projector. "Adjusting the Picture and Sound" on page 33 "Using the On-Screen Menu" on page 36 **Adjusting the Picture and Sound** This section provides the following instructions on adjusting the picture and sound.

"To adjust a slanted picture" on page 33 "To adjust the image according to the type of picture" on page 34 "To adjust other image settings" on page 34 "To adjust the audio" on page 34 "To adjust the projector setup" on page 35 To adjust a slanted picture If the picture has slanted sides on the screen, you can straighten them. This is done by making the top or bottom shorter until the sides are straight. 1. Open the on-screen menu and select Quick choice > Keystone. 2. Adjust the keystone setting as needed using the menu buttons on the projector or remote control: If the top of the picture is too wide or too narrow, press left until the width is corrected. or right If one side of the picture is too tall or too short, move the projector until it is straight in front of the screen, not off to one side. button to save the settings. 3.



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Press the back User's Guide 33 Adjusting the Projector To adjust the image according to the type of picture Use the picture mode buttons on the projector or the remote control to optimize the image.

To optimize the picture for data presentations, press the graphics projector. The graphics button turns on. To optimize the picture for video images, press the video projector. The video button turns on. To switch between these settings, press the picture mode remote control.

1. Open the on-screen menu and select Adjust picture. 2. Change the picture adjustments as needed.

From the Adjust picture menu, you can change basic and advanced picture options, such as brightness, contrast, aspect ratio, and keystone correction. To get descriptions for all available picture adjustments, see "Adjust picture menu" on page 40. To exit from any on-screen menu or adjustment, press the back To adjust the audio 1. Open the on-screen menu and select Quick choice. 2. Set the audio adjustments. From the Quick choice menu, you can adjust mute and volume. button. 34 User's Guide Adjusting the Projector To adjust the projector setup 1. Open the on-screen menu and select Setup.

2. Set the setup adjustments as needed. From the Setup menu, you can select settings such as menu language, projector position, and lamp saver mode. To get descriptions for all available setup adjustments, see "Setup menu" on page 42. User's Guide 35 Adjusting the Projector Using the On-Screen Menu This section explains how to navigate the on-screen menu and provides function definitions. The tables in this section describe all the functions available in the on-screen menu for the firmware version at publication. If your firmware is a different version, some menus might differ from those shown. "To change settings using the on-screen menu" on page 37 "Quick choice menu" on page 38 "Select input menu" on page 39 "Adjust picture menu" on page 40 "Setup menu" on page 42 "Help menu" on page 42 button. To exit from any on-screen menu or adjustment, press the back 36 User's Guide Adjusting the Projector To change settings using the on-screen menu You can change the on-screen menu settings with either the buttons on the projector or on the remote control.

SCREENSHOT DXWR \AQF 1.

Press enter on the projector or the remote control to open the on-screen menu. 2. Press up or down to highlight the desired menu, and press right select the highlighted menu. to 3. Press up or down to highlight the desired parameter, and press enter to select the highlighted option.

4. Press left or right to select the desired setting. For certain settings, you see a different display while making the change. 5. Press enter or other indicated button to return to the menu.

6. To go to a different menu, press left and select the menu. button. 7. To close the on-screen menu, press the back If nothing occurs for a period of time, the on-screen menu closes. To change the amount of time until the on-screen menu closes, open the on-screen menu and select Setup > Timeout for menu. adjustments, may want related settings. When you make certainincludes a hintyou moving to to change severalyou can press up If a setting adjustment for related settings, or down to quickly move to another setting and adjust it. User's Guide EDFN 37 Adjusting the Projector Quick choice menu Quick choice Keystone Reset keystone Next input Picture mode Corrects the slanted sides of an image. Resets keystone correction to zero.

Searches for the next available signal from an input source. Adjusts the color settings for the type of picture. You can optimize the picture for computer presentations or video output. The remote control and projector have buttons to change the picture mode. Brightens or darkens the image. Sets difference between light and dark areas. Removes all images from the screen. Stops audio output. Adjusts the volume. Brightness Contrast Hide Mute Volume 38 User's Guide Adjusting the Projector Select input menu For a visual aid, see "Back panel" on page 12.

Select input VGA Shows the input to the VGA port. This usually connects to a computer, although it can also connect to a component-video device. This input is normally considered a graphics input. Shows the input to the yellow composite port (the input to the left of the S-video port on the back panel). The port usually connects to a TV or VCR.

This input is normally considered a video input. Shows the input to the S-video port. This usually connects to a video device, such as a VCR, camcorder, or DVD player. This connection is normally considered a video input. Composite video S-video Auto-scan sources User's Guide 39 Adjusting the Projector Adjust picture menu Adjust picture Picture mode Adjusts the color settings for the type of picture.

You can optimize the picture for computer presentations or video output. The remote control and projector have buttons to change the picture mode. Changes settings that define the current picture mode. Sets the brightness of white areas. Refines the color, lightness, and other characteristics of the picture. Shifts colors toward red or blue. Selects the proportions of the image that is not automatically corrected by the projector. · To automatically adapt to most inputs, select Best Fit. · To stretch the picture to cover the entire projection area, select Fill. · To show each picture dot as one projected dot, select 1-to-1.

If the input source is a widescreen device, go to Adjust picture > Shape settings > Widescreen input. Reset this picture mode Color settings... Brightness Contrast Sharpness Color saturation Resets the current picture mode to its default settings. Adjusts the picture and colors. Brightens or darkens the image. Sets the difference between light and dark areas. Sharpens or softens the image. Adjusts the intensity of colors.

Adjust picture mode... @@Adjusts the amount of red in the picture. Adjusts the amount of green in the picture.

Adjusts the amount of blue in the picture. @@You can override the selection made by the projector. Resets these color settings to their default settings.

Adjusts the shape of the picture. Corrects the slanted sides of an image.

Resets keystone correction to zero. Sets whether a widescreen (16:9) input device is in use. Adjusts settings for the VGA input port. Resynchronizes the projector to the input signal from a computer. This can compensate for any change in the signal. @@Synchronizes the projector to a computer graphics card. Shifts the image up or down within the projection area. Shifts the image left or right within the projection area. @@Keystone Reset keystone Widescreen input VGA settings.



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@@Lamp saver Projector position Selects the language for the menus. Sets a lower power level for the lamp. @@Inverts or reverses the image accordingly. @@@@For a new lamp, resets hours of use. @@Diagnostics... @@@@Wipe the lens in a single direction with a clean, dry cloth. Do not wipe back and forth across the lens.

If the cloth is dirty or smears the lens, wash the cloth. @@Cleaners Do not might damage the lens. @@Chemicals on the cloth might damage the surface of the lens. @@@@ The lamp contains a small amount of mercury. @@@@ Turn off the projector and allow it to cool for 30 minutes.

2. @@3. Loosen the two screws on the lamp module and pull out the module. 4. Insert the lamp module and tighten the two screws.

5. Install the cover and tighten the two screws. 6. Turn on the projector. @@7. Open the on-screen menu and select Setup > Reset lamp hours. User's Guide 45 Maintaining the Projector To replace the battery in the remote control 1. Pull out the battery holder. 2. Insert the new battery in the holder.

3. Push the holder into the remote control. 1 2 3 When discarding old batteries, contact your local waste-disposal provider regarding local restrictions on the disposal or recycling of batteries. 46 User's Guide Maintaining the Projector Upgrading the Projector To update the firmware HP might periodically release updated versions of the projector firmware to enhance the projector performance. The projector firmware version is shown in the on-screen menu at Help. Check for updated versions at http://www.hp.com/go/proj_firmware. USB method 1. On a computer with a USB port, go to the HP projector upgrade website (see introduction for this section) and download the latest file intended for a USB upgrade.

2. Connect the USB cable between the USB port on the projector and the USB port on the computer. 3. On the computer, run the file you downloaded by double-clicking the file. Follow the on-screen instructions.

User's Guide 47 Maintaining the Projector 48 User's Guide 5 Installing Permanently This chapter explains how to permanently install the digital projector. Installing the Projector This section provides instructions on how to permanently install the projector. "To install on a table" on page 49 "To install on the ceiling" on page 50 "To install for rear projection" on page 52 "To mount the projector on a tripod" on page 53 "To lock the projector" on page 53 To install on a table This installation is covered in detail in Chapter 1. See "Setting Up the Projector" on page 15 for more information. User's Guide 49 Installing Permanently To install on the ceiling minimize the risk injury Å WARNING: To that a professionalofinstallerfrom improperly installed equipment, it is recommended performs the ceiling installation.

actual projector Thethe same. and mounting plate differ from those shown below, but the steps are 1. Attach the mounting plate to the bottom of the projector. The pointed part of the hole in the bracket faces the back of the projector. See the instructions that came with the ceiling mount. 2. Attach the ceiling-mount bracket to the ceiling, and firmly secure with three or four screws capable of holding 9 kg (20 lb). The ceiling-mount bracket must be located 1.2 to 12 m (4 to 40 ft) in front of the screen. See the table in "Setting Up the Projector" on page 15.

50 User's Guide Installing Permanently 3. With the projector lens aiming away from the screen, insert the mounting plate onto the bracket so the tabs engage, then pivot the projector so it aims forward. Tighten the rear thumbscrew fully, then tighten the two other thumbscrews. 4. Adjust the on-screen menu to match your settings. Open the on-screen menu and select Setup > Projector position. Then select Front Ceiling from the drop-down list. User's Guide 51 Installing Permanently If you do not use an HP ceiling mount, mount the projector according to the following dimensions: X = 82 mm (3.23 in.) Y = 55 mm (2.17 in.) Z = 110 mm (4.33 in.) Thread size = M3 To install for rear projection 1. Place the projector 1.

2 to 12 m (4 to 40 ft) behind a translucent screen that is designed for rear projection. See "To set up on a table" on page 17 or "To install on the ceiling" on page 50 for more instructions. 2. Open the on-screen menu and select Setup > Projector position. Then select Rear Table or Rear Ceiling from the drop-down list.

52 User's Guide Installing Permanently To mount the projector on a tripod The projector includes standard tripod mount on the bottom of the projector. This allows the projector to be mounted on tripods readily available at camera and other electronic stores. Å CAUTION: should be capable of supporting a weight of at least 5 lb. Refer to the The tripod owner's manual that came with your tripod for more information. Do not overtighten the tripod mount screw. Doing so could strip the screw and cause the projector to fall off the tripod. To lock the projector The projector includes a built-in slot to secure the projector with a cable and a lock (such as the Kensington MicroSaver lock system, available at many computer stores). 1. Wrap the cable around a secure object, such as a table leg. Loop the cable to create a slip knot around the stationary object, and be sure it cannot slip off.

2. Insert the lock 1 into the hole and twist the key 2. 1 2 User's Guide 53 Installing Permanently 54 User's Guide 6 Fixing Problems This chapter describes potential problems and offers suggestions to help correct them. "Troubleshooting Suggestions" on page 55 "Testing the Projector" on page 63 Troubleshooting Suggestions To use this section, find the problem statement that is closest to your problem, then try each bulleted item one at a time until your problem is fixed. If the suggestions do not solve your problem, contact HP. See the Support Guide included with the projector. "Start-up problems" on page 56 "Picture problems" on page 57 "Sound problems" on page 61 "Interruption problems" on page 61 "Remote control problems" on page 62 User's Guide 55 Fixing Problems Start-up problems If no lights or sounds turn on: Be sure that the power cable is securely connected to the projector and the other end is plugged into an outlet with power. Press the power button again. If nothing is projected but the projector seems to start up: Be sure the lens cover is open. If the lamp indicator is on or blinking, unplug the projector after it cools down.

Remove and reinstall the lamp module. If this does not fix the problem, install a new lamp. If the temperature indicator is on or blinking, turn off the projector and allow it to cool before restarting it.



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If the warning light turns on or blinks again, contact HP for assistance. If the projector makes a "ticking" sound, if the projector lamp does not turn on, and if the lamp indicator is on or blinking: The projector lamp is too hot to light.

Turn off the projector and wait for it to cool before turning it on again. If the lamp indicator is on or blinking, unplug the projector after it cools down.

Remove and reinstall the lamp module. If this does not fix the problem, install a new lamp. The projector lamp has reached the end of its life.

Replace the lamp. 56 User's Guide Fixing Problems Picture problems If the image is not displayed on the screen, but the HP startup screen is displayed: Press the source button on the projector or remote control. Turn off or disable the notebook or desktop computer screen saver function. For a computer connection, ensure your notebook computer's external video port is turned on. See the video port card shipped with the projector. On some notebooks, for example, press the Fn + F4 function keys to turn on the external video port. Verify that the right input source is connected. Open the on-screen menu and go to Select input. Then set the correct input port where the equipment is connected. Verify that auto search is enabled.

Open the on-screen menu and go to Select input > Auto-scan sources. If the wrong input source is displayed: Press the source button on the projector or the remote control to select another active input source. Verify that the right input source is connected. Open the on-screen menu and go to Select input. Then set the correct input source. Verify that the projector is enabled for auto-searching. Open the on-screen menu and go to Select input > Auto-scan sources. If the input source might turn off and on, open the on-screen menu and go to Select input. Set Auto-scan sources to Off and select the correct input source. User's Guide 57 Fixing Problems If the image is out of focus: Be sure the lens cover is open.

While displaying the on-screen menu, adjust the focus ring. (The image size should not change; if it does, you are adjusting the zoom not the focus.) Ensure the projection screen is 1.2 to 12 m (4 to 40 ft) from the projector. For a computer connection, set the display resolution on the computer to 1024 x 768 pixels. If the computer has multiple monitors, adjust the resolution of the monitor assigned to the projector. Check the projection lens to see if it needs cleaning. If an upside-down or reversed image is displayed: The projector has been set to the wrong position setting. Open the on-screen menu, select Setup > Projector position, and select the correct setting. If the image is too small or too large: Adjust the zoom ring on top of the projector.

Be sure the projector is 1.2 to 12 m (4 to 40 ft) from the projection screen. Open the on-screen menu and select Adjust picture > Adjust picture mode > Aspect ratio. Try the different settings. For a wide-screen picture, open the on-screen menu and select Adjust picture > Shape settings and try setting Widescreen input to Yes. If the image has slanted sides: As much as possible, reposition the projector so that it is centered on the screen and below the bottom or above the top of the screen. Open the on-screen menu and select Quick choice > Keystone. Adjust the setting as needed. 58 User's Guide Fixing Problems If a scrolling or cut-off image is displayed: Press the auto sync button on the projector or remote control. For a computer connection, turn everything off, then power on the projector first and power on the notebook or desktop computer second.

For a computer connection, if the above steps do not correct the display image, adjust the resolution of the notebook or desktop computer to 1024 x 768 pixels. If the computer has multiple monitors, adjust the resolution of the monitor assigned to the projector. If the image is flickering or unstable: Press the auto sync button on the projector panel or remote control. For a computer connection, set the display resolution to 1024 x 768 pixels. If the computer has multiple monitors, adjust the resolution of the monitor assigned to the projector. For a computer connection, open the on-screen menu, select Adjust picture > VGA settings and adjust the Frequency or Tracking. If the image is stretched: Open the on-screen menu and select Adjust picture > Adjust picture mode > Aspect ratio. Try the different settings. Open the on-screen menu and select Adjust picture > Shape settings. Try changing the Widescreen input setting. If the image disappears from the computer screen: For a notebook computer, you might be able to turn on both the external VGA port and the built-in screen. See the computer manual or the projector's video port guide. If text or lines from a computer display seem rough or uneven: Check the focus adjustment. Open the on-screen menu and select Quick choice > Reset keystone. User's Guide 59 Fixing Problems If the projected colors seem slightly wrong: If the video button on the projector is not lit, try pressing the video button on the projector or the picture mode button on the remote control. Open the on-screen menu and select Adjust picture > Color settings. Adjust the color settings as needed. Open the on-screen menu and select Adjust picture > Color Settings > Color space. Change the selection. Open the on-screen menu and select Help > Diagnostics.

Run color tests. If the projected colors seem completely wrong: Be sure the pins on the cable connectors are not bent or broken. Open the on-screen menu and select Adjust picture > Color settings > Color space. Change the selection. Open the on-screen menu and select Help > Diagnostics. Run color tests. Reset the picture settings to the factory-default settings. See the following problem. If the picture settings are completely wrong and you cannot fix them: Reset the projection settings to the factory-default settings. To do this, open the on-screen menu and select Setup > Reset all settings, or hold down the down + up + right buttons on the projector for 5 seconds.

If the projector stops responding to all controls: If possible, turn off the projector, then unplug the power cord and wait at least 15 seconds before reconnecting power. 60 User's Guide Fixing Problems Sound problems If no sound is coming out of the projector: Be sure you have an audio cable securely connected between the projector and the input device. Be sure that the mute and volume settings are correct on the input device, such as a computer, DVD player, or camcorder. Open the on-screen menu and select Quick choice. Check the following settings: Mute is turned off. Volume is correct. Interruption problems If the lamp indicator or temperature indicator turns on or blinks: If the lamp indicator blinks, the lamp is not able to light.



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Wait for the projector to cool, then try starting it again. If the lamp indicator is on or blinking, unplug the projector after it cools down. Remove and reinstall the lamp module.

If this does not fix the problem, install a new lamp. If the temperature indicator turns on or blinks, the projector is too hot. See the following problem. If the projector suddenly shuts down and the temperature light turns on: If the temperature light is blinking, the fan is not working. Allow the projector to cool for several minutes.

If the temperature light is steady, the projector has overheated. Allow it to cool for several minutes. If airflow is obstructed, remove the obstruction. If possible, remove any sources of excess heat in the room. If the condition occurs after restarting the projector, contact HP to have the projector serviced or repaired.

User's Guide 61 Fixing Problems If the lamp shuts off during a presentation: A minor power surge might cause the lamp to shut off. Wait a few minutes, then power on the projector. If the lamp indicator is on or blinking, unplug the projector after it cools down. Remove and reinstall the lamp module. If this does not fix the problem, install a new lamp. If the lamp burns out or makes a popping sound: If the lamp burns out and makes a popping sound, the projector will not turn back on until the lamp module has been replaced. If the lamp breaks, contact HP about repairs that might be required. Remote control problems If the remote control does not operate: Be sure nothing is blocking the remote control receiver on the front or back of the projector. Move to within 9 m (30 ft) of the projector. Open the on-screen menu and select Help > Diagnostics.

Run remote control test. Replace the battery in the remote control. If only the mouse and page-up and page-down buttons do not work: Be sure you have a USB connection between the projector and the computer. Open the on-screen menu and select Help > Diagnostics. Run remote control test and USB test. 62 *User's Guide 63 Fixing Problems* Testing the Projector The on-screen menu contains diagnostic tests you can use to verify the proper operation of the projector and the remote control. To run the projector diagnostics 1. Open the on-screen menu and select Help > Diagnostics. 2. Select a test to perform.

User's Guide 64 Fixing Problems 64 User's Guide 7 Reference This chapter lists the specifications, safety information, and regulatory information for the projector. "Specifications" on page 65 "Safety Information" on page 70 "Regulatory Information" on page 72 Specifications Because HP continually improves its products, the following specifications are subject to change. For the latest specifications, visit the HP website at <http://www.hp.com>.

Identifying the projector specifications Size 251 mm × 210 mm × 69 mm (9.9 in. × 8.3 in. × 2.

7 in.) Weight Resolution Technology Video connectors 1.8 kg (3.9 lb) XGA DLP VGA input, S-video input, composite-video input (RCA) Optional cable for component-video input Audio connectors Video compatibility Mini-phone stereo audio input NTSC M (3.58 MHz), 4.43 MHz; PAL B, D, G, H, I, M, N; SECAM B, D, G, K, K1, L; HDTV 480i/p, 575i/p, 720p, 1080i On front and back of projector IR receivers *User's Guide 65 Reference* Identifying the projector specifications (continued) Lens Optical zoom Keystone Audio Lamp 2.0 to 2.4 throw ratio (distance/width) 1:1.2 Manual correction: up to +25° to 30° vertical Monaural speaker, 1-W peak output 200-W P-VIP lamp, 1.0-mm arc 2000 hours (half life) Lamp-saver mode reduces lamp power to 160 W, extends lamp life Replacement lamp: L1720A Light engine 0.

7-in. 12° DDR DMD XGA Color system Two preset color modes are available: Graphics Video Remote control Mounting options Security Power USB mouse Ceiling and tabletop, front and rear projection Kensington lock compatible 100 to 240 V at 50 to 60 Hz 66 *User's Guide Reference* Identifying the projector specifications (continued) Noise level Environment 38±2 dBA Operating: Temperature: 10 to 35°C (50 to 95°F) Humidity: 80% RH max, non-condensing Altitude: up to 3,000 m (10,000 ft), up to 25°C (77°F) Storage: Temperature: 20 to 55°C (4 to 131°F) Humidity: 80% RH max, non-condensing Altitude: up to 12,000 m (40,000 ft) *User's Guide 67 Reference* Analog Video Mode Compatibility Compatibility VGA Resolution 640 x 350 640 x 350 640 x 400 640 x 480 640 x 480 640 x 480 640 x 480 720 x 400 720 x 400 V-Sync (Hz) 70 85 85 60 72 75 85 70 85 56 60 72 75 85 60 70 75 85 60 75 60 60 66.66 H-Sync (kHz) 31.5 37.9 37.9 31.5 37.9 37.5 43.3 31.

5 37.9 35.2 37.9 48.1 46.

9 53.7 48.4 56.5 60.0 68.

7 63.98 79.98 65.22 63.98 34.98 SVGA 800 x 600 800 x 600 800 x 600 800 x 600 800 x 600 XGA 1024 x 768 1024 x 768 1024 x 768 1024 x 768 SXGA 1280 x 1024 1280 x 1024 SXGA+ 1400 x 1050 1400 x 1050 MAC LC 13 640 x 480 68 *User's Guide Reference* Analog Video Mode Compatibility (continued) Compatibility MAC II 13 MAC 16 MAC 19 MAC MAC G4 MAC G4 MAC G4 i Mac DV i Mac DV i Mac DV i Mac DV i Mac DV i Mac DV Resolution 640 x 480 832 x 624 1024 x 768 1152 x 870 640 x 480 640 x 480 1024 x 768 640 x 480 800 x 600 1024 x 768 1152 x 870 1280 x 960 1280 x 1024 V-Sync (Hz) 66.68 74.55 75 75.06 60 120 120 117 95 75 75 75 75 H-Sync (kHz) 35 49.725 60.

24 68.68 31.35 68.03 97.09 60 60 68.49 75 90.9 *User's Guide 69 Reference* Safety Information Safety precautions Å WARNING: Observe the following precautions to reduce the risk of injury. To prevent eye injury, do not look directly into the lens when the lamp is on. To prevent electrical shock, do not expose the projector to rain or moisture. Do not open the projector except as instructed by the manual.

To reduce the risk of fire or electrical shock, do not allow small metallic objects to get inside the projector. Carry the projector only in its protective case, and do not store paper clips or other small objects inside the case. Allow the projector to cool before removing any cover and touching internal components, as instructed by the manual. @@@@ Do not attempt to make any adjustment to the unit. Avoid direct eye exposure to the infrared LED beam.

Be aware that the beam is invisible light and cannot be seen. Do not attempt to view the infrared LED beam with any type of optical device. Mercury safety This digital projector lamp contains Å WARNING:adequately ventilate the area where a small amount of mercury. If the lamp breaks, the breakage occurred.

Disposal of the lamp might be regulated due to environmental considerations.

For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance at <http://www.eiae.org>. *User's Guide 71 Reference* Regulatory Information This section presents information that shows how your digital projector complies with regulations in certain regions.



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Any modifications to your digital projector not expressly approved by HP could void the authority to operate the digital projector in these regions. U.S.A. This digital projector 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 digital projector generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it can cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this digital projector does cause harmful interference to radio or television reception (which can be determined by unplugging the unit), try the following: Reorienting or relocating the receiving antenna. Relocating the digital projector with respect to the receiver. Connecting the digital projector's power cord to another power outlet. Connections to peripheral devices To maintain compliance with FCC Rules and Regulations, use properly shielded cables with this device. For more information, consult your dealer, an experienced radio/television technician, or, prepared by the Federal Communications Commission, How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the U.S.

Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4. At the first printing of this manual, the telephone number was 202-512-1800. Canada This Class B digital apparatus complies with Canadian ICES-003. 72 User's Guide Reference Japan Korea User's Guide 73 Reference International For regulatory identification purposes, your product is assigned a regulatory model number. The regulatory model number for your product is listed in the declaration of conformity.

This regulatory number is different from the marketing name and product number. Manufacturer's Name: Manufacturer's Address: DECLARATION OF CONFORMITY According to ISO/IEC Guide 22 and EN 45014 Hewlett Packard Company Hewlett Packard Company Digital Projection & Imaging 1000 NE Circle Blvd. Corvallis, OR 97330-4239 Declares, that the product(s): Product Name: Digital Projector Model Number(s): mp3220 series Regulatory Model: CRVSB-04VU Conforms to the following product specifications: Safety: IEC 60950:1999/ EN 60950:2000 IEC 60825-1:1993 +A1 / EN 60825-1:1994 +A11 Class 1 LED GB4943-1995 EMC: EN 55022: 1998 Class B [1] CISPR 24:1997 / EN 55024: 1998 IEC 61000-3-2:1995 / EN 61000-3-2:2000 IEC 61000-3-3:1994 / EN 61000-3-3:1995+A1:2001 GB9254-1998 FCC Title 47 CFR, Part 15 Class B/ANSI C63.4:1992 AS/NZS CISPR 22:2002 Supplementary information: The product herewith complies with the requirements of following Directives and carries the CE marking accordingly: -Low Voltage Directive: 73/23/EEC -EMC Directive: 89/336/EEC [1] The product was tested in a typical configuration with Hewlett Packard Personal Computer peripherals. This device complies with Part 15 of the FCC Rules.

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. Corvallis, Oregon, May 1, 2004 Steve Brown, General Manager European Contact for regulatory topics only: Hewlett Packard GmbH, HQ-TRE, Herrenberger Straße 140, 71034 Boeblingen, Germany. (FAX:+49-7031-143143). USA Contact: Hewlett Packard Co., Corporate Product Regulations Manager, 3000 Hanover Street, Palo Alto, CA 94304. Phone: (650) 857-1501. 74 User's Guide Index A with S-video 21 contents in the box 8 dimensions of screen and room 16 distance setting up in relation to image 15 firmware updating 47 focus adjusting 27 range of 27 accessories listing 14 adjust picture 34 aiming the projector raising and lowering 26 analog video mode compatibility 68 audio adjusting 34 back panel identifying 12 buttons projector 11 remote control 13 ceiling installation setting up 50 component video connection connecting video source 23 composite video connection connecting video source 22 configuration using on-screen menu 37 connecting input sources component video connection 23 composite video connection 22 computer with VGA port 19 handheld organizer 20 User's Guide D F B G C graphics mode see picture mode handheld organizer connecting 20 hide button using 32 H I image adjusting 34 input/output connectors see back panel installation Index 75 Index see ceiling installation see rear projection installation see table installation Kensington lock 53 keystone correction adjusting 33 lamp module replacing 44 lamp saver mode 35 language changing 35 LED safety precautions 71 lens care 44 cleaning 44 lights identifying 11 location see ceiling installation see rear projection installation see table installation lock 53 using 36, 37 optimizing image 34 picture adjusting 34 picture mode changing 30, 34 definition 34 power turning off 25 turning on 24 presentations changing source 32 from a computer 31 projector adjusting 33 identifying parts 10 maintaining 43 setting up 15 troubleshooting 55 upgrading 47 rear panel see back panel rear projection installation setting up 52 remote control battery replacement 46 identifying 13 using 29 reset 60 resetting projection settings 60 projector 60 K P L R M maintenance routine maintenance 43 menu see on-screen menu O on-screen menu about menu definitions 42 adjust picture menu definitions 40 quick choice menu definitions 38 select input menu definitions 39 setup menu definitions 42 Index 76 S safety information LED 71 User's Guide Index precautions 70 SCART device 21 security locking 53 setup adjusting 35 see also ceiling installation see also rear projection see also table installation slanted picture see keystone correction sound see audio source changing 32 specifications of the projector 65 status of projector 43 S-video connection connecting video source 21 testing diagnostics 63 tripod mounting on 53 troubleshooting interruption problems 61 picture problems 57 remote control problems 62 sound problems 61 start-up problems 56 suggestions 55 turning off 25 turning on 24 U V upgrading 47 video mode see picture mode video sources 21 Z T table installation setting up 17 zoom adjusting 27 range of 27 User's Guide Index 77 Index Index 78 User's Guide .



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