

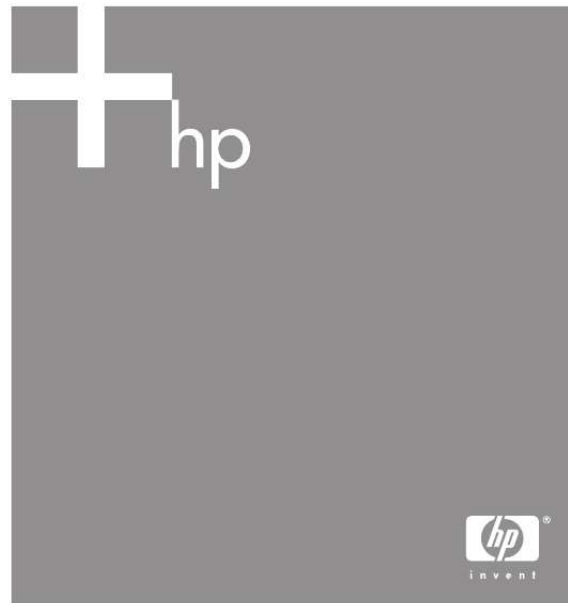


Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ MD6580N. You'll find the answers to all your questions on the COMPAQ MD6580N in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ MD6580N
User guide COMPAQ MD6580N
Operating instructions COMPAQ MD6580N
Instructions for use COMPAQ MD6580N
Instruction manual COMPAQ MD6580N

HP Pavilion
md5020n/md5820n/md5880n/md6580n
High-Definition Microdisplay TV
User's Guide



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Manual abstract:

@@@Dolby and the double-D symbol are trademarks of Dolby Laboratories. Manufactured under license from Dolby Laboratories. This TV incorporates High-definition Multimedia Interface (HDMITM) technology. HDMI, the HDMI logo and High-definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. SRS TruSurround XT, SRS, and SRS Labs, Inc. symbol are trademarks of SRS Labs, Inc. SRS TruSurround XT technology is incorporated under license from CableCARDTM is a trademark of Cable Television Laboratories, Inc. Hewlett-Packard Company Digital Projection and Imaging 1000 NE Circle Blvd. Corvallis, OR 97330 USA Edition 1, June 2005 CAUTION: This TV to be used only with the correct size HP audio/video stand designed for this HP microdisplay TV. Use with other carts or stands is capable of resulting in instability causing possible injury.

Safety Markings The following safety markings may be present on the back of the TV or behind the front access door. CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN Symbol Purpose This symbol on the TV is intended to alert the user to the presence of uninsulated "dangerous voltage" within the TV's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to people. This symbol on the TV is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the TV. Important Safety Instructions WARNING!

Read and observe these precautions and all others in this manual to reduce the risk of injury and equipment damage. 1.

2. 3. 4. 5. 6.

7. 8. Read these instructions.Keep these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. To avoid personal injury or damage to the TV, use at least two people to lift or move it. 16. If the TV is moved from a cold place, do not turn it on for a few hours so any internal condensation can evaporate. 17. Install the TV upright on a horizontal, solid, flat surface away from excessive heat, dust, and vibration.

18. Keep a clearance of at least 10 cm (4 inches) between the vents on the back of the TV and nearby walls or enclosures. Allow free air circulation to prevent excessive heat buildup that could shut down or damage the TV. Keep flammable objects or objects susceptible to heat damage at least 0.

5 m (2 ft) away from the vents. 19. Do not allow liquid, food, or small objects to get inside the TV. If material gets inside, contact HP for assistance. 20. Use only an approved power cord rated for the voltage and current marked on the product label. Do not overload any outlet or extension cord above 80% of its rated power or current rating. 21. Do not remove any parts of the TV except as instructed by this manual, and only after allowing the TV to cool down. 22.

Do not operate the TV with any covers removed. Hazardous voltages exist inside the TV. There are no userserviceable parts inside except as described elsewhere in this manual. In addition to these general precautions, be sure to observe the following precautions when using external television antennas and cable systems with your TV. Failure to observe these precautions could result in fire, bodily injury, and damage to your equipment.

· Call the CATV (cable television) system installer's attention to Section 820-40 of the NEC (U.S. National Electrical Code), which provides guidelines for proper grounding and, in particular, specifies that the cable ground must be connected to the grounding system of the building, as close to the point of cable entry as practical. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is electrically grounded to protect against voltage surges and built-up static charges. Article 810 of the US National Electrical Code, ANSI/NFPA 70, provides information about proper electrical grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Do not place an outside antenna system in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into power lines or circuits. When installing an outside antenna system, take extreme care to avoid touching power lines or circuits because contact with them could be fatal. ··

Item Description Electric service equipment Power service grounding electrode system (NEC Art 250, Part H) Ground clamps Grounding conductors (NEC Section 810-21) Antenna discharge unit (NEC Section 810-20) Ground clamp Antenna lead-in wir 1 2 3 4 5 6 7 WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus. Contents Safety Markings.

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... 75 6 1 Setting Up the TV Before setting up your TV, be sure your shipping box includes the following items. If the shipping box does not contain all of the following items, contact HP.

... TV Power cord Remote control with two AAA batteries Quick setup guide User's guide What's in the Box NOTE: The TV does not include audio/video cables because most external equipment comes with the required cables. Cables are also available from HP and at most electronics stores. Carrying the TV WARNING! To avoid personal injury or damage to the TV, use at least two people to lift or move the TV. Lift with your legs. · To lift the 58- or 65-inch model, place one hand in the recessed hand grip 2 above the vent on the side panel, and hold the top front corner 1 with the other hand. To lift the 50-inch model, place one hand under the bottom edge of the side panel 3, and hold the top front corner 1 with the other hand. What's in the Box 7 Features and Connectors TV at a Glance Item Function Stereo sound, plus subwoofer for low-frequency effects. Convenient access to connection panel and lamp module.



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To open, press in above HP logo and release. Cover for replaceable lamp module.

Shows power status, plus lamp and temperature problems, even when the access door is closed. Path for cables coming out the front of the TV. Path for cables going out the back of the TV. Connections for video and audio equipment. Located behind the access door. Turns the TV on and off. (Also on remote control.)

Combined with the Ch and Vol buttons, moves and makes selections in the on-screen menu. ok also shows the list of sources. (Also on remote control.)
) Changes the loudness of the sound. (Also on remote control.) Shows the next higher or lower channel. (Also on remote control.) 1 2 3 4 5 6 7 8 9 ; ; Speakers
Access door Lamp cover Status lights Front cable tunnel Back cable tunnel Connection panel Power button Settings and ok buttons Vol + and Vol Ch + and
Ch 8 Setting Up the TV Connector Panel Item Function Provides space for adding support for premium cable functions.

Connects RF coax cable from a cable service. Connects RF coax cable from an antenna. For HP service use only. Connects up to two HDMI or DVI-D sources. HDMI 2 has an optional audio input.

Connects a computer to show its screen and play its audio. Connects up to two component-video sources with audio. Connects up to three S-video or composite-video sources with audio. Sends 5.1 surround sound output from antenna and cable sources to an external sound system. Sends stereo audio output to an external sound system. 1 2 3 4 5 6 7 8 9 : CableCARD option Cable input connector Antenna input connector Service connectors HDMI input connectors Computer VGA input connectors Component-video input connectors S-video and composite-video input connectors Surround-sound audio output connector Stereo audio output connectors Accessories Enjoy more from your TV with HP accessories. You can purchase accessories at www.hpshopping.com or through your TV dealer.

· · · HP TV stand--Sets the TV at an ideal viewing height, manages cables, and houses other home entertainment equipment. HP replacement lamp--Installs easily and brings your TV up to factory-fresh brightness. HP CableCARD module--Lets you add a CableCARD to your TV, which eliminates a separate cable box and simplifies TV operation. Features and Connectors 9 Setting Up the TV--The Basics Planning Your Layout Consider the following suggestions when planning your room layout: · · · · · For the most comfortable viewing, place your seating around the center of the TV. The best viewing distance is roughly 3 to 8 m (9 to 25 ft), but personal preferences vary widely. For prolonged viewing of standard-definition TV channels, the upper end of this range might be more comfortable. Design the room so you can control the ambient light. Many people prefer viewing with minimal lighting, but you can have good results if you avoid shining bright light directly onto the screen. Two common input sources are a TV antenna and cable service, but other common sources are DVD player, audio/video receiver, VCR, personal digital video recorder, video gaming device, and satellite receiver. Depending on your personal setup, try to locate devices to minimize the lengths of cables connecting them to the TV.

Use an HP TV stand or other quality stand to keep equipment close to the TV. If any cable is longer than 3 m (10 ft), consider using high-quality, low-loss cables for best video and audio quality. For the ultimate home-theater experience, consider including a 5.1 surround sound system, such as a Dolby Digital system. This system has five speakers and a subwoofer.

For an external sound system, see the following diagram for a possible speaker layout. Place all front speakers at the same distance from the listener. Place the subwoofer near a wall or corner. Place surround speakers at least as high as the listener's head. Experiment with the speaker placement.

· CAUTION: Keep a clearance of at least 10 cm (4 inches) between the vents on the back of the TV and nearby walls or enclosures. Allow free air circulation to prevent excessive heat buildup that could shut down or damage the TV. Keep flammable objects or objects susceptible to heat damage at least 0.5 m (2 ft) away from the vents. 10 Setting Up the TV Installing Batteries in the Remote Control 1. 2. 3. On the back of the remote control, press the latch on the battery cover and lift off the cover 1. Insert two AAA batteries 2. Observe the + marks on the batteries.

Insert the tab on the battery cover into the case, and then snap the cover into place. Planning for Other Equipment Planning Your System Setup The way you connect the individual components of your entertainment system depends on the devices you have. The following diagram shows how several common types of devices could be connected. In particular, it shows individual video and audio paths between devices. TV source (cable, antenna) TV decoder (cable box, satellite receiver) TV recorder (VCR, digital video recorder) Player (DVD, video gaming device) Audio system (stereo, surround) TV Signal Video* Audio

*Use best-quality video output available on your devices See "Making Your Connections" on page 17 for examples of systems and connections. Planning for Other Equipment 11 Connecting and Routing Cables This TV provides convenient access to video and audio cable connections at the front of the TV. And it provides simple paths for running the cables out the front or back. CAUTION: Do not pull the door open by its corners. This can damage the latch. Push in above the HP logo instead.

· To plug in a cable, open the access door by pushing and releasing the door. Push above the HP logo. · · · For permanent connections, run the cables through the tunnel toward the back of the TV 1. For temporary connections or for devices in front of the TV, run the cables through the tunnel that comes out the front of the TV 2. To close the door, push it closed until it latches.

12 Setting Up the TV Choosing Your Video Connections Many video devices have more than one type of output port. When you connect a device to the TV, choose the connection that provides the best picture quality. The following table shows different types of connectors with the highest picture quality listed at the top of the table. Highest quality HDMI connection. Highest-quality, high-definition digital picture and digital surround sound in one connection.

DVI-D connection. Highest-quality, high-definition digital picture. Requires a separate sound connection. (Requires a DVI-to-HDMI cable or adapter.) Component-video connection (YPbPr). High-quality, high-definition picture. Requires a separate sound connection. Computer VGA connection (see "Computer" on page 28). High-quality picture in single connector. Requires a separate sound connection.

S-video connection. Good-quality, standard-definition picture. Requires a separate sound connection.



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Composite-video connection (yellow). Standard-quality, standard-definition picture. Requires a separate sound connection. Coaxial antenna or cable connection. Standard for picture and sound from antenna or cable service. Digital signals can carry high-definition programs and surround sound. Standard quality TIP: If you can set the video output from a source device to have 16:9 aspect (wide-screen picture), you should select that setting.

Refer to the instructions for the video device. This provides maximum compatibility between the device and the TV. Planning for Other Equipment 13 Cables for HDMI, DVI-D, Component, S-Video, and Composite Connections The following diagrams show how to connect video devices with different types of video outputs. Use the highest quality connection available on the device. HDMI connection · HDMI cable NOTE: You can connect to the HDMI 1 and HDMI 2 inputs on the TV.

The HDMI cable carries both the video and audio signals. 14 Setting Up the TV DVI-D connection · DVI-toHDMI cable (or HDMI cable with DVI-to-HDMI adapter) · Stereo RCA cable (two RCA) NOTE: If you are using the TV speakers, connect a DVI device only to the HDMI 2 input on the TV. If you are connecting audio directly to a sound system, you can connect DVI devices to the HDMI 1 and HDMI 2 inputs. Component-video (YPbPr) connection · Component-video cable (three RCA) · Stereo RCA cable (two RCA) NOTE: You can connect to the Component 1 and Component 2 inputs on the TV. Planning for Other Equipment 15 S-video connection · S-video cable · Stereo RCA cable (two RCA) NOTE: You can connect to the Video 1, Video 2, and Video 3 inputs on the TV.

Only one S-video or composite-video connection is supported for each of these three inputs. Composite-video connection · Composite-video/audio cable (three RCA) or separate video and audio cables. NOTE: You can connect to the Video 1, Video 2, and Video 3 inputs on the TV. Only one S-video or composite-video connection is supported for each of these three inputs. 16 Setting Up the TV Making Your Connections If you have a TV antenna or cable service, use one of the basic connections listed in the following tables. If you have other equipment, find the following examples that match your equipment. Basic antenna and cable connections To connect this equipment... Antenna Standard cable (no set-top cable box) Cable with set-top cable box Other connections To connect this equipment.

.. Cable and VCR/DVR Cable box and VCR/DVR Satellite receiver and VCR/DVR DVD player or video gaming device Audio: Stereo sound system Computer See... page 22 page 23 page 24 page 25 page 26 page 28 See... page 18 page 19 page 20 Satellite receiver (with no VCR or DVR) page 21 Audio: Surround sound or AV receiver page 27 Making Your Connections 17 Antenna If your antenna cable has a standard coaxial connector, connect the cable to the TV as shown in the following illustration. TIP: If your antenna has flat, twin-lead cable or other type of cable, connect the antenna cable to a coaxial adapter; then connect the adapter to the TV antenna input.

To do this... Watch channels received by the antenna Scan for available channels Connect additional equipment Do this..

. Press Source and select Antenna. See "Finding Your Channels" on page 32. See "Making Your Connections" on page 17. 18 Setting Up the TV Standard Cable If your cable service does not require a set-top cable box (STB), connect the cable to the TV as shown in the following illustration.

This setup enables you to watch unscrambled channels. NOTE: Use this same connection if you install a CableCARD in your TV. See "Installing a CableCARD" on page 30. To do this... Watch cable channels Scan for available channels Connect additional equipment Do this... Press Source and select Cable.

See "Finding Your Channels" on page 32. See "Making Your Connections" on page 17. Making Your Connections 19 Cable with Set-Top Cable Box If your cable service requires a set-top cable box (STB) to view scrambled channels, connect the components to the TV as shown in the following illustration. This setup enables you to watch scrambled and unscrambled channels. NOTE: . . . If your cable box has different connectors from those shown, use the highest quality video connection available. Observe the color-coding on connectors. For digital cable, your set-top cable box might require a special two-direction splitter. Contact your cable provider for information. Or you can omit the splitter and omit the connection to the TV cable input. If all cable channels are scrambled, connect the incoming cable directly to the cable box (omit the splitter and omit the connection to the TV cable input).

You can eliminate the cable box if your cable provider can install a CableCARD in the TV. See "Installing a CableCARD" on page 30. To do this... Watch cable-box channels Watch cable channels directly Program the remote control to operate the cable box Use the remote control to operate the cable box Connect additional equipment Do this... Press Source and select Component 1. Press Source and select Cable.

See "Programming for Other Devices" on page 36. Press Device to select STB. See "Planning for Other Equipment" on page 11. 20 Setting Up the TV Satellite Receiver If you have a satellite receiver (SAT) without a VCR or personal digital video recorder (DVR), you can connect it as shown in the following illustration. NOTE: If your device has different connectors from those shown, use the highest quality video connection available. Observe the color-coding on connectors. To do this... Watch satellite channels Program the remote control to operate the satellite receiver Use the remote control to operate the satellite receiver Do this.

.. Press Source and select Component 1. See "Programming for Other Devices" on page 36. Press Device to select STB. Making Your Connections 21 Cable and VCR/DVR If you have standard cable service or have a CableCARD installed and you have a VCR or personal DVR, you can connect them as shown in the following illustration. You can also use this connection if you have a DVR with built-in cable box capabilities. NOTE: . . If your device has different connectors from those shown, use the highest quality video connection available. Observe the color coding on connectors. If all cable channels are scrambled and you have no CableCARD installed, connect the incoming cable directly to the DVR cable box (omit the splitter and omit the connection to the TV cable input).

To do this... Watch cable channels Watch VCR or DVR program Scan for available channels Program the remote control to operate the VCR or DVR Use the remote control to operate the VCR or DVR Do this..

. Press Source and select Cable. Press Source and select Video 1.



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See "Finding Your Channels" on page 32. See "Programming for Other Devices" on page 36.

Press Device to select AUX or DVR. 22 Setting Up the TV Cable Box and VCR/DVR If you have a set-top cable box (STB), and you have a VCR or personal DVR, you can connect them as shown in the following illustration. NOTE: If your devices have different connectors from those shown, use the highest quality video connections available. Observe the color coding on connectors. For digital cable, your set-top cable box might require a special two-direction splitter. Contact your cable provider for information. Or you can omit the splitter and omit the connection to the TV cable input. If all channels are scrambled, connect the incoming cable directly to the cable box (omit the splitter and omit the connection to the TV cable input). You can eliminate the cable box if your cable provider can install a CableCARD in the TV. See "Installing a CableCARD" on page 30.

To do this... Watch cable-box channels Watch VCR or DVR programs Watch cable channels directly Program the remote control to operate these devices Use the remote control to operate the cable box Use the remote control to operate the VCR or DVR Do this... Press Source and select Component 1. Press Source and select Video 1. Press Source and select Cable. See "Programming for Other Devices" on page 36.

Press Device to select STB. Press Device to select AUX or DVR. Making Your Connections 23 Satellite Receiver and VCR/DVR If you have a satellite receiver and you have a VCR or personal DVR, you can connect them as shown in the following illustration. NOTE: If your devices have different connectors from those shown, use the highest quality video connections available. Observe the color coding on connectors.

To do this... Watch satellite channels Watch VCR or DVR channels Program the remote control to operate these devices Use the remote control to operate the satellite receiver Use the remote control to operate the VCR or DVR Do this..

Press Source and select Component 1. Press Source and select Video 1. See "Programming for Other Devices" on page 36. Press Device to select STB. Press Device and select AUX or DVR. 24 Setting Up the TV DVD Player or Video Gaming Device If you have a DVD player, video gaming device, or other device that has a standard video output, you can connect it as shown in the following illustration. NOTE: If your devices have different connectors from those shown, use the highest quality video connections available. Observe the color coding on connectors. For a device connected temporarily, such as a camcorder or gaming device, run the cable through the tunnel under the front of the TV.

To do this... Watch video from the DVD player Watch video from the gaming device Program the remote control to operate the DVD player Use the remote control to operate the DVD player Do this... Press Source and select Component 2. Press Source and select Video 2. See "Programming for Other Devices" on page 36. Press Device to select DVD.

Making Your Connections 25 Audio: Stereo Sound System If you have a stereo sound system, you can play the TV sound through the sound system. You can connect the stereo system as shown in the following illustration. NOTE: Observe the color coding on connectors. You can disable the TV speakers and listen to only the stereo speakers. The volume buttons on the TV remote control normally adjust the volume of the TV stereo output.

This means you do not have to adjust the volume on the stereo system. If you program the remote control to operate the audio device, the remote control adjusts the volume of only the audio device and stops adjusting the volume of the TV output. However, the volume buttons on the TV always adjust the TV output. To do this..

Program the remote control to operate the sound system Use the remote control to operate the sound system Change the volume Disable the TV speakers Do this... See "Programming for Other Devices" on page 36. Press Device to select AUDIO. Press the volume buttons on the TV remote control or on the stereo system. Press Settings and go to Sound > Advanced sound > Internal speakers. 26 Setting Up the TV Audio: Surround Sound or AV Receiver If you have a 5.1 surround sound system or audio-video receiver, you can make the audio connection to your TV as shown in the following illustration.

You also can connect other equipment to the sound system. NOTE: Observe the color-coding on connectors. The digital audio output on the TV sends Dolby Digital surround sound only when you are viewing a source connected to an antenna, cable, or HDMI input and only if the program contains surround sound. Otherwise, the digital audio output sends digital stereo sound. For other sources that have digital audio outputs, connect those outputs directly to the surround sound system so you can hear surround sound. You can omit the audio connections to the TV for those devices. For other devices with only stereo outputs, you can connect those outputs to the surround sound system or to the TV. If the AV receiver also supports multiple video connections, you can connect video outputs from other equipment to that device and then connect the video output from the receiver to the TV. Use the highest quality video connections available. To do this.

Program the remote control to operate the sound system Use the remote control to operate the sound system Change the volume Disable the TV speakers Do this...

See "Programming for Other Devices" on page 36. Press Device to select AUDIO. Press the volume buttons on the remote control. Press Settings and go to Sound > Advanced sound > Internal speakers. Making Your Connections 27 Computer If your computer has a standard VGA video port, you can connect it to your TV as shown in the following illustration.

If the computer has DVI-D or S-video output, you can connect it to the TV as shown in "Cables for HDMI, DVI-D, Component, S-Video, and Composite Connections" on page 14. NOTE: If the computer display does not appear on the TV, you might have to press a combination of keys on the computer to turn on the computer's VGA output. For example, on some computers you must press Fn+F4 or Fn+F5. For instructions, refer to the user documentation provided with your computer. The mini-phone cable is needed only if you want to hear computer sound on the TV. . To do this... View the computer display Adjust the picture of the computer display Do this..

Press Source and select VGA (see previous note). See "If a scrolling or cut-off image is displayed for a computer connection" on page 62. 28 Setting Up the TV Using a CableCARD By installing a CableCARD in your TV, you can enjoy features normally provided by a set-top cable box without connecting a cable box or operating another piece of equipment.



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For example, a CableCARD can decode scrambled cable channels in your TV. NOTE: The availability, setup, and pricing of CableCARD service is determined by your local cable provider, not by HP. Contact your cable provider for information about this service in your area. NOTE: Current CableCARD technology does not support interactive features requiring two-direction communication, such as video-on-demand. Such features, if they are available in your area, require a settop cable box. Contact your cable provider for information about advanced features in your area.

Adding a CableCARD Slot Certain TV models do not have a CableCARD slot. However, you can add this capability by purchasing a CableCARD module from HP and installing it in your TV. This enables you to install a CableCARD provided by your local cable provider. CAUTION: The CableCARD module is extremely sensitive to static electricity and can be permanently damaged by it. Handle the module only by the front plate.

Before inserting the module into the TV, discharge your body's static electricity by touching one of the video or audio connectors on the TV panel. 1. 2. 3. Turn off the TV.

Open the front access door and find the CableCARD cover plate near the left end of the connection panel. Loosen the two screws 1 holding the cover plate and remove the plate 2. Using a CableCARD 29 4. 5. Insert the CableCARD module 1 into the opening and firmly press it into place until the front plate is flush with the panel. Tighten the two screws 2. Installing a CableCARD You must obtain the CableCARD from your local cable provider. After installing the card, follow any setup instructions provided with the card. 1. Hold the CableCARD with the front label facing up, and then insert it into the CableCARD slot.

2. 3. Gently push the card into the slot until it stops. When fully inserted, the card sticks out of the slot. Press Settings, go to Setup > Channel setup > Cable card, and press OK. Your cable provider uses the information in the CableCARD screens to activate and configure the CableCARD. To remove the CableCARD, pull the card out of the slot. The CableCARD functions are automatically removed. 30 Setting Up the TV Turning the TV On and Off Plugging In the Power Cord 1. 2.

Connect one end of the power cord to the back of the TV. Connect the other end to a grounded electrical circuit. Turning On the TV · Press the power button on the side of the TV. or On the remote control, press Device until TV is selected, and then press the power button. The TV might take a minute or so to warm up and display a bright picture.

The blue power light blinks during warm up. NOTE: It is normal for parts of the TV and the air coming out of the vents to be very warm. If the TV starts to overheat, the red temperature warning light will turn on and the TV will shut down. Turning the TV On and Off 31 Turning Off the TV · Press the power button on the TV. or On the remote control, press Device until TV is selected, and then press the power button.

The internal fans continue to run for a short time during the cool-down period. Even though the TV is off, it uses a small amount of power internally. CAUTION: Do not disconnect power until the TV has cooled and the fan stops running--up to three minutes after turning it off. Otherwise, you might shorten the life of the lamp. If you turn on the TV again during the cool-down period, the TV might not turn on as quickly as normal. Completing the Basic Setup

Finding Your Channels After you connect your cable and antenna sources, you are ready to find the available channels on those sources. These are the channels you can receive on the TV tuner using the Ch+ and Ch buttons. TIP: If you have a cable box or satellite receiver, you must set up that device to view channels from that source. The TV tuner receives channels from only the antenna and cable inputs. NOTE: The following steps can take from one minute up to 30 minutes or more.

If you have an antenna connected to the antenna input: 1. 2. 3. On the remote control, press Settings and go to Setup > Channel setup > Auto search antenna, and then press OK. Wait for the TV to scan all channels available from the antenna. Press Settings and go to Setup > Channel setup > Cable service.

Ask your cable provider if either HRC or IRC is used and, if so, change this setting accordingly. For most cable providers, use the standard setting. On the remote control, press Settings and go to Setup > Channel setup > Auto search cable, and then press OK. Wait for the TV to scan all channels. If you have cable service connected to the cable input: After all channels are found, you can manually add or remove channels from the list. See "Adding or Deleting a Channel" on page 51. 32 Setting Up the TV Setting the Time and Date TIP: In many areas, the TV can automatically set the time and date using information on certain channels.

This keeps the clock accurate, even following a power outage. However, the TV can take an hour or more to discover the required information. 1. 2. Press Info to display detailed source information.

If the time and date are displayed and are correct, stop here. Press Settings and go to Setup > Time > Clock. · If the setting is Auto and the time and date are correct, stop here. · If the setting is Auto but the time or date is not correct, change the setting to Manual and continue to the next step. In the menu under Setup > Time, set each of the following settings: · Time zone · Daylight savings (for most areas, Auto is the preferred setting) · Date · Time 3. Completing the Basic Setup 33 34 Setting Up the TV 2 Using the Remote Control Use the remote control to control all aspects of the TV operation. In addition, you can program the remote control to operate other equipment in your entertainment system. Remote control Item power button Function Turns the TV or other device on and off. Overview of the Buttons STB DVD TV AUDIO Shows which device is being controlled by the remote DVR AUX control (set-top cable box, DVD player, TV, audio system, digital video recorder, auxiliary). Options Device Settings Red/CC Green/PIP Yellow/SAP Blue/SLEEP Favorites Sound Source Picture Guide Aspect Info Shows the functions of the four colored buttons.

Lights the device indicator and changes the device being controlled by the remote control. Opens the main menu for the current device to view or change settings. Turns closed captions on and off. Changes the option for showing a second picture. Changes the secondary audio program option or language. Changes the delayed shutoff option. Shows the next of your favorite cable channels. Changes to a different combination of sound settings. Selects an input source. Press again to show all sources.

Changes to a different combination of picture and color settings. Shows the list of available channels for the current source.



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Changes the size and stretching of the picture. Shows channel information or source information. Direction, OK, and Moves through the on-screen menu and makes back buttons selections.

See Settings above. Volume buttons Last mute button Ch+ and Ch Player buttons Changes the loudness of the sound. Shows the previous channel or source viewed. Temporarily turns the sound off and on. Shows the next higher or lower channel.

Controls a DVD player, VCR, or other device that plays recorded video. Number and Enter Enters channel numbers or other numeric input. buttons TIP: To control the TV, be sure the TV indicator is selected. Overview of the Buttons 35 Controlling the TV NOTE: Before using the remote control, install two AAA batteries. See "Installing Batteries in the Remote Control" on page 11. Use the TV remote control to direct the complete operation of the TV. See the illustration on page 35. To do this...

Control the TV Turn the TV on and off Change the channel Change the volume View a different source Adjust the picture View the on-screen menu Use other TV functions on the remote control Do this... Press Device until TV is selected. Press power. Press Ch+ or Ch or see "Changing the Channel" on page 43. Press volume buttons or see "Adjusting the Volume" on page 43. Press Source or see "Watching Another Video Source" on page 44. Press Picture or see "Adjusting the Picture and Sound" on page 49. Press Settings or see "Using the On-Screen Menu" on page 52.

See "Overview of the Buttons" on page 35. Programming for Other Devices You can use the TV remote control to operate other equipment in your entertainment system. The following tables list all the types of equipment you can control after you program the remote control. NOTE: The remote control might not be compatible with all devices from a manufacturer listed in the tables below. 1.

2. 3. 4. In the following tables, find the listing for your device. Devices are listed according to the type of device and manufacturer. Find the device code for your device. If several codes are listed, try them one at a time in the order listed. On the remote control, hold down the Options and back buttons until the device indicator blinks three times; then release the buttons. Press Device until the required device indicator is lit. You must choose the correct indicator for the type of device you are programming. See the following lists of device codes. For example, select STB when programming the remote control for your set-top cable box. On the number pad, enter the four-digit code for the device; then press Enter. If the code is valid, the device indicator lights for three seconds. If the code is invalid or you pressed a wrong button, the device indicator blinks rapidly for three seconds.

Go back to step 2 and hold down the Options and back buttons. Aim the remote control at your device and press the power button on the remote control. If the device turns on or off, the programming is successful. If other functions do not work and several device codes are listed, try a different code. If the device does not respond, try these steps again, or, if several device codes are listed for this device, repeat the steps using the next device code. You must program each piece of equipment using the correct device indicator listed in the following tables. If you have two devices that use the same indicator, you can program the second device as AUX. You can delete a programmed device from the remote control. Program the device using device code 0000. This is useful mainly for deleting an audio device so the volume and mute buttons control the TV speakers instead of controlling the audio system.

5. TIP: 36 Using the Remote Control DVD Player Includes DVD/VCRs. Indicator = DVD (or AUX) Manufacturer Aiwa Apex Audiovox Blaupunkt Bose Cherry Claricon Classic Daewoo Denon Emerson Fisher Funai GE Go Video GPX Great Wall Code 1045 1000, 1001, 1002, 1018, 1019, 1020 1046 1050 1038 1015 1026 1027 1051 1047, 1064 1028, 1029 1048 1029, 1040 1003, 1068 1043 1030 1067 Manufacturer Harman Kardon Hitachi Irradio JVC Kenwood Koss Magnavox Marantz Memorex Mintek Mitsubishi NAD Nakamichi Norcent Onkyo Orirtron Panasonic Code 1070 1041, 1042 1061 1005, 1008 1065 1062 1011 1056 1058 1031 1059, 1060 1028, 1052 1032 1033 1053, 1057 1034 1006, 1024 Manufacturer Philips Pioneer Proscan Qwestar RCA Sampo Samsung Sanyo Sharp Sherwood Sony Sylvania Techwood Toshiba Yamaha Zenith Code 1007, 1012, 1013 1017, 1069 1003, 1066 1034 1003, 1014 1035 1004, 1022 1036, 1039 1021 1037 1009, 1010, 1023, 1025 1029, 1049 1054 1016 1055 1044, 1063 Set-Top Cable Box Includes cable boxes with digital video recorders. Indicator = STB (or AUX) Manufacturer ABC GE General Instruments Hitachi Code 2022, 2023 2022, 2023 Manufacturer Code Manufacturer Code 2028, 2025, 2026 2023 2029 2032 Jerrold Motorola Pioneer 2023, 2024, 2031 Proscan 2023 RCA 2023, 2024 Scientific Atlanta 2027, 2030, 2031 Signature 2033 Sony 2022, 2023 Time Warner 2024 Satellite Receiver Indicator = STB (or AUX) Manufacturer BSB DirecTV Express Vu GE Hughes Mitsubishi Code Manufacturer Code 2005, 2010 2000, 2011 2017, 2018 2017, 2018 2006 Manufacturer Sony Star Choice SuperDish Toshiba Zenith Code 2007, 2019, 2021 2016 2013 2004, 2008, 2014 2009, 2012 Panasonic 2003 Philips 2001, 2020 Proscan 2015 2004, 2017, 2018 RCA Samsung 2020 2002 Programming for Other Devices 37 Audio Device Includes receivers, tuners, amplifiers, home theaters, cassette recorders, digital audio tape recorders, and phonographs. Indicator = AUDIO (or AUX) Manufacturer Aiwa Bose Cambridge Denon Fisher GE Harman Kardon Ibiza JBL JVC Code 3011 3007 3008 3003, 3014, 3015 3022 3031 3005, 3021 3020 3021 3004 Manufacturer Kenwood Luxman Marantz Nakamichi Onkyo Panasonic Philips Pioneer Proscan Code 3024, 3016 3027 3034 3026 3033, 3035 3006, 3017, 3025 3009, 3010, 3012 3002 3031 Manufacturer Quasar RCA Dimensia RCA other Sanyo Scientific Atlanta Sony Technics Toshiba Yamaha Zenith Code 3025 3018, 3019 3030, 3031 3022 3029 3013, 3023, 3032 3001, 3025 3036 3000, 3024 3028 Digital Video Recorder Indicator = DVR (or AUX) Manufacturer Philips RePlay Code 4001 4002 Manufacturer Sony Code 4004 Manufacturer Tivo Code 4000, 4003 HP Digital Entertainment Equipment Indicator = DVR (or AUX) Manufacturer HP Digital Entertainment Code 7000, 7111, 8000 HP Projector Indicator = AUX Manufacturer HP Code 6000, 6111 38 Using the Remote Control VCR Includes TV/VCRs and DVD/VCRs.

Indicator = AUX Manufacturer Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Canon Capehart Carver CCE Challenger Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Dimensia Dixon Electrohome Emerson Code 5046, 5047, 5058 5030 5029 5019, 5020, 5041, 5042, 5056 5026 5023 5024, 5061 5026 5028 5040 5063 5030, 5033 5001 5025, 5026, 5027, 5030 5021 5025, 5026, 5033, 5053, 5060 5018, 5021, 5025, 5028, 5064 5027, 5029, 5030, 5040 5040 5018, 5064 5008, 5059 5026, 5053 5019, 5024, 5026, 5027, 5029, 5034, 5042, 5051, 5053, 5061 5023, 5052, 5060 5020 5029 5029 5018, 5025, 5028, 5043, 5051, 5064 5009, 5011, 5013, 5015, 5050, 5065 5021, 5026, 5053, 5055 5029, 5053 5021, 5063 5033 5012, 5031, 5032, 5038, 5041, 5043 5021, 5022, 5023, 5024, 5025, 5026, 5028, 5031, 5032, 5033, 5038, 5053 5031, 5032, 5041 Manufacturer JVC Code Manufacturer RCA Code 5018, 5019, 5025, 5031, 5032, 5038, 5043, 5064 5023, 5025, 5026, 5027, 5028, 5029, 5035, 5046, 5047, 5053, 5060 5045, 5049 5037 5016, 5025, 5027 5022, 5041, 5044 5010, 5023, 5025, 5052, 5060 5024, 5027, 5034, 5053 5023, 5026, 5031, 5032, 5038, 5052, 5053, 5060 5035, 5046, 5047, 5054, 5058 5020, 5032, 5033 5046, 5047 5058 5033, 5045, 5049 5020, 5036 5038 5028, 5029, 5034, 5063 5029, 5060 5023 5026 5041 5029, 5041 5039 5026, 5029, 5053 5027, 5031, 5034, 5042, 5057, 5060, 5062 5025, 5026, 5053 5025 5021, 5022, 5027 5021, 5022, 5027, 5042 5025, 5026, 5027, 5029, 5031, 5032, 5033, 5035, 5038, 5046, 5047, 5053, 5054, 5060, 5063 5029, 5033 5021, 5022, 5023, 5041 5014, 5020, 5037, 5045, 5049, 5053, 5056 Fisher Fuji Funai Garrand GE Go Video Goldstar Gradiente Harman Kardon Harwood Hitachi JC Penney Jensen 5000, 5021, 5022, 5023, 5041, 5044, 5051 5021, 5022, Kenwood 5023, 5041, 5044 5133 KLH 5026 Kodak 5026 LG 5060 Lloyds 5033 Logik 5026 LXI 5053 Magnasonic 5006, 5028, 5037, Magnavox 5063 5021, 5022, Marantz 5023, 5055, 5063 5017, 5023, 5025, Memorex 5026, 5029, 5037, 5046, 5047, 5053, 5054, 5060 5034, 5042 MGA 5031, 5032, 5038 Minolta 5002, 5004, Mitsubishi 5005, 5031, 5032, 5034, 5042, 5044, 5053 Montgomery Ward 5046, 5047 5046, 5047 Motorola 5025 MTC 5025, 5029, 5033 Multitech 5021, 5022, NEC 5023, 5041, 5044, 5055 5026 Nikko 5025 Noblex 5026, 5046, 5047, Optimus 5053 5035 Optonica 5051, 5053, 5061 Orion 5003, 5007, 5028, Panasonic 5039, 5053, 5060 5031, 5032, Pentax 5038, 5043 5028, 5061 Philco 5035, 5063 Philips 5022, 5031, Pioneer 5044, 5048 5040 Portland 5018, 5064 Proscan 5028, 5053 Quasar 5026, 5035, 5047, Radio Shack 5053 5023, 5025, 5026, Radio Shack/ 5028, 5029, 5035, Realistic 5046 5026 Radix Realistic Ricoh Runco Samsung

Sansui Sanyo Scott Sears Sharp Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika
Toshiba Totevision Unitech Vector Research Video Concepts Wards XR-1000 Yamaha Zenith Programming for Other Devices 39 Controlling Other Devices
After you program the remote control for another device, you can control that device using these basic functions.



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1.

2. Press Settings, go to Lock, and press OK. @@When prompted, press the same buttons again. @@Go to Lock > Channel. In the list of channels, hidden channels are highlighted in gray. In the list of channels, move to a channel and press red/CC to lock that channel or press green/PIP to unlock it. Each blocked channel is marked with . Press back to return to the menu. 3. 4.

5. *Temporarily Suspending Controls* If you want to watch a show that would be blocked by your normal control settings, you can temporarily turn off the controls. 1. 2. 3. Tune the TV to the desired program or channel. If it is blocked, a password prompt appears. Press the buttons for your password. To suspend all locks until the TV is turned off, press the red/CC button, or to view this channel but keep all locks active, press the green/PIP button. *Changing Your Password* The password prevents other viewers from viewing programs or changing the parental controls without permission.

1. 2. 3. 4. 5.

TIP: . . . To cancel parental control, let Lock mode off. To temporarily cancel control, see "Temporarily Suspending Controls" on page 48. If you forget the password, see "General Problems" on page 64. Press Settings, go to Lock, and press OK. When prompted, press the buttons for your password. Go to Lock > Change password. Press a sequence of four 0 through 9 buttons for the new password. When prompted, press the buttons again. 48 *Watching the TV* 4 *Adjusting the TV* *Choosing the Best Picture Mode* You can quickly choose a different picture mode to make adjustments to the picture. Picture modes can control properties, such as color and brightness. They let you easily choose the best settings for ambient lighting and the type of video content. Press Picture one or more times to select the picture mode that gives the best picture. . . . 1. 2. 3.

Normal mode--for watching most programs in average lighting conditions. *Movie mode*--for watching movies in a darkened room. *Vivid mode*--for watching TV shows and for bright lighting. *Studio mode*--for professional studios and calibration labs. *Adjusting the Picture and Sound* You can also customize the picture modes so they are best for your video sources: Press Picture to select the picture mode you want to adjust. Press Settings and go to Picture. Adjust the settings until you are satisfied with the picture. TIP: To exit from any on-screen menu or adjustment, press the Settings button. *Adjusting the Size of the Picture* Video images come in several different sizes, depending on the video content and the source device. If a picture does not fit the shape of your TV screen, you have a few choices: shrink the picture to fit the screen with black bars filling the unused space, zoom the picture to fill the screen, or stretch the picture to fill the screen.

Press Aspect one or more times to find the size and shape you like best. For some options, some parts of the picture might be off the screen or stretched. Type of picture Standard picture · Best fit (side bars fill screen) · Stretched (to remove bars) Recommended views 4:3 4:3 Wide-screen picture · Best fit (fills screen) Super wide-screen picture · Best fit (top and bottom bars fill screen) · Enlarged and stretched (to remove bars) 2.35:1 2.35:1 *Adjusting the Picture and Sound* 49 TIP: If you can set the video output from a source device to have 16:9 aspect (wide-screen picture), you should select that setting.

Refer to the instructions for the video device. This provides maximum compatibility between the device and the TV. *Adjusting the Picture for Best Color* You can fine tune the picture settings on your TV to get the best color and image quality. You can perform these steps for each input port that you use. Do them in the order shown.

For some input ports, some of these settings might not be available, and you should skip these adjustments. Press the Picture button and select the picture mode you want to use for the current source. If you are satisfied with the color, stop here. 2. Press Settings and go to the Picture menu. 3. Go to Advanced color > DVI color. For best color, set this to Standard unless you are viewing DVI output from a computer or "extended DVI" output. 4. Go to Advanced color > Brightness boost.

For best color, turn this option off. 5. Go to Brightness. Adjust to the highest setting that still gives the darkest black for black areas. You can view black objects or shadowed areas. 6. Go to Contrast. Adjust to the highest setting that does not wash out fine detail in bright areas. You can view bright clouds or textured white areas. 7.

Go to Advanced color > Gamma. Adjust to the setting that gives the best overall midrange brightness. This should have minimal effect on blacks and whites. 8. Go to Advanced color > Color temperature.

Adjust to the setting where whites and colors look best. 9. Go to Color saturation. Adjust to the setting where colors look most natural. 10.

Go to Tint. Adjust to the settings where colors look most natural. 11. Repeat all steps if necessary. 1. TIP: To reset the picture mode to its factory settings, press Settings, go to Picture > Reset, press OK, and select Yes. *Adjusting Other Picture Settings* The on-screen menu provides many settings that enable you to fine tune the picture. 1. 2. Press Settings and go to the Picture menu.

Change the picture settings as needed. To get descriptions for all available picture adjustments, see "Picture Menu" on page 53. Adjusting Sound Settings To do this... Change the volume Adjust the sound quality Play a secondary audio channel Turn off TV speakers Do this... Press volume buttons or see "Adjusting the Volume" on page 43. Press Sound, or press Settings and go to the Sound menu.

Press yellow/SAP, or press Settings and go to Sound > Advanced sound. Press Settings and go to Sound > Advanced sound > Internal speakers. To get descriptions for all available sound adjustments, see "Sound Menu" on page 54. 50 *Adjusting the TV* *Customizing Your Channels and Sources* *Adding or Deleting a Channel* You can manually add or delete channels in the list of channels for the antenna or cable input, which enables you to add a new channel that becomes available or hide a channel you want to omit when browsing channels. 1.

2. 3. 4. TIP: . . . If you want only to delete channels, press Guide to display the list of channels, then press red/CC to delete channels. If you want to update the complete list of channels, press Settings and go to Setup > Channel setup > Auto search cable or Auto search antenna, depending on the source (cable or antenna).

For example, you could do this if you add new cable services or install a new antenna. However, if you have a CableCARD installed, Auto search cable is not available because the card provides complete channel information. Optional: tune to the channel you want to add or delete.



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