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You can read the recommendations in the user guide, the technical guide or the installation guide for MOTOROLA QIP6416. You'll find the answers to all your questions on the MOTOROLA QIP6416 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MOTOROLA QIP6416
User guide MOTOROLA QIP6416
Operating instructions MOTOROLA QIP6416
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User Guide
QIP6200/QIP64xx Series
Set-Top Terminals
High-Definition
Watch and Record DVR



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Manual abstract:

@@@@@The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Product identification and supply rating is provided on the label found on the bottom of the unit. This installation should be made by a qualified service person and should conform to all local codes. REPAIRS If you find the unit in need of repair, contact your system operator for repair or replacement. NOTE TO SYSTEM INSTALLER This reminder is provided to call the system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close as possible to the point of cable entry as practical. IMPORTANT SAFETY INSTRUCTIONS 1 2 3 4 5 6 7 8 9 Read 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. 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 is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Protect the power cord from being walked on or punched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only attachments/accessories specified by the manufacturer. Unplug this apparatus during lightning storms or when unused for long periods of time. 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. 10 11 12 13 Regulatory Information Federal Communications Commission Radio and Television Interface Statement for a Class 'B' Device This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in the residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: . . . Increase the separation between the equipment and the affected receiver Connect the equipment on a circuit different from the one the receiver is on Ensure that the cover plate for the security card is secured and tight Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Declaration of Conformity According to 47 CFR, Parts 2 and 15 for Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers, Motorola, Inc.

6450 Sequence Drive, San Diego, CA 92121, 1-800-225-9446, declares under sole responsibility that the product identifies with 47 CFR Part 2 and 15 of the FCC Rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards.

Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47 CFR 2.909. Operation is subject to the following condition: This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47 CFR, Paragraphs 15.101 to 15.109. The Class B digital apparatus meets all requirements of the Canadian Interface Causing Equipment Regulations. U. S. GOVERNMENT RESTRICTED RIGHTS The Product and documentation is provided with RESTRICTED RIGHTS. The use, duplication or disclosure by the Government is subject to restrictions as set forth in subdivision (c)(1)(ii) of The Rights in Technical Data and Computer Software clause at 52.227-7013.

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, Broadband Communications Sector, 101 Tournament Drive, Horsham, PA 19044. Canadian Compliance This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Software License IMPORTANT: PLEASE READ THIS SOFTWARE LICENSE ("LICENSE") CAREFULLY BEFORE YOU USE ANY SOFTWARE, FIRMWARE AND RELATED DOCUMENTATION ("SOFTWARE") PROVIDED WITH MOTOROLA'S DIGITAL CABLE RECEIVER OR HOME THEATER SYSTEM (EACH SHALL BE REFERRED TO IN THIS LICENSE AS A "RECEIVER"). BY USING THE RECEIVER AND/OR USING ANY OF THE SOFTWARE, YOU INDICATE YOUR ACCEPTANCE OF EACH OF THE TERMS OF THIS LICENSE.

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For Motorola consumer products, education, and support: <http://www.motorola.com/broadband>

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In addition, the QIP64xx offers full DVR functionality to record and play back the shows you want to watch. With its second tuner, the QIP64xx also allows "watch and record" capabilities so you can really take control of your viewing options. Based on specific configuration by your local service provider, the settops offer on-screen graphics to support an Electronic Program Guide (EPG). These products also support Pay-Per-View (PPV), Video-onDemand (VoD), and other services offered by your local service provider. The QIP6xxx series of set-tops enables a direct digital connection to consumer audio and video devices through 1394-DTV and HDMITM interfaces.

In addition, the set-tops are equipped with a full range of audio, video, and data connections. This User Guide introduces you to the basic features of the QIP6xxx settop, outlines important safeguards, and provides several options for integrating this component into your current entertainment system. The configuration diagrams, on-screen menu description, and troubleshooting section will help you make the most of your home entertainment experience. To determine which features of digital TV are provided in your service area, please check with your local service provider. They will be happy to provide instructions for these optional services.

In this manual, QIP6xxx or "set-top" refers to the QIP6200 and the QIP64xx models of High-Definition Set-top Terminals. 3 QIP6200/64xx Front and Back Panels Front Panel Front Panel Description Item 1 2 3 4 5 6 7 8 Description INFO switch Displays current channel and program information MENU switch Displays the menu area POWER switch Turns the QIP6xxx on or off MSGS. indicator Is lit when a message is waiting RECORD indicator Is lit when the DVR is recording (QIP64xx models only) SELECT switch Used for selecting menu options GUIDE switch Displays the electronic program guide RECORD switch Records the selected programming (QIP64xx models only) OPTION Used for menu options (QIP6200 model only) 9 10 11 12 13 USB* Enabled by your service provider.



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Connects to support USB 2.0 devices VIDEO IN* Enabled by your service provider. Connects to baseband video output from a VCR, camcorder, or other video device AUDIO IN* (L/R) Enabled by your service provider. Connects to a baseband audio output from a VCR, camcorder, or other audio device CURSOR Moves cursor around program guide and menu screens (left, right, up, down) ON Indicates power is on when lit 4 QIP6200/QIP64xx User Guide Item 14 15 16 Description DISPLAY Displays channel number and time of day REMOTE indicator Is lit when remote control is in use CHANNEL Scrolls up or down through the channels * Feature is enabled by your service provider with associated EPG software. Check with your service provider before attaching any device. 5 Back Panel Back Panel Description Item 1 2 3* 4 5 6* Description RF IN Connects to digital TV input from your service provider RF OUT Connects to TV or VCR (optional interface) IR Enables QIP6xxx to control a VCR while recording a selected program (not supported by all program guides) SPDIF (coaxial) Provides Dolby® Digital 5:1 audio (surround sound) or PCM audio S-VIDEO Connects to S-Video input of TV or VCR VIDEO IN Connects to baseband video output from a VCR, camcorder, or other video device (requires EPG support) VIDEO OUT Delivers composite video to an external device, such as a TV or VCR 7 8 9* 10 11* 12 Y, Pb, Pr (aligned vertically) Deliver component video for HDTVs HDMI Connects to a high-definition TV (HDTV) ETHERNET (reserved) AC SWITCHED OUTLET Connects AC power cord from another device, such as a TV or VCR SMART CARD Supports Smart Card interface (currently not enabled) OPTICAL SPDIF Provides Dolby Digital 5.1 audio (surround sound) or PCM audio 6 QIP6200/QIP64xx User Guide Item 13* Description AUDIO IN (Left and Right aligned vertically) Connects to a baseband audio output from a VCR, camcorder, or other audio device (requires EPG support) AUDIO OUT (Left and Right aligned vertically) Connect to baseband audio input of a stereo receiver TVPC TV pass card For future use USB PORT Connects to support USB 2.

0 devices. Check with your service provider for details. SATA Connects to support external hard drive. Check with your service provider for details. (optional interface) IEEE 1394 Connects to an HDTV 14 15 16* 17* 18 *These features require EPG software support to enable and may or may not be functional. Check with your local service provider to see which features are enabled. 7 OPERATION Turning Power On and Off Press POWER on the front panel to turn the set-top on or off. When using the remote control, be sure you press CABLE before pressing POWER. Changing Channels You can change channels in two ways: · on the front panel of the set-top, or Press CHANNEL press CHANNEL + or - on the remote control to step through the channel selection. Enter the number of the channel you wish to view using the number keys on the remote control.

· Adjusting the Volume Press VOLUME + or - on the remote control to adjust the volume. When you adjust the volume, the volume scale is displayed on the screen. Press MUTE on the remote control to turn the sound off and on again. For best audio quality, use the remote control to set the set-top to approximately ¾ of the maximum volume level and then adjust the audio levels on external devices, such as your TV or A/V Receiver. Electronic Program Guide The Electronic Program Guide (EPG) displays information about TV programs and enables you to access features such as Parental Control or Pay-Per-View.

EPGs can vary in look and feel, depending on your service provider. Refer to the EPG manual supplied by your service provider for detailed instructions. 8 QIP6200/QIP64xx User Guide DIGITAL VIDEO RECORDER (DVR) QIP64XX MODELS ONLY The QIP64xx is equipped with an internal hard drive for digital video recording of both standard definition TV (SDTV) and high-definition TV (HDTV) programs. Storage time depends on the video format of the received program. What is DVR? DVR, which stands for digital video recorder, records and plays digital video using hard-disk drive technology. Unlike an analog cassette tape, the QIP64xx's hard drive allows recording and playback to occur simultaneously. A DVR offers the ability to control your viewing experience by pausing (time shifting) live TV and providing trick playback modes (pause, fast forward, slow forward, fast rewind, slow rewind). You may experience a slight delay between time-shifted and live TV. With the QIP64xx, you can: Record Programming Record many hours of TV program content. The total hours of recorded content varies, depending on the storage capacity of your QIP64xx and the type of content (standard definition or HD) being recorded. Maintain a Personal Program Library Maintain a personal library of recorded programming, accessed by using the electronic program guide (EPG) Control Live TV Pause, rewind, and fast-forward to the present time Simultaneously Watch Two Programs Watch two programs and easily switch between them using the SWAP key on your remote control (dependent upon program guide support and remote control) Simultaneous Watch and Record Record up to two programs in the background while viewing live or previously recorded content at the same time 9 Simultaneously Record Two Shows Record two programs from two different channels at the same time Simultaneously Record Shows and Watch a Recorded Program Watch a program recorded on your QIP64xx while recording up to two other programs at the same time. You can also easily switch between viewing the pre-recorded program and either of the programs that you are recording. Refer to your service provider's instructions for the menu-driven recording and viewing options available on your set-top. 10 QIP6200/QIP64xx User Guide OPTIMIZING YOUR SET-TOP FOR HIGH-DEFINITION TV The QIP6xxx enables you to view HD programming. HDTV provides up to twice the resolution and up to six times the sharpness of standard definition TV.

The Motorola QIP6xxx delivers high-quality video for HDTVs using the YPbPr (component), HDMI, and IEEE 1394 connectors. This section describes how to use the on-screen display to set your QIP6xxx to automatically optimize both standard and HD video based on your HDTV and personal preferences. If you use the IEEE 1394 connector, no adjustments to your settings are required. If you have a TV with a DVI connector, you will need an HDMI adapter cable. HDMI adapter cables can be purchased at your local electronics retail store. Before adjusting the settings, be sure that the TV is on and is properly connected to the appropriate video output on the set-top (see the diagram in "Connecting Your Set-Top to an HDTV Video Only").



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To configure your HD settings for TV type, video output, and closed captioning: 1 2 Be sure the set-top is plugged into a power outlet and is turned off. Press the MENU key on the front panel. If your TV is on, the on-screen display menu appears, listing the settings you can configure. 11 This screen appears if the HDMI port is active: Note: For HDMI or YPbPr, only PC1 or PC2 can be selected.

USER SETTINGS TV TYPE HDMI/YpbPr OUTPUT 4:3 OVERRIDE 16:9 (4.3 LETTERBOX, 4:3 PAN/SCAN) 1080i (720P, 480P, 480I, PC1-VGA, PC2480i (480P, STRETCH, OFF) DISABLED CCI PRIMARY LANGUAGE AUTO AUTO AUTO AUTO AUTO AUTO AUTO AUTO CLOSED CAPTION SERVICE SELECTION ANALOG DIGITAL FONT SIZE FONT STYLE FONT COLOR FONT OPACITY FONT EDGE TYPE FONT EDGE COLOR BACKGROUND COLOR BACKGROUND OPACITY SETTINGS RESTORE ALL DEFAULTS This screen appears if the HDMI port is not active: USER SETTINGS TV TYPE 16:9 (4.3 LETTERBOX, 4:3 PAN/SCAN) YPbPr OUTPUT 1080i (480i, 480p, 720p), 4:3 OVERRIDE 480i (480p, STRETCH, OFF) CLOSED CAPTION DISABLED SERVICE SELECTION ANALOG CCI DIGITAL PRIMARY LANGUAGE FONT SIZE AUTO FONT STYLE AUTO FONT COLOR AUTO FONT OPACITY AUTO FONT EDGE TYPE AUTO FONT EDGE COLOR AUTO BACKGROUND COLOR AUTO BACKGROUND OPACITY AUTO SETTINGS AUTO RESTORE ALL DEFAULTS 12 QIP6200/QIP64xx User Guide 3 Use the remote control or the CURSOR keys on the front panel to navigate the on-screen display (the HD settings are described in the table on the following pages): · · Press the and keys to highlight the setting you wish to change. Press the key to select an option for that setting. To exit the setting and move to another setting, use the and keys. 4 To exit the menu and save your settings, press the POWER or MENU key. The HDMI/YPbPr OUTPUT setting is displayed as YPbPr OUTPUT if you are not using the HDMI video connection. The user settings will also be displayed on the front panel display whether your TV is on or off. If the menu does not appear on your HDTV screen, your TV may not support the default video output setting. Use the QIP6xxx front panel display to view and change your settings.

13 User Settings Setting TV TYPE Description Sets the aspect ratio. The front panel display indicates the type you select. The default is 16:9. Options are 16:9 for wide screen TVs, or 4:3 LETTERBOX or 4:3 PAN/SCAN for standard TVs: · · 4:3 LETTERBOX fits wide screen programming on the screen by placing black bars at the top and bottom. 4:3 PAN/SCAN fills the screen by cropping the left and right edges of wide screen programming. HDMI/YPbPr OUTPUT Sets the video display format for the component video outputs. The front panel display indicates the format you select. Options are 1080i, 720p, 480p, or 480i. The default is 1080i. Some TVs support preferred display formats only.

Check the TV's user manual for more information about your TV's supported display formats. If you are not using a high-definition television with the QIP6xxx, selecting a format other than 480i causes the on-screen display to go blank. If this occurs, you can view the settings on the front panel display to change the YPbPr OUTPUT back to 480i. If you are not using the HDMI video connection, the HDMI/YPbPr OUTPUT setting displays as YPbPr OUTPUT. 14 QIP6200/QIP64xx User Guide Setting 4:3 OVERRIDE Description Sets the display format for 4:3 standard-definition programming. If the YPrPb OUTPUT is set to 1080i, 720p, or 480p, this setting defaults to 480i. If the YPrPb OUTPUT is set to 480i, this setting defaults to OFF and cannot be changed. Options are: · OFF displays non-high-definition programs having a 4:3 aspect ratio in wide screen format. On an HDTV, black bars display on the left and right of the picture. @@@@Check the TV's user manual for more information.

@@@@Check the TV's user manual for more information. @@@@The front panel display indicates the status of the closed captions. Options are ENABLED or DISABLED. The default is DISABLED. @@The default is CCI. Digital: PRIMARY LANGUAGE, SECONDARY LANGUAGE, 3, 4, 5, or 6. @@Options are AUTO, STANDARD, LARGE, or SMALL. The default is AUTO. Sets the font style for closed captions. @@The default is AUTO. @@@@The default is AUTO. @@The default is AUTO. @@The default is AUTO. Sets the background color for closed captions. @@The default is AUTO. Sets the background opacity for closed captions. Options are AUTO, TRANSPARENT, TRANSLUCENT, SOLID, or FLASHING. The default is AUTO. @@Options are AUTO or USER. The default is AUTO.

Resets the on-screen display options to their default settings. @@@@@@@@@@@@@@The QIP6xxx overlays these graphics whenever you open a menu, enable closed captions, or scroll through a program grid. If you use the IEEE 1394 connection, on-screen graphics including closed captions and program guides are not displayed. 17 CONNECTING YOUR SET-TOP This section describes how to connect the QIP6xxx set-top to your home entertainment system. Instructions and diagrams are included for the following connections to the QIP6xxx: · · · · High-Definition Television (HDTV) A/V Receiver Audio Stereo TV Stereo TV and Stereo VCR A/V Receiver, TV, and VCR Stereo TV and VCR Before you move or change components on your entertainment system, review the following: · · For basic RF connections, use 75-ohm coaxial cables equipped with F-type connectors. Disconnect power from the set-top before connecting or changing any connections. For more information on connecting for HDTV, see "Video Connection Options." CAUTION! Do not place anything on top of the set-top, especially other home entertainment components. Be sure to provide adequate ventilation to prevent overheating. 18 QIP6200/QIP64xx User Guide Important Safety Considerations Follow these important safety guidelines when positioning and connecting the set-top: · · · · Position the set-top with at least two inches of space above and on all sides.

Do not block the slots and openings on the set-top. Do not place anything on top of the set-top. Do not position the set-top in an enclosed space that would restrict airflow around the unit. Do not position the set-top near any external heat source that could raise the temperature around the unit. Do not place the set-top on top of another heat-producing electronic device.

Allow for adequate ventilation around the set-top to maintain normal operating temperature. Do not place the set-top in a sealed enclosure without providing for adequate airflow. Do not plug the AC power cord into a switched power outlet. · · 19 Video Connection Options The QIP6xxx offers six different video connection options. Component video, HDMI, and IEEE 1394 allow you to view both HD and standard TV programming.

Composite video, S-video, and RF coaxial connections allow you to view standard definition TV programming; HDTV programming can also be viewed, but it will be converted to standard format.



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To determine whether your TV features component video, DVI/HDMI, IEEE 1394, S-Video, or composite video, check the manual supplied with your TV. Use these guidelines to determine the best video connection for your home entertainment system, and then refer to the table that follows for specific procedures that apply to specific setups. Note: HD video can only be viewed with DVI / HDMI, IEEE 1394, or component video connections. · Component video (YPbPr) - HDTV and SDTV The YPbPr connectors on your set-top provide HD component video. Component is the most widely supported HD video connection. · HDMI or IEEE 1394 Digital HDTV and SDTV HDMI and IEEE 1394 are digital video interfaces that offer higher quality HD video than component video. If your TV has a DVI or HDMI input, connect to the HDMI connector on the set-top instead of the IEEE 1394 connector. TVs with DVI ports need an HDMI adapter cable, which can be purchased at most electronic stores. See "Connecting HDTV Video Only" for more information.

· S-Video SDTV If component video connections are not available on your TV, use the S-VIDEO connection. · Video (also referred to as composite video) SDTV If S-Video is not available, use the composite video (VIDEO) connection. 20 QIP6200/QIP64xx User Guide · RF Output SDTV If your TV has an RF input only, connect it to the RF output on the set-top. The TV must be tuned to channel 3 or 4. The IEEE 1394 is a video and audio connection, so no audio connections are required if you are using the IEEE 1394 connection and you plan to use your TV's speakers as the primary audio source. If You Have: HDTV only Follow: Connecting Your Set-Top to an HDTV Video Only Connecting Your Set-Top to an HDTV Audio Only HDTV and HD VCR If you have a high-definition VCR, follow the connection instructions that accompany the HD VCR. The VCR connections will be similar to "Connecting Your Set-Top to a Stereo TV and Stereo VCR." Connecting Your Set-Top to an HDTV Video Only Connecting Your Set-Top to an AV Receiver Audio Only Connecting Your Set-Top to a Stereo TV Connecting your Set-Top to a Stereo TV and Stereo VCR Connecting your Set-Top to an A/V Receiver, TV, and VCR HDTV and A/V Receiver Stereo TV only Stereo TV and Stereo VCR Stereo TV, Stereo VCR, and A/V Receiver 21 RECORDING YOUR CONNECTIONS Use this diagram to record connections between your home entertainment components. You can use this diagram to reconnect your system if you move the equipment or add new equipment. Disconnect the power from the set-top before connecting or changing any connections.

Do not place another component or object on top of the set-top. 22 QIP6200/QIP64xx User Guide 23 CONNECTING YOUR SET-TOP TO AN HDTV VIDEO ONLY 24 QIP6200/QIP64xx User Guide Connecting HDTV Video Only If you have a TV with a DVI connector, you will need an HDMI adapter cable or an HDMI adapter. If your TV has a DVI port, you can plug a DVI cable directly from the TV to the HDMI adapter on the set-top. Or, you can use an HDMI adapter cable to connect the units port-to-port. (HDMI adapters and HDMI adapter cables can be purchased at your local electronics retail store.

) Determine which of the following connections best suits your home entertainment equipment configuration and then follow those steps: Component Video (YPbPr) 1 Connect an RF coaxial cable to the service provider's wall outlet and to the RF IN connector on the set-top. 2 Connect the component video cables to the Y, Pb, and Pr connectors on the HDTV and set-top. The component video outputs (YPbPr) transmit only video. If you use component video, refer to "Connecting Your Set-Top to an HDTV Audio Only" to connect the audio. To connect your home sound system for audio, see "Connecting Your Set-Top to an A/V Receiver Audio Only.

" IEEE 1394 If your HDTV has an IEEE 1394 connector, you can use the IEEE 1394 for both your video and audio connection: · Connect an IEEE 1394 cable to the IEEE 1394 connector on your HDTV and the set-top. On-screen graphics are not displayed when you use the IEEE 1394 connection on the set-top. 25 DVI or HDMI If your TV has a DVI or HDMI input, use the set-top's HDMI connection for your video using the appropriate interface cable or adapter.

Remember, if your TV has a DVI input, you will need to connect audio as well. Refer to "Connecting Your Set-Top to an HDTV Audio Only" after you complete the appropriate step below. If your TV has an HDMI input, the video and audio connections are made with a single cable between the TV and the set-top. · Connect an HDMI cable to the HDMI connector on the set-top and to the HDMI connector on your TV (no separate audio connections are required since the HDMI interface supplies both audio and video); or Connect one end of an HDMI adaptor cable* to the HDMI connector on the set-top and the other end of the adaptor cable to the DVIHDTV connector on your TV; or Connect a DVI cable to the DVI-HDTV connector on your TV and to the HDMI adapter* that you attached to the HDMI connector on the set-top. · For information on configuring the set-top settings, see "Optimizing Your Set-Top for High-Definition TV." * Both the HDMI adapter and the HDMI adapter cable include a DVI interface which allows your DVI HDTV to be attached to the HDMI port. 26 QIP6200/QIP64xx User Guide CONNECTING YOUR SET-TOP TO AN HDTV AUDIO ONLY 27 Connecting HDTV Audio Only If your equipment supports it: · The OPTICAL SPDIF connector or coaxial digital SPDIF outputs may be used in place of the stereo audio outputs (AUDIO R and L).

In most cases, these outputs offer a higher level of audio quality, including support for Dolby Digital 5:1 surround sound. Otherwise: Connect one end of the stereo audio cable to the AUDIO R and L connectors on the set-top. Connect the other end of the stereo audio cable to the AUDIO LEFT and AUDIO RIGHT connectors on the HDTV. · For information on configuring the set-top settings, see "Optimizing Your Set-Top for High-Definition TV." 28 QIP6200/QIP64xx User Guide CONNECTING YOUR SET-TOP TO AN A/V RECEIVER AUDIO ONLY 29 Connecting an A/V Receiver Audio Only There are three options available for audio connections to your A/V receiver: · · · Optical (OPTICAL SPDIF) Coaxial (SPDIF) Stereo audio (AUDIO R and L) If your equipment supports it, the optical (OPTICAL SPDIF connector) or coaxial (SPDIF connector) audio outputs may be used in place of the stereo audio outputs (AUDIO R and L). In most cases, these outputs offer a higher level of audio quality, including support for Dolby Digital 5.1 surround sound. · Optical SPDIF: Connect the optical SPDIF cable to the OPTICAL on the set-top and to the OPTICAL connector on the A/V receiver.



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SPDIF connector - SPDIF (coaxial): Connect the digital audio cable to the SPDIF connector on the set-top and to the DIGITAL INPUT COAX connector on the A/V receiver. Stereo audio: Connect the stereo audio cable to the AUDIO R and L connectors on the set-top and to the AUDIO LEFT and AUDIO RIGHT connectors on the A/V receiver.

· For information on configuring your set-top settings, see "Optimizing Your Set-Top for High-Definition TV." 30 QIP6200/QIP64xx User Guide CONNECTING YOUR SET-TOP TO A STEREO TV 31 Connecting a Stereo TV This video connection method does not support HD video. To connect an HDTV, see "Connecting Your Set-Top to an HDTV Video Only." 1 2 Connect an RF coaxial cable to the service provider's wall outlet and to the RF IN connector on the set-top. Connect the stereo audio cable to the AUDIO R and L connectors on the set-top and to the AUDIO LEFT and AUDIO RIGHT connectors on the stereo TV.

Connect a video cable to the VIDEO OUT connector on the set-top and to the INPUT VIDEO on the TV. Or, connect an S-video cable to the S-VIDEO connectors on the set-top and the TV. 3 32 QIP6200/QIP64xx User Guide CONNECTING YOUR SET-TOP TO A STEREO TV AND STEREO VCR RF (75 ohm) connector Video connector Audio connector QIP6xxx Series CU ON A T I R I K O F E L E C T R I S H O C K S C D O N O T O P E N S - V I D E O I N V I D E O O U T Y L P b S W I T C H E D 1 0 5 - 1 2 5 V 6 0 H z 4 A M A X 5 0 0 W M A X R F I N R F O U T I R S M A R T C A R D S P D I F R P r H D M I O P T I C A L S P D I F I N A U D I O O U T E T H E R N E T S A T A U S B T V P S S C A R D A I E E E 1 3 9 4 C a b l e i n L e f t (t o p) R i g h t (b o t t o m) S t e r e o V C R I N P U T C A B L E / A N T E N N A I N A U D I O V I D E O O U T P U T A U D I O V I D E O S t e r e o T V I N P U T S - V I D E O V I D E O T o T V R L R L C A B L E / A N T E N N A I N A U D I O L E F T A U D I O R I G H T 3 3
Connecting a Stereo TV and Stereo VCR This video connection method does not support HD video. For connecting an HDTV, see "Connecting Your Set-Top to an HDTV Video Only." 1 2 Connect an RF coaxial cable to the service provider's wall outlet and to the CABLE IN connector on the set-top.

Connect a stereo audio cable to the AUDIO OUT R and L connectors on the set-top and to the INPUT AUDIO R and L connectors on the stereo VCR. Connect a video cable to the VIDEO OUT connector on the set-top and to the INPUT VIDEO connector on the stereo VCR. Connect a stereo audio cable to the OUTPUT AUDIO R and L connectors on the Stereo VCR and to the INPUT AUDIO R and L connectors on the stereo TV. Connect a video cable to the OUTPUT VIDEO connector on the stereo VCR and to the INPUT VIDEO connector on the stereo TV. 3 4 5 34 QIP6200/QIP64xx User Guide CONNECTING YOUR SET-TOP TO AN A/V RECEIVER, TV, AND VCR 35 Connecting an A/V Receiver, TV, and VCR If your equipment supports it: · The optical (square SPDIF connector) or coaxial (round SPDIF connector) audio outputs may be used in place of the stereo audio outputs (AUDIO R and L). In most cases, these outputs offer a higher level of audio quality, including support for Dolby Digital 5:1 surround sound. S-video connections may be used in place of the standard RCA video connections. In most cases, S-video offers a higher level of standard definition video quality than RCA video. · This video connection method does not support HD video. For connecting an HDTV, see "Connecting Your Set-Top to an HDTV Video Only."

" 1 2 Connect an RF coaxial cable to the service provider's wall outlet and to the CABLE IN connector on the set-top. Connect a stereo audio cable to the AUDIO OUT R and L connectors on the set-top and to the INPUT R and L connectors on the A/V receiver. Connect a video cable to the VIDEO OUT connector on the set-top and to the CABLE/TV VIDEO connector on the A/V receiver. Connect a stereo audio cable to the VCR AUDIO OUT R and L connectors on the A/V receiver and to the INPUT AUDIO R and L connectors on the stereo VCR. Connect a stereo audio cable to the OUTPUT AUDIO OUT R and L connectors on the stereo VCR and to the VCR AUDIO IN R and L connectors on the A/V receiver. Connect a video cable to the INPUT VIDEO connector on the stereo VCR and to the VIDEO VCR OUT connector on the A/V receiver. Connect a video cable to the OUTPUT VIDEO connector on the stereo VCR and to the VIDEO VCR IN connector on the A/V receiver. Connect a video cable to the INPUT VIDEO connector on the stereo TV and to the TV/MONITOR OUTPUT VIDEO connector on the A/V receiver. 3 4 5 6 7 8 36 QIP6200/QIP64xx User Guide DATA DEVICES Do not attempt to connect data devices without contacting your service provider. Advanced data features require the proper application and network infrastructure to operate. Data Features In addition to high quality audio and video, the set-top has the capability to support the following data interfaces: USB 2.0, Ethernet, SATA, and IEEE 1394. Your set-top may be equipped with the interface connections illustrated, but their functionality depends on the services offered by your service provider. 37 TROUBLESHOOTING Before calling your service provider, review this troubleshooting guide. This information is to help you quickly solve a problem.

If your problem persists, contact your service provider. Problem The set-top will not power on Possible Solution The set-top may have received a software update and may not power on while the new software is being installed. Try again in a few minutes. Verify that the AC power cord is connected to the set-top and an AC outlet. Unplug the set-top from the AC outlet, plug it back in, and then press the POWER button.

If the set-top is connected to a switched outlet on another unit, verify that that unit is powered on. Unplug the set-top from the AC outlet, plug it back in, and then press the POWER button. Press the POWER button on the set-top front panel instead of the remote control. The batteries in the remote control may be depleted. The remote control does not work Verify that the remote control is in "Cable" mode. Verify that there are no obstructions between the remote control and the set-top. Aim the remote control directly at the set-top front panel, not the TV or VCR. The angle between the remote control and the set-top may be too large. Stand in front of the set-top and not too far to either side. Press and release operation keys one at a time, firmly and deliberately.

Try changing channels using the buttons on the set-top front panel. Check the batteries in the remote control. Install new batteries if needed. 38 QIP6200/QIP64xx User Guide Problem There is no audio when viewing channels Possible Solution Verify that the MUTE button on the set-top or the remote control has not been pressed. Press MUTE on the remote control to restore sound. If the set-top audio output is connected to the TV, verify that the MUTE button on the TV has not been pressed.



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If the set-top audio output is connected to a digital/home theater receiver, verify that the receiver is set to the appropriate input source and the MUTE button on the receiver has not been pressed. Verify that you have the correct cables for the audio ports. Verify that the audio cables are firmly connected between the set-top and the audio playback device (TV, receiver, DVD player, etc.).

There is no audio from the center and/or surround speakers of a digital/home theater receiver connected to the set-top. Not all Dolby Digital programs feature full 5:1 surround sound. In some cases, the programs may only contain left and right stereo audio. Verify that the SPDIF cable (round coaxial connector or square optical connector) is firmly connected to the set-top and the home theater receiver. Verify that the home theater receiver is set to a surround sound audio mode (Dolby Digital, Dolby Pro Logic II, Dolby Pro Logic). Verify that the receiver is properly configured to work with all connected speakers.

39 Problem There is no video on the TV screen. **Possible Solution** Verify that the TV is powered on and set to the appropriate input source for the set-top. Verify that the set-top is powered on and tuned to an authorized digital TV channel. Verify that all video cables between the set-top and the TV are firmly connected. Verify that the coaxial cable feed is firmly connected to the set-top and the wall jack. If the set-top video output is connected to a home theater receiver, verify that the home theater receiver is powered on and set to the appropriate input source.

If the set-top video output is connected to a TV through a DVI/HDMI connection, power off the TV and then power off the set-top. Wait one second and then power on the devices. For HDMI connections only, select Restore All Defaults to force the TV and the set-top to exchange information to automatically determine settings suited for your TV. For information about user settings, see "Optimizing Your Output Settings." Not all HDTVs can display every output format (1080i, 720p, 480p, or 480i) available on the set-top. To select a different format: 1 Ensure that your set-top is plugged into a power outlet and is turned off. 2 Press the MENU key on the front panel. Your settings are displayed on the front panel display. 3 Press the and keys to display the HDMI/YPbPr OUTPUT setting. 4 Press the key to cycle through the available output formats until a picture displays on the TV.

40 QIP6200/QIP64xx User Guide Problem There are no graphics, closed captions, or program guides appearing on the TV screen. **Possible Solution** The set-top cannot generate graphics on all video outputs at all times. If the set-top is set to 1080i, 720p, or 480p output format, graphics are only available on the HD video outputs (HDMI and component video). @@@@ Turn on the 4:3 OVERRIDE feature on the User Settings menu. This enables most wide screen TVs to stretch the video to fill the screen (see your TV manual for information about stretching 4:3 video). If the set-top is connected to a wide screen TV, verify that the TV TYPE is set to 16:9 in the User Settings menu. Many HD programs are broadcast in pillar-box format with black bars to the left and right of the picture. These programs are broadcast in 16:9 HD formats even though the video is not 16:9. **41 Problem** There are black bars above and below the picture. **Possible Solution** All 4:3 HDTVs display HD programs in letterbox format (black bars above and below the picture) because of the shape of the display screen. Turn on the 4:3 OVERRIDE feature in the User Settings menu. This enables most standard screen TVs to display a full screen picture when the set-top is tuned to a 4:3 program.

Set the TV TYPE to 4:3 Pan-Scan. This enables the set-top to remove the black bars above and below the picture when possible. Some SD programs are broadcast in the letterbox format with black bars above and below the picture. Some wide screen TVs offer a zoom feature that may be able to remove the black bars (see your TV manual for information about zooming 4:3 video). There are black bars on all four sides of the picture. This may occur on a 4:3 TV if the 4:3 OVERRIDE setting is OFF.

To set 4:3 SD programming to fill the screen, depending on the capabilities of the TV, set 4:3 OVERRIDE to 480i or 480p. This may occur on a 16:9 TV if the active video for an SD broadcast is in letterbox format. To confirm, wait for a commercial or look for a graphic, such as a network logo. If the commercial fills the screen from top to bottom, or the graphic appears below the active video, the program is being letterboxed by the broadcaster. You can minimize this by activating the zoom feature on the TV.

A broadcaster may include black bars on either side of a wide screen broadcast. This is called a "hybrid" aspect ratio and results in a black border surrounding the video on a 4:3 TV. Because this is part of the broadcast, the set-top cannot correct the video. You may be able to minimize the border using the zoom feature on the TV. **42 QIP6200/QIP64xx User Guide Problem** The video is horizontally distorted on the HDTV screen. **Possible Solution** A standard definition program is being stretched to fit the HDTV screen: · On the User Settings menu, check whether the 4:3 Override is set to Stretch. If you do not like the distortion, you can choose another option. For information about user settings, see "Optimizing Your Output Settings." If the display remains horizontally distorted, the standard definition program is being stretched by the HD channel provider. · The set-top is making a humming noise. The set-top includes an integrated hard drive and a fan for cooling.

During normal operation, the set-top emits a low humming noise, similar to a personal computer. The noise varies in volume occasionally when the speed of the internal fan adjusts to changes in the temperature around the set-top. Please note the hard drive will stay on even when the set-top is turned off. **43** Visit our website at: www.motorola.com/521696-001 rev B 7/05 MGB1.



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