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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH RU-52SZ30. You'll find the answers to all your questions on the ZENITH RU-52SZ30 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH RU-52SZ30
User guide ZENITH RU-52SZ30
Operating instructions ZENITH RU-52SZ30
Instructions for use ZENITH RU-52SZ30
Instruction manual ZENITH RU-52SZ30



LCD Projection TV OWNER'S MANUAL

MODELS : RU-52SZ30
RU-60SZ30

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this
information to your dealer when you require service.

Internet Home Page : <http://www.lge.com>



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Manual abstract:

Record model number and serial number of the set. @@@@NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL. @@@@POWER CORD POLARIZATION: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 to the point of the cable entry as practical. REGULATORY INFORMATION: 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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. CAUTION: Do not attempt to modify this product in any way without written authorization from LG Electronics Corporation.

Unauthorized modification could void the user's authority to operate this product. PAGE 2 IMPORTANT SAFETY INSTRUCTIONS Important safeguards for you and your new product Your product has been manufactured and tested with your safety in mind. However, improper use can result in electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference. Observing the simple precautions discussed in this manual can help you get many years of enjoyment and safe operation that are built into your new product. This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association. 1. Read Instructions All the safety and operating instructions should be read before the product is operated.

9. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 2. Follow Instructions All operating and use instructions should be followed. 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 3. Retain Instructions The safety and operating instructions should be retained for future reference.

4. Heed Warnings All warnings on the product and in the operating instructions should be adhered to. 5. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

Use a damp cloth for cleaning. 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

6. Water and Moisture Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. 12. Power-Cord Polarization This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. 7.

Accessories Carts and Stands Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. 8. Transporting Product A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. (Continued on next page) PORTABLE CART WARNING PAGE 3 IMPORTANT SAFETY INSTRUCTIONS (Continued from previous page) 14.

Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded to provide protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antennadischarge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.



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.....
.....	.42-44 Step 1. Hook Up TV Rear Connections Panel . .
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.....9 Cable Box Connections
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.....10 VCR Connections
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.....11 DVD Player
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.....12 RGB/DVI-HD/STB Input
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.....	.13 RGB-PC/DVI-PC Input
.....
.....14 External Stereo Connections
.....e colorcoded.

Picture and sound traveling through cable, or over the air, to your television screen. **SIGNAL PAGE 7 Front Connection Panel** There are four jacks on the left front side behind the screen on your projection TV that make connecting Audio/Video devices like video games and camcorders very simple. The jacks are like those found on the back jack connection panel. This means that most equipment that connects to those types of jacks on the rear jackpack, may be connected to the front connection panel. To use the front jacks as the signal source, select them using Main Source menu as described on page 22. They will be named "Front Video" in the Main Source menu. **Front A/V Panel** When you select Front Video or Front S-Video, the Front audio inputs are automatically selected as well. If you're connecting a video game device, make sure to change the picture settings with the EZ Video option in the Video menu (see page 29). **S-VIDEO Video** Connects the video signals from any piece of equipment. **FRONT A/V S-Video** A connection available on some very high-end equipment that provides better picture quality than video input. **Left/Right Audio** Used for stereo sound from various types of equipment. **Mini glossary A/V CABLES** Audio/Video cables. Three cable connector--Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices. Any device that produces video or sound (VCR, DVD, cable box, or television).

A/V DEVICE PAGE 8 R AUDIO L/MONO VIDEO ANT / Cable Service Hookup Cable TV Wall jack Antenna 1 2 Connect an antenna and/or cable service to your TV as shown. Turn to page 26 to do a channel search with EZ Scan for Ant/Cable connection(s). RF coaxial wire (75 ohm) RF coaxial wire (75 ohm) **ANT IN +75 S-VIDEO MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO (L) MONO AUDIO (R)** If you receive your RF signal through an antenna that is several years old and connects with two small prongs, you will need to purchase a 300 to 75 ohm adapter. It should be available from your local electronics dealer. It recommends using a 75 ohm cable for your antenna connections in order to prevent interference. For best signal reception, it is recommended to have your Antenna professionally adjusted. **PAGE 9 Cable Box Connections 1** Locate the output jack on the back of your cable box. Connect

this to the Antenna jack on the back of your TV. Or find the composite video and audio jacks on the back of your cable box, and connect them following the instructions provided with your equipment. This can be combined with any other equipment you may want to hook up.

Cable TV Wall jack Out In Output Switch 3 4 RF coaxial wire (75 ohm) ANT IN +75 Cable box S-VIDEO MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO Audio L R Video (L) MONO AUDIO (R) TV VCR If you're using a cable box, leave the TV on channel 3 or 4 and use your cable box to change channels.



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PAGE 10 VCR Connections 1 Locate the Antenna jack on the back of your TV. Connect this to out jack on the back of your VCR. Or find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment. You may connect either the composite video or the S-Video cables to your TV.

(Do not connect BOTH the composite and the S- Video cables. In the event that you connect both composite and the SVideo cables, only the S-Video will work.) Cable TV Wall jack Antenna ANT IN +75 RF coaxial wire (75 ohm) Round wire (75 ohm) S-VIDEO MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO Back AV panel Output 3 4 Switch In Out Audio Video S-Video L R (L) MONO AUDIO (R) A/V cables not included with TV VCR To hear stereo sound from cable or your VCR, you will need to connect A/V cables as well as the wire that runs from the VCR to your TV. If you want to receive your signals on Channel 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna In jack on the back of your TV.

After connecting external equipment to the TV, don't display a still picture for a long time on the screen. Doing so may damage the TV screen. PAGE 11 DVD Player 1 Find the audio and component or S-Video jacks on the back of your DVD Player and connect them following the instructions provided with your equipment. You may connect either the composite video or the S-Video cables to your TV. Do not connect both the composite and the S-Video. DVD player Some high-end DVD players use a picture reproduction system called "component video." If your DVD player has component output, use the connector marked "Component 1/2" on the jack panel. Please refer to your DVD manual for proper installation. Back AV panel RGB INPUT Audio L R Dolby Digital Component Video Out PC/DTV (XGA /480p /720p /1080i) S-Video S-VIDEO C A L I B R A T I O N COMPONENT INPUT2 INPUT1 RGB/DVI INPUT MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO Y (L) AUDIO PB (R) MONO (L) AUDIO (R) PR PC/DTV (XGA /480p /720p /1080i) (L) DVI INPUT AUDIO CENTER MODE IN AUDIO (R) DTV/DVD INPUT V (L) A R AUDIO I A B (R) A U D I O A /V cables not included with TV LO EU T Component 1 (or 2) Input Y PB PR · Component Input ports Connect DVD player jacks to Monitor Component input jacks as indicated below. Component input jacks on the Monitor Video output jacks of DVD player Y Y Y Y Y PB Pb B-Y Cb PB PR Pr R-Y Cr PR 1920X1080i 1280X720p 720X480p 720X480i Mini glossary COMPONENT VIDEO Some video equipments uses three separate lines (Y, PB, PR) to more precisely reproduce images.

Your manual will explain how this relates to your equipment. PAGE 12 RGB/DVI-HD/STB Input 1 Find the audio and Y, PB, PR/RGB/DVI jacks on the back of your DBS receiver and connect them following the instructions provided with your equipment. Connect these cables to your TV as shown. DBS Receiver Component Out Dolby Digital Y Pb Pr Out Audio LR C A L I B R A T I O N COMPONENT INPUT2 INPUT1 Y 2 PB PR PC/DTV (XGA /480p /720p /1080i) A/V cables not included with TV (L) AUDIO DVI INPUT (R) DTV/DVD INPUT DBS Receiver Audio LR Dolby Digital Out RGB INPUT PC/DTV (XGA /480p /720p /1080i) C A L I B R A T I O N COMPONENT INPUT2 INPUT1 RGB/DVI INPUT or A/V cables not included with TV Y (L) AUDIO PB (R) PR PC/DTV (XGA /480p /720p /1080i) AUDIO CENTER MODE IN (L) AUDIO (R) DTV/DVD INPUT The DTV shows the sharpest picture in 720p mode. DVI INPUT V (L) A R AUDIO I A B (R) L E A U D I O O U T This TV supports HDCP (High-baudwidth Digital Contents Protection) protocol for DVI-DTV (480p, 720p, 1080i) mode. Select RGB-DTV Source and press ENTER. Use UP/DOWN arrows to select the desired options (V-position/H-position/PHASE) and then use LEFT/RIGHT arrows to make appropriate adjustments. In RGB-DTV, it's not available to adjust V-position/H-position/PHASE when you choose the POP or Split mode. RGB-HD/STB Input HD-SET TOP 1920x1080i 1280x720P 720x480P Signal 480i 480p 720p 1080i Component1 Yes Yes Yes Yes Component2 Yes Yes Yes Yes RGB/DVI-DTV No Yes Yes Yes PAGE 13 RGB-PC/DVI-PC Input 1 Find the audio and RGB or DVI jacks on the back of your PC and then connect them following the instructions provided with your equipment. Connect these cables to your TV as shown.

2 Computer RGB INPUT PC/DTV (XGA /480p /720p /1080i) C A L I B R A T I O N COMPONENT INPUT2 INPUT1 RGB/DVI INPUT Y (L) AUDIO PB (R) PR PC/DTV (XGA /480p /720p /1080i) AUDIO CENTER MODE IN V A R AUDIO I A B (R) L E (L) A U D I O O U T (L) AUDIO DVI INPUT (R) DTV/DVD INPUT Select RGB-PC Source and press ENTER. Use UP/DOWN arrows to select the desired options (V-position/H-position/V-size/Hsize/PHASE) and then use LEFT/RIGHT arrows to make appropriate adjustments. - Vertical position, Horizontal position, Vertical size, and Horizontal size: Based on the input mode (resolution), the adjustment range may change. - PHASE: Remove any horizontal noise and clear up or sharpen the character images. Adjustment ranges are -15 ~ + 15.

In DVI-PC, it's available to adjust Vertical size, and Horizontal size only. In RGB-PC/DVI-PC, it's not available to adjust V-position/H-position/V-size/H-size/PHASE when you choose the POP or Split mode. RGB-PC/DVI-PC Input MODE Resolution Horizontal 640x350 640x480 640x480 640x480 800x600 800x600 800x600 800x600 1024x768 31.5KHz 31.5KHz 37.

9KHz 37.5KHz 35.2KHz 37.9KHz 48.1KHz 46.9KHz 48.4KHz 56.5KHz 60.0KHz Vertical 70Hz 60Hz 72Hz 75Hz 56Hz 60Hz 72Hz 75Hz 60Hz 70Hz 75Hz Text VGA SVGA Synchronization input form: Signals are separate. XGA 1024x768 1024x768 PAGE 14 External Stereo Connections Connect Left/Right Variable Audio Output to an external Audio Amplifier System.

1 Locate both Variable Audio Out jacks on the back of your TV and the Left/Right audio input jacks on the back of your stereo's amplifier. Connect these jacks, making sure that the right and left channels are connected correctly. Adjust the sound on your stereo, according to directions provided with the amplifier. 2 3 ANT IN +75 RGB INPUT PC/DTV (XGA /480p /720p /1080i) C A L I B R A T I O N COMPONENT INPUT2 INPUT1 RGB/DVI INPUT S-VIDEO MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO Y (L) AUDIO PB (R) MONO (L) AUDIO (R) PR Analog stereo amplifier L R PC/DTV (XGA /480p /720p /1080i) AUDIO CENTER MODE IN (L) AUDIO (R) DTV/DVD INPUT DVI INPUT VA (L) AU RD I AUDIO I O A B (R) L O EU T A/V cables not included with TV PAGE 15 Room Setups for Home Theater This is just a general room design. Any number of setups are possible, and some changes may be needed to maximize your sound.



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However, a Dolby Digital Receiver is required to hear 5.1 channel audio. A left and right speaker on either side of the set enhances separation. The TV "center mode in," makes the dialog sound as though it's coming directly from the TV. The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies.

Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio. left speaker right speaker sub-woofer surround sound speaker surround sound speaker Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions. You have the option of turning the internal speakers on or off. PAGE 16 Monitor Out Setup 1 2 Your TV has a special signal output capability which allows you to hook up a second TV or monitor. Just connect the second TV or monitor to the MONITOR OUT Audio/Video jacks located on the back of your TV.

See the Operating Manual of the second TV or monitor for further details regarding that device's input settings. ANT IN +75 RGB INPUT PC/DTV (XGA /480p /720p /1080i) C A L I B R A T I O N COMPONENT INPUT2 INPUT1 RGB/DVI INPUT Second TV S-VIDEO MONITOR OUT VIDEO INPUT 2 VIDEO INPUT 1 VIDEO Y (L) AUDIO PB (R) MONO PB (L) AUDIO (R) S-Video Video Audio PR PC/DTV (XGA /480p /720p /1080i) (L) DVI INPUT AUDIO CENTER MODE IN AUDIO (R) DTV/DVD INPUT V (L) A R AUDIO I A B (R) L E A U D I O O U T A/V cables not included with TV Component 1 - 2, RGB-DTV/PC, and DVI-DTV/PC input sources for main picture cannot be used for Monitor Out. PAGE 17 Remote Control Functions in TV Mode MODE Selects the remote operating mode: TV, VCR, Cable, DVD and Satellite. Select other operating modes, for the remote to control external devices. INDICATOR LIGHTS tv mode vcr cable dvd sat light power TV/VIDEO Selects: Analog, Video1, Video2, Front video, Component1-2, RGB, and DVI input sources.

Show active remote mode every time any button is pressed. LIGHT Illuminates the remote control keys. FRONT Selects the front video signal if a device, such as a camcorder or game player, is connected to the front video input jack. tv/video comp1 front comp2 dvi DVI rgb Selects: DVI-DTV and DVI-PC input sources. MUTE Switches the sound on or off 1 4 7 enter mute 2 5 8 0 3 6 9 flashbk surf SURF Scrolls the Surf channel list. SAP Selects: Mono, Stereo, and SAP. VIDEO Adjusts the factory preset picture according to the room. PIP Toggles between PIP, POP (Picture-out-of-Picture) and Twin picture mode. sap vol ch video SWAP swap pip pipch- pipch+ PIPCHanges to next lower PIP channel ratio cc freeze pip input Swap the signal from your PIP, POP, twin picture mode to the main screen. PIPCH+ Changes to next higher PIP channel.

THUMBSTICK Allows you to navigate the on-screen menus and to adjust the system settings and preferences, by moving to D an option with F E G and selecting the highlighted option with . menu exit FREEZE Captures and freezes the currently viewed sub picture in PIP mode. MENU Brings up the main menu to the screen. play rew pause stop record ff skip EXIT Clears all on-screen displays and returns to TV viewing from any menu. PAGE 18 Remote Control Functions in TV Mode tv mode vcr cable dvd sat light power POWER tv/video comp1 front comp2 dvi rgb Turns your TV or any other programmed equipment on or off, depending on mode. COMPONENT 1, 2 Selects component signal sources, such as DVD or HD receiver. RGB 1 4 7 enter mute 2 5 8 0 3 6 9 flashbk surf Selects: RGB-DTV and RGB-PC input sources. NUMBER KEYPAD For direct channel selection and programming functions. ENTER When in the menu system and other on-screen displays, selects highlighted options. FLASHBK Tunes to the last channel viewed.

sap video vol ch VOLUME UP/DOWN Increases/decreases the sound level. pip CHANNEL UP/DOWN swap pipch- pipch+ Scrolls through available channels in EZ Scan memory. RATIO Changes the screen format or aspect ratio. ratio cc freeze pip input PIP INPUT Selects the input source for the sub picture. CC Lets you select a closed caption mode for displaying captioning information when provided.

menu exit ENTER When in the menu system and other on-screen displays, selects highlighted options. play pause stop record ff RECORD, PAUSE, REW, FFWD, PLAY, STOP Control the functions on your VCR. rew SKIP skip Playing CDs: Selects songs. Playing DVDs: Selects movie chapters. PAGE 19 On-Screen Displays This page describes your on-screen display and information banner options.

Main Channel Display Displays current channel number. Channel Label If a channel label has been set, then it will appear here. TV 13 MONO ABC PIP Display This display appears when PIP is active. TV 6 AM 03:00 10 Mute Appears when sound is muted. Volume Volume level is displayed while adjusting the sound. Time Appears when pressing the enter button on remote control. PAGE 20 Front Panel Controls 1 2 3 4 5 6 7 8 Power On / Off Menu Enter (Same as ENTER button on your remote control) VOLUME UP / DOWN CHANNEL UP / DOWN Operation indicator. (See page 6). Lamp indicator. (See page 6).

Temperature indicator. (See page 6). RU-52SZ30 power menu enter vol ch 1 2 power menu 3 6 4 vol 5 ch 8 7 enter RU-60SZ30 See menu pages for instructions on using the onscreen menus. The POWER, CHANNEL and VOLUME buttons work just as they do on your remote control. Don't turn TV on after placing TV from low temperature to normal temperature. It may cause humidity of inside TV. Try it again after about 3 hours. PAGE 21 Main Picture Source Selection Changes the picture source for the main screen so you can watch your off-air TV, cable TV, VCR, DVD, or any other devices that are connected to your TV. SETUP VIDEO AUDIO SPECIAL Main Source PIP Source EZ Scan G Ant/Cable Video 1 Video 2 Front Video Component 1 Component 2 RGB-DTV DVI-DTV Ch. Add/Del/Surf Ch.

Label TIME LOCK F Prev. 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu. tv vcr cable dvd sat light power Press ENTER or the RIGHT arrow button to access the Setup menu. Use the UP/DOWN arrows to select Main Source. Press ENTER or the RIGHT arrow to access the Main Source menu, then use the UP/DOWN arrow button to select the source.

Your picture source options are : Ant/Cable, Video 1, Video 2, Front Video, Component 1, Component 2, RGB-DTV, RGB-PC, DVI-DTV and DVI-PC. Press EXIT to save and return to TV viewing or press the LEFT arrow to save and return to the previous Menu. mode tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/4 enter mute sap vol ch video 5 pip pipch- pipch+ swap ratio cc freeze pip input 1/3/4 5 1 1/3/4 menu exit 2/4 5 play rew pause stop record ff skip PAGE 22 PIP (Picture-In-Picture) PIP lets you view 2 different inputs (sources) on your monitor screen at the same time.



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One source will be large, and the other source will show a smaller inset image. Watching PIP Press the PIP button to show the sub picture. Each press of PIP changes the PIP options as shown below. PIP mode POP mode Twin Picture mode PIP Source Selection Changes the picture source for the Picture-In-Picture screen so you can watch your off-air TV, cable TV, VCR, or any other devices that are connected to your TV. Using the menu 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu. Press ENTER or the RIGHT arrow button to access the Setup menu. Use the UP/DOWN arrows to select the PIP Source option. Press ENTER or the RIGHT arrow to access the PIP source menu, then use the UP/DOWN arrow button to select the source. Your choices are: Ant/Cable, Video 1, Video 2, Front Video. Press EXIT to save and return to TV viewing or press the LEFT arrow to save and return to the previous Menu. SETUP Main Source PIP Source G Ant/Cable Video 1 Video 2 Front Video VIDEO AUDIO SPECIAL EZ Scan Ch. Add/Del/Surf Ch.

Label TIME LOCK F Prev. 5 Do not display a fixed image on the screen for long periods of time. Not all sources are available for PIP. Using the PIP INPUT button 1 Use the PIP INPUT button to select the input source for the sub picture. Each time you press PIP INPUT button, you toggle between Ant/Cable, Video 1, Video 2, Front Video. PAGE 23 PIP (Picture-In-Picture) Selecting PIP Channels 1 2 Select the Ant/Cable source with the PIP INPUT button. Use the PIPCH-/PIPCH+ button to select a channel for the sub picture. Swapping Screen Press the SWAP button. Each time you press the SWAP button, you switch the Main and PIP pictures. Main Picture Sub Picture Moving the Sub Picture In the PIP mode, each press of the UP/DOWN/LEFT/RIGHT arrow button will move the sub picture to a different position on the screen.

POP (Picture-Out-Of-Picture) Use POP to search the pictures of all the programmed channels one-by-one on the 3 PIP screen display, while the main screen remains the current channel. 1 Press PIP on the remote control with the PIP image on the screen to activate POP (Picture-out-of-Picture) mode. The pictures of all the programmed channels are searched with the 3 PIP screen, as shown to the right. · Press SWAP, to enlarge the selected channel being searched on the PIP screen to view it on the Main screen. (It's available to swap main and sub picture when main picture source is Ant/Cable) 2 Press the EXIT button to exit POP mode.

Run EZ Scan channel search before using POP mode. PAGE 24 Twin Picture Twin Picture splits the screen into 2, allowing 2 picture sources to be shown on the TV screen at the same time. Each source is given half the screen. Watching Twin Picture 1 2 Press the PIP button on the remote control in POP mode to activate twin picture mode. Select the Ant/Cable source with the PIP INPUT button.

Use the PIPCH-/PIPCH+ button to select the desired channel for the sub picture. Swapping Screen Press the Swap button. Each time you press SWAP, you switch the PIP and Main screen channels. Main Picture Sub Picture Selecting an Input Signal Source for Sub Picture Use the PIP INPUT button to select the input source for the sub picture. Each time you press PIP INPUT, you toggle between Ant/Cable, Video 1, Video 2, Front Video. PAGE 25 EZ Scan (Channel Search) Automatically finds analog channels available through antenna and cable inputs, and stores all active channels in memory on the channel list.

SETUP Main Source PIP Source VIDEO AUDIO SPECIAL EZ Scan Ch. Label G Press () to start Ch. Add/Del/Surf TIME LOCK F Prev. 1 Use pages 9-14 to connect external equipment to your TV.

If you have not done so, plug in your TV to a standard 120V 60Hz power outlet. tv mode vcr cable dvd sat light power tv/video front comp2 dvi rgb 3 2 If you have not done so, remove the back of the remote and put in two AA batteries. Make sure batteries are properly installed (check the +/- symbols). comp1 1 4 7 2 5 8 0 3 6 9 flashbk surf/back of remote 5/7 enter mute sap video vol ch 3 4 5 6 7 With the remote control in hand, press the POWER button to turn on your TV.

Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu. Press ENTER or the RIGHT arrow button to access the Setup menu. Use the UP/DOWN arrows to select EZ Scan. Press ENTER or the Right arrow button to start the EZ Scan channel search. pip pipch-pipch+ swap ratio cc freeze pip input 4/6 4 4/6 menu exit 5/7 play rew pause stop record ff skip PAGE 26 Channel Add / Del / Surf Setup SETUP Main Source PIP Source ESPN Shown TV 11 TV 2 6 7 12 17 22 27 32 37 42 CATV 3 8 13 18 23 28 33 38 43 4 9 14 19 24 29 34 39 44 5 10 15 20 25 30 35 40 45 VIDEO AUDIO SPECIAL EZ Scan Ch. Add/Del/Surf Ch.

Label G Following Screen will let you edit channels and SurfList 11 Surf List 16 21 26 31 TV 11 TV 20 TIME LOCK F 36 41 Create two different types of channel lists in memory: "Custom list" and "Surf list". A custom list can be created by toggling each channel on or off with (Enter). Once a channel is highlighted, you will be able to see whether the channel is currently added or deleted by referring to the small window at the top-left corner of the screen. You can create your own Surf list with up to 16 channels. It appears at the bottom-left corner of the screen.

Press the Surf button on the remote control when a channel is highlighted to add or delete the channel in the Surf list. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 2 5 8 0 3 6 9 flashbk surf 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu. Press ENTER or the RIGHT arrow button to access the Setup menu. Use the UP/DOWN arrows to select Channel Add/Del/Surf and then press ENTER or right arrow. You will now see a screen filled with channel numbers and a preview picture.

Use the UP/DOWN and LEFT/RIGHT arrows to select a channel, then use ENTER to add or delete it. Press SURF to add the channel to the Surf List. Press EXIT to save and return to TV viewing or press MENU to save and return to the previous menu. 4 7 2/3/4 enter mute 4 sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 4 1/5 1/3/4 menu exit 1/3/4 2/3/4 5 play rew pause stop record ff skip 5 PAGE 27 (Prev. MENU Previous Show/Hide SURF Surf () Move (Channel Label Setup SETUP Main Source PIP Source ESPN TV 25 A&E TBN HSN CNN CMTV VC PBS ET ADC TMC JCN CSP2 WB ESPN ABC TELE IC COM VISN QVC FNN BET HSE CNBC VCR PLAY EWTN AMC TNN LIFE CTN NOS ESP2 ACTS TLC INSP CSPN VJN RDS FOX VIDEO AUDIO SPECIAL EZ Scan Ch.



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Add/Del/Surf Ch. Label G Following Screen will let you put the logos in channels VH-1 PTL FAM BCC TIME LOCK F TNT Prev. Choose preset labels for your channels. 1 2 3 4 5 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu. Press ENTER or the RIGHT arrow button to access the Setup menu.

Use the UP/DOWN arrows to select the CH Label option. Use Channel +/- on your remote control in the CH Label menu to select a channel for labeling, then choose a suitable label for the channel by pressing to set the label to the selected channel. tv vcr cable dvd sat light power Press ENTER or the RIGHT arrow to access the CH.Label menu. You will now see a screen filled with Labels and a preview screen. Use channel UP/DOWN button on your remote to select the a channel to Label. Use the UP/DOWN and LEFT/RIGHT arrows to select the appropriate label for the channel or to select blank section for making channel name. · Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel. · Use the UP/DOWN/ LEFT/RIGHT arrows and press SURF to edit channel name. Eight channels are made.

Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save. mode tv/video comp1 front comp2 dvi rgb 1 4 2 5 8 0 3 6 9 flashbk surf 6 7 2/4/6 enter mute (MENU Previous Set () Move CH Change Channel sap vol ch video (pip pipch- pipch+ swap 6 5 ratio cc freeze pip input 6 1 1/3/6 menu exit 1/3/6 2/4/6 8 play rew pause stop record ff skip 7 8 Repeat 5 and 6 steps until all channels are Labeled.

Press EXIT to save and return to TV viewing. PAGE 28 VIDEO Menu Adjust the picture appearance to suit your preference and viewing situations.

SETUP Contrast Brightness G 50 VIDEO AUDIO Sharpness Color Tint Color Temperature SPECIAL EZ Video TIME LOCK F Prev. You can manually adjust the levels of picture quality settings, such as Contrast, Brightness, Sharpness, etc. You can also select the preset value in the EZ Video menu based on the program category. 1 2 3 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Video menu. Press ENTER or the RIGHT arrow button to access the Video menu.

Use the UP/DOWN arrows to select one of the following options. Your options are: Contrast, Brightness, Sharpness, Color, Tint, EZ Video (Custom, Normal, Movie, Video Game, Sports, Weak Signal and Daylight), and Color Temperature (Warm, Medium, Cool). Then press ENTER or the Right arrow button. Use the LEFT/RIGHT arrows to adjust the option to your preference (Contrast, Brightness, Sharpness, Color, Tint). Use the UP/DOWN arrows to select the option to your preference (EZ Video, Color Temperature). Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/3/5 enter mute sap vol ch video 4 pip pipch- pipch+ swap ratio cc freeze pip input 1/3/4 4 1 1/3/4 menu exit 5 2/3/4 5 play rew pause stop record ff skip PAGE 29 VIDEO Menu SETUP VIDEO AUDIO SPECIAL Contrast E F 90 G TIME LOCK · Contrast Adjusts the difference between the light and dark levels of the picture. Press the right arrow button to activate adjusting. · Brightness Adjusts the white or light level of the overall picture. · Sharpness Adjusts the level of crispness in the edges between the light and dark areas of the picture.

The lower the level, the softer the image. · Color Adjusts the intensity of all colors. · Tint Adjusts the balance between the red and green levels. · EZ Video Lets you choose the preset value of the picture settings. Custom Lets you adjust the picture settings manually. Normal Restores the levels to their original picture settings. Movie Adjusts Video settings to enhance Movie viewing. Contrast and Sharpness levels are lowered so that the picture looks warm and soft. 3:2 cinema collection is only applied when choosing movie in EZ video option. Video Game Sets the picture settings to the levels that are more suitable to enjoy games.

Color, Contrast and Sharpness levels are lowered to reduce the amount of glare. Sports Sets the picture settings to the levels that are more suitable to view sporting events. Contrast and Color levels are raised so that an action scene appears clear and brilliant. Weak Signal Adjusts the picture settings to compensate for a weak signal reception. Contrast, Color and Sharpness levels are lowered to hide the picture imperfections.

Daylight: Increases the levels of all picture settings to fit daylight conditions. @@Press ENTER or the RIGHT arrow button to access the Audio menu. Use the UP/DOWN arrows to select one of the following options. @@Then press ENTER or the RIGHT arrow button. @@@@ @@@@ @@@@ · EZ Sound: Lets you choose the sound settings manually.

Custom: Lets you adjust the Audio menu sound options manually. Normal: Restores the sound levels to their original settings. @@News: Increase high frequency sounds to emphasize the human voice. @@@@ @@@@ @@@@ @@@@ @@@@ @@@@ Or press RATIO button to instantly access the Aspect Ratio menu. Press ENTER or the RIGHT arrow button to activate the Special menu. Use the UP/DOWN arrows to choose Aspect Ratio. @@@@ @@@@ (Useful for viewing 4:3 formatted DVDs.) · Horizon - Choose when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view. · Zoom1 - Choose when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

· Zoom2 - Choose when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage. SETUP Aspect Ratio VIDEO AUDIO SPECIAL Captions EZ Demo G 4:3 16:9 Horizon Zoom1 Zoom2 Trilingual Menus 2 3 4 TIME LOCK F Prev. Lets you choose the way that an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed according to your preference. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/4/5 enter mute sap vol ch video pip pipch- pipch+ swap 5 Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. With RGB-PC, you can select either 4:3 or 16:9 aspect ratios. With RGB-DTV (720p, 1080i) and Component 1-2 (720p, 1080i), you can select either 4:3, 16:9 and Zoom1-2 aspect ratios.



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Aspect ratio is changed to 16:9 automatically when receiving 720p and 1080i to component input 1/2, RGB, and DVI jack. After connecting external equipment to the TV, don't display a still picture for a long time on the screen.

Doing so may damage the TV screen. 1 ratio cc freeze pip input 1/3/4 1 1/3/4 menu exit 2/4 5 play rew pause stop record ff skip PAGE 33 On-Screen Menus Language Select your preferred language for the menus: English, Spanish, or French. SETUP Aspect Ratio Trilingual Menus G English Español Français VIDEO AUDIO SPECIAL Captions EZ Demo TIME LOCK F Prev. 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu. tv vcr cable dvd sat light power Press ENTER or the RIGHT arrow button to activate the Special menu.

Use the UP/DOWN arrows to choose Trilingual Menus. Press ENTER or the RIGHT arrow button to move into the Language selection menu. Use the UP/DOWN arrow button to select the language you wish to view on your on-screen menus. Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. mode tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/4/5 enter mute 5 sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 1/3/4 1 1/3/4 menu exit 2/4 5 play rew pause stop record ff skip PAGE 34 Captions/Text Select a closed caption mode for displaying captioning information when provided on the program.

Captions displays information at any position on the screen usually the program's dialog. Text displays information, usually at the bottom position and is used for a data service, generally not program related. SETUP Aspect Ratio Trilingual Menus Off Caption 1 Caption 2 Caption 3 Caption 4 Text 1 Text 2 Text 3 Text 4 VIDEO AUDIO SPECIAL Captions EZ Demo G TIME Using the menu LOCK F Prev. 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu. Press ENTER or the RIGHT arrow button to activate the Special menu. Use the UP/DOWN arrows to choose Captions, then press ENTER or the Right arrow button. Use the UP/DOWN arrow buttons to make your caption selection. Your choices are: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 and Text 4. Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 2 5 8 0 3 6 9 flashbk surf 5 4 7 2/3/5 Using the CC button Use the CC button to select captions.

Each press of the CC button changes the caption option; Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 and Text 4. enter mute sap vol ch video 1 pip pipch- pipch+ swap ratio cc freeze pip input 1/3/4 menu exit 2 Press EXIT to save and return to TV viewing. 1/3/4 If the volume is muted, Captions is changed to caption 1 automatically. 1 play rew pause stop record ff skip 2/3 5 PAGE 35 EZ Demo Use EZ Demo to see the features and menu options available on your TV. SETUP Aspect Ratio Trilingual Menus VIDEO AUDIO SPECIAL Captions EZ Demo G Following Screen will show you EZ Demo. TIME LOCK F Prev. 1 2 3 4 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu. Press ENTER or the RIGHT arrow button to activate the Special menu. Use the UP/DOWN arrows to choose EZ Demo, then press ENTER or the RIGHT arrow button to activate EZ Demo. Press EXIT button on the remote to stop EZ Demo.

tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/3 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 1/3 1 1/3 menu exit 2/3 4 play rew pause stop record ff skip PAGE 36 Auto Clock Setup Sets the time automatically through the PBS broadcast signal. The PBS channel signal includes information for the correct time. SETUP Auto Clock Manual Clock G PBS Ch. Time Zone Daylight Saving Auto Clock TV 13 Eastern on on VIDEO AUDIO SPECIAL On Time Off Time Sleep Timer TIME LOCK F Prev. 1 2 3 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.

tv vcr cable dvd sat light power Press ENTER or the RIGHT arrow button to activate the Time menu. Use the UP/DOWN arrow button to choose Auto clock, then press ENTER or the RIGHT arrow button to activate the Auto Clock option. Use the LEFT/RIGHT arrow button to make your auto clock selection. · Use the UP/DOWN arrow button to set the PBS channel. · Time Zone - Lets you select the time zone of your viewing area.

· Daylight Savings - Lets you set Daylight Savings On or Off, depending on whether or not your viewing area observes Daylight Savings. · If you select Auto Clock, use the UP/DOWN arrow button to choose On or Off. mode tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/3/4 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 1/3 3 1 1/3 menu exit 2/3 4 play rew pause stop record ff skip 4 Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. PAGE 37 Manual Clock Setup SETUP Auto Clock Manual Clock G Year Date Time 2000 12 / 04 AM 10 : 44 VIDEO AUDIO SPECIAL On Time Off Time Sleep Timer TIME LOCK F Prev. 1 2 3 4 5 6 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu. Press ENTER or the RIGHT arrow button to activate the Time menu. Use the UP/DOWN arrow button to choose Manual Clock, then press the RIGHT arrow to activate Manual Clock. Use the LEFT/RIGHT arrows button to make your Manual Clock selection. Your choices are: Year, Date and Time. Use the UP/DOWN arrows to set the Year, Date and Time.

Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/6 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 4 1 1/3/5 menu exit 1/3/5 2/3/4 6 play rew pause stop record ff skip PAGE 38 TV Turn On Time Setup Time function operates only if current time has been already set. Unless a button is pressed within two hours after the TV is turned on by the on time function, the TV will automatically turn off. SETUP Auto Clock Manual Clock VIDEO AUDIO SPECIAL On Time Off Time Sleep Timer G Off On Tim AM 04 : 00 Ch.



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Vol. TV 1 4 20 TIME LOCK F Prev. 1 2 3 4 5 6 7 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu. Press ENTER or the RIGHT arrow to activate the Time menu. Use the UP/DOWN arrows to choose On Time, then press the RIGHT arrow to activate On Time. Use the UP/DOWN arrows to choose On.

1 2 5 8 0 3 6 9 flashbk surf tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb Use the LEFT/RIGHT arrows to make the On Time options. Your choices are: Time, Channel and Volume. Use the UP/DOWN arrows to set the Time, Channel and Volume. Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu. 4 7 2/7 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input To cancel On Time function, use the UP/DOWN arrow button to select Off in step 4.

5 1 1/3/4/6 menu exit 1/3/4/6 2/3/5 7 play rew pause stop record ff skip PAGE 39 TV Turn Off Time Setup Lets you set an automatic daily turn off time for your TV. Off time function overrides on time function if they are both set to the same time. SETUP Auto Clock Manual Clock VIDEO AUDIO SPECIAL On Time Off Time Sleep Timer G Off On AM 12 : 00 TIME LOCK F Prev. 1 2 3 4 5 6 7 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu. Press ENTER or the RIGHT arrow button to activate the Time menu.

Use the UP/DOWN arrows to choose Off Time then press the RIGHT arrow to activate Off Time. Use the UP/DOWN arrows to choose On. Use the LEFT/RIGHT arrows to make the Off Time options. Use the UP/DOWN arrows to set the hour or minute. Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/7 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input To cancel Off time function, use the UP/DOWN arrow button to select Off in step 4. 5 1 1/3/4/6 menu exit 1/3/4/6 2/3/5 7 play rew pause stop record ff skip PAGE 40 Sleep Timer Setup Lets you select the amount of time before your TV automatically turns itself off. SETUP Auto Clock Manual Clock Off 15 min 30 min 60 min G VIDEO AUDIO SPECIAL On Time Off Time Sleep Timer 90 min 120 min 150 min 180 min 210 min 240 min TIME LOCK F Prev. 1 2 3 4 5 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu. tv vcr cable dvd sat light power Press ENTER or the RIGHT arrow button to activate the Time menu.

Use the UP/DOWN arrows to choose Sleep Timer then press the RIGHT arrow to activate Sleep Timer. Use the UP/DOWN arrows to choose a preset turn off time. Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu. mode tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2/5 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input If you turn the TV off after setting sleep timer, the setting will be erased. Set it again. 1/3/4 1 1/3/4 menu exit 2/3 5 play rew pause stop record ff skip PAGE 41 Parental Lock Setup Lets you set up blocking schemes to block specific channels, ratings and other sources. A password is required to gain access to this menu if the Lock System is activated. SETUP Lock On/Off Set Password VIDEO AUDIO Movie(MPAA) TV-PG(Children) TV-PG(General) Aux. Block SPECIAL Block Channel TIME LOCK G 1 2 3 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Lock Menu. Press ENTER or the RIGHT arrow button to activate the Lock Menu.

See the next page for more details on your blocking options. tv mode vcr cable dvd sat light power tv/video comp1 front comp2 dvi rgb 1 4 7 2 5 8 0 3 6 9 flashbk surf 2 enter mute sap vol ch video pip pipch- pipch+ swap ratio cc freeze pip input 1 2 1 1 menu exit play rew pause stop record ff skip PAGE 42 Parental Lock Setup Continued SETUP Lock On/Off Set Password G Unlocks for channel and rating VIDEO AUDIO Movie(MPAA) TV-PG(Children) TV-PG(General) Aux. Block Off On 4 Use the UP/DOWN arrows to choose from the following Lock Menu options. · Lock On/Off: Activates or disables the blocking scheme you set up previously. SPECIAL Block Channel TIME LOCK F · Set Password: Changes the password by inputting a new password twice. Prev. · Movie (MPPA): Blocks movies according to the movie ratings limit, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movie shown on TV, not TV programs, such as soap operas. tv mode vcr cable dvd sat light power · TV-PG (Children): Keeps children from watching certain TV programs among only the programs intended for children, according to the ratings limit.

This rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - General menu, your children may view those programs. tv/video comp1 front comp2 dvi rgb 1 4 7 enter mute 2 5 8 0 3 6 9 flashbk surf · TV-PG (General): Blocks certain TV programs that you and your family do not want to view, based on the ratings. sap vol ch video pip pipch- pipch+ swap · Block Channel: Blocks any channels that you do not want to view or that you do not want your children to watch. ratio cc freeze pip input · Aux. Block: Enables you to select a source for blocking among the source devices you have hooked up. menu exit 4 4 If you forget your password, enter the number, 7777 to release the lock mode. play rew pause stop record ff skip PAGE 43 Parental Lock Setup Continued Parental Lock rating descriptions SETUP Lock On/Off Set Password G Unlocks for channel and rating VIDEO AUDIO Movie(MPAA) TV-PG(Children) TV-PG(General) Aux. Block Off On SPECIAL Block Channel TIME LOCK F Prev. TV-Y7 (Directed to Older Children): Program is designed for children age 7 and above.

TV-G (General audience): Most parents would find this program suitable for all ages. TV-PG (Parental guidance suggested): Program contains material that parents may find unsuitable for younger children. TV-14 (Parents strongly cautioned): Program contains some material that many parents would find unsuitable for children under 14 years of age. TV-MA (Mature audience only): Program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.



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G - (General audiences): All ages admitted. PG - Parental guidance suggested: Some program content may not be suitable for children. PG-13 - Parents strongly cautioned: Some program content may not be appropriate for children under 13. R- (Restricted): Children under 17 requires accompanying parent or adult guardian. NC-17: No one 17 and under admitted. TV-Y (All Children): Program is determined to be appropriate for all children.

X: Adult admitted only. NR: Not rated movie. PAGE 44 Programming the Remote The remote control of your HD receiver is a multibrand or universal remote control that can be programmed to operate most remote-controllable devices of other manufacturers. Note that the remote control may not control all models of other brands. tv mode vcr cable dvd sat light power 1 Test your remote control.

To find out whether your remote control can operate the component without programming, turn on the component such as the VCR and press the corresponding mode button (VCR) on the remote control while pointing at the component. Test the POWER and CH +/- buttons to see if the component responds properly. If not, the remote requires programming to operate the device. Turn on the component to be programmed. Then press the corresponding mode button on the remote control.

Press the POWER button and the MUTE button simultaneously. Then the remote control is ready to program the code for the corresponding component. There are two ways to find the right code for the component. A. If you press the CH +/- buttons repeatedly, the code will change one at a time. Press the POWER button after each code change. If the right code is found, the device will turn off. B. Enter a code number using the number buttons on the remote.

The right code numbers for the corresponding component can be found on the following pages.

Again, if the code is correct, the device will turn off. 2 tv/video comp1 front comp2 dvi rgb 3 1 2 5 8 0 3 6 9 flashbk surf 4 4 7 enter mute 2 3 3 sap vol ch video 4 pip pipch- pipch+ swap 4 ratio cc freeze pip input menu exit 5 play rew pause stop record ff skip 5 6 Press the EXIT button to store the program. Test the remote control functions to see if the component responds properly. If not, repeat from step 2. PAGE 45 Programming Codes TVs Brand A MARK ADMIRAL AKAI AMPRO AMSTRAD ANAM Codes 112 143 072 081 006 146 073 167 052 043 054 080 104 112 115 121 131 004 006 112 088 002 003 006 058 043 002 003 006 043 103 143 043 004 039 043 051 143 043 054 043 143 004 006 116 143 043 004 016 043 044 071 076 107 111 117 120 125 127 136 143 004 116 043 062 024 077 004 005 028 043 048 050 096 116 151 153 155 007 057 028 043 043 004 006 009 034 073 074 116 130 155 160 165 Brand GOLDSTAR 161 Codes 004 102 110 112 116 119 127 137 004 116 004 006 010 011 023 041 143 158 166 164 129 164 004 006 009 024 065 101 156 160 013 034 038 083 145 043 006 070 002 059 143 006 043 154 255 072 072 004 007 015 081 160 166 003 004 022 059 061 063 127 143 164 006 077 164 004 007 116 088 004 006 028 042 077 116 088 004 006 028 040 109 116 146 004 006 101 015 025 006 007 Brand 106 113 122 143 009 012 075 163 Codes 019 024 056 130 134 043 043 043 019 081 034 056 092 164 003 004 024 043 059 060 064 127 164 003 004 006 038 070 093 160 164 006 018 025 027 135 176 004 143 144 160 165 167 004 058 131 143 173 034 056 019 043 116 127 004 006 024 056 074 144 156 160 165 007 019 047 186 168 169 004 006 116 004 050 101 105 116 127 137 143 007 020 033 039 057 082 004 028 048 116 004 007 028 030 082 094 116 143 Brand Sharp Codes 004 014 022 028 081 143 175 088 072 041 070 085 126 147 185 003 004 043 116 112 004 043 002 003 004 044 059 063 064 127 140 164 081 056 062 034 080 004 002 003 006 024 031 043 077 101 143 037 046 087 072 172 004 116 007 015 040 051 101 138 143 008 009 146 174 004 116 004 008 019 028 061 063 072 074 143 164 004 006 004 116 043 001 072 095 103 112 040 132 019 029 170 056 108 118 058 HALL MARK HITACHI NIKEL ONKING ONWA OPTONICA PANASONIC PHILCO SIEMENS SIGNATURE SONY 080 006 056 063 143 005 059 143 023 116 SOUNDESIGN SPECTRICON SSS SUPRE MACY SYLVANIA 079 139 028 AOC BLAUPUNKT CANDLE CAPEHART CETRONIC CITIZEN 004 INFINITY INKEL JBL JCPENNY 008 030 143 PHILIPS 004 101 JENSEN JVC KENWOOD KLOSS KMC KTV LG LODGENET LOGIK LUXMAN LXI 006 060 116 160 070 PIONEER CLASSIC CONCERTO CONTEC CORONADO CRAIG CROWN CURTIS MATHES CXC DAEWOO 050 PORTLAND PROSCAN 143 PROTON 161 116 171 092 047 143 023 065 152 161 043 TANDY TATUNG TECHNICS TECHWOOD TEKNIKA 084 004 028 072 103 086 101 QUASAR RADIO SHACK 052 164 006 060 064 160 164 072 SAMSUNG 024 049 SANYO 024 042 124 062 RCA TELEFUNKEN TELERENT TERA TMK TOSHIBA 017 055 103 114 123 128 143 MAGNAVOX 030 062 REALISTIC ROCTEC RUNCO SAMPO DAYTRON DYNASTY DYNATECH ELECTROHOME EMERSON 143 006 047 051 143 154 MARANTZ MATSUI MEMOREX METZ MGA 058 089 113 133 160 021 053 166 043 143 015 057 101 160 TOTEVISION UNIVERSAL VIDEO CONCEPTS VIDIKRON VIDTECH WARDS 009 060 064 116 FISHER FUNAI FUTURETECH GE MINERVA MITSUBISHI 008 056 091 144 161 SCOTT SEARS YAMAHA YORK YUPITERU ZENITH ZONDA 073 157 MTC NAD NEC 016 PAGE 46 Programming Codes VCRs Brand AIWA AKAI AMPRO ANAM AUDIO DYNAMICS BROKSONIC CANON CAPEHART CRAIG CURTIS MATHES DAEWOO Codes 034 016 043 124 125 072 031 033 012 023 043 035 037 028 031 108 003 040 031 033 005 007 064 065 110 111 116 117 108 012 023 043 034 053 059 006 017 027 029 034 035 037 046 129 131 153 003 008 010 034 031 033 072 107 144 147 132 136 012 013 101 106 123 012 045 004 018 034 043 137 150 031 033 031 033 012 013 033 040 101 043 012 031 043 048 Brand 046 146 103 039 129 033 135 041 010 108 112 119 039 MAGIN MAGNAVOX MARANTZ MARTA MATSUI MEI MEMOREX Codes 055 060 150 152 014 034 043 047 255 034 003 009 014 017 101 106 040 031 033 041 067 012 031 067 069 101 027 030 031 033 003 010 031 033 053 072 102 134 045 046 013 020 013 020 046 049 059 061 034 040 024 034 012 023 043 048 043 053 054 066 070 083 133 145 013 020 033 063 031 034 031 033 054 067 101 101 013 021 108 072 011 014 033 066 145 013 020 Brand 130 039 048 REALISTIC 013 034 RICO RUNCO SALORA SAMSUNG Codes 034 040 062 063 109 140 145 147 003 008 014 031 034 040 054 101 058 148 014 032 040 104 105 109 112 115 120 125 022 043 135 003 007 014 102 017 037 129 131 003 008 010 013 017 020 042 073 101 031 054 024 003 009 052 056 058 076 078 149 034 013 031 033 059 067 034 010 034 039 043 034 039 031 033 019 031 034 101 034 006 008 013 047 059 112 131 Brands TOTEVISION UNITECH VECTOR RESEARCH VICTOR VIDEO CONCEPTS VIDEOSONIC WARDS Codes 040 101 040 012 048 012 034 040 003 013 024 031 034 040 054 131 012 034 043 001 034 056 058 080 101 KENWOOD LG LLOYD LXI 041 107 144 010 033 053 046 017 033 053 039 048 072 034 068 033 YAMAHA 102 107 113 122 048 010 134 112 009 014 031 081 149 031 057 077 ZENITH DAYTRON DBX DYNATECH ELECTROHOME EMERSON SANSUI 014 034 101 139 059 045 051 151 SHARP SHINTOM SONY SANYO SCOTT SEARS 025 031 036 101 138 009 MGA MINOLTA MITSUBISHI FISHER FUNAI GE MTC MULTITECH NEC NORDMENDE OPTONICA PANASONIC 039 063 109 GO VIDEO GOLDSTAR 074 140 031 067 034 071 020 114 PENTAX PHILCO PHILIPS SOUNDESIGN STS SYLVANIA SYMPHONIC TANDY TATUNG TEAC TECHNICS TEKNIKA THOMAS TMK TOSHIBA 034 HARMAN KARDON HITACHI 026 063 INSTANTREPLAY JCL JCPENNY 015 066 JENSEN JVC PILOT PIONEER PORTLAND PULSAR QUARTZ QUASAR RCA 048 043 070 033 075 033 033 050 042 082 PAGE 47 Programming Codes SAT Brand ALPHASTAR DSR AMPLICA BIRDVIEW BSR CAPETRONICS CHANNEL MASTER CHAPARRAL CITOHO CURTIS MATHES DRAKE DX ANTENNA ECHOSTAR ELECTRO HOME EUROPLUS FUJITSU Codes 123 050 051 126 053 053 013 014 018 036 008 009 077 054 050 145 005 006 010 011 112 116 024 046 076 038 040 058 093 095 096 098 099 122 089 114 017 021 129 015 055 012 007 052 141 056 057 094 097 100 022 Codes 027 133 GENERAL INSTRUMENT 003 004 029 031 101 HITACHI 139 140 HOUSTON TRACKER 033 037 051 057 HUGHES 068 HYTEK 053 DANIEL 060 147 JERROLD 061 KATHREIN 108 LEGEND 057 LG 255 LUTRON 132 LUXOR 062 144 MACOM 010 059 064 065 MEMOREX 057 NEXTWAVE 028 124 NORSTAT 069 070 PACE SKY SATELLITE 143 PANASONIC 060 142 PANSAT 121 Brand 134 016 059 039 104 Brand PERSONAL CABLE PHILIPS PICO PRESIDENT PRIMESTAR PROSAT RCA REALISTIC SAMSUNG SATELLITE SERVICE CO SCIENTIFIC ATLANTA SONY STARCAST SUPER GUIDE TEECOM 063 TOSHIBA UNIDEN 125 Codes 117 071 105 019 102 030 110 072 066 106 043 074 123 028 035 057 085 032 138 103 041 020 124 023 026 087 088 107 130 002 127 016 025 043 044 048 049 079 080 101 135 Brand VIEWSTAR WINEGARD ZENITH 111 Codes 115 128 146 001 081 082 083 084 091 120 047 125 075 090 137 042 045 078 086 136 DVD Brand APEX DIGITAL DENON GE GOLDSTAR HARMAN KARDON JVC LG Codes 022 020 014 005 006 010 016 025 027 012 001 010 016

Brand MAGNAVOX MARANTZ MITSUBISHI NAD ONKYO PANASONIC Codes 025 013 024 002 023 008 017 003 009 Brand PHILIPS PIONEER
PROCEED PROSCAN RCA SAMSUNG SONY Codes 013 004 026 021 005 006 005 006 011 015 007 Brand THOMPSON TOSHIBA YAMAHA ZENITH
Codes 005 006 019 008 009 018 010 016 025 PAGE 48 Programming Codes CATV Brand ABC ANTRONIK ARCHER CABLE STAR CENTURION
CENTURY CITIZEN COLOUR VOICE COMBANO COMTRONICS DIAMOND EAGLE EASTERN ELECTRICORD GE GEMINI GI GOLDEN CHANNEL
HAMLIN HITACHI HOSPITALITY JERROLD Codes 003 004 042 046 053 014 005 007 024 026 092 007 007 065 090 080 081 019 030 023 020 030 057 062
032 072 008 022 054 052 074 030 049 050 052 055 070 077 002 003 Brand 039 052 LG M-NET MACOM MAGNAVOX MEMOREX MOVIE TIME NSC OAK
PANASONIC PARAGON PHILIPS 014 040 066 025 PIONEER POST NEWS WEEK PRUCER PTS PULSAR RCA 055 004 Codes 008 009 052 069 255 037
033 010 012 079 001 028 032 015 028 071 073 016 031 053 044 047 001 006 012 020 065 090 034 051 063 076 016 059 011 048 072 073 001 047 010 074
064 Brand REGAL REGENCY REMBRANT RK SAMSUNG SCIENTIFIC ATLANTA 038 037 SHERITECH SIGNAL SIGNATURE SL MARX SPRUCER
STARCOM STARGATE SYLVANIA TADIRAN TANDY TEXSCAN TOCOM TOSHIBA UNIKA UNITED CABLE UNIVERSAL 013 085 052 071 074 Codes 049
050 057 025 091 030 068 003 011 042 043 046 022 030 052 030 047 078 002 004 009 008 030 067 030 017 029 067 039 040 001 007 014 004 053 005 007
024 026 Brand VIEWSTAR ZENITH 041 045 Codes 032 035 012 015 018 086 087 088 089 001 060 093 008 056 024 014 027 PAGE 49 Maintenance Early
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