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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH LST-3100A. You'll find the answers to all your questions on the ZENITH LST-3100A in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH LST-3100A
User guide ZENITH LST-3100A
Operating instructions ZENITH LST-3100A
Instructions for use ZENITH LST-3100A
Instruction manual ZENITH LST-3100A



**High Definition
Television Receiver**

OWNER'S MANUAL

MODEL : LST-3100A



Before connecting, operating or adjusting this product,
please read this owner's manual carefully and completely.



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Manual abstract:

@@@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: FCC Part 15 This product 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 product is operated in a residential installation. This product 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 product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product and receiver.
- Connect the product 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.

COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL, 60069, USA Phone: 1-847-941-8000

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. THIS EQUIPMENT IS INTENDED TO RECEIVE AND DECODE SIGNALS TRANSMITTED ACCORDING TO ATSC DIGITAL TELEVISION STANDARD A/53, SPECIFICATION AND IS INTENDED TO BE USED WITH AN APPROPRIATE ANTENNA AND DISPLAY DEVICE THAT YOU MUST PROVIDE. As an ENERGY STAR® Partner,

LG has determined that this product or product models meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered mark. 2 IMPORTANT SAFETY INSTRUCTIONS INTRODUCTION CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS INSTALLATION AND OPERATING GUIDE AND THOSE MARKED ON THE UNIT. RETAIN THIS GUIDE FOR FUTURE REFERENCE. This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard.

The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing. This unit does not contain any parts that can be repaired by the user. DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY. 1. Read these instructions. - All these safety and operating instructions should be read before the product is operated. 2. Keep these instructions. - The safety, operating and use instructions should be retained for future reference.

3. Heed all warnings. - All warnings on the product and in the operating instructions should be adhered to. 4. Follow all instructions. - All operating and use instructions should be followed. 5. Do not use this apparatus near water. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; near a swimming pool; etc. 6.

Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product, and to protect it from over-heating. 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 and the manufacturer's instructions have been adhered to. 8.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 12. Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus.

When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply 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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the manufacturer. 3 Table of Contents Introduction Safety Precautions .

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Indicates tips and hints for making the task easier. Manufactured under license from Dolby Laboratories.

Dolby, and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved. MENU OPERATION Initial Settings

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35 4 Front Panel Controls and Display Window 3 Arrow Buttons (3 / 4 / 1 / 2) Allow you to navigate on-screen menus and to adjust the system settings and preferences. Use the arrow keys to move to a menu option and then use the SELECT button to access it. If no menu is displayed, the LEFT/RIGHT arrows control the volume setting and the UP/DOWN arrows select channels. Remote Control Sensor Receives signals from the remote control. POWER Turns the HDTV Receiver on or off.

Display Window DISPLAY FORMAT Sets the output resolution to 1080i, 720p, 480p, or 480i formats and chooses the correct display format for your TV. (Refer to page 16) MENU Shows the main menu on the screen. You can return to normal viewing by pressing the EXIT button. SELECT If the main menu is displayed, pressing the SELECT button will activate the selected MENU option. If the SELECT button is pressed while you are in normal viewing, the channel banner will be displayed. EXIT Clears all on-screen displays and returns to normal viewing from any menu. Resolution indicator Indicates output resolution. 1080i 720p 480p 480i DVI Connection indicator Indicates output connection. RGB YPBPR Standby indicator Lights when the HDTV Receiver is turned off. Industry standard YPbPr compatible HD Monitor (green for Y, blue for Pb, and red for Pr).

Remember to connect the left and right audio cables. The YPbPr Component jacks carry only the picture signals, not the sound. ANT LOOP OUT Jack, and RF Cable ANT LOOP OUT provides an RF connection between the HDTV Receiver and the TV and provides the signal of ANT IN jack to TV. Remote Control

In addition to the HDTV Receiver, the remote control can be programmed to control many other devices. Batteries To install the batteries, slide open the battery compartment and insert the two AA batteries provided. STB TV VCR DVD AUX VD UX STB MODE POWER POWER TV/INPUT ez ADD * SIGNAL AUDIO UDIO CC SELECT AA FLASHBK MUTE PG UP PG DN AA HELP RATIO RATIO FREEZE SURF PROGRAM PROGRAM STATION ST TION GUIDE 7 INTRODUCTION Connection Panel Overview ANT IN Connect to HDTV signal source; external/internal antenna. OPTICAL (Digital audio out jack) Connect to digital (optical) audio equipment. AUTHORIZED SERVICE ONLY Is used only for authorized service purposes. COMPONENT VIDEO OUT Connect to a TV with YPbPr inputs. COAXIAL (Digital audio out jack) Connect to digital (coaxial) audio equipment.

VIDEO OUT Connect to a TV with video inputs. AC Power Cord Plug into the power source. DVI OUT Connect to a TV with DVI connector. S-VIDEO OUT Connect to a TV with S-Video inputs. Variable AUDIO OUT (Left/Right) Connect to a TV, amplifier, receiver or stereo system.

RGB OUT Connect to a TV with RGB inputs. ANT LOOP OUT RF output to TV's "Antenna In" jack or other devices. Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. 8 Connections Antenna Connections INSTALLATION 1 Connect the "Antenna" to the "ANT IN" jack on the HDTV Receiver using a coaxial RF cable.

ote There might be some areas where the signal strength could be too high. If so, you may need to connect the antenna to an attenuator. Screw the attenuator onto the "ANT IN" jack. 2 Connect the "ANT LOOP OUT" jack on the HDTV Receiver to the "Antenna In" jack on your TV using a coaxial RF cable. Antenna Cable TV Wall Jack Panel TV or Other Device Connection Panel ANTENNA INPUT S-VIDEO INPUT COMPONENT VIDEO INPUT VIDEO INPUT AUDIO INPUT Pr Pb Y L L R OR OR Attenuator (Not supplied) HDTV Receiver Connection Panel ip Before Connecting Your Antenna During initial installation and setup of your HDTV Receiver, you may need to install a 10 dB attenuator to the Antenna input "ANT IN" on the LST-3100A. The LST-3100A is a high performance, high-gain system intended for operation under normal and weak signal conditions, providing the best reception with its optimum gain. However, there might be some reception areas where the signal strength is too high (e.g. due to close proximity to an undesirable signal or transmitter), so you need an attenuator that lowers the incoming signal strength (from the undesirable transmitter) to more normal levels. This 10 dB attenuator should be used only in a reception area where the undesired signal strength is too high.

One of the possible symptoms would be that after your program/channel search, your HDTV receiver does not find all the local digital terrestrial channels available in your area. (You can find HDTV channels/content information for your local broadcast area by going to Zenith website "WWW.ZENITH.COM" and clicking on "HDTV Program Schedule" under HDTV.) Please make sure that before deciding to use an optional attenuator device, you are using an appropriate and properly aligned UHF/VHF RF terrestrial antenna. 9 Connections (Continued) Display Formats Overview · The HDTV Tuner offers various display formats and multiple video outputs. When the HDTV Tuner is connected to . . . A/V systems, the HDTV Tuner can provide video signal formats 1080i, 720p, 480p, and 480i.



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1080i, 720p, 480p, and 480i modes are available for component video (YPbPr) outputs. 1080i, 720p, and 480p modes are available for RGB and DVI outputs. 480i mode is available for VIDEO, S-VIDEO, and COMPONENT VIDEO outputs.

The HDTV Tuner has two digital audio outputs; Dolby Digital 5.1 and PCM. The HDTV Tuner sends out a digital audio signal to OPTICAL and COAXIAL audio outputs when digital broadcasts are being received by the HDTV Tuner. Analog Monitor Connections Antenna Cable TV Wall Jack Panel ANTENNA INPUT AUDIO INPUT VIDEO INPUT S-VIDEO INPUT L R L OR OR To AUDIO OUT HDTV Receiver Connection Panel 1 Connect the "Antenna/Cable" to the "ANT IN" jack on the HDTV Receiver using a coaxial RF cable. Note There might be some areas where the signal strength could be too high.

If so, you may need to connect the antenna to an attenuator. Screw the attenuator onto the "ANT IN" jack. (Refer to page 9.) 2 Connect the "ANT LOOP OUT" jack on the HDTV Receiver to the "Antenna In" jack on your TV using a coaxial RF cable. "AUDIO and "VIDEO OUT" jacks on the Receiver to the "A/V IN" jacks 3 Connect the SelectionOUT"your TV istoequippedrefer toanSettingHDTVDisplay Format on page 16)jack.

on your TV using RCA-type cables. If with S-Video jack, use the S-VIDEO OUT (The Output must be set YPbPr, the Note These connections are only useable if the display format settings are set to 480i and YPbPr. (Refer to page 16.) 10 Connections (Continued) HD Monitor Component (YPbPr) Connections INSTALLATION 11 Antenna HD Ready TV Connection Panel Cable TV Wall Jack Panel ANTENNA INPUT COMPONENT VIDEO INPUT AUDIO INPUT VIDEO INPUT Pr Pb Y L R OR To AUDIO OUT HDTV Receiver Connection Panel 1 Connect the "Antenna/Cable" to the "ANT IN" jack on the HDTV Receiver using a coaxial RF cable. Note There might be some areas where the signal strength could be too high. If so, you may need to connect the antenna to an attenuator. Screw the attenuator onto the "ANT IN" jack. (Refer to page 9.) 2 Connect the "ANT LOOP OUT" jack on the HDTV Receiver to the "Antenna In" jack on your TV using a coaxial RF cable. HDTV "COMPONENT IN" jacks your 3 Connect the "COMPONENT OUT" jacks on themust beReceiver to therefer to Setting the DisplayofFormatTV using RCA-type cables.

(The Output Selection set to YPbPr, on page 16) Connect the 4 type cables. L/R "AUDIO OUT" jacks on the HDTV Receiver to the L/R "AUDIO IN" jacks on your TV using RCAote 1080i, 720p, 480p, and 480i modes are available for component video (YPbPr) outputs. Connections (Continued) HD Monitor RGB Connections Antenna Cable TV Wall Jack Panel HD Ready TV Connection Panel ANTENNA INPUT S-VIDEO INPUT RGB INPUT VIDEO INPUT AUDIO INPUT L R OR To AUDIO OUT HDTV Receiver Connection Panel 1 1 Connect the "Antenna/Cable" to the "ANT IN" jack on the HDTV Receiver using a coaxial RF cable. Note There might be some areas where the signal strength could be too high. If so, you may need to connect the antenna to an attenuator. Screw the attenuator onto the "ANT IN" jack. (Refer to page 9.) 2 Connect the "ANT LOOP OUT" jack on the HDTV Receiver to the "Antenna In" jack on your TV using a coaxial RF cable. "RGB OUT" jack the to the "RGB IN" 3 Connect the Selection must beonset toHDTV ReceiverSetting the Displayjack of your TV using VGA-type connector. (The Output RGB, refer to Format on page 16) Connect the 4 type cables.

L/R "AUDIO OUT" jacks on the HDTV Receiver to the L/R "AUDIO IN" jacks on your TV using RCAote 1080i, 720p, and 480p modes are available for RGB outputs. 12 Connections (Continued) HD Monitor DVI-HDTV Connections Antenna Cable TV Wall Jack Panel HD Ready TV Connection Panel ANTENNA INPUT S-VIDEO INPUT VIDEO INPUT AUDIO INPUT DVI-HDTV INPUT L R OR To AUDIO OUT HDTV Receiver Connection Panel 1 1 Connect the "Antenna/Cable" to the "ANT IN" jack on the HDTV Receiver using a coaxial RF cable. Note There might be some areas where the signal strength could be too high. If so, you may need to connect the antenna to an attenuator. Screw the attenuator onto the "ANT IN" jack.

(Refer to page 9.) 2 Connect the "ANT LOOP OUT" jack on the HDTV Receiver to the "Antenna In" jack on your TV using a coaxial RF cable. "DVI OUT" jack on the HDTV to the "DVI IN" jack of your TV using DVI-D 3 Connect the Selection must be set to DVI, ReceiverSetting the Display Format on page 16) type connector. (The Output refer to Connect the 4 type cables. L/R "AUDIO OUT" jacks on the HDTV Receiver to the L/R "AUDIO IN" jacks on your TV using RCAote · 1080i, 720p, and 480p modes are available for DVI outputs.

· A DVI-HDTV input is one that is compliant with EIA-861 and HDCP specifications. Check your TV or monitor's user manual to find out if the TV or monitor's DVI input is compliant with these specifications. · Some HD Monitors designed for PC applications using DVI-D may not work with this connection.

13 INSTALLATION Connections (Continued) VCR Connections VCR Connection Panel AUDIO INPUT VIDEO INPUT L R L To AUDIO OUT HDTV Receiver Connection Panel Connect the L/R "AUDIO OUT" jacks and "VIDEO OUT" jack on the HDTV Receiver to the "A/V in" jacks on your VCR using RCA-type cables. (If your VCR is equipped with an S-Video jack, use the "S-Video" jack.) Caution If 480i display format is selected, the VCR will record an onscreen display onto the tape during recording if: the channel is changed with CH (+/-) the sound level is adjusted with VOL (+/-) or by pressing the SELECT button, etc. 14 Connections (Continued) Amplifier (Receiver) Connections INSTALLATION 15 Amplifier (Receiver) Connection Panel OPTICAL COAXIAL R L DIGITAL INPUT AUDIO INPUT OR HDTV Receiver Connection Panel Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround Connect the Left and Right AUDIO OUT jacks on the HDTV Receiver to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the supplied audio cables. Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby DigitalTM) Connect one of the HDTV Receiver's DIGITAL AUDIO OUT jacks (OPTICAL or COAXIAL) to the corresponding input jack on your amplifier. Use an optional digital (optical or coaxial) audio cable. Digital Multi-channel sound A digital multi-channel connection provides the best sound quality.



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For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your HDTV Receiver (Dolby Digital). Check the receiver manual and the logos on the front of the receiver. Setting the Display Format The HDTV Receiver provides several display formats. The

DISPLAY FORMAT button on the front panel changes the output connector and resolution. The output resolution may be converted from the original broadcast format. Display Format Setting once on front panel. 1 Press DISPLAY FORMAT will appear the display window. The current output signal in on the type of that the HDTV 2 Depending press DISPLAY monitor (YPbPr, RGB, on Receiver is connected to, FORMAT repeatedly the front panel select desired output connector. or DVI) SELECT DISPLAY FORMAT the front panel to your 3 Press SELECT on resolution will appear confirm display selection of the output connector. The current output in the window.

on the type of that is con 4 Depending press DISPLAY monitor (1080i, the HDTV Receiver native, connected to, FORMAT repeatedly on the front panel select desired output resolution. 720p, 480p, 480i, variable 1, variable 2, or variable 3) on the 5 Press SELECT setting is front panel to confirm your selection of the output resolution. Display Format finished ote You can exit Display Format Setting mode by pressing EXIT on the front panel. Display Format modes 1080i 720p 480p 480i native Input Signal format all formats all formats all formats 1080i 720p 480p 480i Output Signal format 1080i 720p 480p 480i 1080i 720p 480p 480i (YPbPr), 480p (RGB, DVI) 1080i 720p 480p 1080i 480p 720p 480p variable 1 1080i 720p 480p/480i variable 2 variable 3 1080i/720p 480p/480i 1080i/720p 480p/480i OUTPUT CONNECTION COMPONENT VIDEO OUT RGB OUT DVI OUT VIDEO OUT S-VIDEO OUT AVAILABLE FORMATS 1080i/720p/480p/native/variable 1/variable 2/variable 3 1080i/720p/480p/native/variable 1/variable 2/variable 3 1080i/720p/480p/native/variable 1/variable 2/variable 3 All formats converted to 480i All formats converted to 480i 16 Initial Settings To show and remove the Menu: Press the MENU button on the remote control to display the menu. A second press of the MENU button or a press of the EXIT button will take you back to TV viewing.

To go to the next level: Press " " (or " 2 ") on the remote control. STB TV VCR DVD AUX To go back to the previous level: Press MENU (or " 1 ") on the remote control. STB MODE POWER General Operation TV/INPUT ez ADD * SIGNAL AUDIO CC SELECT MUTE FLASHBK 1 Press MENU. will appear. The main menu 2 Use 3 / 4 to select the desired menu option.

option 3 While the desired menu level. is selected, press 2 or to move the second 4 Use 3 / 4 to select the second menu option. Press 2 or (SELECT) to move to 5 Some menu options require additional the third level. steps. 6 Press MENU to exit the Setup menu. Help Function (SELECT) PG UP PG DN HELP (?) button RATIO RATIO FREEZE SURF HELP PROGRAM PROGRAM STATION ST TION The Help feature is designed to let you understand each function of the Menu in an easy and convenient way. As you navigate through the Menu, press HELP (?) button on your remote control if you want information about the highlighted option. The information will be displayed on the right side of the highlighted option. GUIDE 17 MENU OPERATION In this menu system, there are several ways to customize the settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings.

If you press the MENU button, only the first and second level of the menu system will appear on the TV screen. The third level can be displayed by pressing (SELECT). If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level. For navigating the menu levels, you will see " 2 " on the right side of the menu label to help you go to the next level. Setup Menu Options EZ Scan (Channel Search) Automatically finds all channels (digital) available using the 'Ant In' source, and stores all the active channels found on the channel list. Inactive or weak channels may not appear on the list. In that case, add missing channels manually with the Manual Add menu. The channel list created here can be seen in the Ch. Edit menu. 1 Press MENU to display the on-screen menu.

Select the SETUP menu using 2 move to the second level. 3 / 4 then press (SELECT) or 2 to 3 Select the EZ Scan using 3 / 4 then press (SELECT) or 2. ote If the Lock System is set to On, a password is required to gain access to the EZ Scan menu. Follow step 2 as shown for the Lock System on page 28. signal or CADTV).

4 Select the for cable source (DTV reception. DTV is for over-the-air antenna CADTV is subscribers. otes · If you select CADTV, select a cable band (STD, HRC, or IRC). Ask your cable service provider about cable band. · In most cases you can search channels correctly by selecting STD cable band. Try the other bands if you cannot find any channels. · Some scrambled channels may not be stored. (SELECT). 5 Press (SELECT), MENU or EXIT. You can stop the process by press The channel search process begins. ing is 6 When channel search TV complete, the lowest channel number found appears on the screen. EZ Add Automatically adds new channels (digital) available through the antenna inputs except memorized channels already in the channel list. STB TV VCR DVD AUX STB ez ADD button ez ADD MODE POWER 1 Press MENU to display the on-screen menu. Select the SETUP menu using 2 move to the second level. 3 / 4 then press (SELECT) or 2 to Select or 2.

3 EZ Add the EZ Add using 3 / 4 then press can (SELECT) process by channel search process begins. You stop the pressing (SELECT), MENU or EXIT. TV/INPUT * SIGNAL 4 When EZ Add channel search is complete, the lowest channel number found appears on the TV screen. AUDIO UDIO CC ip You can also start EZ Add channel search by pressing ez ADD then (SELECT) button on the remote control. SELECT 18 MUTE FLASHBK PG UP PG DN Setup Menu Options (Continued) Ch. Edit (Channel Edit) MENU OPERATION Channel Edit allows you to add or delete channels from the channel list in memory manually and create your own surf list of favorite channels. Press SURF () on the remote control when a channel is highlighted. 1 Press MENU to display the on-screen menu. Select the SETUP menu using 2 move to the second level. 3 / 4 then press (SELECT) or 2 to Select using 3 3 Channel the Ch. Edit appears. / 4 then press (SELECT) or 2. Edit menu To move one by one: Use 3 / 4 to move by one step on the channel editing menu. To move page by page: Use PG UP or PG DN button to move to the next or previous page on the channel editing menu. To add or delete a channel: Press menu. (SELECT) to add or delete the channel on the channel editing To create a surf list: Press SURF () to add the channel a Surf channel.



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return to the 4 Press MENU to return to TVprevious menu or press EXIT on the remote control viewing. ote Deleted channels can not be selected using the CH (+/-) buttons. 19 Setup Menu Options (Continued) Manual Channel Add/Delete This feature allows you to add or delete channels manually while monitoring signal strength. 1 Press MENU to display the on-screen menu.

Select the SETUP menu using 2 move to the second level. 3 / 4 then press (SELECT) or 2 to Select Add using 3 Manualthe Manualappears. 3 / 4 then press (SELECT) or 2. Add menu delete 4 Select a channel to add ormenu. using 3 / 4 or the numbered buttons with the Manual Add 5 Press (SELECT) to confirm your selection. 4-5 to 6 Repeat stepsmenu. add or delete additional channels with the Manual Add ote You can only add the selected channel if the signal strength is shown. 7 Press MENU to return to the previous menu or press EXIT on the remote control to return to TV viewing. EZ Demo Shows you how to navigate through the on-screen menus available on the HDTV Receiver. 1 Press MENU to display the on-screen menu.

Select the SETUP menu using 2 move to the second level. 3 / 4 then press (SELECT) or 2 to 3 Select EZ Demo using 3 / 4 then press (SELECT) or 2 to start EZ Demo. 4 Press any button on the remote control to return to TV viewing. 20 Option Menu Options Clock MENU OPERATION Enables the user to adjust the time zone. Normally, your clock is set using signals transmitted by DTV stations. Choosing your time zone sets the current time automatically. 1 Press MENU to display the on-screen menu. 2 Select the OPTION menu using 3 / 4 then press (SELECT) or 2. Use / to select the 3 move3to4the third level. Clock option then press 2 or (SELECT) to Time Zone: 4 Use 1 / 2 to set Hawaii, New(Atlantic, Eastern, Central, Mountain, Pacific, Alaska, F. land) return to the 5 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. ote · The clock can not be set in cable DTV band. · There are cases where the TV station does not send, or sends wrong date and/or time information causing the HDTV Receiver to set an incorrect time. · You have no way to manually set the clock. Menu Language Select a language for the menu.

1 Follow Steps 1-2 as above (Clock). 2 Select the Menu2Language option using 3 / 4 then press (SELECT) or . 3 Select the desired language using 3 / 4 then press (SELECT). return to the 4 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. Audio Language Digital channels sometimes provide multiple audio tracks, often in a different language.

You can set default audio language with the Audio Language menu. STB TV VCR DVD AUX STB MODE POWER AUDIO buttonADD ez TV/INPUT AUDIO UDIO CC * SIGNAL 1 Follow Steps 1-2 as above (Clock). 2 Select the Audio2.Language option using 3 / 4 then press (SELECT) or 3 Select the desired language using 3 / 4 then press (SELECT). return to the 4 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. ip · If provided by broadcaster, you can also select a different audio language while viewing TV by pressing AUDIO repeatedly. · When multiple audio tracks are available, the audio icon () appears on the program information display or Program guide. You can select one of the other languages with the AUDIO button. SELECT 21 MUTE FLASHBK PG UP PG DN RATIO FREEZE SURF HELP Option Menu Options (Continued) Aspect Ratio Lets you choose the screen format. To view a picture with a wide (16:9) aspect ratio at 480i or 480p mode output format, you can choose Letter Box, Cropped, or Squeezed.

To view a picture with a normal (4:3) aspect ratio at 720p or 1080i mode output format, you can choose Normal, Wide, Horizon, Zoom, or Cinema Zoom. Options to view a picture with a wide (16:9) aspect ratio at 480i or 480p mode output format. STB TV VCR DVD AUX 1 Press MENU. appears. The main menu select the OPTION 2 Use 3 / 4tothe second level. menu then press 2 or (SELECT) to move 3 Use 3 / 4 to select the Aspect Ratio option. 4 Press 2 or (SELECT) to move to the third level. / 4 to select 5 Use 3selection. an option then press (SELECT) to confirm your return to the 6 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. Cut Off STB MODE POWER TV/INPUT ez ADD Options to view a picture with a CC SIGNAL normalAUDIO aspect ratio at 720p (4:3) or 1080i mode output format.

* Letter Box Cropped Squeezed Normal SELECT Wide Horizon Zoom Cinema Zoom MUTE FLASHBK PG UP RATIO button PG DN otes · If program format is High Definition (16:9) and the display format selected is 1080i or 720p, the Aspect Ratio is set to Wide . · If program format is Standard Definition (4:3) and the display format selected is 480p or 480i, the Aspect Ratio is set to Squeezed. RATIO RATIO FREEZE SURF HELP ip PROGRAM PROGRAM STATION ST TION GUIDE While watching TV, you can change the picture aspect ratio using RATIO on the remote control. To view a high definition picture with 480i or 480p format setting, use the RATIO button on the remote control to change the wide mode in the following cycle: Letterbox, Cropped, to Squeezed. To view a standard definition picture with 720p or 1080i format setting, use the RATIO button on the remote control to change the wide mode in the following cycle: Normal, Wide, Horizon, Zoom, to Cinema Zoom.

(Refer to Choosing the Aspect Ratio on next page). Cinema Zoom mode Use to adjust zooming. The picture will be enlarged like the cinema screen. 22 Option Menu Options (Continued) Choosing the Aspect Ratio using RATIO button Modes for viewing high definition content (16:9) when output format is 480i or 480p Mode: Letter Box Use for a picture with an original 16:9 aspect ratio (in a wide format). Letterbox mode will shrink the picture to fill the screen, with black/gray (or blank) bars appearing at the top and bottom of the screen.

Cropped Use for a picture filling the entire screen by cropping (removing) the left and right portions of the picture. @@@@The top and bottom portions of the picture will be cut. Cinema Zoom Use to adjust zooming. The picture will be enlarged like the cinema screen. @@Expand Choose when you want to view a picture in the 16:9 ratio size. @@Left and right portions of the picture will not be shown. Shrink Choose when you want to view a picture in the 4:3 ratio size. @@@@2 Select the OPTION menu using 3 / 4 then press (SELECT) or 2. @@@@2 Select the OPTION menu using 3 / 4 then press (SELECT) or 2. 3 Select Audio Variable using 3 / 4 then press (SELECT) or 2.

@@@@The caption language options are English, French, and Spanish. Use the menu to select a language. @@Options are: Off: DTV Caption is not displayed. English: English is selected for DTV captions. French: French is selected for DTV captions.



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@@@@ · If captions are available, the DTV caption icon () appears on the program information display, Program guide, or Station guide to indicate that you can select one of those caption options with the CC button. The caption icon will not appear on the program information display or Program guide for analog caption. 25 Caption Menu Options (Continued) DTV Caption Style Selects DTV Captions appearance menu options. Style Use caption feature defaults as provided by the program or customize caption appearance with the Custom menu options. Set By Program: Default text provided by a broadcaster is shown when captions appear.

Custom: Customized text is shown when captions appear. Size Selects the font size for captions. Standard: The standard text size is used for the caption display (15 pixels). Large: The large text size is used for the caption display (21 pixels). Small: The small text size is used for the caption display (11 pixels).

Font Selects the font type for caption. Txt. (Text) Color Selects the font color for caption. Txt. (Text) Opacity Selects the font opacity for caption.

Solid: The text is solid (without any transparency). Flash: The text blinks twice a second. Translucent: The text is translucent. Transparent: The text is transparent (In this case, whatever the color is, the color does not affect the caption display). Edge Color Selects the edge color for caption (If the edge type is selected as None, the edge color does not have any effect on the caption display). Edge Type Selects the edge type for caption. None: The text has no edge.

Raised: The text is raised. Depressed: The text is depressed. Uniform: The text has a uniform edge.

Left Shadow: The text has a left-shadow edge. Right Shadow: The text has a right-shadow edge. Bg. (Background) Color Selects the background color for caption. Bg. (Background) Opacity Selects the background opacity for caption. Solid: The text background color is solid (without any transparency). Flash: The text background color blinks twice a second. Translucent: The text background color is translucent. Transparent: The text background color is transparent (In this case, whatever the background color is, the color does not affect the caption).

26 Caption Menu Options (Continued) Analog Caption MENU OPERATION Allows you to select a mode for displaying Analog Caption Data. In the Analog Caption Service, Caption 1-4 display program's dialog, and Text 1-4 display data service information. ote Analog Captions will appear if they are provided by the broadcaster. Off Analog Caption is not displayed. Caption 1 Caption 1 is the primary caption service that synchronizes the captioning language with the sound, used by most broadcasters.

Captioning is displayed in the same language as the program's dialog. Caption 2 Caption 2 is the special non-synchronous caption service that does not need to be in sync with the sound and may provide simplified captioning, which is usually delayed. Caption 3 Caption 3 serves as an alternate captioning service channel. Captioning is often a secondary language translation such as French, Spanish, simplified English or displayed at a slower rate. Caption 4 Caption 4 is another special non-synchronous caption service that does not need to be in sync with the sound and may provide simplified captioning, usually delayed.

Text 1 - 4 Text 1-4 usually displays information on the lower portion of the screen and is used for a data service, generally not program related. ip If available, press CC repeatedly to select a caption language while viewing TV. ote If DTV and Analog Caption are received simultaneously, you can only select DTV Captions, analog captions will not appear. 27 Lock (Parental Control) Menu Options Lock System Allows you to set up specific channels and ratings through blocking schemes. Also allows you to activate or disable all of the lock schemes previously set up. A password is required to gain access to the LOCK menus. When the Lock System is set to Off, the Channel and Program Rating are not effective. 1 Press MENU. appears. The main menu / 4 to 2 Use 3 secondselect the LOCK then press 2 or to the level.

When you have not entered a password yet; When you have already entered a password; (SELECT) to move Enter "0000" password using the numbered buttons to create a personal 4-digit security password. Enter the 4-digit password using the numbered buttons to confirm the personal 4-digit security password. 3 Use 3 / 4 to select the Lock System option. 4 Press 2 or (SELECT) to move to the third level. 5 Use 3 / 4 to select an option (On or Off) then press (SELECT) to confirm your selection. return to the 6 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. Set Password Changes the password. 1 Follow steps 1-2 as shown above (Lock System). 2 Use 3 / 4 to select the Set Password option. 3 Press 2 or (SELECT) to move to the third level.

4 Enter the new 4-digit code. 5 Enter the same code again. return to the 6 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. 28 Lock (Parental Control) Menu Options (Continued) Block Ch. (Channel) MENU OPERATION Blocks any channel that you do not want to view or that you do not want your kids to watch.

If you tune in a blocked channel, a black screen with a pop-up box will appear. This menu can override Channel Edit menu settings (page 19). 1 Follow Steps 1-2 as shown for the Lock System on page 28. 3 / 4 to select the Block Ch. 2 Use channel list screen appears.

(channel). The To move one-by-one: Use 3 / 4 to move by one step on the block channel menu. To move page-by-page: Use PG UP or PG DN button to move to the next or previous page on the block channel menu. To lock or unlock a channel: Press (SELECT) to block or unblock the channel on the block channel menu. The mark will appear to the right of the station name to indicate the blocked channel. step 3 Repeat menu.2 to block or unblock additional channels in the channel list return to the 4 Press MENU to to return to TVprevious menu or press EXIT on the remote control viewing. 29 Lock (Parental Control) Menu Options (Continued) Movie Rating Blocks movies according to the movie ratings so children cannot view certain movies. You can set the ratings to block out all the movies with ratings above a specified level. Keep in mind that the movie ratings apply only to movies shown on TV, not TV programs such as soap operas.

1 Follow Steps 1-2 as shown for the Lock System on page 28. 2 Use 3 / 4 to select the Movie Rating option. 3 Press 2 or (SELECT) to move to the third level. 4 Use 3 / 4 to select a rating then press (SELECT) to confirm your selection. All Block: All programs with a rating are blocked. G (General Audiences): Content is not offensive to most viewers. PG (Parental Guidance Suggested): Content is such that parents may not want their children to view the program. PG-13 (Parental Guidance Suggested): Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.



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R (Restricted viewing): Not for children under age 17. Strong elements of sex and/or violence.

NC-17 (Restricted Viewing): Not for children under age 17 under any circumstances. Strong sexual content. X (Hard Core Films): Same as NC-17 rating. return to the 5 Press MENU to return to TVprevious menu or press EXIT on the remote control viewing. 30 Lock (Parental Control) Menu Options (Continued) TV Rating-Children MENU OPERATION Keeps children from watching certain children's TV programs according to the ratings limit set. This rating applies only to TV programs for children. Unless you block TV programs intended for mature audiences in the TV Rating General menu, your children could view those programs. 1 Follow Steps 1-2 as shown for the Lock System on page 28. 2 Use 3 / 4 to select the TV Rating-Children option. 3 Press 2 or (SELECT) to move to the third level. Use / 4 to select 4 or 3(SELECT). the Age or Fantasy Violence option then press 2 Age: Selection applies regardless of content category of rating. Fantasy Violence: Selection applies if TV programs include rating for Fantasy Violence. 5 Use 3 / 4 to select a rating then press selection. (SELECT) to confirm your All Block: All programs with a rating are blocked. TV-Y: All Children. This program is designed to be appropriate for all children. TV-Y7: Directed to Older Children. This program is designed for children age 7 and above. return to the 6 Press MENU to return to TVprevious menu or press EXIT on the remote control viewing.

31 Lock (Parental Control) Menu Options (Continued) TV Rating-General Blocks TV programs that you or your family may not wish to watch, based on the rating scheme set. 1 Follow Steps 1-2 as shown for the Lock System on page 28. 2 Use 3 / 4 to select the TV Rating-General option. 3 Press 2 or (SELECT) to move to the third level. /4 the Age, 4 Use 3pressto2select(SELECT). Dialogue, Language, Sex, or Violence then or Age: Selection applies regardless of content category of rating. Dialogue: Selection applies if TV programs have rating for Dialogue. Language: Selection applies if TV programs have rating for Language. Sex: Selection applies if TV programs have rating for Sex. Violence: Selection applies if TV programs have rating for Violence. 5 Use 3 / 4 to select a rating then press selection. (SELECT) to confirm your All Block: All programs with a ratings are blocked. TV-G: General Audience. Most parents would find this program suitable for all ages. TV-PG: Parental Guidance Suggested.

This program contains material that parents may find unsuitable for younger children. TV-14: Parents Strongly Cautioned. This program contains some materials that many parents would find unsuitable for children under 14 years of age. TV-MA: Mature Audience Only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. return to the 6 Press MENU to return to TVprevious menu or press EXIT on the remote control viewing. 32 GUIDE Options Program Guide MENU OPERATION The Program Guide contains schedule and program information for all channels. It also provides local over-the-air channels information including conventional digital channels. Use the Program Guide to find programs easily and conveniently and view schedule and descriptive program information by Time and General classifications. ip You can also display the Program Guide by pressing PROGRAM button on the remote control. Refer to Program and Station Guide on pages 36-37 for detailed information. 1 Press MENU. appears. The main menu Use / to select 2 move3to4the secondthe GUIDE menu then press 2 or (SELECT) to level. Use 3 / 4 to select the Program Guide option.

3 4 Press 2 or (SELECT) to display the Program Guide. Use / 2 / 3 / 4 select a program 5 more1informationtofor the program. then press (SELECT) to get 6 Press EXIT to return to TV viewing. ote The information for program guide and time may differ depending on the TV station. Station Guide Use the Station Guide to find programs easily and conveniently and view schedule and descriptive program information with channel number. ip You can also display the Station Guide by pressing the STATION button on the remote control. Refer to Program and Station Guide on pages 36-37 for detailed information. 1 Follow Steps 1-2 as shown as above. 2 Use 3 / 4 to select the Station Guide option. 3 Press 2 or (SELECT) to display the Station Guide.

Use / 2 / 3 / 4 select a program 4 more1informationtofor the program. then press (SELECT) to get 5 Press EXIT to return to TV viewing. 33 Information Displays a bc Channel Banner Display The Channel Banner appears whenever you tune to a new channel or press the (SELECT) button on the remote control while viewing a program. d e 1 Press (SELECT) while watching a program The Channel Banner appears on the TV screen (Channel number, audio, station name, and current time). · The Channel Banner can be displayed on the TV screen for a moment.

a) Channel Number Displays the current channel number. b) Dolby Digital Indicates audio track is Dolby Digital. c) Digital Picture Definition Displays the digital picture grade such as HD (High Definition) or SD (Standard Definition). d) Station name Displays the station name of the current channel. e) Block information Displays the block information such as no signal, rating blocked, channel blocked, audio only or scrambled.

f) Time Displays the current time. f) the Banner 2 Press (SELECT) again while fromChannelscreen. is displayed. The Channel Banner disappears the TV otes · Station name and clock are displayed only if they are set up by broadcast. · The scrambled channel may not be able to see the program. 34 Information Displays (Continued) a b c d e fg Program Information Display h 1 ijklm Press INFO while watching a program Program Information appears on the TV screen. a) Program title Indicates title of current program. (see page 37). b) Date Displays the current date. c) Start Time, End Time and elapsed indication Displays the start time, end time and the elapsed time indicator bar for the current program.

d) Time Shows current time. e) Channel Number Displays the current channel number. f) Dolby Digital Indicates audio track is Dolby Digital. g) Digital Picture Grade Displays the digital picture grade such as HD (High Definition) or SD (Standard Definition). h) Station Name Displays the station name of the current channel. i) Extended text message Icon () Indicates that there is an Extended Text Message available to provide detailed descriptions of the program (see page 37). j) Multiple Audio icon () Channels sometimes provide multiple audio tracks, often in a different language. When multiple audio tracks are available, the Alternate Audio icon changes its appearance to indicate that you can select one of those other audio tracks with the AUDIO button. k) DTV Caption Icon () Indicates that the current program contains digital closed caption data service.



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l) Wide Icon () Indicates that the current program is shown in wide picture format.

m) Content Advisory Icon () Content Advisory data is used for the parental guide control to block programs that are beyond predefined rating criteria set by users. This icon means that the current program contains content advisory data, and displays rating value of program. 2 Press INFO or EXIT while the Program Information is displayed. The Program Information disappears from the TV screen. Note Station name and clock are displayed only if they are set up by broadcast.

35 NORMAL OPERATION The Program Information appears whenever you press the INFO button on the remote control while viewing a program. Program and Station Guide The Program and Station Guide contains schedule and program information for all channels. They also provide local over-the-air channels information including conventional digital channels. Use the Program and Station Guide to find programs easily and conveniently and to view schedule and descriptive program information for the channels. STB TV VCR DVD AUX To Display the Program or Station Guide - Press the PROGRAM or STATION button on your remote control.

or - Press the MENU button on the remote control and select the GUIDE menu. Guide options will appear. Choose the Program or Station Guide option [MENU GUIDE Program Guide (or Station Guide)] To Exit the Program or Station Guide Press the EXIT button to return to the last channel you tuned to. To Navigate through programs on the Guides The Program and Station Guide are operated based on a simple straightforward "Highlight and Select" process. STB MODE POWER Program Guide ez ADD TV/INPUT AUDIO CC * SIGNAL 1. Use 1 / 2 / 3 / 4 on your remote control to navigate the guide screen. 2. Press SELECT to select or execute the highlighted menu or function (see SELECT page 37). Station Guide The on-screen guide shows you program listings for five channels within MUTE FLASHBK one and half hour time slot. For example: 6:00-7:30.

In order to view a list PROGRAM button of future programs or other channels, you may continuously press 1 / 2 / STATION button PG UP 3 / 4 to scroll horizontally or vertically. This may take a while to reach a PG DN SURF () button specific channel or program, if the channel or program is listed far from the currently highlighted program. The Program and Station Guide thus RATIO RATIO FREEZE SURF HELP offers you shortcuts to minimize your effort in navigating channels and time slots. Line Scrolling PROGRAM PROGRAM STATION STATION GUIDE You can reach other time slots or channels that are currently hidden from the screen using the arrow buttons " 1 / 2 / 3 / 4 ". Move horizontally to reach other channels and move vertically to reach other time slots on the Station Guide. Date Scrolling When the Program or Station Guide is displayed, you can also change the date of the Program Guide by pressing the DATE button then use 3 / 4 to select date. Page Scrolling (Program Guide only) You can move faster through channels by scrolling page-by-page with the PG UP or PG DN buttons on the remote control. Each button stroke scrolls one page up or down. To update the guide information (Guide Scan) You can update the guide information by pressing SURF (). The Guide Scan will update the guide information through all available channels; this may take a few minutes.

Arrow buttons DATE button INFO button Guide Scan 36 Program and Station Guide (Continued) To show all Information available on the Extended Text Message ips · If you select a TV program currently being broadcast, "Confirm" appears on the bottom of the full information window. Press (SELECT) to disappear the full information window. · If you select a past or future TV program on currently tuned channel, "OK" appears on the bottom of the full information window. Press (SELECT) to remove the full information window. · You can view hidden information on the full information window. Use 3 / 4 to scroll vertically. To Tune to another channel on the Full Information window You can also tune in other channels on the Full Information window. If you select a TV program that is not on the currently tuned channel, "Do you want to watch this Channel" message appears on the bottom of the full information window. Select "YES" then (SELECT) to tune to the channel of the selected program. Select "NO" then (SELECT) to remove the full information window.

37 NORMAL OPERATION Pressing the SELECT button will display the full information window about the highlighted program with Extended Text Message Icon (see page 35). Depending on the broadcaster and service provider, the Extended Text Message may include actor and role relationships, original material, production studio, the date on which the program was first shown, and so on. STB TV VCR DVD AUX STB MODE POWER Normal Operation TV/INPUT ez ADD * SIGNAL (dash) button AUDIO CC Channel Selection You can select a channel as shown below. Number and (dash) buttons (on the remote control) Use Number (0-9) and (dash) buttons to select a channel directly. FLASHBK button (on the remote control) Press to return to the previous channel you viewed. For example, if the DTV Receiver is tuned to channel 55 and then you change to channel 56, pressing FLASHBK will return to channel 55. Number buttons SELECT MUTE STB TV FLASHBK VCR DVD AUX PG UP PG DN SURF () button (on the remote control) Press to scroll through your favorite channels. CH +/- buttons (on the remote control) or 3 / 4 (on the front panel) Use CH +/- on the remote control or 3 / 4 on the front panel to cycle the HDTV Receiver through the channels in memory. STB MODE POWER HELP RATIO RATIO FREEZE SURF TV/INPUT ez ADD * SIGNAL SURFAUDIO)STATIONCC (button PROGRAM Volume Adjustment Adjusts the volume of analog audio out on HDTV Receiver. You must set Audio Variable to On in the OPTION menu to use the Volume Adjustment.

See page 24. VOL +/- buttons (on the remote control) or 1 / 2 (on the front panel) Use VOL +/- on the remote control or 1 / 2 on the front panel to adjust the volume for analog audio out on the HDTV Receiver. MUTE (on the remote control) Press MUTE to turn off the volume for analog audio out on the HDTV Receiver. Notes · Before setting Audio Variable to Off, make sure that you have turned down the TV's volume to the minimum. Otherwise, sudden high volume sound may cause hearing or speaker damage. · The volume of digital audio out on HDTV Receiver can not be adjusted on the HDTV Receiver front panel. CH +/- buttons FLASHBK button GUIDE MUTE button MUTE STB SELECT VOL +/- buttons TV FLASHBK VCR DVD AUX PG UP STB MODE PG DN POWER RATIO FREEZE ADD O ez SURF TV/INPUT STB AUDIO TV HELP * VCR DVD AUX CC SIGNAL POWER STB STATION MODE PROGRAM Signal TV/INPUT ez GUIDE ADD * SIGNAL button SIGNAL AUDIO UDIO CC Shows the signal strength bar for incoming signal to help you adjust the antenna to the correct position for your location.



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You can view the signal strength bar by pressing SIGNAL on the remote control. SELECT ip MUTE FLASHBK PG UP PG DN Refer to www.antennaweb.org for antenna position. AntennaWeb.org, will help you determine the proper outdoor antenna to use in order to receive television channels that are broadcast locally. SELECT FREEZE button Freeze HELP FLASHBK RATIO RATIO FREEZE SURF MUTE Pressing the FREEZE button freezes the current image. Pressing the FREEZE button once again returns the image to live video.

ote The frozen image returns to live video after 5 minutes. PG UP PROGRAM PROGRAM ST TION PG DN GUIDE RATIO FREEZE SURF HELP 38 PROGRAM STATION GUIDE Programming the Remote Control to Operate Other Devices The HDTV Receiver remote control is a multi-brand or universal remote control that can be programmed to operate most remote-controllable devices from other manufacturers. STB TV VCR DVD AUX VD UX MODE POWER POWER TV/INPUT ez ADD * SIGNAL ote The remote control may not be able to control all models of other brands. AUDIO UDIO CC 1 SELECT Test your remote control. To find out whether your remote control can operate a device without programming, turn on the device such as a VCR and select the corresponding mode (VCR) by pressing MODE on the remote control while pointing at the device.

Use the POWER and CH +/- buttons to see if the device responds properly. If not, the remote control requires programming. MUTE FLASHBK PG UP PG DN on the device to select 2 Turn mode (VCR, AUX, be programmed. Then pressing the corresponding TV, DVD or STB) by MODE on the remote control. button and MUTE 3 Press the POWER is now ready the program button simultaneously. The remote control to the code for the device. There are two to the correct code the device. 4 one at-a-time. If ways right find buttons repeatedly, for will turn will change First, if you press the CH + the codes the code is found, the device off. Second, enter the code number using the number buttons on the remote control.

The right code numbers for the corresponding device can be found on the following pages. If the code is correct, the device will turn off. RATIO RATIO FREEZE SURF HELP PROGRAM PROGRAM STATION TION GUIDE 5 Press the EXIT button to store the programming code. control functions 6 Test the remoterepeat from step 2. to see if the device responds properly. If not, 39 REFERENCE STB Remote Control Codes for Other Devices TV Codes Brands A

MARK ADMIRAL AKAI AMPRO AMSTRAD ANAM Codes 112 143 072 081 161 006 146 073 167 052 043 054 056 080 104 108 112 115 118 121 131 004 006 058 112 088 002 003 004 006 058 043 002 003 004 006 043 101 103 143 043 004 039 043 050 051 143 043 054 043 143 004 006 101 116 143 043 004 016 017 043 044 055 071 076 103 107 111 114 117 120 123 125 127 128 136 143 004 116 143 043 062 024 077 143 004 005 006 028 043 047 048 050 051 096 116 143 151 153 154 155 007 057 028 043 043 004 006 008 009 034 056 073 074 091 116 130 144 155 160 161 165 004 116 004 006 009 010 011 012 023 041 075 143 158 163 166 164 129 164 004 006 008 009 024 030 065 101 143 156 160 013 034 038 070 083 145 043 006 070 002 059 143 006 043 143 154 001 004 102 106 110 112 113 116 119 122 127 137 143 072 072 004 007 015 052 081 160 164 166 Brands MAGNAVOX Codes 003 004 006 022 059 060 061 063 064 127 143 160 164 006 077 164 164 004 007 072 116 088 004 006 024 028 042 049 077 116 088 004 006 024 028 040 042 109 116 124 146 004 006 062 101 015 025 006 007 016 019 024 040 056 130 132 134 043 043 043 019 081 004 034 056 080 092 164 003 004 006 024 043 056 059 060 063 064 127 143 164 003 004 005 006 038 059 070 093 143 160 164 006 018 023 025 027 116 135 176 004 143 144 160 161 165 167 004 058 116 131 143 171 173 034 056 092 019 043 047 116 127 143 004 006 023 024 056 065 074 144 152 156 160 161 165 007 019 043 047 186 168 169 004 006 058 116 004 050 089 101 105 113 116 127 133 137 143 160 007 020 021 033 039 053 057 082 166 004 028 043 048 116 143 004 007 015 028 030 057 082 094 101 116 143 160 004 014 019 022 028 029 081 143 170 175 088 072 041 070 079 085 126 139 147 185 003 004 028 043 116 112 004 043 002 003 004 006 044 059 060 063 064 116 127 140 160 164 081 Brands TATUNG TECHNICS TECHWOOD TEKNIKA Codes 056 062 034 080 084 004 002 003 004 006 024 028 031 043 072 077 101 103 143 037 046 086 087 072 172 004 116 007 015 030 040 051 062 101 138 143 008 009 146 174 004 116 004 006 004 116 043 072 073 095 103 157 001 187 112 MARANTZ MATSUI MEMOREX METZ MGA MINERVA MITSUBISHI MTC NAD NEC NIKEI ONKING ONWA OPTONICA PADIO SHACK PANASONIC PHILCO AOC BLAUPUNKT CANDLE CAPEHART CETRONIC CITIZEN CLASSIC CONCERTO CONTEC CORONADO CRAIG CROWN CURTIS MATHES CXC DAEWOO TELEFUNKEN TELERENT TERA TMK TOSHIBA TOTEVISION UNIVERSAL VIDEO CONCEPTS VIDIKRON VIDTECH YAMAHA YORK YUPITERU ZENITH ZENITH/LG ZENITH/HITACHI ZONDA PHILIPS VCR Codes Brands AIWA AKAI AMPRO ANAM AUDIO DYNAMICS BROKSONIC CANON 028 CAPEHART CRAIG CURTIS MATHES DAEWOO Codes 034 016 043 046 124 125 146 072 031 033 103 012 023 039 043 035 037 129 031 033 108 003 040 135 031 033 041 005 007 010 064 065 108 110 111 112 116 117 119 108 012 023 039 043 034 053 059 006 017 025 027 029 031 034 035 036 037 046 101 129 131 138 153 003 008 009 010 034 031 033 063 072 107 109 144 147 132 136 012 045 004 018 026 034 043 063 137 150 031 033 031 033 012 013 015 033 040 066 101 043 012 031 033 043 048 050 055 060 130 150 152 014 034 039 043 047 048 001 012 013 020 101 106 114 123 DAYTRON DYNASTY DYNATECH ELECTROHOME EMERSON PIONEER PORTLAND PROSCAN PROTON QUASAR RADIO SHACK RCA FISHER FUNAI FUTURETECH GE HALL MARK HITACHI REALISTIC ROCTEC RUNCO SAMPO SAMSUNG DAYTRON DBX DYNATECH ELECTROHOME EMERSON INFINITY INKEL JBL JCPENNY SANYO SCOTT SEARS FISHER FUNAI GE GO VIDEO HARMAN KARDON HITACHI INSTANTREPLAY JCL JCPENNY JENSEN JVC KEC KENWOOD KLOSS KMC KTV LG SHARP SIEMENS SIGNATURE SONY SOUNDESIGN SPECTRICON SSS SUPRE MACY SYLVANIA LODGENET LOGIK LUXMAN LXI KENWOOD LG TANDY 40 Remote Control Codes for

Other Devices (Continued) VCR Codes Brands LLOYD LXI MAGIN MAGNAVOX MARANTZ MARTA MATSUI MEI MEMOREX Codes 034 003 009 013 014 017 034 101 106 040 031 033 034 041 067 068 012 031 033 067 069 101 027 030 031 033 003 010 014 031 033 034 053 072 101 102 134 139 045 046 059 013 020 013 020 045 046 049 051 059 061 151 034 040 024 034 012 023 039 043 048 043 053 054 066 070 074 083 133 140 145 013 020 031 033 063 031 034 067 031 033 034 054 067 071 101 101 013 021 048 108 072 011 014 033 066 075 145 003 008 010 014 031 033 034 040 053 054 101 058 148 014 032 040 102 104 105 107 109 112 113 115 120 122 125 022 043 048 135 003 007 010 014 102 134 017 037 112 129 131 003 008 009 010 013 014 017 020 031 042 073 081 101 031 054 149 024 003 009 031 052 056 057 058 076 077 078 149 034 013 031 033 034 059 067 034 010 034 039 043 034 039 043 031 033 070 019 031 033 034 101 034 Brands TMK TOSHIBA Codes 006 008 013 042 047 059 082 112 131 TOTEVISION 040 101 UNITECH 040 VECTOR RESEARCH 012 VICTOR 048 VIDEO CONCEPTS 012 034 046 VIDEOSONIC 040 WARDS 003 013 017 024 031 033 034 040 053 054 131 YAMAHA 012 034 039 043 ZENITH 034 048 056 058 072 080 101 001 AUX (CD) Codes Brands ADC AIWA AKAI DENON EMERSON FISHER GE HITACHI JVC KENWOOD Codes 104 149 178 189 202 212 134 165 200 101 190 221 222 223 133 136 152 166 175 113 122 138 140 168 209 133 166 117 196 227 228 105 110 113 118 144 154 155 198 200 216 217 108 123 153 173 127 135 172 179 180 129 135 141 159 224 225 226 111 147 156 169 120 179 229 230 231 125 126 130 131 213 215 232 100 107 110 124 139 140 145 146 162 163 164 165 170 106 151 176 184 203 219 233 127 135 195 199 237 107 124 167 171 179 187 191 205 206 207 106 176 186 188 114 133 157 166 114 121 140 158 168 147 110 141 150 181 200 204 210 150 217 102 115 116 128 141 193 100 142 168 174 182 183 192 208 234 235 236 106 148 151 176 184 203 214 218 103 112 132 141 160 161 132 177 185 161 197 201 109 119 137 143 194 211

MGA MINOLTA MITSUBISHI MTC MULTITECH NEC NORDMENDE OPTONICA PANASONIC PENTAX PHILCO PHILIPS PILOT PIONEER PORTLAND PULSAR QUARTZ QUASAR REALISTIC LUXMAN MAGNAVOX MARANTZ MCS MITSUBISHI ONKYO OPTIMUS DVD Codes Brands APEX DIGITAL DENON GE HARMAN KARDON JVC LG MAGNAVOX MARANTZ MITSUBISHI NAD ONKYO PANASONIC PHILIPS PIONEER PROCEED PROSCAN RCA SAMSUNG SONY THOMPSON TOSHIBA YAMAHA ZENITH Codes 022 020 014 005 006 027 012 001 010 016 025 013 024 002 023 008 017 003 009 013 004 026 021 005 006 005 006 011 015 007 005 006 019 008 009 018 001 010 016 025 PANASONIC PHILIPS PIONEER QUASAR RADIO SHACK RCA SANYO SEARS SHARP SHERWOOD SONY RICO RUNCO SALORA SAMSUNG TECHNICS AUX (AUDIO) Codes Brands HITACH JVC KENWOOD LUXMAN MARANTZ NAD NAKAMICHI ONKYO OPTIMUS PANASONIC PIONEER QUASAR RCA SHARP SHERWOOD SONY

KENWOOD LUXMAN MARANTZ NAD NAKAMICHI ONKYO OPTIMUS PANASONIC PIONEER QUASAR RCA SHARP SHERWOOD SONY

KENWOOD LUXMAN MARANTZ NAD NAKAMICHI ONKYO OPTIMUS PANASONIC PIONEER QUASAR RCA SHARP SHERWOOD SONY

KENWOOD LUXMAN MARANTZ NAD NAKAMICHI ONKYO OPTIMUS PANASONIC PIONEER QUASAR RCA SHARP SHERWOOD SONY

KENWOOD LUXMAN MARANTZ NAD NAKAMICHI ONKYO OPTIMUS PANASONIC PIONEER QUASAR RCA SHARP SHERWOOD SONY

SOUNDESIGN TOSHIBA VICTOR Codes 010 006 039 049 050 001 013 029 031 044 017 002 021 028 030 032 035 014 051 052 008 009 025 040 041 011
013 022 003 015 036 046 007 016 020 023 024 026 033 037 047 003 036 004 013 029 043 045 012 019 027 034 038 048 053 018 042 006 039 TEAC
SANSUI SANYO SCOTT SEARS YAMAHA STB Codes Brands LG Zenith Codes 001 001 002 SHARP SHINTOM SONY SOUNDESIGN STS SYLVANIA
SYMPHONIC TANDY TATUNG TEAC TECHNICS TEKNIKA THOMAS 41 REFERENCE Troubleshooting Check the following guide for the possible cause
of a problem before contacting service.



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LST-3100A user guide
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