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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH L15V24S. You'll find the answers to all your questions on the ZENITH L15V24S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH L15V24S
User guide ZENITH L15V24S
Operating instructions ZENITH L15V24S
Instructions for use ZENITH L15V24S
Instruction manual ZENITH L15V24S

Installation, Setup & Operating Guide | Warranty

Model Number | L15V24S | LCD-TV / Monitor



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV 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 Zenith Electronics Corporation.

Unauthorized modification could void the user's authority to operate this product. The responsible party for this product's compliance is : Zenith Electronics Corporation, 2000 Millbrook Dr., Lincolnshire, IL 60069, USA 1-847-941-8000 206-3825 2 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 potential 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 booklet 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. 2. Follow Instructions All operating and use instructions should be followed. 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. 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. 7. Accessories, Carts, and Stands Do not place this product on an unstable cart, stand, tripod, bracket, or table.

The product may 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. 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. 9. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 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. 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. 12. Power-Cord Polarization This product is equipped with a three-wire grounding type 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, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. 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. (Continued on next page) **PORTABLE CART WARNING 206-3825 3 INTRODUCTION IMPORTANT SAFETY INSTRUCTIONS 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 so as to provide some 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 antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

19. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 20. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a.

If the power-supply cord or plug is damaged. b. If liquid has been spilled, or objects have fallen into the product.



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c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation. e. If the product has been dropped or the cabinet has been damaged. f. If the product exhibits a distinct change in performance. 21.

Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 23. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. 24. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. Example of Grounding According to National Electrical Code Instructions Ground Clamp Antenna Lead in Wire Antenna Discharge Unit (NEC Section 810-20) Grounding Conductor (NEC Section 810-21) Ground Clamps Power Service Grounding Electrode System (NEC Art 250, Part H) Electric Service Equipment NEC - National Electrical Code 15. Lightning For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. 17. Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product. 206-3825 4 1 Safety Warnings Important Safety Instructions Controls Remote Control: Installing Batteries/ Operation TV Overview 2 3 6 10 11 2 Antenna Connections VCR Connections External Equipment Connections PC/Computer Connections PC Mode Functions Check 12 13 14 15 17 CONTENTS INDEX BASIC FEATURES 5 MISC. SPECIAL FEATURES VIDEO / AUDIO CLOCK/ TIMERS 3 Turning the TV on TV Mode Available Menus Menu Language Selection Auto Programming: Finding/Erasing channels Favorite Channel Memory 18 19 20 21 23 4 Setting the Clock Setting the Off Timer Setting the On Timer Sleep Timer Setup 24 25 26 27 5 Video/Picture Setup Audio/Sound Setup 28 31 6 Before operating the TV, please read this manual carefully.

Closed Captions Parental Control Auto Off Key Lock External Control Device Setup 37 40 42 43 44 7 Maintenance Product Specifications Troubleshooting Check List Your Zenith Limited Warranty 49 50 51 Back cover 206-3825 INSTALLATION INTRODUCTION Controls Front of the TV Side Control Panel Channel Buttons ch Volume Buttons vol enter Enter Button Menu Button TV/Video Button menu tv/video on/off On/Off Button Remote Control Sensor Power/Standby indicator Illuminates brightly when the TV is in standby mode. Dims when the TV is switched on. 206-3825 6 Back of the TV Connection Panel AC INPUT (120V) RS-232C INPUT H/P S-VIDEO VIDEO (MONO) L VIDEO IN AUDIO R PC INPUT ANT IN +75 PC SOUND Power Cord Socket - This TV operates on AC power. Never attempt to operate the TV on DC power. Headphone Jack S-Video Input Audio/Video Input PC Input PC Sound Antenna Input RS-232C Port 206-3825 7 INTRODUCTION controls Remote Control Buttons power tv/video POWER 1 2 5 8 0 menu mute ch 3 6 9 cc NUMBER 4 7 apc PAGE onze Wire 300 Flat Wire Single Family Dwelling Antenna Converter Antenna jack - In poor signal areas, to get better picture quality, install the antenna as shown to the right. - If antenna is split for two TVs, use signal splitter for connection. VHF UHF PC INPUT ANT IN +75 PC SOUND signal Amplifier 206-3825 12 VCR Connection and Viewing Setup - In Video mode, TV automatically reverts to TV mode if the fer button or flashbk button are pressed. - See following pages to connect to other A/V external equipment to input jacks on the TV. 1 Connections q Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. AC INPUT (120V) RS-232C INPUT H/P S-VIDEO VIDEO (MONO) L VIDEO IN AUDIO R PC INPUT L R ANT IN +75 PC SOUND 2 Typical Antennas 1 ANT IN Direct connection ANT OUT S-VIDEO OUT CH3 IN CH4 (R) AUDIO (L) VIDEO VCR Connection Panel 2 Viewing Setup Watching TV programs Turn the TV on and tune to a channel.

Watching VCR a. Use tv/video button on the remote control to select Video mode. - Select channel 3 or 4 for ANT IN connection 1. - Select VIDEO to use Audio/Video In connections 2. b. Insert a video tape into the VCR and press the PLAY button. 206-3825 13 INSTALLATION Connecting a VCR External Equipment Connections Watching External A/V Source 1 Connections q Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV. S-VIDEO VIDEO (MONO) L VIDEO IN AUDIO R PC INPUT ANT IN +75 PC SOUND TV Connection Panel Camcorder CDGP Video Game set External Equipment Connection Panel R AUDIO VCDP L VIDEO CDI 2 Viewing Setup q q Turn on the external A/V equipment. Turn the TV on and use tv/video button to select Video mode. Video tv/video On Remote Control 206-3825 14 PC/Computer Connections (using the TV as a Monitor) - After setup, be sure to select RGB-PC to see the PC image on TV screen.

q Set the monitor output resolution on the PC before connecting to the TV. See the next page. Connect the TV to the PC with the PC cable. Connect the PC audio output to the TV's PC SOUND input. q q VIDEO (MONO) L VIDEO IN AUDIO R PC INPUT ANT IN +75 PC SOUND TV Connections Panel PC Connections Panel 2 Viewing Setup q q Turn on the PC/Computer.



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Turn the TV on and use tv/video button to select PC mode. PC tv/video On Remote Control 206-3825 15 INSTALLATION 1 Connections PC/Computer Connections (using TV as a Monitor) Displayable Monitor Output Format Specifications MODE Resolution 640x400 640x480 VGA 640x480 640x480 640x480 800x600 800x600 SVGA 800x600 800x600 800x600 (MAC) XGA 832x624 1024x768 1024x768 1024x768 Horizontal Frequency (KHz) 37.9KHz 35.0KHz 37.9KHz 37.

5KHz 43.3KHz 35.2KHz 37.9KHz 48.1KHz 46.9KHz 53.7KHz 49.7KHz 48.4KHz 56.5KHz 60.

2KHz Vertical Frequency (Hz) 85Hz 67Hz 72Hz 75Hz 85Hz 56Hz 60Hz 72Hz 75Hz 85Hz 75Hz 60Hz 70Hz 75Hz Notes q For optimum picture quality, use standard XGA (1024x768) computer output at a 60Hz refresh rate. Using other formats (i.e.: VGA, SVGA, etc) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using). q The synchronization input form for Horizontal and Vertical frequencies is separate. 206-3825 16 PC Mode Functions Check - After setup, be sure to select PC source to see the PC image on TV screen. 1 Use the menu button to display the available menu shown below. Contrast Brightness H-Position V-Position Clock Phase Auto configure Reset DE 80 60 0 0 40 16 Move FG Adjust Menu H-Position/V-Position Adjusts picture left/right and up/down. The adjustment ranges are -100~+100 / -30~+30. q Clock Minimizes any vertical bars or stripes appearing on the screen background. The adjustment range is 0~80. q Phase Remove any horizontal noise and clear up or sharpen the character images. The range adjustment is 0~31. q Auto-configure Automatically adjusts the screen position, clock and clock phase. (The displayed image will disappear for a few seconds while Auto-configuration is in progress.) q Reset Returns to the default settings programmed at the factory; default settings cannot be changed. q 206-3825 17 INSTALLATION Turning the TV On TV Operation Overview 1 2 3 1 2 3 First, connect antenna cable and power cord correctly. At this moment, the TV is switched to standby mode. q In standby mode, press the power, ch (D,E), tv/video and number buttons on the remote control or ch (D,E), tv/video and on/off on the TV side panel to turn on the TV.

Select the viewing source by pressing tv/video on the remote control. q Note: See page 21 if you have not auto programmed the TV to receive channels in your local broadcast area. After viewing, press the power button on the remote control. The TV reverts to standby mode. Watching TV programs Press power on the remote control to turn the TV on. Use the channel (D,E) or number buttons to select a channel to view. Adjust volume level. q Volume (G) button increases the sound level. Volume (F) button decreases the sound level. Volume 45 q - If you will be away on vacation, disconnect the power plug from the wall power outlet.

206-3825 18 TV Mode Available Menus 1 Press the menu button repeatedly to display the available menus shown below. Auto program Manual program Favorite channel APC Contrast Brightness Color Sharpness Tint DE Clear 85 50 70 50 0 FG DE Move G Next Menu Move Adjust Menu Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off DASP Balance AVL 0 Off DE Move FG Adjust Menu DE Move G Next Menu Clock Off timer On timer Auto off -- : -- AM Off DE Move G Next Menu 2 206-3825 Use the channel (D,E) buttons to select a menu option. 19 BASIC FEATURES Menu Language Selection Language 1 Use the menu button to select the menu shown. 2 Use the volume (F, G) buttons to select the language for the menus to appear in. Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off DE Move FG Adjust Menu DE Move FG Adjust Menu q Each press of volume (F, G) buttons selects languages in the order shown below. English Español Français 3 Press the menu button to save. 206-3825 20 Auto Programming: Finding/Erasing Channels - For Auto program to work, the programming source must be connected to the TV and the TV must be receiving programming signals either over-the-air or from a cable-type service provider. Channel Search (Auto Programming) 1 Press the a.prog button on the remote control. 2 Press the a.

prog or volume (F, G) buttons to begin the channel search. q Auto program FG Channel number being memorized is displayed. Auto program Stop : A TV 63 34% - When the channel search is complete, use the channel (D,E) buttons to review the memorized channels. - If you press the enter (A) button in auto programming, the function will stop and only channels programming up to that time will remain. - Auto programming function can memorize only the channels which are being received at that time.

206-3825 21 BASIC FEATURES Wait for auto program to complete the channel search cycle before choosing a channel. The TV scans for over-the-air channels and then channels provided by a cable service. Auto Programming: Finding/Erasing Channels Memorizing/Erasing Channels - Select Memory (to add the channel) or Erase (to delete the channel from memory). 1 Use the memory/erase button on the remote control. Manual program TV 7 Memory F G 2 Use the channel (D,E) buttons to select a channel you want to add to memory or erase and then use the memory/erase or volume (F, G) buttons to select Memory (add) or Erase (delete).

Manual program TV 7 Memory F G The current channel number is displayed. q Each time you press the volume (F, G) buttons, you toggle between Memory and Erase, as shown. Memory Erase 3 22 Press the enter (A) button to save. q The current channel is added to Memory or Erased from the channel list.

206-3825 Favorite Channel Memory - This function is a convenient feature that lets you quickly scan up to five channels of your choice without having to wait for the TV to scan through all the channels in between. 1 Use the menu button to select the menu shown below. 3 i.e) To change channel 2 to channel 30 DE Move G Next Menu TV TV TV TV TV 2 4 6 9 11 TV 30 DE Move FG Adjust A Exit Press the volume (F, G) buttons. 2 Use the channel (D,E) buttons to select the favorite channel option. Note: The first five channels found by Auto Program appear on menu, change them to your favorite channel numbers.

q Repeat this step to memorize other channels. q 4 Press the enter (A) button to save. - To select the favorite channel mode, press fcr (Favorite Channel Review) repeatedly. The five channels programmed to be favorites appear on the screen one-after-the-other.



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206-3825 23 BASIC FEATURES Auto program Manual program Favorite channel Press the volume (G) and then use the channel (D,E) buttons to select an order as favorite channel, then use the volume (F, G) buttons to select the desired channel number as favorite channel. Setting the Clock - If current time setting is erased by a power failure or if TV is unplugged, reset the clock. 1 Use the menu button to select the menu shown below. 3 Press the volume (G) and use the channel (D,E) buttons to set current minute. q Clock Off timer On timer Auto off -- : -- AM Off If you hold down the channel (D) button, the minute display is changed in the sequence of 00 01 02 ..

..58 59, and changed in the reverse sequence for channel (E) button. DE Move G Next Menu Clock Off timer On timer Auto off -- : ---- AM Off FG Move DE Adjust Menu 2 Press the volume (G) and then use the channel (D,E) buttons to set the current hour. Clock Off timer On timer Auto off -- : -- AM Off 4 Press the menu button to save. q FG Move DE Adjust Menu The clock starts when you press the menu button.

206-3825 24 Off Timer Setup - Off Timer operates only if the Clock has been set to the current time. - Off Timer overrides On Timer if they are set to the same time. 1 Use the menu button to select the menu below. 4 Press the volume (G) and use the channel (D,E) buttons to set the minutes. q Clock Off timer On timer Auto off -- : -- AM If you hold the channel (D) button, the minute display changes in the sequence of 00 01 02 ..

..58 59, and changes in the reverse sequence for channel (E) button. Off DE Move G Next Menu Clock Off timer On timer Auto off -- : ---- AM Hold 3 Press the volume (G) and then use the channel (D,E) buttons to set the turn-off hour. 5 Press the volume (G) button and then use the channel(D,E) buttons to select Hold or Run. Hold, Off Timer will not work. Run, Off Timer will work. q Each press of channel (D,E) button changes the screen display as shown below. q Clock Off timer On timer Auto off -- : -- AM Hold Run FG Hold Move DE Adjust Menu 6 206-3825 Press the menu button to save. 25 CLOCK/ TIMERS 2 Use the channel (D,E) buttons to select the Off timer option.

FG Move DE Adjust Menu On Timer Setup - Timer function operates only if current time has been already set. 1 Use the menu button to select the menu shown below. Clock Off timer On timer Auto off -- : -- AM 5 6 Press the volume (G) button and then use the channel (D,E) buttons to select the channel at turn-on. Off Press the volume (G) button and then use the channel (D,E) buttons to select the volume at turn on. DE Move G Next Menu Clock Off timer On timer Auto off 2 3 Use the channel (D,E) buttons to select the On timer option. -- : -- AM TV 2 Vol 30 Hold DE FG Move Adjust Menu Press the volume (G) and then use the channel (D,E) buttons to set the turn-on hour. Clock Off timer On timer Auto off 7 Press the volume (G) button and then use the channel (D,E) buttons to select Hold or Run. q -- : -- AM TV 2 Vol 30 Hold DE Each press of channel (D,E) button changes the screen display as shown below. FG Move Adjust Menu Run Hold 4 Press the volume (G) and use the channel (D,E) buttons set the minutes. q 8 Press the menu button to save. q If you hold down the channel (D) button, the minute display is changed in the sequence of 00 01 02 ...58 59, and changed in the reverse sequence for channel (E) button. On Timer setup is complete.

- Unless a button is pressed within two hours after the TV is turned on by the On Timer function, the TV will automatically turn off. - TV must be in standby mode for the On Timer to work. 206-3825 26 Sleep Timer Setup - Sleep timer turns the TV off at the preset time. 1 Use the sleep or volume (F, G) button to set the sleep timer. q Each press of sleep or volume (F, G) button changes the setting as shown below.

Sleep 0 FG 0 10 240 20 180 30 120 q q 90 60 To cancel sleep time setting, press the sleep button repeatedly to select [---]. The screen display of SLEEP 1 appears on the screen for 1 minute prior to TV turn off. - When the sleep time you want is displayed on the screen, don't press the sleep button again. - To check the remaining sleep time, press the sleep button once. - To change sleep time setting, press the sleep button repeatedly to select time setting you want. - If you turn the TV off after setting the sleep timer, the setting will be erased. 206-3825 27 CLOCK/ TIMERS Video/Picture Setup - APC adjusts the TV for the best picture appearance. APC (Auto Picture Control) 1 Press the apc button on the remote control. APC Clear FG 2 Use the apc buttons or volume (F, G) button to select your desired picture appearance. q Each press of volume (F, G) button selects a different picture appearance.

Clear Optimum User Soft 3 Press the enter (A) button to save. 206-3825 28 Manual Picture Control (User Option) 1 Use the menu button to select the menu shown. 3 Use the volume (F, G) button to make appropriate adjustments. APC Contrast Brightness Color Sharpness Tint DE Clear 85 50 70 50 0 Contrast 35 FG Move Adjust Menu Use the channel (D,E) button to select another picture option. q Contrast, Brightness, Sharpness and Color are adjustable from 0 to 100. q Tint is adjustable from Red 50 to Green 50. q 2 Use the channel (D,E) button to select a picture option to adjust. 4 Press the menu button to save. - APC is cancelled if you set User options. 206-3825 29 VIDEO / AUDIO Video/Picture Setup (Continued) - Fine tune the Picture appearance to your personal preference Fine Tuning Adjustment 1 Use the menu button to select the screen display as shown below.

3 Press the volume (G) and then use the channel (D,E) buttons to select the Fine option. Auto program Manual program Favorite channel Memory/Erase Channel Fine Memory 13 0 DE Move G Next Menu DE Move FG Adjust Menu 4 2 Use the channel (D,E) buttons to select the Manual program option. Use the volume (F, G) buttons to adjust the picture appearance to your preference. 5 Press the menu button to save. 206-3825 30 Audio/Sound Setup - This function selects the sound appropriate to your viewing program.

Audio Setup / DASP 1 Press the dasp button on the remote control. DASP User FG 2 Use the dasp button or volume (F, G) button to select the desired setting for the sound. q Each press of volume (F, G) button changes the DASP sound option as shown. User Flat Movie Sports Music 3 Press the enter (A) button to save.



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206-3825 31 VIDEO / AUDIO Audio/Sound Setup Equalizer Adjustments 1 Use the menu button to select the menu shown.

4 Use the volume (F, G) buttons to select the band you want to adjust and then use the channel (D,E) buttons to adjust the band level. DASP Balance AVL 0 Off DE Move G Next Menu Flar: Movie: Music: Sports: User: 0.1 0.5 1.5 5.0 10KHz FG Move DE Adjust Menu 2 Press the volume (G) button. 3 Use the channel (D,E) button to select the User option. 5 Press the menu button to save. 206-3825 32 Sound Balance 1 Use the menu button to select the menu shown. 3 Use the volume (F, G) button to adjust the balance.

q Balance is preset at 0. DASP Balance AVL 0 Off DE Move G Next Menu DASP Balance AVL 0 Off DE Move FG Adjust Menu 2 Use the channel (D,E) button to select the Balance option. VIDEO / AUDIO 33 4 Press the menu button to save. 206-3825 Audio/Sound Setup - AVL maintains an equal volume level automatically even if the channel is changed. AVL (Auto Volume Leveler) 1 Use the menu button to select the menu shown. 3 Use the volume (F, G) buttons to select On or Off. q DASP Balance AVL Each press of volume (F, G) buttons changes the screen display as below. 0 Off On Off DE Move G Next Menu 4 2 Use the channel (D,E) buttons to select the AVL option. DASP Balance AVL 0 Off Press the menu button to save. DE Move FG Adjust Menu 206-3825 34 SAP (Second Audio Program) Bilingual Signal Setup On-screen display in stereo mode : STEREO On-screen display in bilingual mode : SAP - Bilingual (second audio program) signal q q q q This signal contains the secondary language signal in addition to the primary language. There are primary and secondary languages and stereo modes in bilingual signals. [MONO] : The primary language is heard from left and right speakers in mono sound. [STEREO] : The primary language is heard from left and right speakers in stereo sound. [SAP] : The secondary language is heard from both left and right speakers in mono sound. 1 2 Press the mts button on the remote control.

Use the mts button to change the audio mode. q Each press of mts changes the audio mode as shown below. Mono Stereo SAP 3 Press the enter (A) button to save. - Select Mono sound mode if the signal is not clear or in poor signal reception areas. - STEREO and SAP modes are available only if included on the broadcast signal.

206-3825 35 VIDEO / AUDIO Audio/Sound Setup Mute - Mute turns off the sound. Using mute is convenient if the user needs to answer a phone call, while viewing the TV. 1 Press the mute button on the remote control. Mute To restore muted sound, press the mute button or volume (F, G) buttons. @@Adjust sound level to headphone using the volume (F, G) buttons. @@@@The signal from the antenna is weak. @@@@EZ Mute shows the selected captions option (if available on program) when the TV sound is muted. Parental Control The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcast station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked.

It is also possible to block all program viewing for a time period. To use the Parental Control Function, the following must be set. 1. 2. 3. 4. Ratings and categories to be blocked. Number of hours to lock the television viewing control Set a password Enable the lock V-Chip rating and categories Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories.

Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

For Movies previously shown in theaters: Movie Ratings: - Unblocked - G and Above - PG and Above - PG-13 and Above - R and Above - NC-17 and Above -X (general audience) (parental guidance suggested) (13 years and up) (restricted) (18 years and up) (adult) If you set PG-13 and Above, G and PG movies will be available; PG-13, R, NC-17, and X will be blocked. For Television programs including made-for-TV movies: General TV Ratings: - Unblocked - TV-G and Above - TV-PG and Above - TV-14 and Above - TV-MA Children TV Ratings: - Unblocked - TV-Y and Above - TV-Y7 (general audience) (individual categories do not apply) (parental guidance suggested) (14 years and up) (mature audience) (youth) (individual content categories do not apply) (youth, 7 years and up) Content Categories: - Dialog - sexual dialogue - Language - adult language - Sex scenes - sexual situations - Violence - F Violence - fantasy violence - No Rating (applies to TV-PG and Above, TV-14) (applies to TV-PG and Above, TV-14 and Above, TV-MA) (applies to TV-PG and Above, TV-14 and Above, TV-MA) (applies only to TV-Y7) (blocks all viewing) (See next page to set blocking.)

206-3825 40 1 Use the menu button to select the menu shown. 4 Use the channel (D,E) buttons to select the types of blocking to be set. Use the volume (F, G) buttons to select the types of ratings to block.

q Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off MPAA, Age, and/or Content block may be set. Press the menu button to return from Age block or Content block options. Adjust Menu DE Move FG 2 Use the channel (D,E) buttons to select the the Parental Ctl option. 5 Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off Use the channel (D,E) buttons to select the Set Hours option. Use the volume (F, G) buttons to set the number of hours for the blocking.

(Up to 99) Use the channel (D,E) buttons to select the Set Password option. Enter a four digit password. Enter it again when requested. q DE Move G Next Menu A new password may be chosen each time blocking is set up. 3 Press the volume (G) button. Aux. block MPAA Age block Content block Set hours Set password Lock on/off DE F G 00 Hours F G To set Set hours Adjust Menu Press the menu button to save the blocking setups and exit. Move FG If Parental is already set, enter the password when requested. q Age block and Content block options, also have sub menus; repeat step 3 to 4 in sub menu, to set type of blocking and rating. q 206-3825 41 SPECIAL FEATURES Unblocked Unblocked 6 Press the channel (D,E) buttons to select the Lock on/off option.

Press the volume (F, G) buttons to turn the lock On. Auto Off - If there is no input signal, the TV switches to standby mode automatically after 10 minutes. 1 Use the menu button to select the menu shown. 3 Use the volume (F,G) buttons to select On or Off.



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Clock Off timer On timer Auto off -- : -- AM Off Clock Off timer On timer Auto off -- : -- AM Off DE Move G Next Menu DE Move FG Adjust Menu q Each press of volume (F, G) buttons toggles between On and Off. On Off 2 Use the channel (D,E) buttons to select the the Auto off option. 4 Press the menu button to save. 206-3825 42 Key Lock - The TV can be set up so that it can only be used with the remote control. - This feature can prevent unauthorized viewing. 1 Use the menu button to select the menu shown.

3 Use the volume (F,G) buttons to select On or Off. Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off Language Captions Caption/Text Key lock Parental Ctl English Off CC 1 Off DE Move FG Adjust Menu DE Move FG Adjust Menu q Each press of volume (F, G) buttons toggles between On and Off. On Off 2 Use the channel (D,E) buttons to select the the Key lock option. 4 Press the menu button to save. - This TV is programmed to remember which option it was last set to even if you turn the TV off.

206-3825 43 SPECIAL FEATURES External Control Device Setup - Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally. - Connect the serial port of the control device to the RS-232C jack on the Monitor back panel. - RS-232C connection cables are not supplied with the Monitor. This chapter describes a subset of the Zenith standard MPI protocol. It differs from the standard MPI communications protocol in terms of not requiring a continuous polling loop and only implementing a subset of commands and responses. Command format is as follows: Command byte, optional data byte, optional data byte,....., checksum. All values in hex, no spaces, carriage returns or line feeds. The checksum is the sum of all previous bytes in the command string, truncated to 8 bits. If a command is received with a bad checksum, it should be ignored. If the beginning of a command is received, the entire command must be received within some timeout period. If the timeout expires, the partial command is abandoned, and any internal buffers flushed.

Response Format: Response, Data byte, Checksum 1 How to connect q q Connect the serial port of the control device to the RS-232C jack on the TV back panel. RS-232C connection cables are not supplied with the TV. AC INPUT (120V) RS-232C INPUT H/P S-VIDEO VIDEO (MONO) L VIDEO IN AUDIO R PC Connections Panel TV Connections Panel Commands Supported 01. Power On - To turn the power of the TV on, the following string needs to be sent to the unit; E110F1 E1 : It is the start of the command and signifies a "key" (as in front panel keys) command. 10 : It is the command for power on. F1 : It is the checksum calculated by adding "E1" + "10" to get "F1". The unit will perform the action and will not return a response. 206-3825 44 02. Power Off - To turn the power of the TV off, the following string needs to be sent to the unit; 05. Volume Direct Access - To set the volume of the TV to a specific level, the following string needs to be sent to the TV; E111F2 E1 : It is the start of the command and signifies a "key" (as in front panel keys) command. 11 : It is the command for power off. F2 : It is the checksum calculated by adding "E1" + "11" to get "F2". The TV will perform the action and will not return a response. EAXXY EA : It is the start of the command and signifies a volume command. XX : It is the value that the TV is to be set to in hex.

YY : It is the checksum calculated by adding the previous bytes together and truncating. - Valid values for "XX" are from 0-3F Hex, if the second MSB (X1XXXXXX) is set to one, the volume data is ignored and the TV mutes the sound. To unmute the unit a EA command with the second MSB set to 0 and a volume greater than 0 should be issued. Example; To set the volume level to 29 decimal (about half of the 63 decimal range), the data byte would be constructed in binary as follows (MSB) 01011101 (LSB) or 5D hex. The command would then be: q EA5D47 EA : It is the start of the command and signifies a volume command.

5D : It is the data byte to select the volume level and to set the value to 29 decimal. 47 : It is the checksum calculated by adding "EA" + "5D" to get "47" after truncating the resulting "147". 03. Volume Up - To turn the volume of the TV up, the following string needs to be sent to the unit; E10AEB E1 : It is the start of the command and signifies a "key" (as in front panel keys) command. 0A : It is the command for volume up. EB : It is the checksum calculated by adding "E1" + "0A" to get "EB". The unit will perform the action and will not return a response. 04. Volume Down - To turn the volume of the TV down, the following string needs to be sent to the unit; E10BEC E1 : It is the start of the command and signifies a "key" (as in front panel keys) command. 0B : It is the command for volume down.

EC : It is the checksum calculated by adding "E1" + "0B" to get "EC". The TV will perform the action and will not return a response. 206-3825 45 SPECIAL FEATURES The TV will perform the action and will not return a response. External Control Device Setup 06. Set Volume Limits - The command allows the maximum or minimum volume limits to be set. The command is structured as follows: 07. Direct Channel Selection - This command allows the RF channel number to be set as well as allowing the controller to select which base band input is active. The command is structured as follows. EBXXYY EB : It is the start of the command and signifies a volume limit command. XX : It follows its the data byte that signifies if it is the minimum or maximum value being changed and the value that it is being changed to.

YY : It is the checksum calculated by adding the previous bytes together and truncating. The data byte "XX" is defined as follows: The upper two bits select the parameter (00=start volume, 01 max volume limit, 10=min volume limit) the lower 6 bits of data set the actual volume level in a range of 0 to 3F hex. Example; To set the maximum volume level to 29 decimal (about half of the 63 decimal range), the data byte would be constructed in binary as follows (MSB) 01011101 (LSB) or 5D hex. The command would then be: q EB5D48 EB : It is the start of the command and signifies a volume limit command. 5D : It is the data byte to select the volume level and to set the value to 29 decimal.

48 : It is the checksum calculated by adding "EB" + "5D" to get "48" after truncating the resulting "148".



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E4XXYY E4 : It is the start of the command and signifies a direct channel command. XX : It is the data byte that selects the channel to be tuned. YY : It is the checksum calculated by adding the previous bytes together and truncating. In order to select different source inputs a prearranged channel number is used. The channel mapping is as follows: Channel 1 to 125 131 132 133 134 135 136 137 138 139 Number Source Traditional RF Rear composite Video Input Rear S-Video Input Front RGB Video Input Rear RGB Video Input Not used (Reserved for Scan Card Products) Rear Y, Pb, Pr Component Input Front S-Video Not Used (Reserved for internal Y, Pb, Pr Video Input) Not Used (Reserved for internal S-Video Input) Note: Not all input configurations will be available in all products. When a non-valid input is selected the unit should remain on the current input. Example; To select the rear RGB video input, the data byte would be 86 the hex representation of 134 decimal. The command would then be: q E48678 E4 : It is the start of the command and signifies a direct channel command. 86 : It is the data byte to select the rear RGB input 16A: It is the checksum calculated by adding "E4" + "86" to get "6A" after truncating the resulting "16A". The TV will perform the action and will not return a response. - Upper Data Byte Mapping 00=Star Volume 01=Maximum Volume Limit 10=Minimum Volume Level 11=Start Volume=Last Volume The TV will perform the action and will not return a response. 206-3825 46 08. Poll/Front panel-IR Lock Out - This command is used to determine the status of the TV and set the front panel keys and infrared (IR) control. The command is issued to the TV and the TV will return the status of the unit as described below.

If the command is issued in the form of "A0" the front panel keys and IR control are active and remain that way until a subsequent "B0" command is issued. If the command is issued in the form of "B0" the front panel keys and IR control are disabled and remain that way until a subsequent "A0" command is issued. In either form of the command the TV responds with the status read back information. A checksum equal to the command is transmitted. - The two 8 bit data bytes are organized as follows: - Data byte 1 (the first data byte received) Bit Description 0-5 Volume level in hex, (00=minimum, 3F=maximum) 6 Signal status (1=Good, 0=Bad) 7 Power Status (1= On, 0=Off) - Data byte 2 (the second data byte received) Bit 0-7 Description Channel number, 00-FF hex Number Source Traditional RF Rear composite Video Input Rear S-Video Input Front RGB Video Input (Not used on current LCD design) Rear RGB Video Input Not used (Reserved for Scan Card Products) Rear Y, Pb, Pr Component Input Front S-Video Not Used (Reserved for internal Y, Pb, Pr Video Input) Not Used (Reserved for internal S-Video Input) A0A0 or B0B0 09. Status Read Back - This command allows the controller to obtain the status of the TV. The values reported are volume setting, current channel/input, and input signal strength status. The status read back command is initiated by issuing a standard poll command; Channel 1 to 125 131 132 133 134 135 136 137 138 139 B0 or A0 B0 or A0 : It is the start of the command and signifies that the TV should return the status of the unit to the controller. "B0" is used when the front panel is to be locked out or to remain locked out and "A0" is used when the status is to be returned and the front panel is to be unlocked or remain unlocked. No data bytes are sent.

Upon receipt of the poll command the TV will return the status in the form of the following command: ABWWXXYY AB : It is the start of the command and signifies a data return command. WW : It is the second data byte. YY : It is the checksum calculated by adding the previous bytes together and truncating. 206-3825 Example; To determine the status of a unit that was turned on and viewing channel 3, with a good signal, at a volume of 29 decimal the controller would issue the following command string: q B0B0 To which the TV would return the following string after disabling the front panel and IR control if they are currently active: q ABDD038B AB : It is the start of the command and signifies a data return command. DD : It is the data byte.

03 : It is the second data byte. @@@@ Careful and regular cleaning can extend the amount of time you will have with your new TV. Be sure to turn the power off and pull out the plug before you begin any cleaning. Screen Cleaning 1. Here's a great way to keep the dust off your screen for a while.

Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen. 2. Make sure not to put an excessive amount of water on the screen, let it air-dry before you turn on your TV. Cabinet Cleaning 1. Use a soft cloth with a mild soap solution to wipe the cabinet. 2. Rinse the cloth and wipe the cabinet again. 3. Let the cabinet air-dry before turning your TV on.

Extended Absence If you leave your TV unused for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges. If you use an antenna, you may also want to disconnect it from the back of your TV before leaving. 206-3825 49 MISC. Product Specifications Model Horizontal size (inches) Height (inches) Thickness (inches) Weight (pounds) Power requirements Television system Television channels L15V24S 15.2 14.4 7 11.8 AC 120V, 60Hz NTSC VHF : 2 ~ 13, UHF : 14 ~ 69 Cable : 1 ~ 125 LCD Panel 45 W 75 1W+1W 8X2 Power cord socket 1 RS-232C input port 1 S-VIDEO input 1 Headphone jack 1 Video/Audio input set 1 PC input jack 1 PC sound jack 1 Antenna input 1 Standard North America three wire earth-grounding with flexible cord SJT type or higher type. Tube Power consumption External antenna impedance Audio output Speaker outputs External input ports Power supply cord set CAUTION: If replacement becomes necessary, replace it with an exact duplicate. Contact any Zenith authorized service center. 206-3825 50 Troubleshooting Checklist SYMPTOMS No power No picture or sound Poor picture but good sound Poor reception Lines in picture Ghosts (multiple images) Remote control does not work.

Cannot tune desired channel. CHECK THESE THINGS Is power cord plugged in? Is television turned on? Check batteries in remote control. Try another channel (station trouble). Check antenna connections. Check for local interference.

Adjust the antenna. Adjust the picture control. Program channels using AUTO PROGRAM. 206-3825 51 MISC. ZENITH ELECTRONICS CORPORATION LIMITED WARRANTY Zenith will, at its option, repair or replace your product if it proves to be defective in material or workmanship under normal use during the warranty period listed below from the date of original consumer purchase.



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The repaired or replacement product will be in warranty for the remainder of the original warranty period. This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the United States, excluding US Territories. WARRANTY PERIOD LCD TV Model #: L15V24S Serial #: Parts Labor One (1) year One (1) year Zenith will repair or replace defective product as set forth below THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESSED WARRANTY PERIOD ABOVE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS, IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THE ABOVE WARRANTY DOES NOT APPLY TO: 1. Damages or problems that result from shipping, installation, maintenance, or separate system components; and 2. Damages or problems that result from misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, other causes not arising out of defect in material or workmanship, or institutional or commercial use. 3. Therefore, the cost of repair or replacement of such a defective product shall be borne by the customer.

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