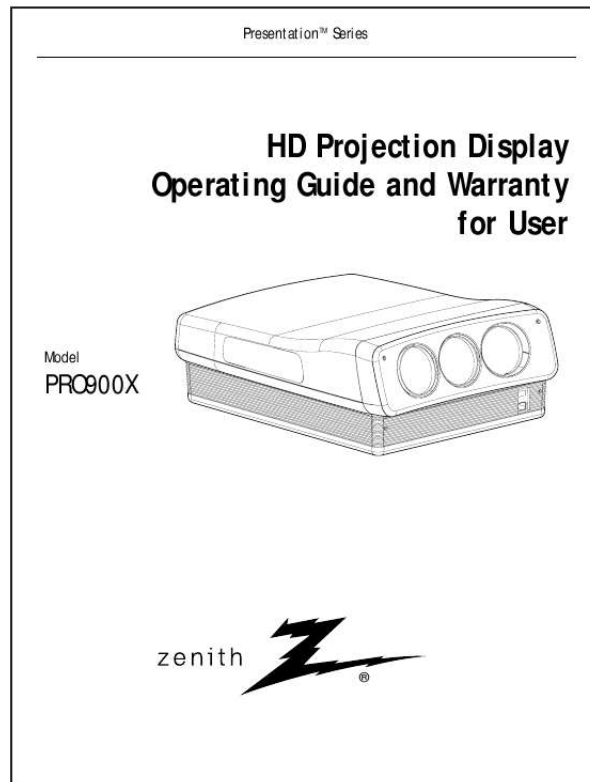




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH PRO900X. You'll find the answers to all your questions on the ZENITH PRO900X in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH PRO900X**  
**User guide ZENITH PRO900X**  
**Operating instructions ZENITH PRO900X**  
**Instructions for use ZENITH PRO900X**  
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**Manual abstract:**

**REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.** @@@@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.

**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. **PAGE 2 Presentation™** is a registered trademark of Zenith Electronics Corporation 3275-A **IMPORTANT SAFETY INSTRUCTIONS** Important safeguards for you and your new product Your product has been manufactured and tested with your safety in mind. However, improper use can result in 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 operating guide can help you get many years of enjoyment and safe operation that are built into your new product. This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association. 1.

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

**Retain Instructions** The safety and operating instructions should be retained for future reference. 4. **Heed Warnings** All warnings on the product and in the operating instructions should be adhered to. 5. **Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. 11. **Power Sources** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

**For products intended to operate from battery power, or other sources, refer to the operating instructions.** 6. **Water and Moisture** Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. 12. **Line-Cord Polarization** This product is equipped with a three-wire grounding type plug having a third (grounding) pin.

This plug will only fit into a grounding-type power outlet. 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 grounding-type plug. 7.

**Accessories** 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. 13. **Power-Cord Protection** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. 8. **Transporting Product** A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

(Continued on next page) 3275-A PAGE 3 **IMPORTANT SAFETY INSTRUCTIONS** (Continued from previous page) 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. 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. c. If the product has been exposed to rain or water. d. If the product does not operate normally by following the operating instructions.



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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. 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. 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. 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. 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. 17. Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

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. 3275-A PAGE 4 CONTENTS SAFETY WARNINGS . . .

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..... 21 Basi distorted. If these adjustments are not accurate, the operation of the display could be adversely affected. For this reason, installation and setup should be performed by a qualified service person and should conform to all local codes.

The installer must also adhere to the pertinent Articles of the National Electrical Code (NEC), pertinent Regulations of the Federal Communications Commission (FCC), and all relevant codes of local regulating agencies. INSTALLATION CONSIDERATIONS Before you install your HD Display...

Ventilation -- Proper ventilation keeps your HD Display running cool.

Air circulates through perforations on the sides of the cabinet. Do not block these vents or you will shorten the life of the display. Power Cord -- This product has a three-wire grounding-type plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature.

If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug. Power Source -- Your HD Display is designed to operate on normal household current, 120 volt 60 Hertz AC or 230 volt 50/60 Hertz AC. Do not attempt to operate it on DC current. Your display is configured at the factory for 120 volt, 60 Hz operation. A service adjustment is necessary to permit the unit to operate on 230 volt, 50/60 Hz. See Changing From 120 VAC To 230 VAC in the Placement and Configuration section in the Installation Guide for System Installer for details. Projection Surface -- We recommend a good quality screen having a matte white finish, that measures 100" or more diagonally.

Contact your local dealer for purchasing an appropriate screen. Note: Use of a projection screen designed for a single light source projection system may result in significant side-to-side color distortion.

NATIONAL POWER CORD REQUIREMENTS U.S., CANADA · The power cord must be UL listed and CSA certified. · The minimum specifications for the power cord are as follows: No. 18 AWG, Type SV or SJ, 3 conductor. · The power cord must have a rated current capacity of at least 10 amperes. · The attachment plug must be an earth-grounding type with a NEMA 515P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration. OTHER COUNTRIES · The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies include the following: BSI (United Kingdom) CEBC (Belgium) DEMKO (Denmark) EANSW (Australia) SETI (Finland) IMQ (Italy) Nemko (Norway) OVE (Austria) SEMKO (Sweden) SEV (Switzerland) UTE (France) VDE (Germany) Standard North America (120 VAC) North America (240 VAC) KEMA (The Netherlands) MITI (Japan) ·

The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of .03 square inches (1.0 square millimeter). · The cord set must have a current capacity of at least 10 amperes and a nominal voltage rating of 125 or 250 VAC, as required by the specific country's power system.



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**PAGE 6 HD INTRO B-5-99 STANDARD CONNECTIONS CONNECTIONS CENTER** You have a choice of these video source connections: Video In; S-Video In; and RGB with H/V Sync and V Sync. Use the **COMM** jack to connect a computer serial port. **CONNECTIONS OPTIONS** You can connect equipment such as a: laser disc player, VCR, computer, satellite receiver, or camcorder, (most equipment that provides a video output). **CONNECTIONS CENTER INPUT AND CONTROLS DESCRIPTION/FUNCTION** 1. Remote Control Window -- Receives the infrared signal sent by the remote. Note: Another remote control signal receiving window is located on the front of the HD Display. 2. Up/Down/Left/Right arrows -- Chooses on-screen menu options.

3. **ENTER** -- Use when an enter function is required. 4. **MENU** -- Accesses on-screen menus. 5. **POWER** -- Turns HD Display On and Off. 6. Power On Indicator -- Lights when power is On. 7. R,G,B, H/V SYNC, V SYNC -- Connect a video source that provides video signals in the form of Red, Green, Blue, Horizontal, Vertical Sync Outputs, to these input jacks.

8. Video In Jack -- Connect a video source with a composite video output to this jack. 9. Loop Out Jack -- Provides the same VIDEO IN signal to another component. Note: Set Loop Out/In switch to "Out" if you connect a video source to the Loop Out jack. 10. Loop Out/In Switch -- Should be in the "In" position unless a video source is connected to the Loop Out jack. Note: Failure to set switch to proper position could result in a video overload or a washed out video.

11. S-Video -- Connect a video source with an S-Video jack (Y- C Connector) to this input jack.

12. **COMM** -- Connect a computer or serial device to this jack. 3275-A **PAGE 7 STANDARD CONNECTIONS CONNECTING COMPUTER VIDEO SOURCES** Connect a video source such as a computer: PC, Laptop, or Notebook type. To hook up a laptop or computer, use a cable with a 15-pin D type connector on one end and BNC connectors on the other end. Note: Any special adapters, cables, or connectors shown are not provided with the HD Display. See your computer dealer for your special requirements. **CONNECTING VIDEO AND S-VIDEO SOURCES** Connect video sources with a tuner, (VCR) or other video sources such as a DVD player or satellite receiver. To hook up a VCR, DVD player, or other video source, use standard video connectors as needed. Connect the video source to the Video In jack on the HD display. If the video source has an S-Video connector, then connect to the S-Video jack on the HD Display.

**Notes:** For audio capability, connect your Video sources' Audio output to a separate audio amplifier like a stereo system; no audio capability is provided with the HD Display. Use cables and adapters with the connector types and jacks available on the video source. **PAGE 8 206-3275-A USERS QUICK REFERENCE GUIDE SETUP CHECKLIST** Turn on all system components including the video source you intend to watch; video source is the video equipment connected to the HD Display connection center. Turn on the HD Display. Select a video source from one of the video inputs provided on the connection center: Video In, S-Video In, or RGB input jacks. Set the HD Display internal clock. The internal clock must be set before the Timer Menu option will appear in the Setup Main Menu. Select English, Spanish, French, or German for onscreen menus. Use other options (fine-tune video image). **BASIC OPERATION: PROJECTING A PICTURE** (Remote operates HD Display in TV mode) Once the HD Display has been installed and set up, follow these simplified instructions for operation.

Be sure to install batteries in the remote. 6 tv po vcr we r **Projecting a Picture** 1. Press Mode repeatedly on remote to select TV mode. 2. Point remote toward HD Display screen, press **POWER** to turn HD Display on. (Be sure all video sources are also turned on.) 3. Press Trackball down to place cursor on the HD Display screen. 4. Rotate trackball toward top of screen until Source menu appears, select the video source you want to project.

5. Make any necessary on-screen adjustments using the Setup and Video Menus. 6. When finished using the HD Display, select TV mode, press **POWER** to turn the HD Display off. **Audio Amplifier Note:** Reference is made to an audio amplifier.

The user-supplied audio amplifier may be a stereo system. In that case, connect Right and Left Audio Out from the video source you are using to Right and Left Audio In on the audio amplifier. cable aux 1 aux 2 2 1/6 3/4 mu v ol mode te surf flsh bk el e 1 4 7 source 2 5 8 0 pip enter menu record quit/ pause play rew stop ffw d ha c 6 9 nn um 3 206-3275-A **PAGE 9 USERS QUICK REFERENCE GUIDE USING A COMPUTER AS A VIDEO SOURCE** Use the Trackball Remote to Access Menus and Make Changes Once the HD Display has been installed and set up, follow these simplified instructions for operation. Be sure to install batteries in the remote. See "Trackball Remote" section for further instructions regarding remote operation.

**Computer Setup Instructions Connections Computer to HD Display** Computer Comm Port output jack to HD Display **COMM** port. Menus Source Menu Select RGB as Video image source. Setup Menu Select Aspect Ratio 4 x 3. Select Static Setup and adjust if necessary. Video Menu Make RGB Source adjustments if necessary. Format If the new video source has not been connected before, it may be in a format not recognized by the HD Display. If the new format is not recognized, save it and give it a name. Source Menu with RGB selected as Input Source Adjustments Make any additional image adjustments as required for this unique setup. See the "Installation and Setup Guide for System Installer" for set up instructions. **PAGE 10 206-3275-A USERS QUICK REFERENCE GUIDE COMMUNICATIONS PORT INTER-CONNECTION WIRING REFERENCE** 206-3275-A **PAGE 11 USERS QUICK REFERENCE GUIDE USING A VCR, OR OTHER VIDEO SOURCE** Use the Trackball Remote to Access Menus and Make Changes Once the HD Display has been installed and set up, follow these simplified instructions for operation.

Be sure to install batteries in the remote. See "Trackball Remote" section for further instructions regarding remote operation. Note: If Video In is used without a connection to loop out, "Loop Out Switch" must be put to the "In Only" position. VCR or other Video Source Setup Instructions Connections VCR to Video In on HD Display VCR Audio Out to Audio In of User Supplied Stereo System or Audio Amplifier. Menus Source Menu Select Video as Video image source. Setup Menu Select Aspect Ratio and select proper ratio. Select Static Setup and adjust if necessary. Video Menu Make RGB Source adjustments if necessary. Format If the new video source has not been connected before, it may be in a format not recognized by the HD Display. If the new format is not recognized, save it and give it a name.

Adjustments Make any additional image adjustments as required for this unique setup.



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See the "Installation and Setup Guide for System Installer" for set up instructions. Source Menu with Video selected as Input Source PAGE 12 206-3275-A USERS QUICK REFERENCE GUIDE USING AN S-VIDEO VCR OR OTHER S-VIDEO SOURCE Use the Trackball Remote to Access Menus and Make Changes Once the HD Display has been installed and set up, follow these simplified instructions for operation. Be sure to install batteries in the remote. See "Trackball Remote" section for further instructions regarding remote operation.

S-Video VCR or other S-Video Source Setup Instructions Connections S-Video Out to S-Video In on HD Display VCR Audio Out to Audio In of User Supplied Stereo System or Audio Amplifier. Menus Source Menu Select S-Video as Video image source. Setup Menu Select Aspect Ratio and select proper ratio. Select Static Setup and adjust if necessary. Video Menu Make S-Video Source adjustments if necessary.

Format If the new S-Video source has not been connected before, it may be in a format not recognized by the HD Display. If the new format is not recognized, save it and give it a name. Adjustments Make any additional image adjustments as required for this unique setup. See the "Installation and Setup Guide for System Installer" for set up instructions. Source Menu with S-Video selected as Input Source 206-3275-A PAGE 13 TRK4000PT TRACKBALL REMOTE CONTROL INTRODUCTION This multi-brand remote operates the common features of most, but not all, models and brands of infrared controlled products. If some functions of your particular product cannot be controlled by this remote, use the original remote. BATTERY INSTALLATION Batteries are provided, but must be installed before using the remote control. When the remote no longer functions normally, or if it loses memory, replace the batteries with three highquality, alkaline, size AAA batteries. Match positive with positive (+ with +), and negative with negative (- with -) as shown inside the battery compartment. Notes: · Do not place heavy objects on top of the remote keys; prolonged unintentional remote operation shortens battery life.

· Remove the batteries if the remote will not be used for a month or more. Battery leakage can permanently damage the remote, for which Zenith is not responsible. back of remote PROGRAMMING YOUR REMOTE TO OPERATE OTHER IR (Infra-red) DEVICES 1. Select the device you want to operate, then refer to pages 16/17 to find the programming brand code appropriate for the type and brand of equipment. Make sure the device is turned on. 2. Point the MBR Trakball remote control at the device you're programming, and press MUTE and FLSHBK at the same time. Hold until one of the mode indicator LEDs lights. 3. Use the MODE Right/Left key and select the mode you want the device controlled in.

v ol po tv we r vcr cable aux 1 aux 2 5 3 mode 2 mu te surf flsh bk el 4. With the NUMBER Keypad, enter the three-digit code you found in Step 1, press ENTER. If the code is accepted, the mode indicator LED will blink three times. If it is not accepted, the LED will not blink. 5.

Press POWER to turn the device off. If nothing happens, repeat the process from Step 1, and try the next brand code number. Notes: · The TV and VCR modes will only accept codes for those types of products. The AUX 1, AUX 2, and Cable modes will accept codes for any kind of IR controlled product. · To get out of Programming before you enter a code, just press QUIT on your remote.

e 1 2 5 8 0 pip 4 4 7 source ha c 6 9 enter nn um 3 4 menu record quit/ pause play rew stop ffwd PAGE 14 206-3275-A TRK4000PT TRACKBALL REMOTE CONTROL BASIC OPERATIONS (Press TV, the HD Display operates in "TV" Mode.) Point remote at HD Display screen and press POWER. Press down on trackball to activate the on-screen cursor. Rotating the trackball moves the cursor around the screen to access on-screen menus. Click on highlighted menu or option. (See pages 21/22 for On-Screen Menus/Displays information.) po INDICATOR LIGHTS Illuminate to show which mode your remote is in. tv we r aux 2 POWER Turn your PRO900X or any other programmed equipment on or off, depending on mode. vcr cable aux 1 MODE LEFT/RIGHT Adjust which mode your remote is working in. mode TRAKBALL \*MUTE Press once for Soft Mute, again for Full Mute, and a third time to return to normal volume.

Press and move the on-screen pointer. mu v ol \*SURF Use the regular channel selection or your customized channel Surf lists. te surf flsh bk el \*FLSHBK Return immediately to the last channel viewed. \*VOLUME UP/DOWN Increases/decreases the sound level. e ha c nn 1 4 SOURCE Push to switch between available sources connected to your Entertainment Machine. source um \*CHANNEL UP/DOWN Scroll through your available channels. 2 5 8 0 pip 3

\*NUMBER KEYPAD 6 9 enter For direct channel selection and programming functions. 7 ENTER Press to accept menu choices or after channel numbers for faster transfer. MENU Displays on-screen menus. menu record quit/ pause \*PIP SNAPSHOT Press to capture and freeze main picture within large PIP frame.

Press a second time and receive PIP from another channel or source. Press a third time to remove PIP. \*RECORD, PAUSE Control the functions on your VCR. ARROW KEYS Allows you to move through on-screen menu choices. play QUIT rew stop ffwd \*REW, FFWD, PLAY, STOP Control the functions on your VCR.

Exits programming menus, clears screen of displays, and provides audio swap on some TVs. \*Note: This remote control is designed Remote Control Model Number(s) for use with a standard, analog televiMBR sion set. Not all remote features apply 124-236, orTRAKBALL: TRK4000PT 124-236-03, or 124-219-05 to PRO900X operation. 206-3275-A PAGE 15 TRK4000PT TRACKBALL REMOTE CONTROL Find the brand device codes you need to program your

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104 Amark . . . . .  
103 146 AOC . . . . .  
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 . . . 206 247 *Broksonic* . . . . . 221 226 233 250 255 *Canon* .  
     . . . . . 214 *Citizen* . .  
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     . 209 *Craig* . . .  
     . . . . . 212 *Criterion* . . . .  
     . . . 239 *Curtis Mathes* . . . . 214 *Curtis Mathes* . . .  
     . 259 *Daewoo* . . . .  
     . . . . 244 246 248 254 *Daytron* .  
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     . . . 211 212 213 247 *Funai* . . . . .  
     . . . 231 *GE* . . . . .  
     . . . 214 216 220 *Go Video* . . .  
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 256 262 263 275 *Goldstar* . . . . . 209 273 *Hitachi* . . .  
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     . . 273 *JC Penney* . . . .  
     . . . 214 215 218 227 *JVC* . . . . .  
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     . . 239 *NEC* . . . . .  
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 231 Tashiko ..... 209 Tatung ..  
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 .... 209 234 Toshiba .....  
 .. 205 215 271 Vector Research .. 204 218 XR-1000 .  
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 . 239 Yamaha ..... 202 218 Zenith.  
  
 ..... 201 224 225 229 273 Zenith Beta . .  
 ... 237 PAGE 16 206-3275-A TRK4000PT TRACKBALL REMOTE CONTROL Find the brand device codes you need to program your remote  
 CABLE/SATELLITE/SET-TOPS Allegro ..  
 .....  
 . 358 362 Allegro A-B Switch 361 Americast ..... 383 DISH Network Satellite GE ...  
  
 ..... 367 Gemini ..  
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 . 305 331 338 General Instrument 304 305 306 307 308 309 310 318 Hamlin ....  
 .... 302 303 345 365 366 Hitachi DSS ..... 392 393 Hughes DSS .  
  
 .... 392 Jerrold .....  
 .. 304 307 308 309 310 318 360 363 382 389 JVC Satellite. . .  
 .. 389 Kale Vision. . .  
 ... 335 Macom .....  
  
 . 321 Macom Satellite . . 314 Magnavox ..... 334 Magnavox DSS .  
 .. 390 NSC ...  
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 .. 335 339 368 369 370 Oak .....  
  
 .. 311 332 342 Panasonic ..... 313 320 Panasonic DSS ..  
 . 386 Paragon (Zenith) .. 333 Philips ..  
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 . 347 350 352 354 355 Pioneer ..... 315 343 Primestar Satellite 388 RCA DSS .  
  
 ..... 373 394 Radio Shack .....  
 . 362 Regal .....  
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 366 Regency ..... 329 Samsung ...  
  
 .... 335 Scientific Atlanta 316 323 336 364 Unika .....  
 ... 348 362 United Satellite ..  
 344 Universal .....  
 .. 358 362 Vid Tech ..... 340 Video Way .  
  
 ..... 349 Viewstar .....  
 .. 354 355 369 372 Zenith. . .  
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 . 301 Zenith HT-2000. . . 353 Zenith PM .....  
  
 374 Zenith Drake Satellite Zenith HD Set-Top 385 Zenith N/C Set-Top. 384 395 Zenith Satellite . . . 328 351 378 312 330 Sony DSS .....  
 . 387 Sprucer .....  
 .... 313 Standard Comp .  
 .. 335 Stargate ..... 379 Texscan .  
  
 ..... 339 356 371 Tocom. . .  
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 . 317 318 346 Toshiba DSS .....  
 . 391 LASER DISC PLAYERS Denon .....

402 403 Mitsubishi . . . . . 403 Panasonic . . . .  
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 402 403 Sanyo . . . . . 401 Sony.  
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 457 Kenwood . . . . .  
 . . 450 Onkyo . . . . .  
 . . . . . 458 Philips DCC . . . . .  
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 . 497 507 509 Yamaha . . . . .  
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. . . 460 461 498 501 502 504 505 206-3275-A PAGE 17 TRK4000PT TRACKBALL REMOTE CONTROL Remote key functions in other operating modes TV  
 Mode KEY NAME MODE LEFT/RIGHT POWER SURF FLSHBK MUTE CHANNEL UP CHANNEL DOWN VOLUME (RIGHT) VOLUME (LEFT)  
 TRAKBALL (PUSH) TRAKBALL (MOVE) 1 2 3 4 5 6 7 8 9 0 PIP (Snapshot) ENTER MENU UP ARROW DOWN ARROW LEFT ARROW RIGHT ARROW  
 QUIT SOURCE RECORD PAUSE REWIND PLAY STOP FFWD Zenith Code 101 Changes mode TV Power On/Off Surf On/Off TV Flashback, AM/PM TV  
 Mute TV Channel Up TV Channel Down TV Volume Up TV Volume Down Trackball Push Trackball Move TV Digit 1 TV Digit 2 TV Digit 3 TV Digit 4 TV  
 Digit 5 TV Digit 6 TV Digit 7 TV Digit 8 TV Digit 9 TV Digit 0 PIP Freeze/On/Off TV Enter TV Menu TV Select Up TV Select Down TV Adjust Left TV Adjust  
 Right TV Quit/Front Surround TV Sources VCR Record VCR Pause VCR Rewind VCR Play VCR Stop VCR Fast Forward VCR Mode Zenith Code 201  
 Changes Mode VCR Power On/Off VCR AM/PM VCR Flashback TV Mute VCR Channel Up VCR Channel Down TV Volume Up TV Volume Down Trackball  
 Push Trackball Move VCR Digit 1 VCR Digit 2 VCR Digit 3 VCR Digit 4 VCR Digit 5 VCR Digit 6 VCR Digit 7 VCR Digit 8 VCR Digit 9 VCR Digit 0 VCR  
 VCR Plus+ VCR Enter VCR Menu VCR Select Up VCR Select Down VCR Adjust Left VCR Adjust Right VCR Quit TV Tuner or VCR Tuner VCR Record VCR  
 Pause VCR Rewind VCR Play VCR Stop VCR Fast Forward Cable Box Mode Zenith Code 353 Changes Mode Cable Box Power On/Off Cable FC/Fav Ch  
 Cable Flashback TV Mute Cable Channel Up Cable Channel Down TV Volume Up TV Volume Down Trackball Push Trackball Move Cable Digit 1 Cable  
 Digit 2 Cable Digit 3 Cable Digit 4 Cable Digit 5 Cable Digit 6 Cable Digit 7 Cable Digit 8 Cable Digit 9 Cable Digit 0 Cable Guide Cable Enter Cable  
 Menu Cable Up Arrow Cable Down Arrow Cable Left Arrow Cable Right Arrow Cable Quit Cable Info Cable Buy Cable Guide VCR Rewind VCR Play VCR  
 Stop VCR Fast Forward AUX 1 Mode Zenith Code 521 (DVD Player) Changes Mode Aux Power On/Off AUX Audio AUX Frame/Time TV Mute AUX Skip  
 >> AUX Skip << TV Volume Up TV Volume Down Trackball Push Trackball Move AUX Digit 1 AUX Digit 2 AUX Digit 3 AUX Digit 4 AUX Digit 5 AUX  
 Digit 6 AUX Digit 7 AUX Digit 8 AUX Digit 9 AUX Digit 0 AUX Display AUX Enter AUX Menu AUX Up Arrow AUX Down Arrow AUX Left Arrow AUX  
 Right Arrow AUX Clear AUX Setup AUX Edit AUX Pause AUX Rewind AUX Play AUX Stop AUX Fjwd AUX 2 Mode Zenith Code 384 (N/C Set-Top)  
 Changes Mode N/C Power On/Off N/C TV/Net N/C Flashback N/C Mute N/C Channel Up N/C Channels Down N/C Volume Up N/C Volume Down Activate  
 N/C Trackball N/C Trackball Move N/C Digit 1 N/C Digit 2 N/C Digit 3 N/C Digit 4 N/C Digit 5 N/C Digit 6 N/C Digit 7 N/C Digit 8 N/C Digit 9 N/C Digit 0  
 N/C Info N/C Enter N/C Menu Bar N/C Page Up N/C Page Down N/C Back N/C Forward N/C TV Bar N/C Clear N/C Guide N/C Mail N/C History N/C Home  
 N/C Help N/C Search References: 124-219 and up 221-1282 PAGE 18 206-3275-A TRK4000PT TRACKBALL REMOTE CONTROL Control the volume on  
 your sound amplifier while in other modes AMPLIFIER VOLUME OVERRIDE 1.



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Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in "Programming Your Remote" on page 14. 2. Press and hold MUTE and FLSHBK on your remote until the indicator light stays lit. 3. Press MODE Left/Right until the indicator light is under the mode that you want Amplifier Volume to appear, for example, TV.

v ol po tv we r aux 2 vcr cable aux 1 3 mode 2 mu te surflsh bk el 4. Enter the special code: 4-9-9, then quickly press ENTER. (The indicator should blink and then turn off.) e CABLE VOLUME OVERRIDE 1. Find the code that operates your cable box.

Test it to make sure it's the correct one by following the procedure on "Programming Your Remote" on page 14. 2. Press and hold MUTE and FLSHBK on your remote until the indicator light stays lit. 3. Press MODE Left/Right until the indicator light is under the same mode that you chose in step one.

1 2 5 8 0 pip 4 4 7 source enter menu record quit/ pause play 4. Enter the special code: 3-9-9, then quickly press ENTER. (The indicator light should blink and then turn off.) The VOLUME and MUTE keys now control the cable box. Notes: · Your volume and mute keys now control your amplifier. To change everything back to factory settings, reprogram all keys with their original codes. See "Programming Your Remote," on page 14. · If you can't find the code for your amplifier, use the Auto Find feature. rew stop ffw d ha c 6 9 nn um 3 206-3275-A PAGE 19 TRK4000PT TRACKBALL REMOTE CONTROL AutoFind: Automatically searches all possible brand programming codes 1. Turn on the device you want to operate.

2. Press and hold the MUTE and FLSHBK keys until the indicator light turns on. 3. @.@4. @@Aim the remote at the correct device and press POWER. Allow a second to pass, then press POWER again. Repeat until the device turns off. 6. Press ENTER to save the code. The indicator light will blink three times and then turn off.

7. @.@.@.@.@To do this: 1. Use a solution of mild dishwashing detergent and water. 2. @.@3.

@.@4. Allow the remote to air-dry before using it again. @.@.@Setup Menu - sets up the HD Display features. Video Menu - modifies video options for personal preference viewing. Trackball Menu - accesses, checks, or changes current settings.

@.@Press trackball down; cursor should appear on screen. @@Move cursor to desired Main Menu and press trackball down. @.@.@.@.@.@.@In this case, time set on HD Display clock. @.@.@.@Pressing down on EXIT will remove menu from the screen. @@Press down on trackball to place cursor on HD Display screen. @.@.@Press down on the trackball to change currently selected option. Status, identifies the format used with the currently selected source (Video, S-Video, RGB). Copy, transfers setup information to another format. Sleep Timer, changes Sleep Timer status to 0:15, 0:30, 1:00, 1:30, 2:00, 2:30, 3:00, 3:30, 4:00, or Off. Note: Sleep Timer turns HD Display Off after a preset time.

Z-Trak, changes trackball cursor speed to slow, medium, or fast. Store, saves format used with current source. This option appears only if the format was not previously stored. Data Rectangle Source/Time Display To access the Source/Time Display, press TV. Press down on trackball. Rotate trackball to move cursor to right of HD Display screen to show Source/Time Display. Source/Time Display Current Source Signal Standard Time (if clock is set) PAGE 22 3275-A SOURCE MENU AVAILABLE MENU OPTIONS Use to select video source. There are three menu options available: Video, S-Video, and RGB. Video Displays image from composite video equipment connected to the Video input jack. S-Video Displays image from S-Video equipment connected to the S-Video input jack.

RGB Displays image from equipment connected to the R, G, B, H/V Sync and V Sync input jacks. Notes: · The HD Display does not provide any sound (Audio) for equipment connected to it. Connect equipment like a VCR or DVD Player to a separate audio output source. · "Switcher" units are also commercially available that can be used to connect additional video sources to the HD Display. CHANGING INPUT SOURCE Press TV.

Point remote at HD Display screen. Press trackball down. When the cursor appears on-screen, move it to the desired source rectangle: Video, S-Video, or RGB. Press trackball down. When the lower message rectangle changes to "Press to Switch Input," press trackball down again.

The HD Display will then switch to the newly selected video source, whose image will appear on the HD Display screen. RGB Source Selected S-Video Source Selected INPUT SOURCES The above descriptions for input sources refer to the equipment connected to these input jacks on the HD Display connection panel. S-Video Y-C Source Connector Composite Video Source Connector RGB Source Connector 3275-A PAGE 23 SETUP MENU Use the Setup Menu to fine-tune the HD Display to your personal preferences and video sources' particular requirements Setup Menu with Timer Setup Selected Submenu for Timer Setup Option SETUP MENU OPTIONS Note: See the following pages for more detailed descriptions of the options listed below. Clock Set Sets the HD Display internal clock. Timer Setup Sets up the timer for the HD Display to turn On and Off at preset times. Note: Timer Setup only appears if the clock has been set. Language Chooses English, Spanish, French, or German for on-screen menus. Video Mode Selects signal broadcast standard when a Video or S-Video source is selected. Aspect Ratio (Picture Proportion) Changes shape into which image is projected. Format Pref (Preference) Switches between factory setups and customer setups for certain input formats.

Label Format Identifies Source's Format. Blank Setup Adjusts blanking on Left/Right/Top/Bottom and Horizontal and Vertical Center of video image. Static Setup Adjusts red and blue over green color convergence alignment in the center of video image. PAGE 24 3275-A SETUP MENU Clock Set To set the clock, move the cursor to Clock Set and press down on the trackball to highlight the option. With the cursor placed over the right arrow of Clock Set, press and hold the trackball down to move time ahead. With the cursor placed over the left arrow, press and hold the trackball down to move time backward. Preferred Method to Set Clock With Clock Set highlighted, move the cursor to the option status display rectangle and place the cursor over the hours and minutes or AM and PM and change them directly. The option changes you make will be displayed in the lower portion of the menu in the option status display. Timer Setup (Timer Menu only appears if clock is set) Set On/Off Time The On/Off Timer can be programmed with up to 4 turnon times and up to 4 turn-off times. As you can see to the right, the HD Display is set to turn On at the beginning of the work day.



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When the staff goes to lunch, it turns Off until they return. The HD Display remains On until 5:00 pm. After dinner, the HD Display turns On and remains On until 10:00 pm. The On/Off Timer could be disabled Friday afternoon for the weekend and enabled Monday morning, ready for the work week.

Enable/Disable On/Off Timer Retains but temporarily disables On/Off Timer settings.

For example, you may want to enable the On/Off Timer Monday - Friday, but disable the On/Off Timer Saturday and Sunday. When you return on Monday you would then enable the On/Off Timer. Adjustments Move the cursor to the desired option (On Time 1, On Time 2, Off Time 3, On/Off Timer, etc.) and press down on the trackball to highlight the option. Move the cursor to the left or right arrow of the highlighted option, press or press and hold down the trackball to change time.

For example, with the cursor placed over the right arrow of the On Time 1 option, press and hold the trackball down to move time ahead. With the cursor placed over the left arrow, press and hold the trackball down, to move time backward. Note: You can also move the cursor to the option status display rectangle and place the cursor over the hours and minutes or AM and PM and change them directly. 3275-A 9:00 am PAGE 25 SETUP MENU Language Chooses English, Spanish, French, or German for the HD Display on-screen menus. Once you select a new language, the on-screen menus will appear in that language. Note: The word Language always appears in English. Video Mode Selects broadcast signal standard. You can change the signal standard manually or have it selected automatically. The following are signal standards for the U.S.

A. and other countries. Manual Modes M-NTSC, M-PAL, N-PAL, BG-PAL, NTSC 4.43 Automatic Modes Americas' standards -- Auto: M-PAL/N-PAL/NTSC Europe's standards -- Auto: BG-PAL/NTSC Broadcast Standards/Geographical Area M-NTSC -- U.S.A., Canada, and Mexico M-PAL -- South America N-PAL -- South America BG-PAL -- Europe, China NTSC 4.43-- Europe Note: If you select one of the Automatic modes for your country, the HD Display selects the broadcast standard from among those shown. Aspect Ratio (Picture Proportion) Use to change the shape into which the source's image is projected. If the projected image from a particular source appears distorted, then you have the option to select a different aspect ratio for that source.

One or more of the video sources may have a different aspect ratio than other video sources. In this case, change the Aspect Ratio to the appropriate configuration for the video source's image. Preset Image Aspect Modes 4 x 3 -- Standard TV/VCR picture proportion. Letterbox -- 4 x 3 picture proportion with the top and bottom screen blanked out to form a 16 x 9 image. This mode can be used with certain laser discs in this signal format. 16 x 9 -- 16 x 9 picture dimension is used by digital video disc players and certain other wide screen formats. Compressed -- 16 x 9 picture dimension with a 4 x 3 video image in the center of the screen. Left and Right sides are filled with gray level video referred to as Side Panels. Useful when watching normal VCR output on a 16 x 9 screen. (Available with Video and S-Video only.)

) Compressed Image Adjustable Side Panels Black to White Adjustment From the Setup Menu, move the cursor to the Aspect Ratio Option. Select Compressed as the Aspect Ratio. In the Video Menu, select the Side Panel darkness you prefer, from the blackest black, (0) to the whitest white, (100). Select your preference by placing the cursor anywhere on either: the Side Panels rectangle, the arrow to the right of the Side Panel rectangle, or the option status display at the bottom of the menu. PAGE 26 Note: The Side Panels option appears on the Video Menu only if Compressed is selected as the Aspect Ratio on the Setup Menu. 3275-A SETUP MENU Format Pref (Preference) Switches between factory setups and customer-defined setups for those formats pre-aligned at the factory. Available Format Preferences Preset 10 Formats Preset factory-aligned settings formats. (Not adjustable.) Custom 10 Formats Customer-aligned settings of standard Preset factory-aligned formats. Customer 5 Formats Customer defined formats and customer aligned setup settings.

Note: Use Status on-screen display to identify current format. See "On-Screen Menus and Displays section." New Formats, Not Recognized by the HD Display

When you hook up a new video source whose unique signal "format" is not recognized by the HD Display (the new video source may have video characteristics that are not "preset" as one of the 10 formats by the factory), the HD Display will ask if you would like to save those settings as a new format. You can use one of the 5 Customer format slots available, which are not preset at the factory. Typical Format Titles: VGA300, VGA350, VGA480. After you store the new format (when the new video source becomes the source of the image on the HD Display screen), the HD Display remembers and defaults to that setting when you choose that new video source as the image source. New Formats, Recognized by the HD Display The newly connected video source's format will probably be recognized as one of the 10 HD Display "Preset" factory aligned settings. If you wish to change any of those settings, like Contrast or Tint, the factory "Preset" aligned settings format becomes a "Custom" format (with user defined settings). The HD Display defaults to the "Custom" Format Pref (Preference) when you choose the new video source as the image source. Source Video In Format DVD -- A DVD player is connected to the Video Input jack and the format used is named DVD.

VCR I -- An S-Video VCR is connected to the S-Video input jack and the format used is named VCR I. MAC II -- A computer is connected to the RGB input jacks and the format used is named MAC II. Label Format Identifies the format used on video image source. Personalize the video source format by assigning a name to identify the format used on each video input source. Example of format labels: DVD, VCR I, MAC II.

S-Video RGB Blank Setup This setup should be preset by system installer. Occasionally if you connect a new video source to the HD Display, the video Blanking and the V and H Phase may require adjustment. Blanking Top/Left Covers up undesirable images such as these: Blanking -- "covers up" undesirable images at the extreme edges of the picture. Phase -- moves the scene or picture (Up/Left/Down/Right) within the projected image area. Phase Centers Image. Blanking Bottom/Right Covers up undesirable images around edges such as these: 3275-A Projected Image Area Note: Picture shown is not centered, it is too far down and to the right. Continued on next page PAGE 27 SETUP MENU Blank Setup (Continued) Separate menus are available for adjusting the Top/Left and Bottom/Right of the projected image as well as the Phase.



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To adjust any option, simply place cursor over option and press down on the trackball, to highlight the option. (Blank Setup is normally adjusted by the installation technician; usually no additional changes are needed.) Notes: · If you make changes to any option, you will be asked to save them to the currently selected format. If the format is unknown, store it as a new customer format. · Access the Trackball menu and press down on the trackball with the cursor on the Status bar to reveal the format of the currently selected video source (Video, S-Video or RGB). See page 22. Static Setup (Red, Blue, Green Convergence) Occasionally the red, blue, and green images go out of convergence. In the Static Setup Menu you will see a menu similar to the one shown at the right.

Ideally, the convergence is correct when the bars in the center of the menu are white. Adjusting Convergence Move the cursor to the appropriate Up/Down/Left/Right icon and press down on the trackball repeatedly to move the selected color to the center of the bars. With the cursor on either the Adjusting Red or Adjusting Blue rectangle, press the trackball down to switch to the other color alignment menu. Move the newly selected color using the Up/Down/Left/Right icons (as you did the first color) to align the color to the center of the bars. The green does not move; you are moving the red and blue over the green. When the bars are white, the convergence realignment is complete. Move the cursor to the "Exit" icon and press down on the trackball to leave the menu. Save the changes. PAGE 28 3275-A VIDEO MENU ADJUSTMENTS Fine-tunes settings for each video source. You can make changes to each option by moving the cursor to the desired option (Contrast, Brightness, Color, etc.) and pressing down on the trackball. Once the option is highlighted, you can make changes directly on the Option Status Display bar at the bottom of the menu or by moving the cursor to the left or right arrow of the highlighted option and pressing or pressing and holding down the trackball to change the option settings. For example, with the cursor placed over the right arrow of the Contrast option, press and hold the trackball down to increase the contrast. With the cursor placed over the left arrow, press and hold the trackball down to decrease the contrast. Some options have only a right arrow for either an On or Off choice or a fixed range of choices; see descriptions below.

The option changes will be reflected in the lower portion of the menu in the Option Status Display rectangle. Note: You may set your Video Menu options independently for each video source format. VIDEO MENU OPTIONS Adjustment Contrast Brightness Color\* Tint\* Sharpness\* Color Temp Red Level Green Level Blue Level Video Filter\* Auto Flesh\* Picture Pref. (Preference) Gamma Corr. Adjustment Options or Range and Effect (0-100) Adjusts the overall light to dark characteristics of the picture. (0-100) Adjusts the brilliance of the picture from very dim to very bright. (0-100) Adjusts the intensity of the colors in the picture. (0-100) Adjusts the flesh tones to more green or red. (0-100) Adjusts the clarity of the edges around objects for the clearest picture quality. (Custom- Red Level, Green Level, Blue Level/3200K/6500K/9300K) Changes the color "temperature" or picture white balance between cooler natural whites and warmer red colors. There are three preset color temperatures and one custom setting. When the custom setting is selected, three options to set the relative red level, green level, and blue level appear. These settings define your customized color temperature. (Off/Low/Medium/High) Reduces video noise or interference in the dark picture areas resulting in a clearer overall picture. (Enabled/Disabled) Maintains natural skin tones in changing scenes and video source conditions.

(Custom/Preset/Theater) Lets you use your own Custom video settings, the factory preset video settings or the factory preset theater video settings. The theater settings are preset to provide optimum visual performance in low-light "theater-like" conditions. (Off/Low/Medium/High) The Gamma Correction option limits the intensity of the peak whites. Use as the starting point for Gain change. Limit how high the peak whites will get to prevent defocusing and loss of shape or definition. \*These options will not be available when RGB is the selected picture source. Note: Any changes to the above when Picture Pref. is in the Preset or Theater modes will automatically make the current settings your new custom settings. 3275-A PAGE 29 VIDEO MENU RGB Source Special Adjustments (Normally adjusted by the installation technician; usually no additional changes are needed.) For the RGB Source only, the Clamp Pulse is set at Auto Select by the factory.

Auto Select determines the pulse of the RGB input video source and automatically chooses the appropriate setting. Adjustment to the Clamp Pulse may be necessary under certain conditions: When an erroneous background color is being produced by extremely wide horizontal signal pulses, When the image is accompanied by "banding," When the image is "splotchy," When the image is too green, or when the image is too dark. The Clamp Pulse is initially set to Auto Select. You can choose to set it at Back Porch or at Sync Tip. If you change the equipment connected to the input jack of the RGB video source, adjust the Clamp Pulse for the new RGB video source.

Set at Auto Select, Back Porch, or Sync Tip, whichever produces the best image and minimizes signal degradation. Adjustment Clamp Pulse, Sync Inputs Sync Mode Adjustment Options or Range and Effect Sets the position of the clamping signal for the video. The options are to clamp on the Back Porch or the Sync Tip, or to Auto Select between the two based on the format input. Determines if a 75 ohm termination should be made to the H Sync and V Sync inputs. The options are either Terminated or Not Terminated.

Selects a special type of studio composite sync when such a signal source is used on the H Sync input. The default setting is for Normal Analog/TTL. Switch to Special Composite when using the studio sync source. PAGE 30 3275-A MAINTENANCE AND TROUBLESHOOTING CARING FOR YOUR HD PROJECTION DISPLAY Your HD Projection Display will look better, have a longer life and perform better if you care for it properly. First check to see that the HD Display is off. For added safety, disconnect AC power to the HD Display. Note: If you unplug your HD Display, you will have to reset the clock to the current time. CABINET CARE Non-Wood Cabinet or Cabinet Components. Moisten a soft cloth with a mild soap solution. Wipe the surface with a damp cloth.

Then rinse the cloth in clean water and wipe the surface again. Allow the HD Display to air-dry before turning it on. LENS CLEANING When the lenses of your HD Projection Display need cleaning, be sure to follow these directions so you do not damage or scratch the optical coating on the lenses: · Do NOT spray any type of fluid directly on the lenses' surface.



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· Use a soft cotton cloth (cotton diapers laundered several times to remove sizing) or a soft facial tissue. · Do NOT use any type of aerosol cleaner. · Do NOT use dry material, such as paper, tissue or a dry cloth to clean the lenses. PICTURE INTERFERENCE Your picture may be affected by interference caused by one or a number of factors, including: Speckled or Streaked Picture - Can be caused by nearby automobile ignition, electrical appliances, etc. This is most noticeable when there are loose connections to the unit. Snow in Picture - Caused by insufficient signal - possibly when the video cable is too long or broken, or has an intermittent ground return. Moisten the soft cloth or tissue with warm water and gently wipe the surface of the lens.

Note: The lenses are easily damaged. Avoid accidental contact with them. EXTENDED ABSENCE Before an extended absence (such as a vacation) you may want to disconnect AC power to your HD Display. This will protect the HD Projection Display from possible damage from lightning or power line surges. For added safety, you may want to disconnect all video equipment currently connected to the HD Display.

Note: If you unplug your HD Display, you will have to reset the clock to the current time. 3275-A PAGE 31 MAINTENANCE AND TROUBLESHOOTING BEFORE CALLING FOR SERVICE Use the following chart to identify operating problems. You may save a service call charge if the problem can be identified as a simple switch set improperly. Note: Problems not listed here may be installation related, see Installation Guide. Refer problem to Installer/Maintenance personnel.

**PROBLEM IDENTIFICATION CHART** Problem No image on screen. Cursor does not appear on screen. Colors misaligned. Image appears in black and white. VCR cannot be controlled. Sleep Timer does not function. HD Display turns off. HD Display does not turn Off at preset time. Possible Cause Source turned off? No signal? Weak signal? Cables loose or broken? Using wrong remote control? Use only Trackball remote. Remote in wrong mode? Batteries weak? Wrong battery polarity? Remote not pointed at HD Display screen? Wrong source selected? Format wrong for current source selected? Static Setup needs adjustment? Wrong broadcast standard selected? Black and white signal? Weak signal from broadcasting station? Cables broken or loose? Remote in TV mode? Remote not pointed at VCR? VCR cannot be controlled by remote? Remote batteries weak? Did you use AutoFind option to program remote for VCR? VCR not IR controlled? VCR turned off? VCR in Timer mode? Sleep Timer status set to Off? Sleep Timer turned On? Off Timer active? Power failure? On/Off Timer disabled? Image appears distorted.

Aspect Ratio setup wrong for source selected? Aspect Ratio, Format Stable incoming signal is not available on selected source, or signal format is not in a Pref, Label Format format recognized by the HD Display. and Blank Setup options No equipment connected to selected source. are not available on Setup Menu. Image looks "Washed Out." Loop Out/In switch set on wrong position? RGB SOURCE PROBLEMS Problem Possible Cause Video mode not available Video mode only available on Video or S-Video Source. on Setup Menu. Image Image Image Image is too green. has "banding" is "splotchy." is too dark. Clamp Pulse may need adjustment.

PAGE 32 3275-A NOTES 3275-A PAGE 33 NOTES PAGE 34 3275-A NOTES 3275-A PAGE 35 Your Zenith PRO900X HD Projection Display Warranty HD Projection Monitor Welcome to the Zenith family! We believe that you will be pleased with your new Zenith HD Display. Please read this warranty carefully, it is a "TWO-YEAR LIMITED WARRANTY" as defined under Federal Law. @@@@ or Canada. (Some repairs may require the HD Display to be taken by the servicer to the repair facility and returned, at no additional charge.) This warranty covers manufacturing defects and does not cover installation, adjustment of controls, or repair of home systems, cable converters or cable company-supplied equipment: it does not cover damage due to misuse, abuse, negligence, acts of God, or causes beyond the control of Zenith.

Any alteration of the product after manufacture voids this warranty in its entirety. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. Parts On-Site Service Not Covered OWNER'S RESPONSIBILITY Effective Warranty Date Warranty begins on the date of original installation. For your convenience, keep the dated bill of sale or delivery ticket as evidence of the purchase date.

Read your Operating Guide carefully so that you will understand the operation of your HD Display and how to adjust the customer controls. Product Registration--Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you. For warranty service information, contact any Zenith authorized digital display service center. Parts and service that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

Operating Guide Important Warranty Service ZENITH ELECTRONICS CORPORATION Zenith Response Center 201 James Record Rd., Building 3 Huntsville, AL 35824 Telephone (256) 772-1515 Mon-Fri, 7:00 a.m.-8:00 p.m. CST Sat, 8:00 a.m.-5:00 p.m. CST www.zenith.com ZENITH CONSUMER SERVICES 801 E. Roosevelt Rd. Lombard, IL 60148 Telephone (630) 705-2830 Home & Carry-in Service Television/VCR Parts and Accessories PTV/Camcorders 201 James Record Rd. Building 4 Huntsville, AL 35824 Telephone (256) 774-4025 Service Hours: M-F 8-6, Sat 9-2 Will accept UPS shipments Be sure to send in the Product Registration Card.

We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tubes. For additional information call (256) 774-4088. Additional Zenith Picture Tube Protection Plan Available Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tubes in your new HD Display.



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