



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH DVB216. You'll find the answers to all your questions on the ZENITH DVB216 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH DVB216**  
**User guide ZENITH DVB216**  
**Operating instructions ZENITH DVB216**  
**Instructions for use ZENITH DVB216**  
**Instruction manual ZENITH DVB216**



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**Manual abstract:**

This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the product and receiver. Connect the product into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. FCC COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA. Phone: 1-847-941-8000 This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT**

**EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. WARNING: Do not install this equipment in a confined space such as a book case or similar unit. NOTES ON COPYRIGHTS: It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision.**

Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ CAUTION:

This Digital Video Disc Player employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure). Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM. CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus. 2 IMPORTANT SAFETY INSTRUCTIONS INTRODUCTION PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE. This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing. This unit does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY. 1. Read These Instructions All the safety and operating instructions should be read before the product is operated. Follow All Instructions All operating and use instructions should be followed.

Keep These Instructions The safety and operating instructions should be retained for future reference. Heed All Warnings All warnings on the product and in the operating instructions should be adhered to. 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 in 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.

Grounding or Polarization Do not defeat the safety purpose of the polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 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. 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. Heat Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Water and Moisture Do not use this apparatus near water.

For example: near a bath tub, wash bowl, kitchen sink, Laundry tub, in a wet basement; or near a swimming pool. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Clean only with dry cloth. Power-Cord Protection Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles, this can result in a risk of fire or electric shock. Lightning Unplug this apparatus during lightning storms or when unused for long periods of time. This will prevent damage to the product due to lightning and power-line surges.



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*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.

**CAUTION:** 15. *Attachments* Only use attachments/accessories specified by the manufacturer. 16. *Accessories* Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

17. *Disc Tray* Keep your fingers well clear of the disc tray as it is closing. It can cause personal injury. 18. *Burden* Do not place a heavy object on or step on the product.

The object may fall, causing serious personal injury and serious damage to the product. 19. *Connecting* When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections. 20. *Sound Volume* Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage. 21. *Sound Distortion* Do not allow the product to output distorted sound for a long time.

It may cause speaker overheating and fire. 22. *Earphone* When you use the earphone, keep the volume at a moderate level. If you use the earphone continuously with high volume sound, it may cause hearing damage. 23. *Laser Beam* Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage. 24. *Disc* Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

25. *Damage Requiring Service* 2. 3. 4. 5.

6. 7. 8. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normal, or has been dropped.

26. *Servicing* Do not attempt to service this product yourself as opening or removing the cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 27. *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. 28. *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. 9. 10.

11. 12. 13. 14. 3 Table of Contents Introduction Safety Precautions . . . . .

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. . . . . piece on an audio CD. Each track is assigned a track number, enabling you to locate the track you want. Notes Depending on the condition of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.

The unit cannot play discs that contain data other than MP3 and CD-DA data. Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc. Do not use irregularly shaped CDs (e.g., heartshaped or octagonal). It may result in malfunctions. Notes on DVDs Some playback operations of DVDs may be intentionally fixed by software manufacturers. As this unit plays DVDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added. Refer also to the instructions supplied with the DVDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD player and DVDs This DVD player is designed and manufactured for playback of region 1 encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

HDCD (High Definition Compatible Digital®) HDCD® (High Definition Compatible Digital®) is a recording system that has improved audio CD sound in dynamic range, sound field reproducibility and vocal acoustics. This DVD player is equipped with an HDCD decoder. The HDCD indicator illuminates when

playing an HDCD-encoded audio CD. 1 Note on DTS-encoded CDs To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.

1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit. 5 INTRODUCTION Before Use (Continued)

Precautions Handling the unit When shipping the unit The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory. When setting up the unit The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc. To keep the exterior surfaces clean Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time.



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They will leave marks on the surface. Storing discs After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out. Yes No Cleaning the unit To clean the cabinet Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit. To obtain a clear picture The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

) For details, please contact your nearest dealer. Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records. About Symbols About the symbol display " " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc. About the disc symbols for instructions A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

DVD DVD CD Audio CDs. MP3 MP3 disc. Notes on Discs Handling discs Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.

6 Front Panel and Display Window POWER Switches the player ON and OFF. Forward Skip/Scan ( T / R ) Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search. Reverse Skip/Scan ( Q / S ) Go to beginning of current chapter/track or to PREVIOUS chapter/track. Press and hold for two seconds for a fast reverse search. STOP ( 9 ) Stops playback. PAUSE ( ; ) Pause playback temporarily/ press repeatedly for frame-by-frame playback. PLAY ( 2 ) Starts playback. Disc Tray Insert a disc here. OPEN/CLOSE ( / ) Opens or closes the disc tray.

Power indicator Lights green when the player is in Power On mode. // Display window Shows the current status of the player. Remote Sensor Point the DVD Player remote control here. ANGLE active DVD TITLE Indicates current title number CHP/TRK Indicates current chapter or track number Indicates total playing time/elapsed time PROG. Programmed playback active RANDOM RANDOM playback active Indicates repeat mode DVD inserted CD Audio CD inserted HD CD HDCD disc inserted MP3 MP3 disc inserted Indicates current player function: Playback, Pause, etc. MP3 HD CD DVD TITLE CHP/TRK PROG. RANDOM ALL A B 7 INTRODUCTION Remote Control POWER Switches DVD Player ON and OFF. MENU Accesses menu on a DVD disc. power open / close OPEN/CLOSE Opens and closes the disc tray. TITLE Displays the discs Title menu, if available.

RETURN/TV INPUT - Removes the setup menu. - Selects AUX A/V input channel. SELECT/ENTER Acknowledges menu selection. SOUND/MUTE - Selects 3D SURROUND during disc playback. - turns off TV sound.

ZOOM Enlarges video image. setup subtitle a-b audio random program angle DISPLAY Accesses On-Screen display. 1 2 3 4 (left/right/up/down) Selects an item in the menu, channel of TV or changes the volume of the TV. MARKER Marks any point during playback. SEARCH Displays MARKER SEARCH menu. Forward SKIP/SCAN ( T ) Search forward\*/ go to next chapter or track. Reverse SKIP/SCAN ( S ) Search backward\*/ go to beginning of current chapter or track or go to previous chapter or track. \* Press and hold button for about two seconds. STOP ( 9 ) Stops playback. PLAY ( 2 ) Starts playback. PAUSE ( ; ) Pauses playback temporarily/ press repeatedly for frame-by-frame playback. REPEAT Repeat chapter, track, title, all. A-B Repeat sequence. RANDOM Plays tracks in random order. ANGLE Selects a DVD camera angle if available.

CLEAR Removes a track number on the program menu or a mark on the MARKER SEARCH menu. display menu ch vol marke select / enter title return tv input vol pa use/step skip/ scan skip/ scan play stop zo sea ch s ound /m u te repeat clear dvd rev r om rch vcr 0-9 number buttons Selects numbered items in a menu. SETUP Accesses or removes setup menu. SUBTITLE Selects a subtitle language. AUDIO Selects an audio language (DVD) or an audio channel (CD).

PROGRAM Accesses or removes Program menu. DVD/VCR/CATV/TV select buttons Selects operational mode of remote control. SHUTTLE ring For variable-speed playback. catv tv slow/scan fwd Remote Control Operation Range Point the remote control at the remote sensor and press the buttons.

Distance: About 23 ft (7 m) from the front of the remote sensor.

Angle: About 30° in each direction of the front of the remote sensor. Remote control battery installation Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with and aligned correctly. Caution Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

8 Controlling VCRs, Cable Boxes (DBS) and TVs Your remote control operates the common features of most, but not all, models and brands of IR (infrared) controlled VCRs, cable converters (DBS) and TVs. power open / close display menu ch vol marke select / enter title return tv input vol pa use/step skip/ scan skip/ scan zo sea ch s ound /m om Some manufacturers have more than one code number. If the remote control does not operate the VCR, Cable box(DBS), or TV after setting a code number, try a different code. Buttons used to operate the VCR POWER, Number (0 - 9), CH (Channel) 4/3, SELECT/ENTER, PLAY, SKIP/SCAN T (Fast Forward), SKIP/SCAN S (Rewind), STOP, OPEN/CLOSE (EJECT) and PAUSE/STEP buttons on the remote control are activated.

Buttons used to operate the CATV (DBS) POWER, Number (0 - 9), RETURN (TV INPUT), and CH (Channel) 4/3, and VOL (Volume) 4/3 buttons on the remote control are activated.

Buttons used to operate the TV POWER, Number (0 - 9), RETURN (TV INPUT), CH (Channel) 4/3, VOL (Volume) 4/3 and SOUND (MUTE) buttons on the remote control are activated. play stop setup repeat clear dvd subtitle a-b audio random program angle vcr catv tv Note Due to the variety of codes used by manufacturers, our company cannot guarantee this remote control will operate with every model of the brands listed. TV Codes by Brand Brand Name Codes

ADMIRAL 110, 113, 144, 151, 152 AKAI 115 AMARK 131 AOC 115 BELL & HOWELL 113 BROKSONIC 140, 143 CANDLE 158 CENTURION 130 CITIZEN 156, 157, 158, 159, 160, 161, 162 CORONADO 131 CROWN 131 CURTIS MATHES 113, 115, 118, 130, 144, 151 DAEWOO 145, 146, 147, 148, 149, 150 DAYTRON 115, 130 EMERSON 110, 111, 115, 131, 140, 143 FISHER 116, 125 FUNAI 153, 154 GENERAL ELECTRIC 102, 118, 127, 128, 133, 144, 151 HITACHI 119, 131, 132 JC PENNEY 102, 115, 124, 130, 133 JVC 109, 141 KMC 131 KTV 115, 130, 131, 138 LG (GOLDSTAR) 115, 122, 130, 131, 133, 146 LODGENET 113 LOGIK 113 LXI 104, 116, 123, 124, 125, 131, 139 MAGNAVOX 100, 106, 107, 109, 114, 115, 121 122, 130, 131, 133, 158 MAJESTIC 113 MARANTZ 103, 115 MEMOREX 113 MGA/MITSUBISHI 103, 114, 115, 130 MONTGOMERY WARD 103, 113, 114, 115, 121, 129, 130, 131, 139 NEC 115, 130 PANASONIC 104, 122, 127, 128, 133, 163 PHILCO 115, 121, 122, 130, 131, 150 PHILIPS 121, 122 PIONEER 134 PORTLAND 131 TV Codes by Brand Codes 118, 144, 151 127, 128 110, 111, 129 115, 118, 144, 151 110, 111, 129 130 104, 115, 130, 131 116, 125 115, 130 104, 116, 123, 124, 125, 131 112, 129, 131, 139 102, 113, 114, 115, 121, 129, 130, 131, 139 SONY 105 SOUNDESIGN 158 SYLVANIA 106, 107, 115, 121, 122, 130, 133, 158 SYMPHONIC 153, 154 TATUNG 128 TEKNIKA 110, 113, 122, 131, 158 TELERENT 113, 131 YORX 130 TOSHIBA 104, 123, 124 WARDS 102, 113, 114, 115, 121, 130, 131 XR1000 155 ZENITH 100, 101 CATV, Cable Converter Codes by Brand Brand Name Codes ALLEGRO 351 Archer 336 Cableview 336 Citizen 336 Curtis Mathes 317 Eagle 306, 307, 310 Gemini 302, 327, 328, 333 GENERAL ELECTRIC 353 General Instrument 324, 326, 327, 328 Gobrand 336 Hamlin 314, 330, 331 Jerrold 323, 324, 325, 326, 327, 329 Kale Vision 334 Brand Name PROSCAN QUASAR RADIO SHACK RCA REALISTIC SAMPO SAMSUNG SANYO SCOTT SEARS SHARP SIGNATURE 2000 CATV, Cable Converter Codes by Brand Brand Name Codes Macom 311, 312, 342 Magnavox

306, 307, 310, 334, 337, 338 NSC 332 OAK 301, 321, 322 Panasonic 313, 318, 320 Paragon 300 Philips 306, 307, 308, 309, 310 Pioneer 318, 319 Pluser 336  
RCA 318 Regal 310 Regency 304 Samsung 318, 327, 334 Scientific Atlanta 317, 335, 347, 354 SLmarx 318, 327 Sprucer 318, 320, 327 Standard Components  
334 Stargate 318, 327, 328 Teleview 318, 327, 336 Texscan 303 Tocom 315, 316 Uniden 348 Unika 336 Universal 351, 352 Vid Tech 339 Video Way 300,  
349 Viewstar 306, 307, 310 Zenith 300, 305, 311 Zenith HT-2000 300 DBS Codes by Brand Brand Name Codes RCA 355 Sony 356 VCR Codes by Brand  
Brand Name Codes ZENITH 200 LG 201 9 INTRODUCTION chart, corresponding to 1 In the brand offind the code device.



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your operational or CATV but 2 While holding down the TV, VCR- 9) to enter the ton, press 3 number buttons (0 code. ute r ch Rear Panel VIDEO OUTPUT Switch Select either S-VIDEO OUT or COMPONENT VIDEO OUT/PROGRESSIVE SCAN, depending on how you connected the DVD Player to the TV. COAXIAL (Digital audio out jack) Connect to digital (coaxial) audio equipment. COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) Connect to a TV with Y Pb Pr inputs. OPTICAL (Digital audio out jack) Connect to digital (optical) audio equipment. AUDIO OUT (Left/Right) Connect to an amplifier, receiver, or stereo system. DIGITAL OUT COMPONENT VIDEO OUT AUDIO OUT COAXIAL DIGITAL OUT Pr L VIDEO OUTPUT S-VIDEO Pb R OPTICAL COMPONENT / PROGRESSIVE SCAN S-VIDEO OUT Y PROGRESSIVE SCAN VIDEO OUT S-VIDEO OUT Connect to a TV with S-Video inputs.

AC Power Cord Plug into the power source. VIDEO OUT Connect to a TV with video inputs. Dust protection cap Remove the dust protection cap from the OPTICAL DIGITAL OUT jack and connect the optical digital cable (not supplied) securely so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust intrusion. Dust protection cap Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. 10 Connections Tips Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described below. Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections. For better sound reproduction, connect the player's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment.

See Connecting to optional equipment on page 12. Caution Make sure the DVD Player is connected directly to the TV. Tune the TV to the correct video input channel. Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect your DVD Player via your VCR.

The DVD image could be distorted by the copy protection system. Progressive Scan (ColorStream® pro) connection If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Player's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player. 1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C). the and Right AUDIO OUT jacks of 2 Connecting Left to supplied audio cables.

jacks on the the DVD Player the audio left/right in TV (A) the Notes Set the Progressive to "On" on the setup menu for progressive signal, see page 14. Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack). Connecting to a TV Make one of the following connections, depending on the capabilities of your existing equipment. When using the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks, set the VIDEO OUTPUT switch to COMPONENT. When using the S-VIDEO OUT jack, set the VIDEO OUTPUT switch to S-VIDEO. Rear of TV Video connection 1 Connect the VIDEO OUT jack on the DVD Player to the video in jack on the TV using the video cable supplied (V). S-VIDEO INPUT COMPONENT VIDEO / PROGRESSIVE SCAN INPUT AUDIO INPUT VIDEO INPUT Pr Pb Y L R L the and Right AUDIO OUT jacks of 2 Connecting Left to supplied audio cables. jacks on the the DVD Player the audio left/right in TV (A) the S-Video connection S C A V 1 Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the supplied S-Video cable (S). the and Right AUDIO OUT jacks of 2 Connecting Left to supplied audio cables. jacks on the the DVD Player the audio left/right in TV (A) the Component Video (Color Stream®) connection DIGITAL OUT COMPONENT VIDEO OUT AUDIO OUT 1 2 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C).

Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (A) using the supplied audio cables. COAXIAL DIGITAL OUT Pr L VIDEO OUTPUT S-VIDEO Pb R OPTICAL COMPONENT / PROGRESSIVE SCAN S-VIDEO OUT Y PROGRESSIVE SCAN VIDEO OUT Rear of DVD player 11 PREPARATION Connections (Continued) Connecting to Optional Equipment Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround Connect the Left and Right AUDIO OUT jacks on the DVD Player to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the supplied audio cables (A). DIGITAL OUT Rear of DVD player DIGITAL OUT COMPONENT VIDEO OUT AUDIO OUT COAXIAL VIDEO OUTPUT S-VIDEO Pr L Pb R OPTICAL COMPONENT / PROGRESSIVE SCAN S-VIDEO OUT Y PROGRESSIVE SCAN VIDEO OUT Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS) O X A 1 Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (OPTICAL O or COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (optical O or coaxial X) audio cable. OPTICAL COAXIAL L R to activate 2 You will need Audio Output the player's digital output. (See Digital on page 15). DIGITAL INPUT AUDIO INPUT Amplifier (Receiver) Digital Multi-channel sound A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD Player (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

Caution: Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Notes If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all. Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder. To see the audio format of the current DVD in the onscreen display, press AUDIO. 12 Before Operation General Explanation This manual gives basic instructions for operating the DVD Player. Some DVDs require specific operation or allow only limited operation during playback.



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When this occurs, the symbol appears on the TV screen, indicating that the operation is not permitted by the DVD Player or is not available on the disc. Temporary Feedback Field Icons TITLE Repeat Title Repeat A-B Repeat Off Resume play from this point Action prohibited or not available CHAPT A B OFF On-Screen Display General playback status can be displayed on the TV screen. Some items can be changed on the menu. On-screen display operation 1 Press DISPLAY during playback. to 2 Press 3 or 4itemselect an item.

The selected will be highlighted. to change the setting an item. 3 Press 1 or 2button(number).also someofffunctions, The number can be be used for setting numbers (e.g., title For press SELECT/ENTER to execute the setting. DVD Notes Some discs may not provide all of the features on the on-screen display example shown below. If no button is pressed for 10 seconds, the on-screen display disappears. Items Title Number 1/3 4 Function (Press 3/4 to select desired item) Shows the current title number and total number of titles, and skips to the desired title number. Shows the current chapter number and total number of chapters, and skips to the desired chapter number.

Shows the elapsed playing time, and searches the point by the elapsed time directly. @@Shows the current subtitles language, and changes the setting. @@@@4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off. @@@@Some SETUP, 5 Press menu. @@@@If you set Progressive Scan to On in error, you must reset the unit. Press STOP to stop any disc that is playing. @@@@PCM: select when connected to a 2-channel digital stereo amplifier. @@@@4 Press 3/4 to select the desired item and press SELECT/ENTER.

The setting of the selected item is changed between On and Off. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan Digital Audio Output 5.1 Speaker Setup Others DRC Off Vocal On Dynamic Range Control (DRC) With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound.

Set DRC to On for this effect. /PCM Stream/PCM PCM Vocal Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound. Sample Frequency To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated as above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz.

When this choice is made, this unit will automatically convert any 96KHz signals to 48KHz so your system can decode them. If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, this unit will pass each type of signal through without any further processing. 15

PREPARATION Before Operation (Continued) Parental Control Rating DVD Country Code DVD Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan Digital Audio Output 5.1 Speaker Setup Others 8 7 6 5 4 3 2 1 Unlock Change Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See Country Code List, page 25).

). Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan Digital Audio Output 5.1 Speaker Setup Others Code Set US Rating 1 Select buttons.on the Setup menu using the 3 and 4 2 While Rating is selected, press 2. not entered password yet. 3 When you have personal using the numbered but Enter 4-digit password tons to create a 4-digit security password, then press SELECT/ENTER. Enter the 4-digit password again and press SELECT/ENTER to verify. When you have already entered a password; Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press SELECT/ENTER. If you make a mistake before pressing SELECT/ENTER, press CLEAR and enter 4-digit security password again. 4 Select Country 1 the setup menu.

Code using the 3/4 buttons on 2 While Country Code is selected, press 2. 3 Follow step 3 of Rating on left. 4 4 Select the first character using the 3/4 buttons. the cursor using 1/2 5 Shiftsecond character using buttons and select 3/4 buttons. 4 the SELECT/ENTER to 6 Pressselection, then pressconfirm your country code SETUP to exit the menu.

Note Confirmation of the 4-digit password is necessary when the code is changed (see Changing the 4-digit code below). Changing the 4-digit code 1 Follow Steps 1-2 as shown above to the left (Rating). 2 Enter the old code, then press SELECT/ENTER. 4 3 Select Change using the 3/4 buttons then press SELECT/ENTER. 4 Enter the new 4-digit code, then press SELECT/ENTER.

5 Enter exactly the same code a second time and verify by pressing SELECT/ENTER. 6 Press SETUP to exit the menu. 4 Select a rating from 1 to 8 the 3/4 but 4 tons. One has the most least using restrictions. (1) has the playback restrictions. Eight (8) playback Unlock: If you select Unlock, Parental Control is not active. The disc will play in full. Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc.

The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc. If you forget your 4-digit code If you forget your password, to clear the current password, follow the procedure below. 1 Press SETUP to display the setup menu. 2 Use the Number buttons to enter the 6-digit number 210499. The 4-digit password is cleared. 5

Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu. 3 Enter a new code as shown above to the left (Rating). 16 Operation with DVD Playing a DVD Playback Setup DVD General Features PREPARATION Note Unless stated otherwise, all operations described use the remote control.

Some features may also be available on the Setup menu.



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Turn on the TV and select the video input source connected to the DVD player. Audio system: Turn on the audio system and select the input source connected to the DVD player. Moving to another TITLE 1/3 DVD 1 label 2 Load your chosen disc in the tray, with the sure facing up. When a double-sided DVD inserted, make the side you want to play is facing up.

OPEN/CLOSE the tray. 3 Press automatically onto close screen, not start, READING appears the TV and playback starts. If playback does press PLAY. In some cases, the disc menu might appear instead. Press OPEN/CLOSE to open the disc tray.

When a disc has more than one title, you can move to another title as follows: Press DISPLAY when playback is stopped, then press the appropriate numbered button (0-9) to select a title number. Moving to another CHAPTER DVD 1/12 If a menu screen is displayed The menu screen may be displayed first after loading a DVD which contains a menu. DVD Use the 1 2 3 4 buttons to select the title/chapter you want to view, then press SELECT/ENTER to start playback. Press TITLE or MENU to return to the menu screen. Notes If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see Parental Control, on page 16). DVDs may have a region code. Your player will not play discs that have a region code different from your player. The region code for this player is 1 (one). When a title on a disc has more than one chapter or a disc has more than one chapter, you can move to another chapter as follows: Press SKIP/SCAN . or > briefly during playback to select the next chapter or to return to the beginning of the current chapter.

Press . twice briefly to step back to the previous chapter. To go directly to any chapter during DVD playback, 4 press DISPLAY. Then, press 3/4 to select C (chapter). Then, enter the chapter/track number using the numbered buttons (0-9). Note For two-digit numbers, press the buttons in rapid succession. Slow Motion DVD 1 Rotate and hold SHUTTLE ring during still picture mode. The player will enter SLOW mode. 2 Rotate and hold SHUTTLE ring forward or reverse to select the required speed: t 1/16, t 1/8, t 1/4 or t 1/2 (backward), or T 1/16, T 1/8, T 1/4 or T 1/2 (forward). 3 Release SHUTTLE ring to resume the still picture mode.

17 Operation with DVD (Continued) General Features (continued) Still Picture and Frame-by-frame playback DVD Repeat A-B A \* A B DVD OFF To repeat a sequence in a title: 1 Press A-B at your chosen starting point. A- appears briefly on the TV screen. 1 Press PAUSE during playback. The player will now go into PAUSE mode. 2 You can advance the picture frame-by-frame by pressing PAUSE repeatedly on the remote control.

2 Press A-B again at your chosen end point. A-B appears briefly on the TV screen, and the repeat sequence begins (a-b repeat appears on the player's display). Search DVD 3 To cancel the sequence, press A-B. 1 Press and hold SKIP/SCAN . or > for about two seconds during playback.

The player will now go into SEARCH mode. Time Search DVD 0:16:57 -:-:- 2 Press and hold SKIP/SCAN . or > repeatedly to select the required speed: mX2, mX4, mX16, mX100 (backward) or MX2, MX4, MX16, MX100 (forward). 3 To exit SEARCH mode, press PLAY. The Time Search function allows you to start playing at any chosen time on the disc. 1 Press DISPLAY during playback. The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc. Tip You can also select the search speed by rotating and holding the SHUTTLE ring during playback. The search speed is changed by positions you rotate and hold SHUTTLE ring.

4 2 Within 10 seconds, press 3/4 to select the Time Search icon in the on-screen display. The -:-:- appears in the Time Search box. Random Karaoke DVD 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers. 1 Press RANDOM during playback or in stop mode. The unit automatically begins Random Playback and "RAND." appears on the display window. 2 To return to normal playback, press RANDOM until "RAND." disappears on the display window. Tips By pressing SKIP/SCAN . or > during Random playback, the unit selects another title and resumes Random playback. Note This function only works with DVD Karaoke discs. 4 Within 10 seconds, press SELECT/ENTER to confirm the start time.

Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point. 3D Surround DVD NORM. 3D SUR This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multichannel audio from a home theater system. 1 Press SOUND to select "3D SUR" during playback.

2 To turn off the 3D Surround effect, press SOUND again to select "NORM". Repeat CHAPT DVD TITLE OFF DVD Video Discs - Repeat Chapter/Title/Off 1 To repeat the currently playing chapter, press REPEAT. The Repeat Chapter icon appears on the TV screen. 2 To repeat the title currently playing, press REPEAT a second time. The Repeat Title icon appears on the TV screen. 3 To cancel Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the TV screen. 18 Operation with DVD (Continued) General Features (continued) Zoom DVD Special DVD Features DVD 1 Press ZOOM during playback or still playback to activate the Zoom function. If you press ZOOM repeatedly, the magnification level increases up to six times. 2 Use the 1 2 3 4 buttons to move through the zoomed picture.

3 Press CLEAR to resume normal playback or return to the paused image. Note The zoom function may not work for some DVDs. The zoom function may not work on multi-angle scenes. DVDs may contain menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the 1/2/3/4 buttons to highlight your selection, then press SELECT/ENTER. Title Menu 1 Press TITLE. DVD If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.

2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title. 3 To remove the title menu, press TITLE again. Marker Search 1/9 DVD MARKER SEARCH Disc Menu 1 Press MENU. DVD You can start playback from a memorized point. Up to nine points can be memorized. To enter a mark, follow these steps. 1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.



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The Marker icon will appear on the TV screen briefly. The disc menu is displayed. 2 To remove the disc menu, press MENU again. Camera Angle DVD 1/1 2 Repeat step 1 to enter up to nine Marker points on a disc. To Recall a Marked Scene 1 During disc playback, press SEARCH. The MARKER SEARCH menu will appear on the screen. If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback. Press ANGLE repeatedly during playback to select a desired angle. The number of the current angle appears on the display. Changing the Audio Language 1 ENG D 6 CH DVD 2 Within 10 seconds, press 1/2 to select a Marker number that you want to recall. 3 Press SELECT/ENTER. Playback will start from the Marked scene. 4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene 1 During disc playback, press SEARCH. The MARKER SEARCH menu will appear on the screen. Press AUDIO repeatedly during playback to hear a different audio language or audio track. Subtitles DVD 1 ENG Press SUBTITLE repeatedly during playback to see the different subtitle languages. Note appears, the feature is not available on the disc. 2 Press 1/2 to select the Marker number that you want to erase. 3 Press CLEAR. The Marker number will be erased from the list. If 4 Repeat steps 2 and 3 to erase additional Marker numbers. 5 To remove the MARKER SEARCH menu, press SEARCH. 19 OPERATION The Zoom function allows you to enlarge the video image and to move through the enlarged image. Checking the contents of DVD Video discs: Menus Operation with Audio CD and MP3 Discs Playing an Audio CD and MP3 discs The DVD Player can play MP3 formatted recordings on CD-ROM, CD-R, or CD-RW discs. Before playing MP3 recordings, read the notes on MP3 Recordings on page 22. Search CD 1 Press and hold SKIP/SCAN . or > for about two seconds during playback.

The player will now go into SEARCH mode. 1 CD Insert a disc and close the tray. The menu appears on the TV screen. Program MP3 TRACK 1.MP3 TRACK 2.

MP3 TRACK 3.MP3 TRACK 4.MP3 TRACK 5.MP3 TRACK 6.MP3 TRACK 7.MP3 Clear All STER. NORM. TRACK 8.MP3 56:35 1 Clear All OFF 2 Press and hold SKIP/SCAN . or > repeatedly to select the required speed: mX2, mX4, mX8 (backward) or MX2, MX4, MX8 (forward).

3 Search speed and direction are indicated on the menu screen. 4 To exit SEARCH mode, press PLAY. Program TRACK 1 TRACK 2 TRACK 3 TRACK 4 TRACK 5 TRACK 6 TRACK 7 TRACK 8 0:56:35 Random CD Audio CD menu MP3 menu 4 to select a track then 2 Press 3/4starts. the current track'spress PLAY. Playback During playback, elapsed playing time will appear on the display. Playback will stop at the end of the disc. 1 Press RANDOM during playback or when playback is stopped. The unit automatically begins Random Playback and RANDOM or RAND. appears on the display window and menu screen. 2 To return to normal playback, press RANDOM repeatedly until RANDOM or RAND.

disappears on the display window and menu screen. 3 To stop playback at any other time, press STOP. Pause CD MP3 Repeat A-B 1 Press PAUSE during playback. 2 To return to playback, press PLAY or press PAUSE again. CD To repeat a sequence.

1 During disc playback, press A-B at your chosen starting point. The Repeat icon and A - appears on the menu screen. 2 Press A-B again at your chosen end point. Moving to another Track CD MP3 The Repeat icon and A B appears on the menu screen, and the sequence begins to play repeatedly. Press SKIP/SCAN

or > briefly during playback to go to the next track or to return to the beginning of the current track. Press SKIP/SCAN . twice briefly to step back to the previous track. In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback. 3 To exit the sequence and return to normal play, press A-B again. The Repeat icon and OFF appear on the menu screen. 3D Surround CD Repeat Track/All/Off CD MP3 This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multichannel audio from a home theater system. 1 Press SOUND to select 3D SUR during playback. 2 To turn off the 3D Surround effect, press SOUND again to select NORM. 1 To repeat the track currently playing, press REPEAT.

The Repeat Track icon appears on the menu screen. 2 To repeat all tracks on a disc, press REPEAT a second time. The Repeat All icon appears on the menu screen. 3 To cancel Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the menu screen. Changing the Audio Channel CD Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT, or RIGHT). 20 Programmed Playback CD MP3 Programmed Playback with Audio CD and MP3 Discs Program allows you to store your favorite tracks for a particular disc in the player memory. Program can contain 32 tracks (Audio CD) or 60 tracks (MP3 disc). Repeat Programmed Tracks To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the menu screen.

The Repeat All icon appears on the menu screen. To cancel Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the menu screen. 1 PROGRAM 2 Press to enter the during playback or in the stop mode Program Edit mode. The menu is displayed on the TV screen.

The E mark will appear to the right of the word Program on the right side of the menu screen. Insert the disc and close the tray. Erasing a Track from Program List 1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode. The E mark will appear. Note Press PROGRAM to exit the Program Edit mode; the E mark will disappear.

2 Press 2 to move to the Program list. 4 3 Use 3/4 to select the track that you wish to erase from the Program list. 4 Press CLEAR. The track will be erased from the Program list. 3 CD 4 Press 3/4 to select a track, then press SELECT/ENTER to place the selected track on the Program list. Erasing the Complete Program List 1 Follow steps 1-2 of Erasing a Track from Program List as above. 4 2 Use 3/4 to select Clear All, then press SELECT/ENTER. The complete Program for the disc will be erased. The programs are also cleared when the disc is removed. 4 Repeat step 3 to place additional tracks on the Program list.

Program TRACK 12 TRACK 8 TRACK 10 TRACK 3 E MP3 TRACK 1.MP3 TRACK 2.MP3 TRACK 3.MP3 TRACK 4.MP3 TRACK 5.MP3 TRACK 6.MP3 TRACK 7.MP3 Program TRACK 8.MP3 TRACK 2.MP3 TRACK 4.

MP3 TRACK 3.MP3 E TRACK 1 TRACK 2 TRACK 3 TRACK 4 TRACK 5 TRACK 6 TRACK 7 TRACK 8 0:00:14 STER. To resume normal playback from programmed playback Press and hold PROGRAM for 3 seconds until PROG. indicator disappears in the display window. Clear All NORM.

TRACK 8.MP3 56:35 1 Clear All OFF Audio CD menu MP3 menu 5 Press 2.



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The programmed track you selected last is highlighted on the program list. 4 Press 3/4 to select the track you want to start playing. Press TITLE to move to the next page.

Press MENU to move to the previous page. 7 Press PLAY to start. Playback begins in the order in which you programmed the tracks and PROG. appears on the menu screen. Playback stops after all of the tracks on the Program list have played once. 21 OPERATION To repeat all tracks on the program list, press REPEAT a second time. Additional Information Screen Saver The screen saver picture appears when you leave the DVD Player in stop mode for about five minutes. After the Screen Saver has been engaged for about five minutes, the DVD Player will automatically turn itself off. Notes on MP3 Discs About MP3 An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme. We call files that have the .

mp3 file extension MP3 files. The player can not read an MP3 file that has a file extension other than .mp3. The player can not read a fake MP3 file that has a file extension .mp3. Video Mode Setting DVD With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode. To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved. Video mode change sequence: MODE1 MODE2 MODE3 MODE4 MODE5 MODE1 MP3 Disc compatibility with this player is limited as follows: Sampling Frequency/ only at 44.1kHz Bit rate/ within 32 - 320kbps CD-R physical format should be ISO 9660 If you record MP3 files using the software which cannot create a FILE SYSTEM, for example DirectCD etc., it is impossible to playback MP3 files.

We therefore recommend that you use Easy-CD Creator, which creates an ISO9660 file system. 5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.

6. We do not recommend using CD-RW discs. Please use finished CD-R discs only. 7. File names should be named using 8 letters or less and must incorporate the .mp3 extension e.g. "\*\*\*\*\*.MP3". 8.

Do not use special characters such as "\_?!\><+\*}{ [ @ ] ; \ , , " etc. 9. Total number of files on the disc should be less than 200. 10. Use 74 minute CD-R discs (650M), do not use 80 minute CD-R (700M) software. This DVD player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). Customers should also note that permission is required in order to download MP3 files and music from the Internet.

Our company has no right to grant such permission. Permission should always be sought from the copyright owner. 1. 2. 3.

4. If you turn off the the power, the video mode will be back to initial state (MODE1). HDCD Playback HDCD is a process that increases the fidelity of both specially encoded HDCD discs and standard CD audio discs. When an HDCD-encoded disc is playing, the special decoder is automatically activated and the HDCD Indicator lights. No user intervention is required.

To enjoy the benefits of HDCD, your DVD Player must be connected to your A/V receiver via the Analog Audio Outputs. However, if your A/V receiver or surround processor is equipped with built-in HDCD decoding, you may also use a Coaxial or Optical digital audio connection so that the HDCD processing is done there. 22 Troubleshooting Check the following guide for the possible cause of a problem before contacting service. Symptom No power. The power is on, but the DVD player does not work. No picture. Cause The power cord is disconnected. No disc is inserted. Correction Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.

) Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen. Connect the video cable securely. Turn on the TV. Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player. Connect the audio cable securely. Turn on the equipment connected with the audio cable. Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.

Clean the disc. Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.

) Insert a playable disc. (Check the disc type, color system, and Regional code.) Place the disc with the playback side down. Place the disc on the disc tray correctly inside the guide. Clean the disc.

Cancel the Rating function or change the rating level. Point the remote control at the remote sensor of the DVD player. Operate the remote control within 23 ft (7 m). Remove the obstacle. Replace the batteries with new ones.

The TV is not set to receive DVD signal output. The video cable is not connected securely. The connected TV power is turned off. No sound. The equipment connected with the audio cable is not set to receive DVD signal output. The audio cables are not connected securely. The power of the equipment connected with the audio cable is turned off. The Digital Audio Output is set to the wrong position. The playback picture is poor. The DVD player does not start playback.

The disc is dirty. No disc is inserted. An unplayable disc is inserted. The disc is placed upside down. The disc is not placed within the guide. The disc is dirty.

The Rating level is set. The remote control does not work properly. The remote control is not pointed at the remote sensor of the DVD player. The remote control is too far from the DVD player.

There is an obstacle in the path of the remote control and the DVD player. The batteries in the remote control are exhausted. 23 REFERENCE Plug the power cord into the wall outlet securely. Language Code List Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 14). Code 6566 6565 6570 8381 6577 6582 7289 6583 6588 6590 6665 6985 6678 6890 6672 6682 6671 7789 6669 7577 6765 9072 6779

7282 6783 6865 7876 6978 6979 6984 7079 Language Abkhazian Afar Afrikaans Albanian Ameharic Arabic Armenian Assamese Aymara Azerbaijani Bashkir Basque Bengali; Bangla Bhutani Bihari Breton Bulgarian Burmese Byelorussian Cambodian Catalan Chinese Corsican Croatian Czech Danish Dutch English Esperanto Estonian Faroese Code 7074 7073 7082 7089 7176 7565 6869 6976 7576 7178 7185 7265 7387 7273 7285 7383 7378 7365 7165 7384 7465 7487 7578 7583 7575 7589 7579 7585 7679 7665 7686 Language Fiji Finnish French Frisian Galician Georgian German Greek Greenlandic Guarani Gujarati Hausa Hebrew Hindi Hungarian Icelandic Indonesian Interlingua Irish Italian Japanese Javanese Kannada Kashmiri Kazakh Kirghiz Korean Kurdish Laotian Latin Latvian, Lettish Code 7678 7684 7775 7771 7783 7776 7784 7773 7782 7779 7778 7865 7869 7879 7982 8065 8083 7065 8076 8084 8185 8277 8279 8285 8377 8365 7168 8382 8372 8378 8368 Language Lingala Lithuanian Macedonian Malagasy Malay Malayalam Maltese Maori Marathi Moldavian Mongolian Nauru Nepali Norwegian Oriya Panjabi Pashto, Pushto Persian Polish Portuguese Quechua Rhaeto-Romance Rumanian Russian Samoan Sanskrit Scots Gaelic Serbian Serbo-Croatian Shona Sindhi Code 8373 8375 8376 8379 6983 8385 8387 8386 8476 8471 8465 8484 8469 8472 6679 8473 8479 8482 8475 8487 8575 8582 8590 8673 8679 6789 8779 8872 7473 8979 9085 Language Singhalese Slovak Slovenian Somali Spanish Sudanese Swahili Swedish Tagalog Tajik Tamil Tatar Telugu Thai Tibetan Tigrinya Tonga Turkish Turkmen Twi Ukrainian Urdu Uzbek Vietnamese Volapük Welsh Wolof Xhosa Yiddish Yoruba Zulu 24 Country Code List Enter the appropriate code number for the initial setting "Country Code"

(See page 16).



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Code AD AE AF AG AI AL AM AN AO AQ AR AS AT AU AW AZ BA BB BD BE BF BG BH BI BJ BM BN BO BR BS BT BV BW BY BZ CA CC CF CG CH CI CK CL CM CN CO CR CS CU CV CX CY CZ DE DJ DK DM DO DZ EC EE EG EH Country Andorra United Arab Emirates Afghanistan Antigua and Barbuda Anguilla Albania Armenia Netherlands Antilles Angola Antarctica Argentina American Samoa Austria Australia Aruba Azerbaidjan Bosnia-Herzegovina Barbados Bangladesh Belgium Burkina Faso Bulgaria Bahrain Burundi Benin Bermuda Brunei Darussalam Bolivia Brazil Bahamas Bhutan Bouvet Island Botswana Belarus Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Ivory Coast Cook Islands Chile Cameroon China Colombia Costa Rica Former Czechoslovakia Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia Egypt Western Sahara Code ER ES ET FI FJ FK FM FO FR FX GA GB GD GE GF GH GI GL GM GN GP GQ GR GS GT GU GW GY HK HM HN HR HT HU ID IE IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN KP KR KW KY KZ LA LB Country Eritrea Spain Ethiopia Finland Fiji Falkland Islands Micronesia Faroe Islands France France (European Territory) Gabon Great Britain Grenada Georgia French Guyana Ghana Gibraltar Greenland Gambia Guinea Guadeloupe (French) Equatorial Guinea Greece S. Georgia & S. Sandwich Isls. Guatemala Guam (USA) Guinea Bissau Guyana Hong Kong Heard and McDonald Islands Honduras Croatia Haiti Hungary Indonesia Ireland Israel India British Indian Ocean Territory Iraq Iran Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts & Nevis Anguilla North Korea South Korea Kuwait Cayman Islands Kazakhstan Laos Lebanon Code LC LI LK LR LS LT LU LV LY MA MC MD MG MH MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NC NE NF NG NI NL NO NP NR NU NZ OM PA PE PF PG PH PK PL PM PN PR PT PW PY QA RE RO RU RW SA SB Country Saint Lucia Liechtenstein Sri Lanka Liberia Lesotho Lithuania Luxembourg Latvia Libya Morocco Monaco Moldavia Madagascar Marshall Islands Macedonia Mali Myanmar Mongolia Macau Northern Mariana Islands Martinique (French) Mauritania Montserrat Malta Mauritius Maldives Malawi Mexico Malaysia Mozambique Namibia New Caledonia (French) Niger Norfolk Island Nigeria Nicaragua Netherlands Norway Nepal Nauru Niue New Zealand Oman Panama Peru Polynesia (French) Papua New Guinea Philippines Pakistan Poland Saint Pierre and Miquelon Pitcairn Island Puerto Rico Portugal Palau Paraguay Qatar Reunion (French) Romania Russian Federation Rwanda Saudi Arabia Solomon Islands Code SC SD SE SG SH SI SJ SK SL SM SN SO SR ST SU SV SY SZ TC TD TF TG TH TJ TK TM TN TO TP TR TT TV TW TZ UA UG UK UM US UY UZ VA VC VE VG VI VN VU WF WS YE YT YU ZA ZM ZR ZW Country Seychelles Sudan Sweden Singapore Saint Helena Slovenia Svalbard and Jan Mayen Islands Slovak Republic Sierra Leone San Marino Senegal Somalia Suriname Saint Tome and Principe Former USSR El Salvador Syria Swaziland Turks and Caicos Islands Chad French Southern Territories Togo Thailand Tajikistan Tokelau Turkmenistan Tunisia Tonga East Timor Turkey Trinidad and Tobago Tuvalu Taiwan Tanzania Ukraine Uganda United Kingdom USA Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State Saint Vincent & Grenadines Venezuela Virgin Islands (British) Virgin Islands (USA) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia Zaire Zimbabwe

25 REFERENCE Specifications General Power requirements Power consumption Dimensions (approx.) Mass (approx.) Operating temperature Operating humidity AC 120V , 60 Hz 14W 430 X 76.5 X 242 mm (16.9 x 3.0 x 9.5 inches) (w x h x d) 2.8 kg (6.2 lbs) 5°C to 40°C (41°F to 104°F) 5 % to 90 % System Laser Signal system Frequency response Semiconductor laser, wavelength 650 nm NTSC DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz More than 100dB (ANALOG OUT connectors only) Less than 0.008% More than 100 dB (DVD) More than 95 dB (CD) Signal-to-noise ratio Harmonic distortion Dynamic range Outputs VIDEO OUT S-VIDEO OUT COMPONENT VIDEO OUT Audio output (digital audio) Audio output (optical audio) Audio output (analog audio) Accessory S-video cable . . .

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 ...I Video cable ..

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 ... 2 Design and specifications are subject to change without notice.

I Vp-p 75 ohms, sync negative (Y) 1.0 V (p-p), 75 , negative sync, Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 ohms (Y) 1.0 V (p-p), 75 , negative sync, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 , RCA jack x 2 0.5 V (p-p), 75 , RCA jack x 1 5 V (p-p), 75 , Optical connector x 1 1.0 Vrms (1 kHz, 0 dB), 600 , RCA jack (L, R) x 1 , HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following patents: United States: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,872,531 and 5,864,311.

Australia: 669114. Other patents pending. 26 Notes 27 ZENITH ELECTRONICS CORPORATON DVD PLAYER LIMITED WARRANTY - USA Zenith will repair or replace your product, at Zenith's option, 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. This warranty is available only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories. 90 DAYS LABOR/ONE YEAR PARTS WARRANTY 0 to 90 days: Return the defective unit to your Dealer for replacement. 91 to 365 days: Call 1-800-984-9349 for instructions on getting the defective unit repaired or replaced. Repaired or Replacement Units are warranted for the remaining period of the original warranty. @@@@For further instruction, call 1-800-984-9349.

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