



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH DVR413. You'll find the answers to all your questions on the ZENITH DVR413 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH DVR413**  
**User guide ZENITH DVR413**  
**Operating instructions ZENITH DVR413**  
**Instructions for use ZENITH DVR413**  
**Instruction manual ZENITH DVR413**

DR4812ML\_LGEUS

**Installation and Operating Guide | Warranty**

Model Number | DVR413 | DVD Recorder



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**Manual abstract:**

These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the product and receiver.

Connect the product into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. FCC COMPLIANCE: The responsible party for this product's compliance is: LG Electronics U.S.A.

, Inc., 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 Phone: 1-201-816-2000 SERIAL NUMBER: The serial number is found on the back of this unit. This number is for this unit only. You should record the serial number in the space provided and retain this guide as a permanent record of your purchase. Model No.

Serial No. DVR413 CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. 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 APPARATUS 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 bookcase or similar unit. NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical. CAUTION: This DVD Recorder 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 center. 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. 2 IMPORTANT SAFETY INSTRUCTIONS INTRODUCTION CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS MANUAL FOR FUTURE REFERENCE. This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard.

The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing. This product does not contain any parts that can be repaired by the user. DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY. 1.

Read these instructions. - All these safety and operating instructions should be read before the product is operated. 2. Keep these instructions. - The safety, operating and use instructions should be retained for future reference.

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

Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over-heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 8.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product. 11.

Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over. 13. Unplug this product during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the product 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 product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped. 3 Table of Contents INTRODUCTION Safety Precautions.

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. 40 40 41 41 41 41 41 41 About the symbols for instructions Indicates hazards likely to cause harm to the unit itself or other material damage. Indicates special operating features of this unit. Indicates tips and hints for making the task easier. 5 INTRODUCTION DVD Recorder Overview Recordable Discs DVD-RW (Digital Video Disc - ReWritable): These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc. DVD-R (Digital Video Disc - Recordable): These Discs can be recorded only once. After you finalize a DVD-R, you cannot record on it or edit it. DVD+RW (Digital Video Disc + ReWritable): These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc. DVD+R (Digital Video Disc + Recordable): These Discs can be recorded only once. After you finalize a DVD+R, you cannot record on it or edit it any more. Notes This Recorder cannot record CD-R or CD-RW discs. DVD-R/RW, DVD+R/RW and CD-R/RW discs recorded using a personal computer or a DVD or



*CD Recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the Recorder's lens. If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc.*

*(Check with the software publisher for more detailed information.) Playable Discs DVD (8 cm/12 cm disc) Audio CD (8 cm/12 cm disc) In addition, this unit can play DVD-R/DVD-RW discs; DVD+R/DVD+RW discs; CD-R/CD-RW discs that contain audio titles, MP3 files, or JPEG files; and kodak picture CDs. Notes Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/±RW) disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played on the unit.*



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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., heart-shaped or octagonal). Doing so may result in malfunctions. Regional code of the DVD Recorder and DVDs This DVD Recorder 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 DVD Recorder 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 "Incorrect region code. Can't play back" 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. 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. 6 DVD Recorder Overview (Continued) Disc-related terms Title (DVD only) The main film content, accompanying feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily. Chapter (DVD only) Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number to enable you to locate the chapter you want. Depending on the disc, chapters may not be labeled. Track (Audio CD only) Sections of a musical piece on an Audio CD.

Each track is assigned a track number, enabling you to locate the track you want. 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 disc, or at that time. About the disc symbols for instructions A section whose title has one of the following symbols are applicable only to those discs represented by the symbol. Many functions provided on this Recorder are dependent on the recording mode.

One or more of the symbols +R, +RW appear by each (Video, VR, function (explained in this manual) so that you can see at a glance whether it's applicable to the disc loaded. DVD-R/RW with Video recording mode DVD-RW with VR recording mode +R DVD+R disc +RW DVD+RW disc DVD DVD-Video disc CD Audio CDs MP3 MP3 CDs JPEG JPEG CDs Video VR The finalized DVD disc is a DVD-Video disc 7 INTRODUCTION DVD Recorder Overview (Continued) About DVD-R and DVD-RW discs How are DVD-R and DVD-RW discs different? The essential difference between DVD-R and DVD-RW is that DVD-R is a record-once medium, while DVD-RW is a re-recordable/erasable medium. You can re-record/erase a DVD-RW disc approximately 1,000 times. Can I play my recordable discs in a regular DVD player? Generally, DVD-R discs and DVD-RW discs recorded in Video mode are playable in a regular DVD player, but they must be 'finalized' first. This process fixes the contents of the disc to make them readable to other DVD players as DVD-Video discs.

DVD-RW discs recorded in VR (Video Recording) mode are playable in some players. This indicates a product feature that is capable of playing DVD-RW discs recorded with Video Recording format. Is editing a DVD like editing a video tape? No. When you edit a video tape you need one video deck to play the original tape and another to record the edits. With DVD, you edit by making a 'Playlist' of what to play and when to play it. On playback, the Recorder plays the disc according to the Playlist. About word 'Original' and 'Playlist' Throughout this manual, you will often see the words Original and Playlist to refer to the actual content and the edited version. · Original: content refers to what's actually recorded on the disc. · Playlist: content refers to the edited version of the disc -- how the Original content is to be played. About DVD+R and DVD+RW discs How are DVD+R and DVD+RW discs different? The essential difference between DVD+R and DVD+RW is that DVD+R is a record-once medium, while DVD+RW is a re-recordable/erasable medium.

You can re-record/erase a DVD+RW disc approximately 1,000 times. DVD+RW mode recording · 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ) · Playable on regular DVD players (finalization) · The edited contents is playable on regular DVD players only after finalizing · Recordings can be edited the title/chapter · Total number of titles on the disc should be less than 99. DVD+R mode recording · 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ) · Playable on regular DVD players (after finalization) · Any edited contents are not compatible on regular DVD players. (Hide, chapter combine, added chapter mark, etc.) · Limited title/chapter editing features · Total number of titles on the disc should be less than 99. What are 'recording modes'? There are two recording modes available using this Recorder: VR mode and Video mode. When recording to a DVD-R disc, recordings are always in Video mode. DVD-RW discs can be formatted for VR mode recording or Video mode recording. VR mode recording · 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ) · Not playable on regular DVD players · Recordings can be extensively edited · Total number of titles on the disc should be less than 99. Video mode recording · 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ) · Playable on regular DVD players (after finalization) · Limited editing features · Total number of titles on the disc should be less than 99.

ote DVD-Video Format (Video mode) is a new format for recording on DVD-R/RW and DVD+R/RW discs that was approved by the DVD Forum in 2000. You may therefore experience problems playing recordable DVD discs in some players. Symptoms include video artifacts, audio and/or video dropouts and playback suddenly stopping. Our company cannot take responsibility for problems playing discs recorded on this Recorder in other players. 8 DVD Recorder Overview (Continued) About DVD recording notes · This Recorder cannot make recordings on CD-R or CD-RW discs. · Our company takes no responsibility for recording failure due to power outages, defective discs, or damage to the Recorder. · Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs. Notes for recording · The recording times shown are not exact because the Recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.

· Our company takes no responsibility for recording failure due to power outages, defective discs, or damage to the Recorder. · Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs. Notes for recording · The recording times shown are not exact because the Recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.

· Our company takes no responsibility for recording failure due to power outages, defective discs, or damage to the Recorder. · Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs. Notes for recording · The recording times shown are not exact because the Recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.



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· When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter. · If you record still pictures or audio only, the recording time may be longer. · The displayed times for recording and time remaining may not always add up to exactly the length of the disc. · The recording time available may decrease if you heavily edit a disc. · If using a DVD-RW disc, make sure you change the recording format (Video mode or VR mode) before you record anything on the disc. See page 27 (Disc Format) for how to do this. · When using a DVD-R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc. · When using a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc. · The Erase Title option in the Title List-Original menu only hides the title, it does not actually erase the title from the disc and increase the recording time available (except for the last recorded title on a DVD-RW disc in Video mode).

· Overwrite recording is available using DVD+RW discs. Disc types and recording formats, modes, and settings This Recorder can play five different kinds of DVD discs: pre-recorded DVD-Video discs, DVD-RW, DVDR, DVD+RW and DVD+R discs. The disc format for DVD-R discs is always "Video format"--the same as pre-recorded DVD-Video discs. This means that once finalized, you can play a DVD-R in a regular DVD player. By default, the DVD-RW disc format is Video Recording (VR) format, though you can change this to Video format, if required. (Reinitializing the disc will erase the contents of the disc.) The recording mode is closely related to the disc format. If the disc format is Video Recording format, then the recording mode is VR mode; if the disc format is Video mode, then the recording mode is Video mode (except for DVD-Video, which is not recordable, and so does not have a recording mode). Within the recording modes (which are fixed for them whole disc) are the record settings. These can be changed as required for each recording and determine the picture quality and how much space the recording will take up on the disc.

Disc type DVD-Video DVD-RW Disc format Video format Video Recording format (default) Video format Recording mode n/a VR mode Video mode Video mode DVD+RW DVD+R Functions Playback only Playback, Recording, Original/Playlist Editing Playback, limited Recording, limited Editing Playback, limited Recording, limited Editing Playback, limited Recording, Title/Chapter Editing Playback, limited Recording, limited Title/Chapter Editing DVD-R DVD+RW DVD+R Video format +RW Video format +R Video format 9 INTRODUCTION DVD Recorder Overview (Continued) Restrictions on video recording · You cannot record copy-protected video using this Recorder. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause or stop automatically and an error message will be displayed on-screen. · Video that is 'copy-once only' can only be recorded using a DVD-RW disc in VR mode with CPRM (see below). Remote Control Operation Range Point the Remote Control at the remote sensor and press the buttons.

Remote Control Battery Installation Remove the battery cover on the rear of the Remote Control, and insert two R03 (size AAA) batteries with and matched correctly. Caution Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.). What is 'CPRM'? CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs.

CPRM stands for Content Protection for Recordable Media. This Recorder is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM. Resetting the DVD Recorder If you observe any of the following symptoms... The unit is plugged in, but the power will not turn on or off. The front panel display is not working. The DVD Recorder is not operating normally.

..you can reset the DVD Recorder as follows: Press and hold the POWER button for at least five seconds. This will force the unit to power off. Press the POWER button again to turn the unit back on. Unplug the power cord, wait at least five seconds, and then plug it in again. Copyright · Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the area in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner. · 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. 10 DVD Recorder Overview (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 surface 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. They will leave marks on the surface.

Notes on Discs Handling discs 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 outward. 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, benzine, or thinner, as these might damage the surface of the unit. To obtain a clear picture The DVD Recorder is a high-tech, precision device.



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*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. Yes No Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records. 11 INTRODUCTION 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. Front Panel INPUT2 (VIDEO IN/AUDIO IN (Left/Right)) Connect the audio/video output of an external source (Audio system, TV/Monitor, VCR, Camcorder, etc.). POWER button and indicator Switches the DVD Recorder ON or OFF. Lights up red when the Recorder is in standby mode. REC (z) Starts recording. Press repeatedly to set the recording time. STOP (x) Stops playback or recording. PAUSE (X) Pause playback or recording temporarily, press again to exit pause mode. PLAY (N) To play back a disc. INPUT 2 (S-VIDEO IN) Connect the S-Video output of an external source (TV/Monitor, VCR, Camcorder, etc.). OPEN/CLOSE (Z) Opens or closes the disc tray. DV INPUT Connect the DV output of a digital camcorder. Disc Tray Insert a disc here. CHANNEL (+ / -) Scans up or down through memorized channels. Display window Shows the current status of the DVD Recorder. Remote Sensor Point the DVD Recorder Remote Control here. m/. Go to beginning of current chapter/ track or to previous chapter/track. Press and hold for two seconds for a fast reverse search during playback. >/M Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search during playback. 12 Function Display Window Disc type indicators Indicates the type of disc loaded.*

*REC The Recorder is recording. Indicates that the Recorder is timer recording or that a timer recording is programmed. HQ, SQ, LQ, EQ Indicates recording mode. ST Indicates a stereo broadcast is being received. SAP Indicates that an SAP BILINGUAL broadcast is being received. CHP Indicates current chapter number. TRK Indicates current track number. TITLE Indicates current title number DVD A + - R W S V CD -RW TITLE TRK CHP SAP ST HQ SQ LQ EQ REC Character indicators Indicates clock, total playing time, elapsed time, title number, chapter/track number, channel, etc. 13 INTRODUCTION Remote Control Key Functions Overview POWER Turns the Recorder ON and OFF. OPEN/CLOSE (Z) Opens and closes the disc tray. PIP Turns PIP function on and off. TV Control Buttons POWER: Turns the TV on and off. INPUT: Selects the TV's source. CH +/-: Selects TV's channel. VOL +/-: Sets TV's volume.*

*MUTE: Temporarily turns TV sound OFF, press again to restore. 0-9 numerical buttons Selects numbered options in a menu. INPUT Selects the source to use for recording (Tuner, AV1, AV2 or DV IN). AUDIO Selects an audio language (DVD) or an audio channel (CD). SKIP ( / >) Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track. SUBTITLE Selects subtitle languages. SCAN (m / M) Search backward or forward. ANGLE Selects a DVD camera angles, if available. PAUSE/STEP (X) Pause playback or recording temporarily, press again to exit pause mode. REC (z) Starts recording. Press repeatedly to set the recording time. N (PLAY) Starts playback. REC MODE Selects the recording mode: HQ, SQ, LQ, or EQ.*

*STOP (x) Stops playback or recording. MENU/LIST Accesses menu on a DVD disc, Title List or Playlist menu. TIMER REC Displays Timer Record menu. CLEAR Removes a track number on the Program List or a mark on the Marker Search menu. SETUP Accesses or removes the Setup menu. ENTER - Acknowledges menu selection. - Displays information while viewing a TV program. ZOOM Enlarges DVD video image. INSTANT SKIP Skips 15 seconds forward on the disc (about the length of a typical TV commercial). b / B / v / V (left/right/up/down) Selects an option in the menu. CH v / V (up/down) Scans up or down through memorized channels. TITLE Displays the disc's Title menu, if available. DISPLAY Accesses On-Screen Display. THUMBNAIL Selects a thumbnail picture for the current title and chapter for use in the Original and Playlist menu. RETURN (O) Removes the menu.*

*3D SURR. Selects 3D SURROUND during playback. CHP ADD Inserts a chapter marker when playing/ recording a VR mode DVD-RW disc. RANDOM Plays tracks in random order. MARKER Marks any point during playback.*

*REPEAT Repeat chapter, track, title, all. SEARCH Displays Marker Search menu. A-B Repeat sequence. PROGRAM Add the track to the Program List. 14 Rear Panel Connections ANT. IN Connect the antenna to this terminal. COMPONENT VIDEO OUT (Y Pb Pr) Connect to a TV with Y Pb Pr inputs. VIDEO OUT/AUDIO OUT (Left/Right) Connect to a TV with video and audio inputs. VIDEO IN 1 / AUDIO IN 1 (Left/Right) Connect the audio/video output of an external source (Audio system, TV/Monitor, VCR, Camcorder). AC Power Cord Plug into the power source.*

*OPTICAL (Digital audio out jack) Connect to digital (optical) audio equipment. S-VIDEO OUT Connect to an S-Video Input on TV. RF. OUT Passes the signal from the ANTENNA to your TV/monitor. Caution Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. 15 INTRODUCTION COAXIAL (Digital audio out jack) Connect to digital (coaxial) audio equipment. Connections Connecting Antenna/Cable TV to DVD Recorder Cable Service Without Cable Box If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the ANT.IN jack on the DVD Recorder. Use the supplied round coaxial cable to connect between the DVD Recorder's RF.*

*OUT jack and the 75 ohm antenna input jack on the TV. With this connection, you can receive all midband, super band, and hyperband channels. (All cable channels.) 1 Disconnect the antenna leads from the rear of the TV. of your antenna.*

*If it 2 Identify the type This cable from is a 75 ohm coaxial is a round cable as illustrated, it antenna cable. cable will connect directly to the jack marked ANT.IN on your DVD Recorder. ip If your antenna lead wire is a flat type antenna cable, connect it to an Antenna Adapter (300-ohm to 75-ohm) (not supplied) and slip the Adapter onto the ANT.IN jack.*

*The Adapter does not screw on to the DVD Recorder, it just slips over the jack. Antenna Antenna Cable TV Wall Jack Flat Wire (300 ohm) 300/75 ohm Adaptor (Not supplied) Cable Service With Cable Box If a converter is required in your cable system, follow the instructions below: The cable hookup permits both TV and DVD Recorder operation. To view or record a CATV channel 1. Tune the TV to the correct video input channel.*



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2. Set the DVD Recorder channel selector to the output channel of the Cable Converter box using CH (v/V) or number (0-9) of your DVD Recorder. (Example: CH3) 3. Select the channel to view at the Cable Converter Box. *ote* If you are using a cable box to tune channels, it is not necessary to do EZ Channel Scan as indicated on page 20. Cable TV Wall Jack OR OR Back Panel of Typical Cable Box Rear of DVD Recorder Rear of DVD Recorder 16 Connections (Continued) *ips* Depending on your TV and other equipment you wish to connect, there are various ways you could connect the Recorder.

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 Recorder's AUDIO OUT jacks to the audio in jacks on your Amplifier, Receiver, Stereo, or audio/video equipment. See "Connecting to an Amplifier" on page 18. *Caution* Make sure the DVD Recorder is connected directly to the TV. Tune the TV to the correct video input channel. Do not connect the DVD Recorder's AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect your DVD Recorder via your VCR. The DVD image could be distorted by the copy protection system. Component Video (Color Stream®) connection 1 the and Right AUDIO jacks from 2 ConnectingLeft audiothe audio(A).

OUT in jacks on the DVD Recorder to left/right the TV the cables Progressive Scan (ColorStream® pro) connection If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Recorder'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 Recorder. 1 Connect the COMPONENT VIDEO OUT jacks from the DVD Recorder to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C). the and Right AUDIO OUT jacks from 2 ConnectingLeft suppliedaudio left/right(A).jacks on the DVD Recorder to the in the TV the audio cables *otes* Set Progressive Scan option to "ON" in the Setup menu, see page 22.

Progressive scan does not work with the analog video connection (yellow VIDEO OUT & S-Video jacks). Rear of TV ANTENNA INPUT S-VIDEO INPUT COMPONENT VIDEO INPUT AUDIO INPUT VIDEO INPUT TV Connections Make one of the following connections, depending on the capabilities of your existing equipment. RF coaxial connection Connect the RF.OUT jack from the DVD Recorder to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied (R). The RF.

OUT jack passes the signal through from the ANT IN jack. Pr Pb Y L R Video connection 1 2 1 Connect the VIDEO OUT jack from the DVD Recorder to the video in jack on the TV using the video cable (V). Connect the Left and Right AUDIO OUT jacks from the DVD Recorder to the audio left/right in jacks from the TV using the audio cables (A). R S C A V S-Video connection Connect the S-VIDEO OUT jack from the DVD Recorder to the S-Video in jack on the TV using the S-Video cable (S). the and Right AUDIO jacks from 2 ConnectingLeft audiothe audio(A). OUT in jacks on the DVD Recorder to left/right the TV the cables Rear of DVD Recorder 17 DVR HOOKUP Connect the COMPONENT VIDEO OUT jacks from the DVD Recorder to the corresponding in jacks on the TV using an Y Pb Pr cable (C). Connections (Continued) Amplifier Connections Connecting to an Amplifier equipped with two channel analog stereo or Dolby Pro Logic II/ Pro Logic™ Connect the Left and Right AUDIO OUT jacks from the DVD Recorder to the audio left and right in jacks on your Amplifier, Receiver, or Stereo System, using the audio cables (A). Rear of DVD Recorder 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) X A O 1 Connect one of the DVD Recorder'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. COAXIAL DIGITAL INPUT L R OPTICAL DIGITAL INPUT AUDIO INPUT will 2 You (Seeneed to activate the Recorder's digital output.

"Audio" on page 24). 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 Recorder (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. *otes* 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. This Recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this Recorder to a DTS compatible Receiver via one of this Recorder's digital audio outputs.

18 Connections (Continued) Accessory Audio/Video (A/V) Connections to DVD Recorder Connect the input jacks (AV1, AV2) from the DVD Recorder to the audio/video out jacks on your Accessory Component, using audio/video cables. *ote* If you use the S-VIDEO IN jack on the front panel, the VIDEO OUT jack on the front panel is not available. Digital Camcorder Connections DVR HOOKUP Using the front panel DV IN port, it is possible to connect a DV Digital Camcorder or Video Deck or DVD-R/RW Recorder and digitally transfer DV tapes or DVD-R/RW discs to DVD-R/RW. Use a DV cable (not supplied) to connect the DV in/out jack of your DV Camcorder/ Video Deck to the front panel DV IN port of this Recorder. *ote* This jack is for connection to DV equipment only.

It is not compatible with Digital Satellite Tuners, PCs or D-VHS Video Decks. Jack panel of Accessory Component (VCR, Camcorder, etc.) S-VIDEO OUTPUT AUDIO OUTPUT DV Digital Camcorder OR DV IN/OUT R L VIDEO OUTPUT OR Rear of DVD Recorder Front of DVD Recorder Front of DVD Recorder 19 Pre-operation Setup Menu Operation In this menu system, there are several ways to customize the settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press SETUP, only the first and second level of the menu system will appear on the TV screen.



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The third level can be displayed by pressing B. For navigating the menu levels, you will see "B" on the right side of the menu label to help you go to the next level. To bring up and exit the Menu: Press SETUP to bring up the menu. A second press of SETUP will take you back to initial screen. To go to the next level: Press B on the Remote Control. To go back to the previous level: Press b on the Remote Control. to select 6 Use v / V then press the tuning band option (TV or CATV) ENTER. TV: If you are using a standard antenna to receive channels. CATV: If you are using basic cable to receive channels. Tuning Band EZ Channel Scan Ch.

Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set TV CATV EZ Channel Scan This DVD Recorder is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125. Channel Search: Connect the DVD Recorder to the desired type of antenna or cable TV system, as shown in Connecting Antenna/Cable TV to DVD Recorder on page 16. Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set Searching 11% Stop Standard Menu Operation 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the desired option. the desired item is 3 While to the second level.selected, press B to move 4 Use v / V to select the second desired option. 5 Press B to move to the third level.

/V select the desired setting 6 Use vitemstorequire additional steps. then press ENTER to confirm your selection. Some 7 Press SETUP to exit the Setup menu. GENERAL Tuning Band Select 1 Press SETUP. appears.

The Setup menu 2 Use v / V to select the GENERAL option. 3 While the GENERAL option is selected, press B to move the second level. Use v / V to select the Tuning Band option. 4 5 Press B to move to the third level. 20 1 Press SETUP.

appears. The Setup menu 2 Use v / V to select the General option. the General option 3 While to the second level.is selected, press B to move 4 Use v / V to select the EZ Channel Scan option. 5 Press B to move to the third level. to begin the channel search. 6 Press ENTER automatically cycle through all available channels in the area (cable antenna) and "Start" icon is highlighted. place them in the tuner's memory. Pre-operation Setup (Continued) To Add or Erase Channels from Memory This feature allows you to add to or erase channels from memory manually. 1 Press SETUP.

appears. The Setup menu 2 Use v / V to select the General option. the General option 3 While to the second level.is selected, press B to move 4 Use v / V to select the CH. Add/Del option. 5 Press B to move to the third level. Edit icon is highlighted. Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set Edit 1 Press SETUP. appears.

The Setup menu 2 Use v / V to select the Setup menu. While the Setup menu is 3 move to the second level.selected, press B to 4 Use v / V to select the Clock Set option. 5 Press B to move to the third level. 6 Use v / V to select the Auto option then press ENTER.

The Auto option is set at the factory. In the Auto option, the DVD Recorder looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time. Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Band PBS Ch.

Time Zone Daylight TV 002 Auto Auto Auto Manual 6 Press ENTER. The Channel Edit menu appears. Add Ch. 02 Delete Factory Set 7 Use B to choose the BAND option. Use v / V to choose your TV BAND (TV or CATV). 0-9 Input Close 7 Use v / V or number buttons to select a channel to add or delete then press ENTER. Add or Delete icon is highlighted. Press ENTER to confirm your setting. PBS Ch. 8 Use B /toV choose the your local option.

channel. Use v to choose PBS Timezone 9 Use B /toV choose the your Time option. Use v to choose Zone. You can set your local Time Zone manually. When Timezone is set to Auto, the DVD Recorder will use XDS information to determine the proper setting. 8 9 Repeat steps 7-8 to add or erase additional channels. Auto Clock Set The DVD Recorder gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the DVD Recorder to set up the clock when the DVD Recorder is turned off or during PBS channel tuning. The Clock Set feature is set to Auto at the factory. In the ON setting, the DVD Recorder looks for a channel carrying XDS (Extended Data Services) information.

XDS updates the clock using the Coordinated Universal Time. Daylight 10 Use B /toV choose the Auto, On, Saving option. Use v to choose or Off. You can turn Daylight Savings On or Off manually. If it is set to Auto, the DVD Recorder will use XDS information to determine the proper setting.

ENTER to confirm your 11 Press SETUP to exit the Setup setting, then press menu. Note There are cases where the TV station does not send, or sends wrong date and/or time information and the DVD Recorder sets the incorrect time. If this happens, we recommend that you set the clock manually. 21 DVR SETUP Pre-operation Setup (Continued) Manual Clock Set Display Mode Display Mode setting works only when the TV Aspect ratio is set to "4:3". You can choose:

- Letter Box: Displays a wide picture with bands on the upper and lower portions of the screen.  
- Pan Scan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit. Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set Year Time ---- : - - AM Date -- / -Auto Manual Letter Box Pan Scan 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the Setup menu. While the Setup menu is 3 move to the second level.selected, press B to 4 Use v / V to select the Clock Set option. 5 Press B to move to the third level. / V to select 6 Use v ENTER.

the Manual option then press Progressive Scan Progressive Scan Video provides the highest quality pictures with less flickering. · If you are using the COMPONENT VIDEO OUT jacks, but are connecting the DVD Recorder to a standard (analog) television, set Progressive Scan to OFF. · If you are using the COMPONENT VIDEO OUT jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to ON.

Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect 7 Enter the necessary information for date and time. b / B (left/right): Moves the cursor to the previous or next column. v / V (up/down): Changes the setting at the current cursor position. ENTER to confirm your 8 Press SETUP to exit the Setup setting, then press menu. TV Aspect You can choose: - 4:3: Select if a standard 4:3 TV is connected. - 16:9: Select if a 16:9 wide TV is connected.



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Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set 4:3 16:9 Display Mode Progressive Scan Factory Set OFF ON Caution Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to ON in error, you must reset the unit. 1) Remove any disc from the unit and close the disc tray. See that "NO DISC" is displayed on the display window.

2) Press STOP and hold it for five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor. 22 Pre-operation Setup (Continued) Factory Set If you need to, you can reset the Recorder to all its factory settings. Select "Factory Set" icon then press ENTER. Note Some options can not be reset.

(Rating, Password, and Country Code) Tuning Band EZ Channel Scan Ch. Add/Del Clock Set TV Aspect Display Mode Progressive Scan Factory Set SET Language Display Language DVR SETUP Select a language for the Setup menu and on-screen display. Disc Language Select a language for the disc's Menu, Audio, and Subtitle. - Original: The original language set for the disc is selected. - Other: To select another language, select Other option then press ENTER.

Use the numbered and ENTER buttons to key-in the corresponding 4-digit number according to the language code list on page 57. If you make a mistake before pressing ENTER, press b repeatedly to delete one by one and correct it. Display Menu Disc Menu Disc Audio Disc Subtitle Original English French German Spanish Italian Chinese Polish Other - - - 23 Pre-operation Setup (Continued) Audio Each DVD disc has a variety of audio output options. Set the Recorder's Audio Output according to the type of audio system you use. Sampling Frequency If your Receiver or Amplifier is NOT capable of handling 96 kHz signals, select 48 kHz.

Sampling Frequency If your Receiver or Amplifier is NOT capable of handling 96 kHz signals, select 48 kHz.

If this choice is made, this unit will automatically convert any 96 kHz signals to 48 kHz so your system can decode them. If your Receiver or Amplifier is capable of handling 96 kHz signals, select 96 kHz. If this choice is made, this unit will pass each type of signal through without any further processing. Dolby Digital DTS MPEG Sampling Freq. DRC Vocal 48KHz 96KHz Dolby Digital PCM: Select if connected to a 2-channel digital stereo amplifier. The DVD Recorder's digital audio outputs sound in the PCM 2ch format if you play a DVD video disc recorded on the Dolby Digital recording system. Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to a Dolby Digital decoder (or an Amplifier or other equipment with a Dolby Digital decoder). Dolby Digital DTS MPEG Sampling Freq. DRC Vocal PCM Bitstream DRC (Dynamic Range Control) 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. Setup Language OFF Bitstream Dolby Digital DTS MPEG Sampling Freq. DRC OFF ON Vocal DTS OFF: If you select "OFF", the DTS signal is not output through the DIGITAL OUT jack. Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to a DTS decoder (or an Amplifier or other equipment with a DTS decoder).

Setup Language Audio Lock Recording Disc Dolby Digital DTS MPEG Sampling Freq. DRC Vocal Audio Lock Recording Disc MPEG PCM: Select if connected to a 2-channel digital stereo amplifier. The DVD Recorder's digital audio outputs sound in the PCM 2ch format if you play a DVD video disc recorded on the MPEG2 recording system. Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to an MPEG decoder (or an Amplifier or other equipment with a MPEG decoder). Dolby Digital DTS MPEG Sampling Freq.

DRC Vocal PCM Bitstream Vocal Set Vocal to ON only if a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound. Dolby Digital DTS MPEG Sampling Freq. DRC Vocal OFF ON 24 Pre-operation Setup (Continued) Lock (Parental Control) Set Password Changing the 4-digit code Set Password Rating Country Code Change Delete New Password If you forget your 4-digit code If you forget your password, to clear the current password, follow the procedure below. Rating 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 Level 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 alternate scenes. Set Password Rating Country Code No Limit 8 (Adult) 7 6 5 4 3 2 1 (Kids) 1 Press SETUP.

appears. The Setup menu 2 Use v / V to select the Lock option. While the Lock option is 3 move to the second level. selected, press B to 4 Use v / V to select the Set Password option. 5 Press B to move to the third level. entered a password yet; 6 If you have not personalising the numbered but Enter 4-digit password tons to create a 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify. If 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 ENTER. ip If you make a mistake before pressing ENTER, press b repeatedly to delete password numbers one by one then correct it. 7 While "Change" is selected, press ENTER. If you select "Delete" then press ENTER. The password is deleted. 1 Follow steps 1-3 as shown above to the left (Set Password). 2 Use v / V to select the Rating option. 3 Press B to move to the third level.

4 Follow step 6 as shown above to the left (Set Password). Select a rating from 1 to 8 the v / V but 5 tons. One has the most least using restrictions. (1) has the playback restrictions. Eight (8) playback No Limit: If you select No Limit, Parental Control is not active.

The disc will play in full. Level 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the Recorder, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternate scene is available on the disc. The alternate scene must have the same rating or a lower one. If no suitable alternate scene is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.



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ENTER to confirm rating 6 Presspress SETUP to exit your menu. selection, then the 8 Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password then press ENTER. 9 Enter the 4-digit password again and press ENTER to verify.

ip If you a mistake before pressing ENTER, press b repeatedly to delete password numbers one by one then correct it. 25 DVR SETUP 1. Press SETUP to display the Setup menu. 2. Use the Number buttons to enter the 6-digit number "210499". 3. Select "Yes" then press ENTER. The 4-digit password is cleared. Enter a new code as shown left. Pre-operation Setup (Continued) Country Code 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 58).

). Set Password Rating Country Code U S Rec Mode Set Rec Aspect DV Rec Audio Auto Chapter EQ LQ SQ HQ Recording Record Mode Set You can set the picture quality for recording; HQ (High Quality), SQ (Standard Quality), LQ (Low Quality), EQ (Extend Quality). 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the Lock option.

While the Lock option is 3 move to the second level. selected, press B to 4 Use v / V to select the Country Code option. 5 Press B to move to the third level. entered a password yet; 6 If you have not personal using the numbered but Enter 4-digit password tons to create a 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify.

If 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 ENTER. ip If you a mistake before pressing ENTER, press b repeatedly to delete password numbers one by one then correct it. 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the Recording option. 3 While the to Recording option is selected, press B to move the second level. Use v / V to select the Rec Mode Set option. 4 5 Press B to move to the third level. / to 6 Use vSQ, VLQ select a desired Record Mode (HQ, or EQ) ENTER to confirm your 7 Press SETUP to exit the menu. selection, then press Record Aspect Ratio When recording, you can set the recording aspect ratio to suit the material you're recording (16:9 widescreen, or 4:3 standard).

Rec Mode Set 7 Shift the cursor using B buttons and 8 second character using v / V buttons. select the confirm your 9 Press ENTER to press SETUP to country code selection, then exit the menu. Select the first character using the v / V buttons. Rec Aspect DV Rec Audio Auto Chapter 4:3 16:9 26 Pre-operation Setup (Continued) DV Rec Audio You need to set this if you have a camcorder using 32kHz/12-bit sound connected to the front panel DV IN port. Some digital camcorders have two stereo tracks for audio. One is recorded at the time of shooting; the other is for over-dubbing after shooting. On the Audio 1 setting, the sound that was recorded while shooting is used. On the Audio 2 setting, the over-dubbed sound is used. Rec Mode Set Rec Aspect DV Rec Audio Auto Chapter Audio 1 Audio 2 Disc Format Finalize Disc Label Disc Protect Start Auto Chapter When recording, chapter markers are put in at the specified interval. You can set this interval to 5 minutes, 10 minutes, or 15 minutes.

If you select None, it switches automatic chapter marking off, no separations. Rec Mode Set Rec Aspect DV Rec Audio Auto Chapter None 5 Min 10 Min 15 Min 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the Disc option. While the Disc option is selected, press B to 3 move to the second level. 4 Use v / V to select the Disc Format option. B 5 Press iconto move to the third level. Start is highlighted. ENTER. 6 Press Format menu appears. Disc / B to Disc Format 7 For DVD-RWs, use Video select athen press Mode (VR Mode or Mode) ENTER. For DVD+RWs, go to step 8. Disc Format Select a Mode VR Mode Video Mode to then ENTER. 8 Use b / aBfew select "Ok" format press disc. It takes moments to the Disc Format All data on the disc will be deleted. Proceed? Ok Cancel Disc Disc Format If you load a completely blank disc, the Recorder will initialize the disc. DVD-R: The Recorder initializes the disc for Video mode. The recording mode will always be Video mode. DVD-RW: The Recorder initializes the disc for VR mode. DVD+R: The Initialization menu will appear.

Select "Yes" then press ENTER. DVD+RW: The Recorder initializes the disc for DVD+RW mode. Also, you can format the disc from the Setup menu as to the right. Caution If you want to change the disc format, everything recorded on the disc will be erased. Disc Protect When recording in DVD+RW / +R disc or VR mode formatted DVD-RW disc, set to ON to prevent accidental recording, editing or deleting of the disc loaded. If you need to unlock the disc to make edits, select OFF. Disc Format Finalize Disc Label Disc Protect OFF ON 27 DVR SETUP Pre-operation Setup (Continued) Finalize Finalizing fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive. Finalizing a Video mode disc creates a menu for navigating the disc. This is accessed by pressing MENU/LIST or TITLE. Caution After you've finalized a disc recording on a DVD-R, DVD-RW, or a DVD+R disc, you can't edit or record anything else on that disc except on a DVD+RW disc.

Disc Format Finalize Disc Label Disc Protect Finalize Unfinalize · The disc name can be up to 32 characters long. · For discs formatted on a different DVD Recorder, you will see only a limited number of characters. Disc Format Finalize Disc Label Disc Protect Edit 1 Follow steps 1-3 as shown Disc Format on page 27. 2 Use v / V to select the Disc Label option. move to the 3 Press B to highlighted.

third level. Edit icon is 4 Press ENTER. appears. Keyboard menu DVD-RW Alphabet Capital 1 A K U 2 B L V 3 C M W 4 D N X 5 E O Y 6 F P Z 7 G Q 8 H R 9 I S 6 (1.6) 0 J T 1 2 Use v / V to select the Finalize option.

move to 3 Press B to highlighted. the third level. Finalize 4 Press ENTER. appears. Finalize menu Finalize Do you want finalization? Ok Cancel Follow steps 1-3 as shown on page 27 (Disc Format). OK Cancel Space Delete 5 ······ Enter a name for the disc. Use v V b B to select a character then press ENTER to confirm your selection. Alphabet Capital: Switches the keyboard to upper case characters. Alphabet Small: Switches the keyboard to lower case characters. Symbols: Switches the keyboard to symbol characters.

OK: Select to finish. Cancel: Select to exit the menu. Space: Inserts a space at the cursor position. Delete: Deletes the previous character at the cursor position. b / B: Moves cursor to left or right. 5 Select Ok then press ENTER. The Recorder starts finalizing the disc. ote How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.



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