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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH XBR413. You'll find the answers to all your questions on the ZENITH XBR413 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH XBR413**  
**User guide ZENITH XBR413**  
**Operating instructions ZENITH XBR413**  
**Instructions for use ZENITH XBR413**  
**Instruction manual ZENITH XBR413**

**Installation and Operating Guide | Warranty**

Model Number | XBR413 | VCR / 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: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA. Phone: 1-847-941-8000 **SERIAL NUMBER:** The serial number is found on the back of this VCR/DVD Recorder. This number is for this VCR/DVD Recorder only.

You should record requested information here and retain this guide as a permanent record of your purchase. Model No.

Serial No. \_\_\_\_\_ **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 VCR/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 VCR/DVD Recorder 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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. . . . . 57-58 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 XBR413 Overview Recordable Discs 12cm/8cm, single-sided, single layer disc Approx. max. recording time (LP mode): 240 minutes (4.

7GB), 80 minutes (1.46GB) 12cm/8cm, single-sided, single layer disc Approx. max. recording time (LP mode): 240 minutes (4.7GB), 80 minutes (1.46GB) otes This recorder cannot record CD-R or CD-RW discs. 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.) otes on DVDs Some playback operations of DVDs may be intentionally fixed by software manufacturers.

As this VCR/DVD Recorder plays DVDs according to disc content designed by the software manufacturer, some playback features of the VCR/DVD Recorder 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 VCR/DVD Recorder. Disc-related terms Title (DVD only) The main film content or 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.



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Depending on the disc, chapters may not be labeled. Track (Audio CD only) Sections of a picture or a musical piece on an audio CD.

Each track is assigned a number, enabling you to easily locate the track you want. Playable Discs DVD (8 cm/12 cm disc) Audio CD (8 cm/12 cm disc) In addition, the VCR/DVD Recorder can play DVD±R/DVD±RW discs, CD-R/CD-RW discs that contain audio titles, MP3 files, or JPEG files and Kodak Picture CDs. *otes* 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 VCR/DVD Recorder. 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 VCR/DVD Recorder and DVDs This VCR/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 VCR/DVD Recorder can play those discs.

This VCR/DVD Recorder can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Incorrect region code. Can't playback" 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. 1 6 XBR413

Overview (Continued) About DVD-R and DVD-RW disc 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 (VR) 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 VCR/DVD 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 recording *otes* · This recorder cannot make recordings on CD-R or CD-RW discs. · Our company takes no responsibility for recording failure due to power cuts, 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. 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 · 3 different picture quality/recording time settings available (SP, LP, XP) · Not playable on regular DVD players · Recordings can be extensively edited Video mode recording · 3 different picture quality/recording time settings available (SP, LP, XP) · Playable on regular DVD players (after finalizing) · Limited editing features Many functions of this recorder are dependent on the recording mode. One or more of the symbols ( Video , VR ) appears by each function explained in this manual so that you can see at a glance whether it's relevant for the disc loaded. You can find more information on disc formats and recording modes on next page. *ote* DVD-Video Format (Video mode) is a new format for recording on 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 VCR/DVD Recorder in other players. Disc types and recording formats, modes, and settings This recorder can play three different kinds of DVD disc: pre-recorded DVD-Video discs, 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. 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 the 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. 7 INTRODUCTION XBR413 Overview (Continued) Notes for recording · The recording times shown are not exact because the VCR/DVD Recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.

· 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 24 (DISC Initialize) 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 Original (Title) 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).



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*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). 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. Copyright · Audio and video recordings you make using this recorder are for your personal use only. You may not sell, lend or rent them to other people.*

*· 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.*

*Recording TV audio channels This recorder can record one or two channel audio. For TV broadcasts, this usually means mono or stereo, but some programs are broadcast with a main and a SAP (Secondary Audio Program) audio channel. If you're recording in Video mode (or in VR mode), you can record either the main audio or the SAP audio. 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 n/a n/a Functions Playback only Playback, recording, Original/Playlist editing Playback, limited recording, limited editing Playback, limited recording, limited editing Playback only Playback only DVD-R DVD+R DVD+RW Video format Video format Video format 8 XBR413 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, benzene, or thinner, as these might damage the surface of the unit. To obtain a clear picture The VCR/DVD Recorder 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. Yes No 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 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. " " 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. 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.*

*Video DVD-R/RW with Video recording mode VR DVD-RW with VR recording mode DVD DVD-Video disc CD Audio CDs. MP3 MP3 Discs. JPEG JPEG Discs. VHS VHS Tape. 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.). 9 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 POWER button and indicator Switches the VCR/DVD Recorder ON and OFF. Lights green when the VCR/DVD Recorder is turned on. OPEN/CLOSE (Z) Opens or closes the disc tray. Disc Tray (DVD deck) Insert a disc here.*

*DVD/VCR Toggles control between the DVD deck and the VCR deck. EJECT Ejects the tape in the VCR deck. Cassette Compartment (VCR deck) Insert a video cassette here. Display window Shows the current status of the VCR/DVD Recorder. Remote Sensor Point the VCR/DVD Recorder remote control here.*

*COPY Press to copy DVD to VCR (or VCR to DVD). CH (v / V) Scans up or down through memorized channels. DV INPUT Connect the DV output of a digital camcorder. REC (z) button Starts recording. Press repeatedly to set the recording time.*

*PAUSE/STEP (X/C) Pause playback or recording temporarily/press repeatedly for frame-by-frame playback. S-VIDEO IN Connect the S-Video output of an external source (TV/ Monitor, VCR, Camcorder, etc.). AV 2 IN (VIDEO /AUDIO (Left/Right)) Connect the audio/video output of an external source (Audio system, TV/ Monitor, VCR, Camcorder, etc.).*

*STOP (x) Stops playback. BACKWARD (./m) DVD: Go to beginning of current chapter/track or to previous chapter/track. Press and hold for a fast reverse search. VCR: Rewinds the tape during the STOP mode or for fast reverse picture search.*

*PLAY (N) To play back a disc or tape. FORWARD (M/>) DVD: Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search. VCR: Advances the tape during the STOP mode or for fast forward picture search.*



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*10 Function Display Window Indicates when the recorder is in timer recording or a timer recording is programmed. REC The recorder is recording. PRG Programmed playback active TTL Indicates current title. Indicates a disc is inserted in the DVD deck. Indicates a VHS tape is inserted in the VCR deck. Indicates a DVD-RW disc (VR mode only) is inserted in the DVD deck.*

*CHP/TRK Indicates current chapter or track number TV The vcr/dvd recorder's functions are available and channels are selected at TV. REPEAT Indicates Repeat mode. Character indicators Indicates clock, total playing time, elapsed time, remaining time, title number, chapter/track number, channel, etc. SAP Indicates when a SAP BILINGUAL broadcast is being received. COPY Indicates that a DVD to VCR (or VCR to DVD) copy is in progress. Indicates when the VCR/DVD Recorder is locked. Hi-Fi Indicates when the VCR/DVD Recorder is playing or recording a tape in Hi-Fi. ST Indicates a stereo broadcast is being received. SP, SLP, LP, XP Indicates the current Recording mode. 11 INTRODUCTION Disc type indicators Indicates the type of disc loaded. Remote Control Overview POWER Turns VCR/DVD Recorder ON and OFF. OPEN/CLOSE, EJECT - Opens and closes the disc tray. - Ejects the tape in the VCR deck. TV/VCR To view channels selected by the VCR tuner or by the TV tuner. COPY Press to copy DVD to VCR (or VCR to DVD). DVD Select the VCR/DVD Recorder's function mode to DVD. CLEAR Removes a mark on the Marker Search menu. VCR Select the VCR/DVD Recorder's function mode to VCR. TITLE Displays the disc's Title menu, if available. INPUT Changes the input to use for recording (Tuner, AV1, AV2, or DV IN). DISC MENU / LIST Accesses menu on a DVD disc. Switches between Original and Playlist editing in VR mode. 0-9 numerical buttons Selects numbered options in a menu. Selects TV's channel. SETUP Accesses or removes the Setup menu. TV Control Buttons POWER: Switches TV ON and OFF. Input: Selects the TV's source. CH +/-: Selects TV's channel. VOL +/-: Adjusts TV's volume. MUTE: Turns on or off TV sound.*

*TV DISPLAY Accesses On-Screen Display. Displays information while viewing a TV program. REC MODE Selects the recording mode: - DVD : SP, LP, or XP. - VCR : SP or SLP. RETURN (O) Exits or returns to previous screen in Setup menu. b B v V (left/right/up/down) Selects menu options. CH/TRK(v/V) Selects channels in VCR mode. Manually adjusts tracking. TIMER REC Displays Timer Record menu. REC (z) Starts recording. Press repeatedly to set the recording time. ENTER Confirms menu selections. PAUSE/STEP (X) Pause playback or recording temporarily, press again to exit pause mode. press repeatedly for frame-by-frame playback. BACKWARD / FORWARD (m/M) - DVD: Search backward or forward. - VCR: Rewinds/Advances the tape during the STOP mode, for fast reverse/ forward picture search. PLAY (N) Starts playback. SKIP (. / >) Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track. STOP (x) Stops playback or recording. CHP ADD Inserts a chapter marker when playing/ recording a DVD-RW disc in VR mode. AUDIO Selects an audio language (DVD) or an audio channel. THUMBNAIL Selects a thumbnail picture for the current title for use in the Original (Title). SUBTITLE Selects a subtitle language. ANGLE Selects a DVD camera angle, if available. REPEAT Repeat chapter, track, title or all. A-B Repeats sequence between two points (A and B) ZOOM Enlarges DVD video image. MARKER Marks any point during playback. SEARCH Displays Marker Search menu.*

*LOCK The Lock feature disables the front panel buttons to prevent children from tampering with the VCR/DVD Recorder. Simply press LOCK on the remote control to toggle this feature on and off. LOCK Locks/unlocks front panel buttons. RANDOM Plays tracks in random order. 12 Rear Panel ANT.IN Connect the VHF/UHF/CATV antenna to this terminal. AV 1 IN (VIDEO /AUDIO (Left/Right)) Connect the audio/video output of an external source (Audio system, TV/Monitor, VCR, Camcorder). A/V OUT (VIDEO, AUDIO L/R) Connect to a TV with video and audio inputs. COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) Connect to a TV with Y Pb Pr inputs. AUDIO OUT (Left/Right) Connect to a TV or other equipment with audio inputs. AC Power Cord Plug into the power source. COAXIAL (Digital Audio out jack) Connect to digital (coaxial) audio equipment. S-VIDEO OUT Connect to a S-Video Input on TV. OPTICAL (Digital Audio out jack) Connect to digital (optical) audio equipment. RF.*

*OUT (DVD/VCR OUT) Connect to a TV with RF coaxial inputs. Caution Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the VCR/DVD Recorder. 13 INTRODUCTION Connections ips Depending on your TV and other equipment you wish to connect, there are various ways you could connect the VCR/DVD 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 of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to Optional Equipment" on page 16. Caution Make sure the VCR/DVD Recorder is connected directly to the TV. Tune the TV to the correct video input channel. Do not connect the VCR/DVD Recorder's AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect your VCR/DVD Recorder via your VCR. The DVD image could be distorted by the copy protection system. 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 VCR/DVD Recorder.*

*Use the supplied round coaxial cable to connect between the VCR/DVD Recorder's OUT TO TV 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.) Cable Service With Cable Box If a converter is required in your cable system, follow the instruction below: The cable hookup permits both TV and VCR/DVD Recorder operation. To view or record a CATV channel 1 Tune the TV to the correct video input channel. 2 Set the VCR/DVD Recorder channel selector to the output channel of the Cable Converter box using CH (v / V) or number (0-9) of your VCR/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 Auto Channel Set as indicated on page 18. Connecting Antenna/Cable TV to VCR/DVD Recorder Cable TV Wall Jack Back Panel of Typical Cable Box 1 Disconnect the antenna leads from the rear of the TV.*



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of your antenna.

If it is 2 Identify the type of 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 Recorder. 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 VCR/DVD Recorder, it just slips over the jack. Antenna Cable TV Wall Jack Flat Wire (300 ohm) 300/75 ohm Adaptor (Not supplied) Rear of VCR/DVD Recorder OR Rear of VCR/DVD Recorder 14 Connections (Continued) Connecting to a TV Make one of the following connections, depending on the capabilities of your existing equipment. S-Video connection 1 RF coaxial connection Connect the RF.OUT jack on the VCR/DVD Recorder to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied (R). If you use this connection, tune the TV to the VCR/DVD Recorder's RF output channel (CH 3 or 4).

How to set the VCR/DVD Recorder's RF output channel When the VCR/DVD Recorder is turned off, press and hold CH (v/V) on the front panel for about five seconds to change the RF output channel (CH 03 or CH 04). "RF 03" or "RF 04" appears in the display window. the Left and Right AUDIO jacks 2 Connect the TV Recorder to audio OUT(A). from the VCR/DVD the left/right jacks on using the cables Component Video (Color Stream®) connection 1 Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the VCR/DVD Recorder to the corresponding in jacks on the TV using an Y Pb Pr cable (C). the Left and Right AUDIO jacks 2 Connect the TV Recorder to audio OUT(A). from the VCR/DVD the left/right jacks on using the cables Progressive Scan (Color Stream® pro) connection If your television is a high-definition or "digital ready" television, you may take advantage of the VCR/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 VCR/DVD Recorder. Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the VCR/DVD Recorder to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C). Audio/Video connection 1 Connect the VIDEO OUT jack on the VCR/DVD Recorder to the video in jack on the TV using the video cable (V). AUDIO 2 Connect the Left and Right audio OUT jacks from the VCR/DVD Recorder to left/right jacks from the TV using the audio cables (A).

Rear of TV ANTENNA INPUT S-VIDEO INPUT VIDEO INPUT AUDIO INPUT COMPONENT/PROGRESSIVE VIDEO INPUT the Left and Right AUDIO OUT 2 Connect the TV Recorder to supplied audio jacks from the VCR/DVD the audio left/right jacks on using the cables (A). Set Progressive Scan option to "ON" in the General menu, see page 20. Progressive Scan does not work with the RF, Audio/Video or S-Video connections. L R Pr Pb Y R S V A C Rear of VCR/DVD Recorder 15 DVR HOOKUP Connect the S-VIDEO OUT jack on the VCR/DVD Recorder to the S-Video in jack on the TV using the S-Video cable (S). Connections (Continued) Connecting to Optional Equipment 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 on the VCR/DVD Recorder to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables (A). Rear of VCR/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) O A X 1 2 Connect one of the VCR/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. You will need to activate the recorder's digital output. (See "AUDIO" on page 21). OPTICAL DIGITAL INPUT L R COAXIAL 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 VCR/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. 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 VCR/DVD Recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this VCR/DVD Recorder to a DTS compatible receiver via one of this VCR/DVD Recorder's digital audio outputs. 16 Connections (Continued) Accessory Audio/Video (A/V) Connections to VCR/DVD Recorder Connect the AV 1 IN or AV 2 IN jacks on the VCR/DVD Recorder to the audio/video out jacks on your accessory component, using optional audio/video cables. If you use the S-VIDEO IN jack on the front panel, the VIDEO jack on the front panel is not available.

Connecting a Digital Camcorder DVR HOOKUP Using the front panel DV IN jack, 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 Digital Camcorder to the front panel DV IN jack of this VCR/DVD Recorder. This jack is for connection to DV equipment only. It is not compatible with digital satellite tuners or D-VHS video decks. DV Digital Camcorder DV IN/OUT Front of VCR/DVD Recorder 17 Before Operation Initial Settings 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. 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.



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Tuning Band Auto Channel Set CH. Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting TV CATV Prev. Select Auto Channel Set This VCR/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. Preparation: Connect the VCR/DVD Recorder to the desired type of antenna or cable TV system, as shown in "Connecting Antenna/Cable TV to VCR/DVD Recorder" on page 14 General Operation 1 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 to select the desired setting 6 Use vENTERrequire additional steps. then press to confirm your selection. Some items Press SETUP. The Setup menu appears.

1 Press SETUP. appears. The Setup menu 2 Use v / V to select the GENERAL option. 3 While thetoGENERAL option is selected, press B to move the second level. 4 Use v / V to select the Auto Channel Set option.

5 Press B to move to the third level. to begin the channel search. 6 Press ENTERautomatically cycle throughthem in The tuner will all available channels in the area and place Start icon is highlighted. the tuner's memory. Tuning Band Auto Channel Set Stop 7 Press SETUP to exit the Setup menu. GENERAL Tuning Band Select CH. Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting 11% 1 2 Use v / V to select the GENERAL option. 3 While thetoGENERAL 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.

to select 6 Use v / Vthen pressthe tuning band option (TV or CATV) ENTER. Press SETUP. The Setup menu appears. Prev. Select ote After the Auto Channel Set proceeding is complete, make sure the Tuning Band is set appropriately (TV or CATV) on tuning band, follow steps 1~6 as shown previous (Tuning Band Select) to choose the correct Tuning Band (TV or CATV). TV: If you are using a standard antenna to receive channels. CATV: If you are using basic cable to receive channels. 18 Before Operation (Continued) To Add or Erase Channels from Memory This feature allows you to add to or erase channels from memory manually. as shown above 1 Follow steps 1-3Channel Set). to the previous page (Auto 2 Use v / V to select the CH. Add/Del option. 3 Press B to move to the third level. 4 Press ENTER. menu appears. The Channel Edit Edit icon is highlighted.

7 The Auto option is set at the factory. In the Auto option, the VCR/DVD Recorder looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time. Use v / V to choose your Time Zone. You can set your local Time Zone manually. When Timezone is set to Auto, the VCR/DVD Recorder will use XDS information to determine the proper setting. Add Ch. 2 0-9 Input Daylight 8 Use B /toVchoose the Auto, On,Savings option. Use v to choose or Off. Delete Return Use v V or buttons to 5 to add /Deletenumberhighlighted. select a channel or delete then press ENTER. Add or icon is ENTER to confirm your 9 Press SETUP to exit the Setupsetting, then press menu. ote You can turn Daylight Savings On or Off manually. When it is set to Auto, the VCR/DVD Recorder will use XDS information to determine the proper setting. 6 Press ENTER to confirm your setting.

7 Repeat steps 5-6 to add or erase additional channels. Auto Clock Set If your local TV station does not send date and time information, or sends incorrect information, you can set the clock manually. Manual Clock Set steps 1-5 1 FollowClock Set).as shown above to the left (Auto /V to select 2 Use v ENTER. the Manual option then press Tuning Band Auto Channel Set CH. Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting Year Date Auto Manual 2003 1/ 1 The VCR/DVD Recorder gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the VCR/DVD Recorder to set up the clock when the VCR/DVD Recorder is turned off. The Clock Set feature is set to Auto at the factory. In the "Auto" setting, the VCR/DVD Recorder looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.

Tuning Band Auto Channel Set CH. Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting Time Zone Daylight Savings Time 12 : 00 AM Select 3 Enter the necessary information for date and time. Auto Manual Auto Auto Select 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 4 Press SETUP to exit the Setupsetting, then press menu. Prev. 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the GENERAL menu. 3 While thetoGENERAL menu is selected, press B to move the second level.

Use v / V to select the Clock option. 4 19 DVR HOOKUP 5 Press B to move to the third level. 6 Use v / V to select the Auto option then press ENTER. Before Operation (Continued) TV Aspect Ratio 4:3 Letter Box: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture. 4:3 Pan Scan: 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. 16:9 Wide: Select when a 16:9 wide TV is connected. Tuning Band Auto Channel Set CH.

Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting 4:3 Letter Box 4:3 Pan Scan 16:9 Wide Tuning Band Auto Channel Set CH. Add/Del Clock TV Aspect Ratio Progressive Scan Prev. Select Factory Setting SET Factory Setting If you wish, you can reset the VCR/DVD Recorder to its original factory settings. Select "SET" then press ENTER. The Initialize menu will appear. Use the b B buttons to select "Yes" and press ENTER. ote Some options cannot be reset. (Movie Rating, Password and Country Code) Progressive Scan Progressive Scan Video provides the highest quality pictures with less flickering. · If you are using the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks, but are connecting the VCR/DVD Recorder to a standard (analog) television, set Progressive Scan to OFF. · If you are using the COMPONENT/PROGRESSIVE SCAN 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 Auto Channel Set CH. Add/Del Clock TV Aspect Ratio Progressive Scan Factory Setting OFF ON Prev. Select LANGUAGE Display Menu Select a language for the Setup menu and on-screen display. Display Menu DISC Menu DISC Audio DISC Subtitle English Prev. Select Prev. Select Disc Language Select a language for the disc's Menu, Audio, and Subtitle. Original : The original language set for the disc is selected.



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*Other* : To select another language, select *Other* option then press ENTER. Use the numbered buttons to key-in the corresponding 4-digit number according to the language code list on page 53. If you enter the wrong number, press *b* repeatedly to delete one by one and correct it.

*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 VCR/DVD Recorder. First, remove the disc in the VCR/DVD Recorder. Next, press STOP (x) 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. Display Menu DISC Menu DISC Audio DISC Subtitle Original English French Spanish Italian Japanese Chinese Other Prev. ---Select 20 Before Operation (Continued) AUDIO Each DVD disc has a variety of audio output options. Set the VCR/DVD Recorder's Audio Output according to the type of audio system you use. Sampling Freq. (Frequency) If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz.

When this choice is made, this VCR/DVD Recorder 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. When 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 when connected to a 2-channel digital stereo amplifier. The VCR/DVD Recorder's digital audio outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital recording system. Bitstream: Select when connected 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 Prev. Select DRC (Dynamic Range Control) Prev.

Select DTS OFF: The DTS signal will not be output from the DIGITAL AUDIO OUT jack. Bitstream: Select when connected to a DTS decoder (or an amplifier or other equipment with a DTS decoder). Dolby Digital DTS MPEG Sampling Freq. DRC Vocal OFF Bitstream 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. Dolby Digital DTS MPEG Sampling Freq. DRC Vocal OFF ON Prev. Select Prev.

Select MPEG PCM: Select when connected to a 2-channel digital stereo amplifier. The VCR/DVD Recorder's digital audio outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the MPEG1, or MPEG2 recording system. Bitstream: Select when connected to an MPEG decoder (or an amplifier or other equipment with an MPEG decoder). Dolby Digital DTS MPEG Sampling Freq. DRC Vocal PCM Bitstream 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. Dolby Digital DTS MPEG Sampling Freq. DRC Vocal OFF ON Prev. Select 21 DVR HOOKUP Before Operation (Continued) LOCK (Parental Control) Movie 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 alternative scenes. Movie Rating Password Country Code Unlock Level 8(Adult) Level 7 Level 6 Level 5 Level 4 Level 3 Level 2 Level 1(Kid Safe) Select 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 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. ENTER to confirm rating 8 Presspress SETUP to exityourmenu.

selection, then the Set Password Changing the 4-digit code Prev. 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the LOCK option. While the LOCK option is selected, press B to 6 Enter a 4-digit password using the numbered buttons to create a personal 4-digit security 3 move to the second level. password. Use v / V to select the Movie Rating option. 4 7 Enter the 4-digit password again. 5 Press B to move to the third level. ip When you have not entered a password yet.

If you enter the wrong number, press *b* repeatedly to 6 Entertoa create a password using the numbered but- delete password numbers one by one then correct it. 4-digit tons personal 4-digit security password. Enter the 4-digit password again to confirm. When you have already entered a password; Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password. ip If you enter the wrong number, press *b* repeatedly to delete password numbers one by one then correct it. 1 Follow steps 1-3 as shown above to the left (Movie Rating). 2 Use v / V to select the Password option. 3 Press B to move to the third level. 4 Follow step 6 as shown above to the left (Movie Rating). "Change" is 5 Whileisselect "Delete"selected, press ENTER.

passIf you then press ENTER. The word deleted. 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 5-digit number "21019". The message appears on the TV screen. 3 Select "Yes" then press ENTER. The 4-digit password is cleared. Enter a new code as shown above. Movie Rating Password Country Code Change New Delete Password 0-9 Input 7 Select a rating from 1 to 8 using the v / V buttons.

One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. Unlock: If you select Unlock, Parental Control is not active. The disc will play in full. Prev.

Select 22 Before Operation (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 54.). Movie Rating Password Country Code U S DISC Record Mode VCR Record Mode DV Record Audio Auto Chapter VR Mode SP Video Mode SP RECORD DISC Record Mode DVR HOOKUP You can set the picture quality for DVD recording; SP (Standard quality), LP (Low quality), XP (High quality).



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Prev. Select 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. not entered password yet. 6 When you have personal using a the numbered but Enter 4-digit password tons to create a 4-digit security password. Enter the 4-digit password again. When you have already entered a password; Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password. ip If you enter the wrong number, 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 RECORD option. 3 While the to RECORD option is selected, press B to move the second level. Use v / V to select the DISC Record Mode Set 4 option. 5 Press B to move to the third level. 6 Use b / B to select the VR Mode or Video Mode. v 7 Use LP, / V to select a desired DISC Record Mode (SP, or XP) Press ENTER to confirm your selection, then 8 press SETUP to exit the menu. VCR Record Mode You can set the picture quality for VCR recording; SP (Standard Play), SLP (Super Long Play). DISC Record Mode VCR Record Mode DV Record Audio Auto Chapter SP SLP 7 Select the first character using the v / V buttons.

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. Prev. Select 23 Before Operation (Continued) DV Record Audio You need to set this if you have a camcorder using 32kHz/12-bit sound connected to the front panel DV IN jack. Some digital camcorders have two stereo tracks for audio.

One is recorded at the time of shooting; the other is for overdubbing after shooting. On the Audio 1 setting, the sound that was recorded while shooting is used. On the Audio 2 setting, the overdubbed sound is used. DISC Record Mode VCR Record Mode DV Record Audio Auto Chapter Audio 1 Audio 2 DISC Initialize DISC Finalize DISC Name DISC Protect Start DISC DISC Initialize · If you load a blank DVD-R disc, it will always be initialized in Video mode, which allows the disc to be played in most standard DVD players. · If you load a blank DVD-RW disc, you will be prompted to initialize the disc in Video mode (for maximum compatibility) or VR mode (to enable advanced editing features).

· If you load a DVD-RW that has already been used, you can change between Video mode and VR mode by erasing the disc using the DISC Initialize feature.

Prev. Select Auto Chapter During recording (Video mode only), chapter markers are added automatically at fixed intervals. You can set this interval to 3 minutes, 5 minutes or 10 minutes. To turn off automatic chapter marking, select "Not Use". Prev. Select DISC Record Mode VCR Record Mode DV Record Audio Auto Chapter Not Use 3 Min 5 Min 10 Min 1 Press SETUP. appears. The Setup menu 2 Use v / V to select the DISC option. the DISC option is 3 While to the second level.

selected, press B to move 4 Use v / V to select the DISC Initialize option. B 5 Press iconto move to the third level. Start is highlighted. Press ENTER. 6 Disc Initialize menu appears. Disc Initialize Select mode. VR Mode Prev. Select Video Mode 7 Use b / B to select a desired DISC Initialize Mode (VR Mode or Video Mode) then press ENTER. 8 Use b / B to select OK, and press ENTER. 9 Press ENTER.

Caution If you want to change the disc format, everything recorded on the disc will be erased. It takes a few moments to initialize the disc. 24 Before Operation (Continued) DISC 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 screen for navigating the disc. This is accessed by pressing DISC MENU or TITLE.

Caution Once you have finalized a DVD-R disc, you cannot edit or record anything else on that disc. However, you can record and edit a DVD-RW disc by choosing Unfinalize. DISC Initialize DISC Finalize DISC Name DISC Protect Finalize Unfinalize DISC Protect When recording in VR mode, set to ON to prevent accidental recording, editing or erasing of the disc loaded. If you need to unlock the disc to make edits, select OFF. DISC Initialize DISC Finalize DISC Name DISC Protect OFF ON Prev.

Select Prev. Select 1 Follow steps 1-3 as shown under DISC Initialize. 2 Use v / V to select the DISC Finalize option. move to 3 Press B to highlighted. the third level. Finalize 4 Press ENTER. appears. Finalize menu Finalize Do you want to finalize the disc? OK Cancel press ENTER. 5 Select OK then Recorder starts finalizing the disc. The VCR/DVD ote Finalization can take up to 3-4 minutes depending on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

ips If you load a DVD-RW that has already been finalized on a different DVD Recorder, you can 'Unfinalize' it by choosing Unfinalize from the Finalize menu. After doing this, you can edit and re-record onto the disc. You cannot unfinalize a DVD-R disc. 25 DVR HOOKUP Before Operation (Continued) DISC Name Use the DISC Name feature to enter a name for the disc. This name appears when you load the disc and when you display disc information on-screen. · The disc name can be up to 32 characters long. · For discs formatted on a different DVD Recorder, you will see only a limited character set. DISC Initialize DISC Finalize DISC Name DISC Protect Edit You can also use the remote control to enter DISC Names: SKIP (. / >): Moves the cursor left or right. PLAY (N): Inserts a space at the cursor position.

PAUSE/STEP (X): Deletes the character to the right of the cursor position. STOP (x), CLEAR: Deletes the character to the left of the cursor position. 0-9: Enters the character corresponding to the selected column. DISC MENU/LIST, DISPLAY: Switches the keyboard type (English/Latin Capital, English/Latin Lowercase, Symbols). Choose OK then press ENTER to fix the name and return to the DISC menu.

Prev. Select 1 Follow steps 1-3 as shown DISC Initialize on page 24. 2 Use v / V to select the DISC Name option. move to the 3 Press B to highlighted. third level.

Edit icon is 4 Press ENTER. appears. Keyboard menu DVD-VR Language 1 A K U 2 B L V 3 C M W 4 D N X English/Latin Capital 5 E O Y 6 F P Z 7 G Q 8 H R 9 I S 0 J T 6 7 Press SETUP to exit the menu. Space Delete OK Cancel the disc. Use v select 5 Enter a name for press ENTER to V b B to your a character then confirm selection. · English/Latin Capital: Selects a keyboard with uppercase characters. · English/Latin Lowercase: Selects a keyboard with lowercase characters. · Symbols: Selects a keyboard with all symbols. · OK: Confirms the name you have entered. · Cancel: Deletes all characters and exits the Keyboard menu.



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