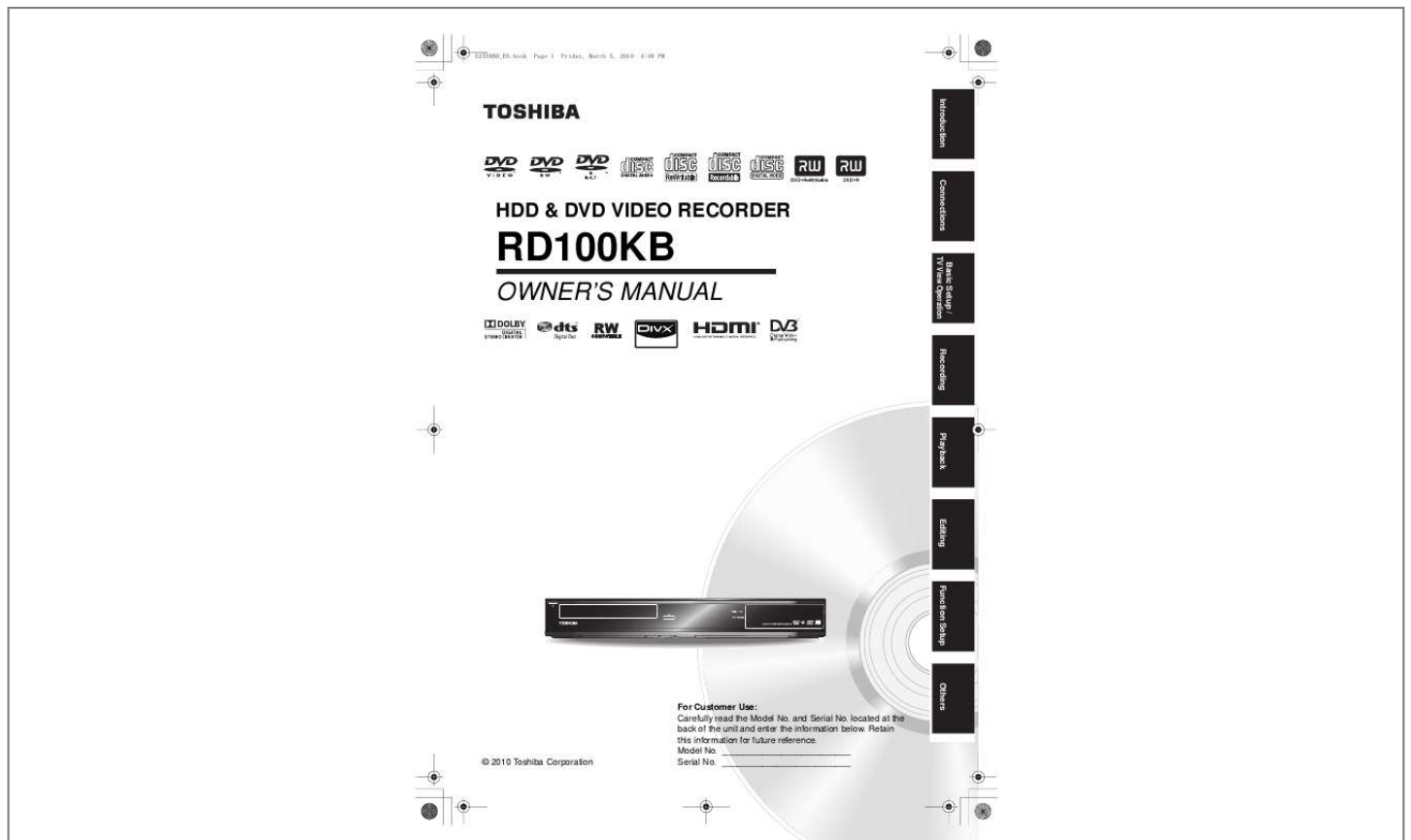




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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA RD-100-KB. You'll find the answers to all your questions on the TOSHIBA RD-100-KB in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TOSHIBA RD-100-KB
User guide TOSHIBA RD-100-KB
Operating instructions TOSHIBA RD-100-KB
Instructions for use TOSHIBA RD-100-KB
Instruction manual TOSHIBA RD-100-KB



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Manual abstract:

located at the back of the unit and enter the information below. Retain this information for future reference. Model No. _____ Serial No. @@@@NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The important note is located on the rear of the cabinet. Laser Safety This unit employs a laser. Only qualified service personnel should remove the cover or attempt to service this unit, due to the possibility of eye injury. CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. @@To operate the unit, press [B ONSTANDBY]. WARNING: LIVE PARTS INSIDE. DO NOT REMOVE ANY SCREWS.

Caution 1. Do not attempt to open the cabinet. There are no parts inside you can service. Refer all servicing to qualified service personnel. 2.

@@@3. Keep the unit away from radiators and other heat sources. 4. Avoid use near strong magnetic fields. 5. Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock. 6. To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus. 7. Do not stand the unit vertically.

Use the unit in a horizontal (flat) position only. 8. Before attempting to operate the unit, make sure that the timer recording mode is off. 9. This product is in Stand-by mode when turned off while the mains cable is connected. The front panel display will not light up. This is a Power Saving Mode (ECO) for standby.

10. Do not place any combustible objects on the device (candles, etc.).

11. Before moving the unit, be sure to remove any media and unplug the mains cable from the AC outlet. 12. Disconnect the mains plug to shut off the unit, if you suspect a fault has developed, or if it will not be used for an extended period. 13.

The mains plug shall remain readily operable. 14. Read the instruction manual, and QSG to ensure correct and safe installation and interconnection of the unit in multimedia systems. 15. Keep a distance of 20 cm around the ventilation openings of the apparatus.

A NOTE ABOUT RECYCLING This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations. This product consists of materials which can be recycled and reused if disassembled by a specialised company. 2 EN E2TE0BD_EN.book Page 3 Friday, March 5, 2010 4:49 PM Following information is only for EU-member states: The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product. Following information is only valid EU-member States: Disposal of batteries and/or accumulators The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste. If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the Pb, Hg, Cd product. Make your contribution to the environment!!! · Exhausted batteries do not belong in the dustbin. · You can dispose of them at a collection point for exhausted batteries or special waste. · Contact your council for details. Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death. Important As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. No connection is to be made to the earth terminal of the plug. If a 13 Amp (BS 1363) Plug is used, a 5 Amp Fuse must be fitted, or if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.

Mains Supply: 220 - 240 V~ 50 Hz - AC only Do not make any connection to the larger pin marked with the letter "E" or by the symbol or coloured green or green and yellow. FUSE BROWN (Live) CORD GRIP Introduction Introduction Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Playback Playback Editing TV Operation BLUE (Neutral) OUTER SHEATH OF THE WIRE Installation Location For safety and optimum performance of this unit: · Install the unit in a horizontal and stable position. · Keep the unit away from electronic equipment such as an amplifier, TV, etc. to prevent warping, damage, fire and malfunction. · Do not place anything directly on top of the unit. · Shield the unit from direct sunlight and keep away from sources of intense heat. Avoid dusty or humid locations. Avoid locations with insufficient ventilation for suitable heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields. Avoid the Hazards of Electrical Shock and Fire · Do not handle the mains cable with wet hands. · Do not pull on the mains cable to disconnect it from the AC outlet. Grasp it by the plug. · If, by accident, water is spilled on the unit, unplug the mains cable immediately and take the unit to an authorised service centre for servicing. Editing Function Setup Function Setup Functions Connection to Power Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. Mains Cord This appliance may be fitted with a non-rewireable plug.



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..... 5 Guide to the Owner&appear at the beginning of each operating item. Symbol HDD DVD-V Video Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation Description Available to (internal) HDD Available to DVD-videos Available to DVD-RW discs in video mode Available to DVD-RW discs in VR mode Available to DVD-R discs in video mode Available to DVD+RW discs Available to DVD+R discs Available to audio CDs Available to video CDs Available to CD-RW/-R discs and USB device with MP3 files Available to CD-RW/-R discs and USB device with JPEG files Available to DVD-RW/-R, DVD+RW/+R, CD-RW/-R discs and USB device with DivX® files (DivX® files in USB device are not guaranteed.) DVD-RW VR DVD-RW DVD-R DVD+RW DVD+R CD VCD MP3 JPEG DivX ® Symbols for Tuner Setting and Recording The following is the description for the symbols for tuner setting used in this manual. ANALOG DVB : Settings only for the analogue mode : Settings only for the DVB mode Editing Function Setup Function Setup Functions Others Others EN 7 E2TE0BD_EN.book Page 8 Friday, March 5, 2010 4:49 PM Media for Recording / Playing Media Type Logo Automatically Format Can be formatted in VR or video mode formatted in video mode Video Mode Icon Video DVD-RW DVD-R DVD+RW DVD+R HDD Automatically formatted in +VR mode Automatically formatted in +VR mode VR Mode VR DVD-RW 480 min (12 cm) 144 min (8 cm) DVD-RW 480 min (12 cm) 144 min (8 cm) DVD-R 480 min (12 cm) 144 min (8 cm) 1×-16× Ver. 2.0/2.1 Playable on most DVD players. Finalisation necessary. (Title menu will be created) DVD+RW 480 min (12 cm) 144 min (8 cm) 1×-4× Playable on DVD+RW compatible players. Finalisation recommended. (Title menu will be created) DVD+R 480 min (12 cm) 144 min (8 cm) 1×-16× Playable on most DVD players.



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Finalisation recommended. (Title menu will be created) HDD 545 hrs (with SLP mode) Maximum Record Time 1x-6x Recordable/Playable Ver. 1.1/1.2 Versions Ver. 1.1/1.2 CPRM compatible Playable on most DVD players. Compatibility Finalisation necessary. (Title menu will be created) Available Features Recording Features Record TV Programmes Reuse by Deleting the Current Contents Record 16:9 Size Pictures Record Copy-once Programmes Create Chapters at Fixed Intervals (auto chapter) Editing Features Scene Delete Edit Title Name Create Chapters Wherever You Like (chapter mark) Divide a Title Combine Titles Hide Chapters Delete a Title Deleting Selected Titles Create a Playlist Protect a Title Playable only on VR mode compatible unit. Finalisation recommended. * Playlist Original Playlist Original : Available * CPRM compatible disc only. DVD players with Grey: Not available are capable of playing DVD-RW recorded in VR mode.

8 EN E2TE0BD_EN.book Page 9 Friday, March 5, 2010 4:49 PM Introduction Introduction Discs for Playing Disc Type Logo DVD-VIDEO CD-DA Video CD CD-RW CD-R Icon DVD-V Files for Playing CD VCD CD CD Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation Type of title Icon MP3 JPEG DivX® MP3 CD-RW/-R USB device JPEG CD-RW/-R USB device DivX® Media CD-RW/-R DVD-RW/-R DVD+RW/+R USB device (not guaranteed) is a trademark of DVD Format/Logo Licensing Corporation. · ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video. · ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-onDemand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD. · DivX Certified® to play DivX® video, including premium content. · Media containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit. Following discs are recommended for good recording quality and are proven to be compatible with this unit. However, depending on the media condition the unit may not read the disc properly. Verbatim JVC Maxell SONY TDK DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 2x DVD-RW 4x DVD+R 4x/8x/16x, DVD-R 8x/16x DVD+R 4x/8x/16x, DVD+RW 4x DVD+R 4x/8x/16x Performance of any other discs are not guaranteed. · Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this unit, including, without limitation, any one of the following: · Failure to record contents intended to be recorded by the consumer. · Failure to edit contents as intended by the consumer. · When a DVD-RW/-R, DVD+RW/+R disc created on this unit is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive. · When a DVD-RW/-R, DVD+RW/+R disc that is used in the manner described in the immediately preceding bullet point is used again in this unit. · When a DVD-RW/-R, DVD+RW/+R disc that was recorded in another DVD recorder, or in a personal computer drive is used in this unit. · Some functions may not work with personal computer discs. · Discs recorded in this unit may not operate as expected on other DVD players, recorders or personal computer drives. Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot guarantee that product will play every feature of every DVD bearing the DVD logo and/or every CD bearing the CD logo. As one of the creators of DVD technology, Toshiba DVD players are manufactured using the highest standards of quality, and as a result, such incompatibilities are rare. Unplayable Discs The following discs will not play back on this unit. · CD-ROM · Compact Disc-Interactive (CD-I) Video Single Disc (VSD) · DVD-ROM DVD-audio · Unfinalised disc DVD or CD contains Windows Media™ Audio files DVD-RW/-R recorded in non compatible recording format Blu-ray Disc · HD DVD Editing Function Setup Function Setup Functions On the following disc, the sound may not be heard.

· Super audio CD - Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard. Colour Systems This unit uses the PAL system. However, it is also possible to play back DVDs using other colour systems, such as NTSC. Region Codes This unit has been designed to play DVD with region 2. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit. The number inside the globe refers to region of the world. 2 Others Others EN 9 E2TE0BD_EN.book Page 10 Friday, March 5, 2010 4:49 PM Functional Overview Front Panel 1*2 2 3*1 4 5 6 7 8 9 10*1 11 17 16 15 14 13 12 You can also turn on the unit by pressing these buttons. Press to turn on the unit, or to turn the unit into the standby mode.

(To completely shut down the unit, you must unplug the AC power cord.) 1 2 3 4 5 6 7 8 9 B ONSTANDBY button*2 Disc tray A OPEN/CLOSE button*1 Infrared sensor window Display ("Off" in standby) HDMI indicator HDD mode indicator DVD mode indicator C STOP button 10 11 12 13 14 15 16 17 B PLAY button*1 I REC button DV IN jack (AV4) AUDIO input jacks (AV3) VIDEO input jack (AV3) USB input jack DVD button HDD button Button names described in the Owner's Manual The instructions in this manual are described mainly with the operations using the remote control. Some operations can be carried out using the buttons on the front panel. Rear Panel 12 1 2 3 4 5 34 5 6 7 8 6 7 8 9 AV2 (DECODER) socket HDMI OUT jack AV1 (TV) socket Mains cable 9 ANTENNA IN ANTENNA OUT AUDIO OUT (DIGITAL COAXIAL) jack AUDIO OUT (ANALOG L/R) jacks COMPONENT VIDEO OUTPUT jacks

Note · Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. · After turning off the unit, leave the mains cable plugged for about one minute. Otherwise it may cause data loss or the unit may not work properly. · This unit does not have an RF modulator. 10 EN E2TE0BD_EN.book Page 11 Friday, March 5, 2010 4:49 PM Remote Control 19 1* 2 20 21 3 22 4 5 6 7 8 9 10 11 12* 13 14 15 16 17 18 30 31 32 33 34 35 36 37 38 23 24 25 26 27 28 29 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 OPEN/CLOSE A button (DVD)* INPUT SELECT F button Number buttons SETUP button TEXT button VARIABLE REPLAY button TOP MENU button Direction K / L / O / 1 buttons DISPLAY button RED/GREEN/YELLOW/BLUE button REV E button PLAY B button* SKIP H button PAUSE F button TIME SLIP button (HDD) DUBBING button SUBTITLE button AD (Audio Description) button HDMI button B ON/STANDBY button PROG.



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G\H buttons TIMER PROG. button INFO C button CLEAR button GUIDE button VARIABLE SKIP button DISC MENU button ENTER/OK button RETURN/BACK button FWD D button STOP C button SKIP G button HDD button DVD button REC I button REC MODE button SAT.LINK button (HDD) AUDIO D button Introduction Introduction Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation Editing Function Setup Function Setup Functions Button names described in the Owner's Manual The instructions in this manual are described mainly with the operations using the remote control. Some operations can be carried out using the buttons on the front panel. The unit can also be turned on by pressing these buttons. Others Others EN 11 E2TE0BD_EN.book Page 12 Friday, March 5, 2010 4:49 PM Installing Batteries in the Remote Control Install 2 R6 (1.5 V) batteries (supplied) into the remote control, carefully match with the polarity indicated inside the battery compartment. Switching HDD / DVD mode You must select which component you want to operate first. Press [HDD] or [DVD] on the remote control or the front panel.

Device select indicators 1 2 3 indicator Caution · Incorrect use of batteries can result in hazards such as leakage and bursting. · Do not mix new and old batteries together. · Do not use different kinds of batteries together. · Make sure that the plus (+) and minus (-) ends of each battery match the indications inside the battery compartment. · Remove batteries if the equipment will not be used for a month or more. · When disposing used batteries, please comply with governmental regulations or the public instructions for environmental protection that apply in your country or area. · Do not recharge, short-circuit, heat, burn or disassemble batteries. button HDD button DVD button HDD Press [HDD] on the remote control or the front panel. (Verify that the HDD indicator is lit in blue.) DVD About the Remote Control · Make sure there is no obstacle between the remote control and the remote control sensor on the unit. · Use within the operating range and angle as shown. Press [DVD] on the remote control or the front panel. (Verify that the DVD indicator is lit in green.) Within about 7 m 7 m (30°) 7m 7 m (30°) · The maximum operable range as follows: Line of sight: approximately 7 m Either side of centre: approximately 7 m within 30 degrees · Remote control operation may become unreliable if the remote control sensor of the unit is being exposed by the strong sunlight or fluorescent light. · Remote controls for different devices can interfere with each other.

Be careful when using remote controls for other equipment located close to the unit. · Replace the batteries when the operating range of the remote control reduces. 12 EN E2TE0BD_EN.book Page 13 Friday, March 5, 2010 4:49 PM Guide to On-Screen Displays DISPLAY Menu HDD DVD With a disc inserted into the unit, press [DISPLAY] to display the on-screen display. The on-screen display shows information about what is recorded on the disc.

Press [DISPLAY] repeatedly while the display menu is displayed to display the following information. <Title / File Name Information> Title name information Introduction Introduction Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation 5 6 T 1/ 5 C 1/ 5 0:01:00 / 1:23:45 8 1 -RW VR ORG 2 1 BBC1 3 (only when DVD+RW/+R, VR mode DVD-RW, unfinalised video mode DVD-RW/-R disc or HDD is in playback) File name information (only when MP3/JPEG/DivX® files is in playback) 7 4 DVD SP 1:53 <MP3 Tag Information> (only when MP3 file is in playback) Title name information This is an example screen for explanation. Displayed items vary depending on the actual mode. 1 2 3 4 5 6 Indicates a disc type and format mode. (DVD mode only) Indicates a type of titles for HDD and VR mode DVD-RW disc. Indicates a channel number, station name (analogue channel only) or selected external input mode. Indicates a media, recording mode and possible recording time left. Indicates the current title number/total number of titles, the current chapter number/total number of chapters, and time lapse of the current title playback/total duration of the title. Each icon means: : Search : Audio : Subtitle : Angle : Repeat : Marker : Noise Reduction : Zoom : Surround Artist name information Album name information <HDMI Information> Editing Function Setup Function Setup Functions (only for the images output through the HDMI output) 1 2 3 7 8 Indicates an operation status. Indicates the component in use.

: HDD : DVD : USB device Indicates the resolution of the HDMI output image. Indicates the HDMI video format. Indicates the HDMI audio format. · " - - " will be displayed, when it does not have any information. Note · For some descriptions on this manual, only one disc type is indicated as an example. Others Others EN 13 E2TE0BD_EN.book Page 14 Friday, March 5, 2010 4:49 PM INFO Menu DVB Press [INFO C] while viewing a DVB programme to display the programme information. General Setting 3 2 1 13 Channel 4+1 English 4 11:53 Mon 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 General Setting Playback Display Video Recording Clock Channel DivX HDMI DVB Setting Reset All Parental Lock Audio Out Disc Menu Language Audio Language Subtitle Language Angle Icon Still Mode Variable Skip/Replay TV System 6 5 1 2 3 4 5 6 NOW: Castle Stereo AD Sub Entertainment NEXT: Burning Questions 11:23 - 12:20 27 min left 12:20 12:25 Audio language Channel number Channel name Current time and day Next programme information Current programme information Playback: [E Page 67] Display: [E Page 69] Video: [E Page 70] Recording: [E Pages 30-32, 38, 44] Clock: [E Page 70] Channel: [E Pages 20-26] DivX: [E Pages 48, 71] HDMI: [E Page 71] DVB Setting: [E Page 72] Reset All: [E Page 72] The window will automatically exit after 4 seconds, or press [RETURN/BACK] to exit. While the window appears, press [INFO C] again to display more information. Press [RETURN/BACK] to exit. DVB Setting General Setting Playback Display Video Recording Clock Channel DivX HDMI DVB Setting Reset All Main Menu Press [SETUP] to display the main menu. Then use [K\L] to select a menu and press [ENTER/OK] to display the sub menu. Press [RETURN/BACK] to return to previous screen. Setup General Setting Timer Programming Title List DVD Menu HDD Menu Dubbing DISC Playback Mode USB Playback Mode Adult Lock Language About 1 2 3 1 2 3 Adult Lock: [E Page 72] Language: [E Page 72] About: [E Page 72] · is displayed when a disc with CD-DA/VCD/MP3/JPEG is inserted.



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· is displayed when a USB flash memory with MP3/JPEG is plugged.

14 EN E2TE0BD_EN.book Page 15 Friday, March 5, 2010 4:49 PM Introduction Introduction Timer Programming To programme a timer recording. [E Page 33] Title List To call up the title list. [E Page 57] DVD Menu DISC Playback Mode Audio CD / video CD DISC Playback Mode 1 2 3 1 2 3 Random Play Programme Play PBC (Video CD only) Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation DVD Menu 1 Format 2 Finalise Disc Protect OFF ON 3 Delete All Playlists 4 1 Format (DVD-RW, DVD+RW only): [E Pages 30, 31] Random Play: [E Page 54] Programme Play: [E Page 55] PBC (Video CD only): [E Page 50] CD-RW/-R with MP3 / JPEG files 2 3 4 Finalise: [E Page 43] Disc Protect (VR mode DVD-RW, DVD+RW/+R disc only): [E Page 43] Delete All Playlists (VR mode DVD-RW disc only): [E Page 62] HDD Menu 4 5 1 6 4 5 6 DISC Playback Mode Music Photo Random Play Slide Show Music (MP3 files): [E Page 54] Photo (JPEG files): [E Pages 54, 55] Slide Show: [E Page 55] USB Playback Mode HDD Menu 1 2 3 1 2 3 USB Playback Mode Delete All Titles Delete All Unprotected Titles Delete All Playlists 1 2 1 2 Music Photo Random Play Slide Show Delete All Titles: [E Page 63] Delete All Unprotected Titles: [E Page 63] Delete All Playlists: [E Page 62] Dubbing Music (MP3 files): [E Page 54] Photo (JPEG files): [E Pages 54, 55] Dubbing 1 HDD DVD DVD HDD Editing Function Setup Function Setup Functions 1 Dubbing menu: [E Page 42] Others Others EN 15 E2TE0BD_EN.book Page 16 Friday, March 5, 2010 4:49 PM Front Panel Display

Guide 1 2 3 DTV DB 4 1 DTV indicator : Appears when the channel is in digital mode.

: Appears when a disc is in this unit. DB : 4 Appears during dubbing. 2 Title / Track and Chapter number : : Title / track number Chapter number Displays the following Playing back time Current title / chapter / track / file number Recording time / remaining time Clock Channel number One-touch Timer Recording (OTR) remaining time Selected HDMI video resolution 3 Current status of the unit Appears when playback is paused. Appears during step by step playback. B: Appears when playing back an HDD or disc. FB: Appears during slow forward / reverse playback. : Appears when the timer programming or Onetouch Timer Recording (OTR) is set and operating. Appears when the unit goes into the satellite link standby or recording mode. Flashes when timer programming and satellite recording was not executed because of some error. I: Appears during recording.

Flashes when recording being paused. F: Note · Except when satellite recording is in standby, front panel display stays off while the power is off. This is a new Power Save (ECO) feature. Display Messages The disc tray is opening. Appears when HDMI video resolution (480p) is selected. Appears when HDMI video resolution (576p) is selected. Appears when HDMI video resolution (720p) is selected. Appears when HDMI video resolution (1080i) is selected.

Appears when HDMI video resolution (1080p) is selected. The PBC function of the video CD is activated.

The disc tray is closing. A disc is loading. Data is being recorded on a disc. Appears when the satellite link recording is in standby. 16 EN E2TE0BD_EN.book Page 17 Friday, March 5, 2010 4:49 PM Introduction Introduction Connections Connecting to a TV Connect the unit to a TV after considering the capabilities of your existing equipment. · When changing the "Video Out" setting ("SCART (RGB)", "Component (Interlace)" or "Component (Progressive)"), connect to the corresponding jack on the TV. If the setting is changed, for example, to "Component (Interlace)" or "Component (Progressive)" while the scart cable is connected to the TV, a distorted video signal may be output. Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation Before installation, unplug your TV and this unit Cable Signal Antenna or Using the COMPONENT VIDEO OUTPUT Jacks and the AUDIO OUT (ANALOG L/R) Jacks If your TV has component video input jacks, use a component video cable and an audio cable (to connect the AUDIO OUT (ANALOG L/R) jacks). When using this type of connection, "Video Out" setting should be set to "Component (Progressive)" or "Component (Interlace)".

Refer to "Video Out" on page 70. · Component connection provides the better quality picture. Audio IN Component video IN Y PB/CB PR/CR To Aerial jack RF cable (not supplied) 1 RF cable (supplied) 2 2 Audio cable (not supplied) 1 Component video cable (not supplied) 1 Connect the antenna or cable to the ANTENNA IN jack of this unit. 2 Connect the ANTENNA OUT jack of this unit to the Aerial jack of your TV. Using the Scart socket Audio/video cable (not supplied) 1 Connect the COMPONENT VIDEO OUTPUT jacks of this unit to the component video input jacks of your TV. 2 Connect the AUDIO OUT (ANALOG L/R) jacks of this unit to the analogue audio input jacks of your TV. Scart cable (not supplied) Editing Function Setup Function Setup Functions Scart/RCA cable (not supplied) Scart adaptor (not supplied) · After you have made the connections, set the "Video Out" setting. (See page 70.) Selecting Progressive Scan (576p/480p or Interlaced 576i/480i) Playback · If your TV is compatible with progressive scanning (576p/ 480p), connect the TV to the COMPONENT VIDEO OUTPUT jacks of this unit and set "Video Out" setting to "Component (Progressive)" in "Setup" menu. (See page 70.

) Next, set your TV to the progressive scan mode. · If your TV is not compatible with progressive scan, set "Video Out" setting to "Component (Interlace)". · Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type. · Only component and HDMI connections are compatible with the Progressive Scan. Connect AVI (TV) Scart socket of this unit to the Scart socket of your TV. Note · If your TV does not have a Scart socket, use a Scart/RCA cable to connect. · Connect this unit directly to the TV. If the AV cables are connected to a VCR, pictures may be distorted due to the copy protection system. Others Others EN 17 E2TE0BD_EN.book Page 18 Friday, March 5, 2010 4:49 PM Using an HDMI Compatible Port [HDMI CONNECTION] · HDMI outputs the video / audio signals without converting to analogue signals. · No audio connections is required. · Use the HDMI cable (commercially available) for connection.



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· Connect the HDMI output jack of this unit to the HDMI input jack of TV. HDMI cable (not supplied) To HDMI input jack Note · Because HDMI is an evolving technology, it is possible that some devices with an HDMI input may not operate properly with this unit. · When using an HDCP-incompatible display device, the image will not be viewed properly.

· Among the devices that support HDMI, some devices can control other devices via the HDMI connector; this unit can be controlled by another device via the HDMI connector. · The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) may be limited by the device that is connected. · Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with device such as this unit, audio signals are not output from the HDMI output connector. · When this unit's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI conversion cable, the signals are output in digital RGB.

· If the connected equipment is not compatible with HDMI BITSTREAM, DTS sound will not be output. · When the power failure occurs, or when you unplug the unit, some problems in the HDMI setting might occur. Please check and set the HDMI setting again. this unit HDMI IN TV Selecting HDMI video resolution Press [HDMI] to select the HDMI video resolution. The video resolution changes as follows every time [HDMI] is pressed. 576p (PAL) / 480p (NTSC) 720p 1080i 1080p (An HDMI video resolution that is not supported by the display device will be skipped.) Actual Output Modes by Media Dolby Digital / DTS / Audio recording format of MPEG setting of this the disc unit PCM Dolby Digital Stream PCM LPCM Stream DVD-video ON DTS® OFF PCM MPEG Stream PCM Dolby Digital Stream PCM DivX® MP3 Stream PCM MP2 Stream Actual output 2 channel PCM Dolby Digital 2 channel PCM DTS® 2 channel PCM MPEG 2 channel PCM Dolby Digital 2 channel PCM 2 channel PCM MPEG For audio CD, video CD and MP3 files, 2 channel PCM will be output regardless of the "Dolby Digital" setting. If the connected device is not compatible with HDMI BITSTREAM, audio will be output as PCM even if you select "Stream" in "Dolby Digital" setting. (See page 68.) Copyright protection system To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display device (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system).

HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV amplifier) for more information. * HDMI: High Definition Multimedia Interface 18 EN E2TE0BD_EN.book Page 19 Friday, March 5, 2010 4:49 PM Introduction Introduction Connecting to External Equipment This unit has four input terminals. Press [INPUT SELECT F] repeatedly to select the external input mode, then press [PROG. G \ H] repeatedly to select AV1, AV2, AV3 or DV(AV4). Be sure that all the units are switched off before making connections. Note · When connecting an external device of monaural output to this unit, use AUDIO L jack of AV3. Digital Audio for Better Sound Quality Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation Dolby Digital decoder, DTS decoder or MPEG decoder, etc.

Digital audio input jack COAXIAL Recording from a DVD player, Satellite Box or other Audio-Video equipment with a Scart output socket (AV2) AV output jack (Scart) Scart cable (not supplied) Coaxial cable (not supplied) DIGITAL COAXIAL AV2 (DECODER) Note · When you record a TV programme from a Satellite Box / decoder, you must connect a Scart cable to AV2 (DECODER). (See page 37.) · The signal from the external device will be output automatically when the TV is connected to AV1 and the external device is connected to AV2 using a Scart cable with its power on. (However, it will not be output when this unit's power is turned off.) If you want to monitor this unit's signal, press [DISPLAY] or turn the external device off.

(The signal from this unit can only be monitored during playback.) If you want to monitor the signal from other input, press [DISPLAY], then press [INPUT SELECT F] to select the desired external input mode, then select the desired input channel using [PROG. G \ H]. The connections illustrated above are optional for better sound For clear digital sound quality, use the AUDIO OUT (DIGITAL COAXIAL) jack to connect your digital audio equipment. 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. Connecting a Dolby Digital™ decoder, DTS decoder or MPEG decoder · Connecting multi-channel Dolby Digital decoder allows you to enjoy the Multi-channel Dolby Digital surround system as well as DTS decoder, Multi-channel surround system. · After connecting to a Dolby Digital decoder, set "Dolby Digital" to "Stream" in "Audio Out" menu. (See page 68.) · After connecting to a DTS decoder, set "DTS" to "ON" in "Audio Out" menu. (See page 68.) · After connecting to a MPEG decoder, set "MPEG" to "Stream" in "Audio Out" menu. (See page 68.) Recording from a camcorder or other Audio-Video equipment with no Scart output socket (AV3/DV(AV4)) Connect to AUDIO input jacks on the front panel using an RCA audio cable. Connect to VIDEO input jack on the front panel using an RCA video cable. When connecting a DV-camcorder, use DV input jack of DV(AV4) (Front).

AV3/DV(AV4) (Front) Editing Function Setup Function Setup Functions Connecting to an MD deck or DAT deck · The audio source recorded in Dolby Digital Multi-channel surround format cannot be recorded using an MD or DAT deck as a digital sound. · If not connected to a Dolby Digital decoder, set "Dolby Digital" to "PCM" in "Audio Out" menu. Playing back a DVD using incorrect settings may generate noise distortion and damage speakers. · Set "Dolby Digital" and "MPEG" to "PCM" and set "DTS" to "OFF" in "Audio Out" menu for connecting to an MD or DAT deck. · You can use AUDIO OUT (ANALOG L/R) jacks for the connection of your audio system. Others Others Video cable (not supplied) Audio cable (not supplied) DV cable (4-pin) (not supplied) VIDEO OUT AUDIO OUT DV OUT EN 19 E2TE0BD_EN.book Page 20 Friday, March 5, 2010 4:49 PM Basic Setup / TV View Operation Initial Setting When you turn on this unit for the first time, you need to follow these steps.



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Also you can customize the memorised channel at "General Setting". Refer to following pages for details. · Refer to "Manual Tuning (ANALOG)" on page 21. · Refer to "Manual Tuning (DVB)" on page 22. · Refer to "Skip a Preset Channel" on page 22. · Refer to "Move" on page 22. 1 2 3 Press [B ONSTANDBY].

Turn the TV on.

Select the input to which the unit is connected. Select your desired tuning type according to your area using [K\L], then press [ENTER\OK]. Auto Tuning Make sure the antenna is connected to "ANTENNA IN" jack. Digital tuning Digital & Analog tuning Analog tuning Selecting the TV Aspect Ratio Use this feature to adjust the aspect ratio of the video source which is different from your TV's ratio to fit your TV monitor without distorting the picture. 1 2 3 In stop mode, press [SETUP].

@@Select "Video" using [K\L], then press [ENTER\OK]. Select "TV Aspect" using [K\L], then press [ENTER\OK]. TV Aspect Video Out The unit will start getting channels available in your area. Digital tuning: Only the DVB channels receivable in your area are automatically scanned and memorised. Digital & Analog tuning: Both analogue and DVB channels receivable in your area are scanned and memorised automatically. Analog tuning: Only the analogue channels receivable in your area are automatically scanned and memorised. · If no channel has been memorised, the antenna confirmation display will appear. Press [ENTER\OK] to start auto scanning again or press [RETURNBACK] to cancel the initial settings. 4 Select the desired option using [K\L], then press [ENTER\OK]. 5 Press [SETUP] to exit.

Note If you have a standard TV: · Select "4:3 Letter Box" for a full width picture with black bars at the top and bottom. · Select "4:3 Pan & Scan" for a full height picture with both sides trimmed. If you have a wide screen TV: · Select "16:9 Wide". 4 After finishing channel setting, "Clock Setting" will appear.

Clock Setting 01 / 01 / 2010 (FRI) 0 : 00 · The current date and time will appear automatically. · If the current date and time are correct, press [RETURNBACK] to exit, if they are incorrect, press [ENTER\OK] and follow to "Clock Setting" on page 70. Channel Setting You can retune this unit or edit the channel setting with following methods. Note · After "Initial Setting", if you need to unplug the mains cable, make sure to turn off the power first and leave it in standby mode for at least 1 minute before attempting to unplug. Otherwise, it may cause data loss. If you want to set each item of "Initial Setting" again, you can set them at "General Setting".

· Refer to "Auto Tuning (DVB & ANALOG)" on this page. · Refer to "Auto Tuning (ANALOG)" on page 21. · Refer to "Auto Tuning (DVB)" on page 22. · Refer to "Clock" on page 70. Auto Tuning (DVB & ANALOG) DVB ANALOG Programme the tuner to scan both analogue and DVB channels you can receive in your area.

1 2 In stop mode, press [SETUP]. "General Setting" menu will appear. Select "Channel" using [K\L], then press [ENTER\OK]. 20 EN E2TE0BD_EN.book Page 21 Friday, March 5, 2010 4:49 PM 3 Select "Auto Tuning (DVB & ANALOG)" using [K\L], then press [ENTER\OK].

The unit will start storing channels available in your area. General Setting Playback Display Video Recording Clock Channel DivX HDMI DVB Setting Reset All · If you are using a satellite receiver, or a cable box, turn it on and select SKY NEWS before commencing tuning. If the SKY NEWS channel is not available to you, choose another channel that you can recognise easily, and move this reception to preset 6 after the automatic tuning has finished. Instructions on page 22 explain how to move channels. Introduction Introduction Auto Tuning (DVB & ANALOG) DVB Channel Setup ANALOG Channel Setup Manual Tuning (ANALOG) ANALOG You can preset an analogue channel manually and individually. Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation 1 Wait for several minutes to finish channel storing. In stop mode, press [SETUP].

@@Select "Channel" using [K\L], then press [ENTER\OK]. Select "ANALOG Channel Setup" using [K\L], then press [ENTER\OK]. Select "Manual Tuning" using [K\L], then press [ENTER\OK].

Select "Position" using [K\L], then press [1]. Position Channel Decoder Skip 1 1 OFF ON 4 2 3 4 5 Press [SETUP] to exit. You can select only the channels memorised in this unit by using [PROG. G\H]. To cancel auto tuning Press [SETUP] during scanning. Note · The number of TV channels you can get is different depends on your local area. · If the auto tuning is cancelled during scanning, some channels not yet tuned may not be received. Auto Tuning (ANALOG) ANALOG Programme the tuner to scan only the analogue channels you can receive in your area. 6 Select the position number you want to use using [the Number buttons] or [K\L], then press [0]. · You can select position number 1-99.

· With [the Number buttons], press "0" first to enter a single digit number. 1 2 3 4 In stop mode, press [SETUP]. @@Select "Channel" using [K\L], then press [ENTER\OK]. Select "ANALOG Channel Setup" using [K\L], then press [ENTER\OK]. Select "Auto Tuning" using [K\L], then press [ENTER\OK]. The unit will start storing channels available in your area. 7 8 Select "Channel" using [K\L], then press [1]. Press [K\L] to start scanning. · The tuner will begin to search up or down automatically. When a channel is found, the unit will stop searching and the picture will appear on the TV screen.

· You can select a desired channel number using [the Number buttons]. Refer to the following Channel Plan table and press the three digits to select the channel number. (To select channel 4, press [0] first and then press [0] and [4]. Or press [4] and then "4" appears and wait for 2 seconds.) · If desired channel is found, press [0]. Channel Plan CH Indication TV Channel 1 10 IRA - IRJ, GAP 21 69 E21 E69 74 78 X, Y, Z, Z+1, Z+2 80 99, 100 S1 S20, GAP 121 141 S21 S41 This unit can receive the Hyper and Oscar frequency bands. · If you want to decode scrambled signals, select "Decoder" using [K\L], then press [1]. Select "ON" using [K\L], then press [0]. · If "Skip" is set to "ON", select "Skip" using [K\L], then press [1].



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Select "OFF" using [K\L], then press [0].

· To store another channel, repeat steps 5 to 8. Editing Function Setup Function Setup Functions Wait for several minutes to finish channel storing. 5 Press [SETUP] to exit. You can select only the channels memorised in this unit by using [PROG. G\H]. To cancel auto tuning Press [SETUP] during scanning. Note · The number of TV channels you can get is different depends on your local area. · If the auto tuning is cancelled during scanning, some channels not yet tuned may not be received. · Sorting of TV channels from 1 to 6 will be performed automatically as follows. 1: BBC1 2: BBC2 3: ITV 4: CH4 5: CH5 6: SKY NEWS Others Others 9 Press [SETUP] to exit.

EN 21 E2TE0BD_EN.book Page 22 Friday, March 5, 2010 4:49 PM Skip a Preset Channel ANALOG You can set the unit to skip channels. You can no longer receive or watch when you access channels using [PROG. G\H]. The tuner scans and memorises all the active DVB channels (TV / Radio) in your area.

Channel Search S.No. TV Channel 14 13 32 28 75 34 E4 More4 Film4+1 ITV4 CITV SETANTA SPORT S.No. Radio Channel 102 Teletext Cars 729 RadioMusicShop 728 Heart 1 2 3 4 5 6 Follow steps 1 to 4 in "Manual Tuning (ANALOG)" on page 21.

Select "Position" using [K\L], then press [1]. Select the position number using [the Number buttons] or [K\L], then press [0]. Select "Skip" using [K\L], then press [1]. Select "ON" using [K\L], then press [0]. · To skip another channel, repeat steps 2 to 5. Press [SETUP] to exit. Channel 69 UHF Progress 858000KHz/8M 100% RETURN Back OK Exit 5 Press [ENTER\OK] to exit. · After auto tuning is completed, the lowest memorised DVB channels appears on the screen. · You can use [PROG. G\H] to change the DVB channels.

Move ANALOG You can replace two channels. Note · If you press [RETURNBACK] or [SETUP] during the scanning, auto tuning will be cancelled. 1 2 3 4 5

In stop mode, press [SETUP]. @@Select "Channel" using [K\L], then press [ENTER\OK]. Select "ANALOG Channel Setup" using [K\L], then press [ENTER\OK]. Select "Move" using [K\L], then press [ENTER\OK]. Select the position number to change the channel using [K\L], then press [ENTER\OK]. You cannot select a position number where " " appears next to the number, because "Skip" is set to "ON" for that position number. Manual Tuning (DVB)

DVB You can preset a DVB channel manually and individually. 1 2 3 Follow steps 1 to 3 in "Auto Tuning (DVB)" on this page.

Select "Manual Tuning" using [K\L], then press [ENTER\OK]. Select your desired position number using [K\L], then press [ENTER\OK]. Channel Auto 6 7 Move the channel to another position number using [K\L], then press [ENTER\OK]. · To move another channel, repeat steps 5 to 6. Press [SETUP] to exit.

· The tuner will begin to search up or down automatically. When a DVB channel is found, the unit will stop searching. · When "Auto" is selected, the unit will search for the channels which have not been stored in channels memory. 4 Press [SETUP] to activate the setting. Auto Tuning (DVB) DVB You can programme the tuner to scan only the DVB channels that you can receive in your area.

Service Update DVB This unit has "Service Update" function which searches and stores newly available digital channels automatically at 8:00. If a new channel is found, a message will appear on the screen when you turn on the DVB channel at first time after storing a new channel. Press any button to clear the message. 1 2 3 4 In stop mode, press [SETUP]. @@Select "Channel" using [K\L], then press [ENTER\OK]. Select "DVB Channel Setup" using [K\L], then press [ENTER\OK]. Select "Auto Tuning" using [K\L], then press [ENTER\OK]. The unit will start storing channels available in your area. 22 EN E2TE0BD_EN.book Page 23 Friday, March 5, 2010 4:49 PM Introduction Introduction Quick Select TV View Operation The following operations are available while viewing TV channels through this unit's tuner.

DVB With "Quick Select" menu, you can select your favourite DVB channel quickly. Refer to "Edit Group Lists" on page 24. Select a Channel DVB ANALOG To switch DVB, analogue and external input (AV1/AV2/AV3/DV(AV4)) mode. Press [INPUT SELECT F] repeatedly to select DVB, analogue or external input mode. The mode changes as follows: DVB mode Analogue mode External input mode 1 Press [ENTER\OK] while watching a DVB channel. · "Quick Select" menu will appear. Quick Select Group: All S.No. 2 3 4 13 19 28 29 Channel Name Channel4 ITV2 ITV3 Channel4+1 More4 ITV4 E4 Basic Setup / Basic Setup / Connections Connections TV View View Operation Recording Recording Playback Playback Editing TV Operation OK View RETURN Exit You can select external input mode (AV1/AV2/AV3/DV(AV4)) by pressing [PROG. G\H] repeatedly.

The mode changes as follows: External input mode (with [PROG. G\H] buttons) 2 Press [0\1] to select your favourite group list. ("All", "Group 1" - "Group 8") · "All" shows a list of all the memorised DVB channels. · If the favourite group does not have any channels, the group will be skipped. AV1 AV2 AV3 DV(AV4) 3 4 Select the DVB channel using [K\L], then press [ENTER\OK].

Press [RETURNBACK] to exit. You can select a channel using [PROG. G\H] or directly enter the channel using [the Number buttons]. Notes on using [the Number buttons]: · For one or two-digit number channels, the channels will be identified for 2 seconds after you press the channel number. You can only select channels 1~899 (Digital) or 1~99 (Analogue).

If you cannot get a "Station Name" of Analogue channel, it is not indicated with a channel number. Selecting the Audio Mode ANALOG You can switch between TV audio modes by pressing [AUDIO D]. Each mode is indicated on the TV screen. Audio mode during reception of analogue bilingual broadcasts: Mode Main Sub Audio output Main audio from both speakers Sub audio from both speakers Display on the TV screen Main Sub Main/Sub Editing Function Setup Function Setup Functions · Main audio from the left speaker Main / Sub · Sub audio from the right speaker · If the programme does not have more than one sound track, [AUDIO D] is not effective. Others Others EN 23 E2TE0BD_EN.book Page 24 Friday, March 5, 2010 4:49 PM Edit Channels DVB With "Edit Channels" menu, you can sort all the memorised DVB channels into the group lists ("Quick Select") or set the viewer limitation ("Adult Lock"), etc.



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