TOSHIBA

Toshiba HDD-J35 Owner's Manual

Toshiba digital high definition receiver and hdd recorder owner's manual

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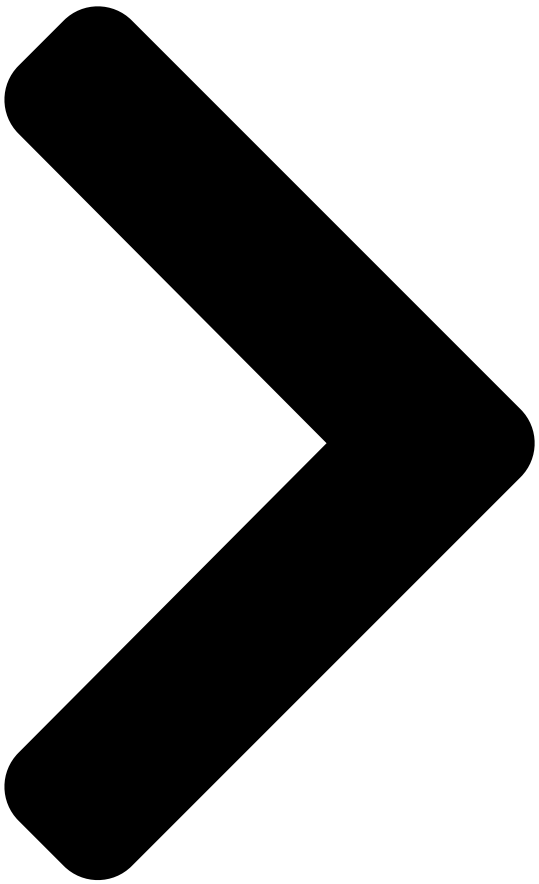

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TOSHIBA

HDD-J35

OWNER'S MANUAL

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INTRODUCTION
STARTUP GUIDANCE

DIGITAL HIGH DEFINITION RECEIVER

DVB registration identification reference number: 3253.
Trade Mark of the DVB Digital Video Broadcasting Project
(1991 to 1996)

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Related Manuals for Toshiba HDD-J35

Receiver Toshiba HD-S23 Owner's Manual

Digital high definition receiver (40 pages)

Receiver Toshiba SD-6109C Owner's Manual

Toshiba sd-6109c: user guide (69 pages)

Receiver Toshiba SA-750 Manual

Am/em stereo receiver (14 pages)

Receiver Toshiba RP-F11 Manual

11 band receiver (18 pages)

Receiver Toshiba TRX-22 Owner's Manual

Toshiba trx-22: user guide (70 pages)

Receiver Toshiba SD-43HT Brochure & Specs

Brochure (2 pages)

Receiver Toshiba SD-42HKSB Service Manual

(103 pages)

Receiver Toshiba SD-6109C Owner's Manual

(68 pages)

Receiver Toshiba Carrier RBC-AXU33UP-UL Installation Manual

Wireless receiver kit (8 pages)

Receiver Toshiba TRX-80 Troubleshooting Manual

Toshiba trx-80: supplementary guide (10 pages)

Receiver Toshiba TRX-2000 Owner's Manual

Toshiba trx-2000: user guide (56 pages)

Receiver Toshiba TRX-1800 Troubleshooting Manual

Toshiba trx-1800: install guide (11 pages)

Receiver Toshiba TRX-2220 Owner's Manual

Toshiba trx-2220: user guide (69 pages)

Receiver Toshiba TRX-2000 Troubleshooting Manual

Toshiba trx-2000: install guide (12 pages)

Receiver Toshiba TRX-1500 Owner's Manual

Toshiba trx-1500: user guide (55 pages)

Summary of Contents for Toshiba HDD-J35

Page 1 ',*,7$/ +,*+ '(),1,7,21 5(&(,9(5 $1' +'' 5(&25'(5 HDD-J35 OWNER'S MANUAL ©2005 Toshiba Corporation INTRODUCTION STARTUP GUIDANCE RECEIVING RECORDING PLAYBACK APPENDICES DVB registration identification reference number: 3253. Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

Page 2: Precautions

NOTE The rating label and the safety caution are on the rear of the unit. Changes or modifications to this equipment not expressly authorised or approved by Toshiba could void the product warranty and/or cause damage to the product. In order to continue to get the maximum performance from your recorder: •...

Page 3 DO NOT use or place the recorder in the following environments: Near heat sources • Places subject to direct sunlight • Near radiators or air ducts • On top of an amplifier Dusty

places Places subject to vibration or shock Near strong magnetic fields such as loudspeakers or large motors Places subject to moisture such as a kitchen or bathroom Places without adequate air circulation...

Page 4: Notes On Recording

When you record important contents, make trial operations beforehand to ensure the recorder can function properly. Toshiba does not compensate for content that was not recorded because of some malfunction of this product during operation, and is not liable for incidental damages (such as profit loss or interruption of business, etc.) produced in such conditions.

Page 5 Toshiba is not liable for loss of recorded content caused by malfunction or damage of the internal HDD, and is not liable for incidental damages (such as profit loss of interruption of business, etc.) produced in such...

Page 6 In order to enjoy the many features this recorder has to offer, read this owner's manual thoroughly before using. We hope that you are completely satisfied with your Toshiba Digital HD Receiver and HDD recorder and it will give you long and enjoyable service. We look forward to providing you with additional Toshiba products to serve all of your entertainment needs in the future.

Page 7: Table Of Contents

TABLE OF CONTENTS PRECAUTIONS ... 2 CHAPTER ONE ... 9 INTRODUCTION ... 9 IDENTIFICATION OF CONTROLS... 11 FRONT PANEL ... 11 REAR PANEL... 12 REMOTE CONTROL ... 14 FP DISPLAY... 16 CHAPTER TWO ... 17 STARTUP GUIDANCE ... 17 INSTALLING THE RECORDER... 18 STEP A: CONNECTIONS ...

Page 8 PARENTAL RATE (For Australia Only)...43 VIRTUAL KEYBOARD ...43 PROFILE...44 I-PLATE SETUP ...44 FP DISPLAY SETUP...45 INFORMATION ...45 PVR SETUP ...46 QUICK CONTROL ...47 INFO (I-Plate) ...47 TV/RADIO (PROGRAM LIST) ...48 EPG (Electronic Program Guide) ...48 FAV. (Favorite Channel List) ...49 PIP (Picture-in-Picture)...49 TTX (Teletext)...50 CC (Closed Caption) (For Australia Only) ...50...

Page 9: Chapter One

Chapter One INTRODUCTION Introduction Identification of Controls Front Panel Rear Panel FP Display Remote Control...

Page 10 INTRODUCTION TOSHIBA's HDD-J35 Digital High Definition Receiver and HDD Recorder is the first of its kind that can do recording and playback of digital high definition programs. With its twin Digital Tuners and built-in HDD, this latest Toshiba's digital video creation lets you embark on a true digital lifestyle.

Page 11: Identification Of Controls

IDENTIFICATION OF CONTROLS FRONT PANEL STOP button Stops playback or recording PLAY/PAUSE button Starts or pause playback REC button Starts recording Front Panel Display Refer to page 10 STANDBY/ON indicator Displays the operational state of the recorder Green LED: Recorder in power on mode; Red LED: Recorder in standby mode SIGNAL indicator ON: Signal captured;...

Page 12: Rear Panel

REAR PANEL AC IN ANT. 1 IN ANT. 2 IN RF 1 OUT RF 2 OUT L1 IN L2 IN VIDEO HD MODE 576i ONLY SERIAL PORT DIGITAL SD VIDEO OUT HD VIDEO OUT AUDIO OUT VIDEO (COAXIAL) HDMI S-VIDEO (OPTICAL) ANALOG AUDIO OUT...

Page 13 REAR PANEL...

Page 14: Remote Control

REMOTE CONTROL...

Page 15 REMOTE CONTROL STANDBY/ON button Page 27 TV FUNCTION button* SET TOP BOX button** ASPECT RATIO button VIDEO FORMAT button PIP. SWAP button Page 49 PIP button Page 49 COLOUR buttons*** Page 43, 57 and 62 CHANNEL UP/DOWN buttons EPG button Page

38, 48 and 58 RECALL button Page 53...

Page 16: Fp Display

FP DISPLAY Operation Indicator Fast Reverse or Fast Forward Skip Reverse or Skip Forward Frame Forward or Frame Reverse Playback PAUSE HDD Operation Indicator Animates when recorder is in HDD playback or recording mode else it indicates used HDD storage space HDD Storage Indicator Indicates percentage of remaining HDD storage space Timer Recording Indicator...

Page 17: Chapter Two

Chapter Two STARTUP GUIDANCE Read this chapter first to make all necessary preparations. Installing the Recorder - Connections - Preparing your remote control - Setting up your recorder Viewing programs Turning off the recorder Status display...

Page 18: Installing The Recorder

The “RF 2 OUT” provides you a RF loop-through function to receive analogue TV programs as well as digital programs (for Integrated Digital TVs only). Use an RF coaxial cable (not supplied) to connect the HDD-J35 “RF 2 OUT” terminal to TV’s or VCR’s antenna input.

Page 19 For better video quality, it is recommended that you use the HDMI cable, the Mini D-Sub 15-pin cable or the RGBHV video cable (with 5 RCA connectors). These cables are not included in the HDD-J35 package. HD MODE Switch selection is essential for several outputs. Refer to the HD MODE Switch table on page 71 for making the correct switch selection according to your output connection.

Page 20 TV. Set the HD MODE Switch (refer to page 12) to RGB, and then connect the Y/G, P recorder to the corresponding jacks on the TV. HDD-J35 HD VIDEO OUT HD MODE Note: This diagram illustrates video connections only. Refer to Page 22 for Audio connection.

Page 21 : If your TV has component video inputs, use the component video cable included in the HDD-J35 accessory box. Set the HD MODE Switch (refer to page 12) to YP connect the Y/G, P /B and P corresponding jacks on the TV.

Page 22 (f) Composite video connection : If your TV has composite video inputs, use the yellow connector of the Audio/Video cable included in the HDD-J35 accessory box. Connect the yellow video connector from “SD VIDEO OUT” on the rear of the recorder to the corresponding jack on the TV.

Page 23: Connecting To Dvd Player

A cable box, satellite box or VCR can be connected to this recorder through the Composite Video and Stereo Audio input connectors located at the back of the HDD-J35 recorder. Use a composite Audio/Video cable to connect from the Cable Box/Satellite Box/VCR’s Video/L/R output to the HDD-J35 Video/L/R input connectors.

Page 24: Connecting To Vcr (For Archiving)

A VCR can also be connected to this recorder through the Composite Video and Stereo Audio output connectors located at the back of the HDD-J35 recorder for archiving programs from the HDD. Use a composite Audio/Video cable to connect from the HDD-J35 Video/L/R output connectors to the VCR’s Video/L/R input.

Page 25: Connecting To Mains Supply

CONNECTING TO MAINS SUPPLY Plug the recorder into the mains. W all O utlet The above diagram is illustrated with an Australian power plug. In other regions, use the appropriate power plug. STEP B: PREPARING YOUR REMOTE CONTROL Loading batteries .

Page 26 Notes on batteries Improper use of batteries may cause battery leakage and corrosion. To operate the remote control correctly, follow the instructions below. Do not insert batteries into the remote control in the wrong direction. Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into fire. Batteries contain toxic substances.

Page 27: Step C: Setting Up Your Recorder

STEP C: SETTING UP YOUR RECORDER Note: If your service provider or antenna installer has already installed your TV system to receive terrestrial TV programs, do not change any connections of those devices or installation settings unless it is absolutely necessary.

Page 28

You will see the Main Menu (page 33). Press the “ ” button twice to highlight “INSTALLATION” and then press “ENTER”. When prompted, enter “0000” which is the default password. To tune the recorder, you have choices of MANUAL SETUP / AUTO SCAN / QUICK SCAN. We recommend that you use “QUICK SCAN”...

Page 29: Viewing Programs

VIEWING PROGRAMS . After you have tuned the recorder, you have several ways to navigate through all programs: − Press the “CHANNEL NUMBER” or “CHANNEL UP/DOWN” buttons to select a program of your interest. − Press the “TV/RADIO” button to call up the “Program List” (page 48) and select a program of your interest.

Page 30: Status Display

STATUS DISPLAY Each time you operate the recorder, the following display appears on the TV screen to indicate the status of the recorder. List of Status Display Playback Playback Pause Stop Fast Forward (3 speeds) Fast Reverse (3 speeds) Skip Forward Skip Reverse Slow Forward (3 speeds) Slow Reverse (3 speeds)

Page 31: Chapter Three

Chapter Three RECEIVING Top Menu Menu Map Main Menu Installation − Quick Scan − Auto Scan − Manual Setup − Reset Data − Format Hard Disk − S/W Update Program − Program List − EPG System − Video Setup − Audio Setup −...

Page 32: Top Menu

TOP MENU MENU MAP Use the directional buttons to navigate through the menu, “ENTER” button to choose specific items, and “EXIT” button to return to the main menu from sub-menu or to leave the main menu. MAIN MENU page 33 PROGRAM page 38 EDIT CHANNEL...

Page 33: Main Menu

MAIN MENU There are two ways to enter the Main Menu when the recorder is powered on: On the remote control, press the “TOP MENU” button. Alternatively, press “MENU” button on the front panel. Use the directional buttons to navigate through the menu, “ENTER”...

Page 34: Quick Scan (For Australia Only)

QUICK SCAN (For Australia Only) The “QUICK SCAN” feature allows you to scan all predefined digital TV and Radio channel signals in Australia. On the installation page, highlight “QUICK SCAN” and press the “ENTER” button. Use the “ ” and “ ” buttons to highlight the city you live in and press the “ENTER”...

Page 35: Manual Setup

MANUAL SETUP On the “INSTALLATION” page, highlight “MANUAL SETUP” and press the “ENTER” button. Select channel number. Be sure you know the channel number and its RF frequency. You may refer to Digital TV and Radio channel table in Appendix 1. Press “...

Page 36: Format Hard Disk

Use the “ ” and “ ” buttons to highlight between “YES” and “NO”. Before you select “YES” , follow the steps outlined below to configure your PC first: (a) Connect PC to your HDD-J35 recorder with a crossed-over RS232 cable (cable for null modem). (b) On the PC side: Launch the HyperTerminal ®...

Page 37

Over time, Automatic Software Upgrade service will be available as broadcasters transmit new software of your recorder. It is recommended to carry out the software upgrade so that the recorder is equipped to perform better. When a new version of software for Toshiba HDD- J35 is found, an OSD appears prompting for a software upgrade.

Page 38: Program

PROGRAM MAIN MENU On the Main Menu, select “PROGRAM” Use “ ” and “ ” buttons to highlight the options PROGRAM LIST PROGRAM LIST Highlight “PROGRAM LIST” and press the “ENTER” button. This sets your current viewing mode to “Normal”. See “I-PLATE (INFO)” on page 47 for more information.

Page 39: System

SYSTEM M A IN M E N U On the main menu, select “SYSTEM”. Use the “ ” and “ ” buttons to highlight the options VIDEO SETUP AUDIO SETUP PASSWORD TIME ZONE EXT CONTROL VIDEO SETUP Highlight “VIDEO SETUP” and press the “ENTER” button.

Page 40: Audio Setup

Notes: Alternatively, you can press the “V.FORMAT” button on the remote control to change the output format as described on page 51. You can also press “A.RATIO” button on the remote control to change the aspect ratio as described on page 51 “AUTO - 1080i”...

Page 41: Time Setup

For other region: Use the “ ” and “ ” buttons to set your local time. EXT CONTROL For details of controlling the HDD-J35 recorder by an external device connected via the RS-232 serial port, consult your local dealer.

Page 42: Edit Channel

EDIT CHANNEL MAIN MENU EDIT CHANNEL On the main menu, select “EDIT CHANNEL”. Enter your password when prompted. For Australia: − Use the “ ” and “ ” buttons to highlight the options • FAVORITE&LOCK • PARENTAL RATE For other regions: −...

Page 43: Parental Rate (For Australia Only)

PARENTAL RATE (For Australia Only) You can limit the type of programs displayed on the TV based on the parental guidance codes listed in Appendix 3. By default, the “PARENTAL RATE” level is set to “No Block”, i.e. you can view all types of programs. “EDIT CHANNEL”...

Page 44: Profile

PROFILE M A IN M E N U On the main menu, select “PROFILE”. Use the “ ” and “ ” buttons to highlight the options I-PLATE SETUP FP DISPLAY SETUP INFORMATION PVR SETUP I-PLATE SETUP Highlight “I-PLATE SETUP” “ENTER” button. Use the “...

Page 45: Fp Display Setup

FP DISPLAY SETUP Highlight “FP DISPLAY SETUP” and press the “ENTER” button. Use the “ ” and “ ” buttons to choose between “MODE” and “DISP BRIGHTNESS”. Under “MODE”, use the “ ” and “ ” buttons to choose between “TIME”...

Page 46: Pvr Setup

PVR SETUP Highlight “PVR SETUP” and press the “ENTER” button. Under “INSTANT SKIP INTERVAL”, use the “ ” and “ ” buttons to choose between “30 sec”, “1 min”, “3 min” or “5 min”. This will change the instant skip interval. more information INTERVAL”, refer to page 65.

Page 47: Quick Control

QUICK CONTROL INFO (I-Plate) When watching a DTV program (without any menu on the screen), press the “INFO” button. I-PLATE will pop up with the following information: Current Channel Number Locking status (indicated by a padlock icon) Network Name Program Name Audio System (Dolby®...

Page 48: Tv/Radio (Program List)

For information on recording using EPG, refer to next chapter. Note: Toshiba does not provide EPG data; therefore, Toshiba is not liable for the content of such data. The data Note: Recorder remembers and displays the previous TV or Radio setting.

Page 49: Fav. (Favorite Channel List)

(or never be) available in your area. In any of these circumstances, the EPG feature will not function. Toshiba is not liable in the event this service is unavailable or for any consequences arising from customers having used or not being able to use this service.

Page 50: Ttx (Teletext)

Notes: 1. If you use the PIP function to view programs for purposes other than personal viewing, you may infringe on the copyrights that the programs may be under. 2. PIP is only capable of viewing off-air programs and sources from Auxiliary Input (L1/L2). Attempts to perform playback in PIP will not be permitted.

Page 51: V.format (Video Format)

V.FORMAT (Video Format) The “V.FORMAT” button on the remote control is used to change the video format setting among “576i”, “AUTO”, “1080i”, “720p”, and “576p”. button press displays the current video format Next press (within 5 seconds) sets the video format to the next format. 576i AUTO A.RATIO (ASPECT RATIO)

Page 52: Input Select

INPUT SELECT The recorder has a set of Component and Composite Video input which allows connection to external sources like the DVD player, cable box, satellite box or VCR. (For connections, refer to CONNECTING TO DVD PLAYER and CONNECTING TO CABLE BOX/SATELLITE BOX/VCR on page 23) Press the INPUT SELECT button programs.

Page 53: Audio

AUDIO Press the AUDIO button on the remote control. Use the “ ” and “ ” buttons to select the preferred audio format present in the program you are watching. Press the “EXIT” button to cancel the list. RECALL The “RECALL” button is used to toggle between present and previous programs In the case you are viewing Program A, and then you change to Program B.

Page 55: Chapter Four

Chapter Four RECORDING Recording Methods OTR (One Time Recording) Time Based Recording EPG Recording...

Page 56: Recording Methods

RECORDING METHODS With dual built in tuners, this recorder allows up to two recordings to take place at the same time. However, it is to be reminded that schedules of recordings have to be carefully planned so as to avoid any conflicts between different entries.

Page 57: Time-Based Recording

TIME-BASED RECORDING Use the REC MENU to program a recording. It will take less time to prepare, as it provides all necessary information for recording. Before recording, ensure that there is sufficient space remaining in the HDD. Delete unwanted files or archive some files using VCR to create space for recording.

Page 58: Epg Recording

Note: A conflict occurs when the start time of a new entry clashes into the duration of two existing entries occupying the same time slot or when there is an attempt to duplicate an existing entry. To stop any recording in progress: 1) Press the “REC MENU”...

Page 59

A pop-up menu appears prompting for recording frequency. Use the “ ” and “ ” buttons to select either “Once”, “Daily” or “Weekly” and press the “ENTER” button to confirm selection. (Program selected for recording will create an entry in the REC MENU list as well) If the program selected for recording results in conflict...

Page 61: Chapter Five

Chapter Five PLAYBACK Playback Controls Library Quick Controls – Time line bar – Playback • Normal Playback • Pause TV Playback • Chase Play – Playback Pause – Stop – Fast Forward (3 speeds) – Fast Reverse (3 speeds) – Skip Forward –...

Page 62: Library

PLAYBACK CONTROLS LIBRARY The Library Menu is an interface for managing all files stored inside the HDD. Operations like Playback, Delete, External Recording, Renaming and Marking are done through this menu. Press “LIBRARY” button to bring up the Library Menu. Choose between TV program tab and Radio program tab by pressing the “TV/Radio”...

Page 63: Quick Control

QUICK CONTROL TIME LINE BAR • For most playback operations, a time line bar appears at the bottom of the screen to indicate the progress. The following sections elaborate on the various playback operations showing their corresponding time line bars. PLAYBACK Normal Playback After selecting a file in the Library Menu, press the...

Page 64

Press any of the numeric buttons to skip forward a certain percentage of the program according to the number pressed. (i.e. ‘1’ – 10%, ‘9’ – 90%) Press “TIMESLIP” button again to exit this mode. The recorder stops storing the broadcast on the HDD.

Page 65: Playback Pause

PLAYBACK PAUSE • To pause playback, press the “PLAY/PAUSE” button. • To resume normal playback, press the “PLAY/PAUSE” button. Note: Sound is muted during playback pause mode. STOP • To stop playback, press the “STOP” button. FAST FORWARD/FAST REVERSE (3 SPEEDS) •...

Page 67: Chapter Six

Chapter Six APPENDICES Australian DTV Channel Table Troubleshooting Parental Guidance Codes Glossary Technical Specifications Instruction Guide For Programming Remote Control...

Page 68: Australian Dtv Channel Table

APPENDIX AUSTRALIAN DTV CHANNEL TABLE The following is a list of DTV channels available in Australia. You can use it for “MANUAL SETUP”: On the “MANUAL SETUP” page, select the VHF or UHF channel number and input the Middle Frequency based on “kHz”. For instance, if you are in Sydney and want to manually scan “Digital 7”, enter “MANUAL SETUP”...

Page 69

City Stations Batchelor Digital ABC (Continued) Digital 9 Digital 7 Digital IMPARJA Canberra Digital 10 Digital ABC Digital WIN Digital PRIME Digital SBS Darwin Digital SBS Digital ABC Digital 9 Digital 7 Newcastle Digital NBN Digital PRIME Digital 10 Digital ABC Digital SBS Wollongong Digital WIN...

Page 70: Troubleshooting

Sunshine Coast Australia, channels 47 and 65 are transmitted on 662.625 and 788.625MHz by 125kHz offset to the legitimate frequencies 662.5 and 788.5MHz. HDD-J35 can receive these channels by “AUTO SCAN” most of the time, but we suggest that you use “MANUAL SETUP”...

Page 71

On Screen Message Message (1) Bad Signal (2) Database is Empty (3) Incorrect Password (4) Program under Parental Control (5) Program Locked (6) Weak Signal HD MODE Switch Selection HD MODE Output HDMI RGB Mini D-Sub RGBHV S-Video Composite Check the antenna is connected correctly and firmly to the tuner input (ANT.IN) of the recorder.

Page 72: Parental Guidance Codes

APPENDIX PARENTAL GUIDANCE CODES...

Page 73: Glossary

4 GLOSSARY APPENDIX * Aspect Ratio: It is the ratio of the width of the screen to the height. The two relevant digital TV formats are 16:9 (wide-screen) or 4:3 (the traditional screen ratio). 16:9 is more ergonomically suitable for the human eye. * Bandwidth: It is the frequency range that allows for carrying a certain radio signal.

Page 74

For High Definition (HD), the minimum picture resolution is 720 × 576, progressive (576p) Other HD formats are 1920 × 1080i and 1280 × 720p. * UHF: Stands for "Ultra High Frequency", starts from 300 to 3000MHz corresponding to channels 13-69, including Bands IV and V.

Page 75: Technical Specifications

APPENDIX 5 TECHNICAL SPECIFICATIONS System Compliant Standard DVB-T Video Decoding MP @ ML & MP @ HL Audio Decoding Dolby® Digital, MPEG (I & II) Audio Sampling Rate 32, 44.1, 48 kHz Terrestrial Tuner / Demodulator Frequency 51~858 MHz Loop Through 51~858 MHz Bandwidth 6, 7, 8 MHz...

Page 76 Accessories • Remote Control (CT-90195)..... • Audio/Video cable..... • Component Video cable (Y/P • Power cord..... • RF Loop-through cable..... • R6 (AA size) battery..... • Owner's Manual..... × 1 × 1 × 1)..... × 1 × 1 × 2 ×...

Page 77: Instruction Guide For Programming Remote Control

INSTRUCTION GUIDE FOR PROGRAMMING REMOTE CONTROL The remote control can be compatible with various brands of TV by setting their control codes. The TOSHIBA code has initially been set to control TOSHIBA TVs. Refer to the four methods below for programming your remote control and use the one that best suits your setup.

Page 78 Point the remote control at the TV. Every 1.5 seconds, the LED blinks once and the remote control automatically sends out "POWER" button signal 5 times from the next code in the list. The test is successful if the TV responds by powering off. Press the "POWER"...

Page 79 BRAND CODE Akai 005,159,169 007,009,013,032, 094,155,161 Autovox 004,007,012,014, 015,078,079,104, Basic Line 026,160,162,163 016,019,021,253 Century 145,146,155 Chaparral Crosley 024,025,145,155, Decca(UK) 002,004,026,028, 031,258 Dumont Elman 019,029 Fenner 033,193,240 Finlux 007,008,009,013, 025,026,029,035, 094,161,169,221 France Telecom Geloso 004,019,025,032, 033,039,149,150 Gorenje 170,173 Hanseatic 025,027,037,044, 052,055,258 Hemmermann Hotel TV Inno Hit...

Page 80 Pilot (P286) Prandoni-Prince 008,032,146 Quelle 004,005,007,008, 009,010,013,026 027,028,045,050, 051,052,069,094, 153,221,231,232, 234,235,236,253 RBM(UK) 022,094 Tatung 002,004,026,028, 031,131 Teleavia Tensai 013,016,033,037, 039,178 Toshiba 022,044,094,119, ,139,141,142, Universum 094,160,221 Videocon 033,138,141,285 Watt Radio 001,003,025,029, 030,057 Yoko 004,159 Others 206,207,208,264, (Chang Hong) 141,175,281,287, ¥ ¦ 288,289 279,281 "...

Page 81 BRAND CODE A-mark Adventura Alaron Anam 419,440 Audiovox 402,423,440,450, Belcor Broksonic 402,444,451 Carnivale Cineral 423,450 Concerto Craig Daytron 406,413 Dwin 457,458 Emerson 406,413,437,438, 439,440,441,444, 446,447,451,455, 456,462,467,475, Fujitsu 408,410,424,447, 450,459,460,466 Go Video Harman Harvard Inteq Kenwood Magnavox 407,409,411,418, 425,436,439,442, 443,449,465,467 Majustic Memorex 403,420,421,428, 430,445...

Page 82 BRAND CODE Semp Signature Sony 426,461 Squareview Supreme Tandy Technika 403,406,413,418, 420,421,423,428, 439,440,442,472 Telefunken Toshiba 421,430,431,470, 471,472 Trical Victor Viking Words 403,406 Zonda BRAND CODE Sharp 413,424,432,434, 449,481,467 Silvania 407,409,411,425, Soundesign 438,439,440,442 Starlite Sylvania 418,443,448,465, Tatung 402,419,471 Technol Ace Teknika...

Page 83 BRAND CODE Aiwa (606,816,819 AOC (700,776 603,606,618,621, Changhong(633,636,648,649, 657,659,676,677, 681,682,684,685, 686,718,724,742, 744,745,765,769, 770,771,773,774, 775,788,791,798, 801,803,805,808, 816,819,825,826, 827,836,838,840, 841,843,844,846, 848,849,850,854, 900,901,908,915, 916,917 Contec/Cony 623,727 Eastern (607,649,664,676, 762,773,775,777, 781,782 Envision Funai/Fullness 623,630,737 Goldstar (606,626,678,682, 684,685,686,691, 697,700,709,714, 715,716,718,721, 800,801,803,805, 808,823,908 Hitachi (...

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