



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI P50H401A. You'll find the answers to all your questions on the HITACHI P50H401A in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HITACHI P50H401A  
User guide HITACHI P50H401A  
Operating instructions HITACHI P50H401A  
Instructions for use HITACHI P50H401A  
Instruction manual HITACHI P50H401A

**HITACHI**  
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## PLASMA TELEVISION

**Operating Guide for P42H401, P42H401A  
P50H401, P50H401A, P55H401, P42H4011  
P42H4011A, P50H4011, P50H4011A and  
P55H4011**

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**ULTRAVISION**  
**SPANISH**



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*Manual abstract:*

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... 55-64 OPERATING GUIDE IN SPANISH ..

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plasma television. 1. Read these instructions. 2. Keep these instructions. 3. Heed all warnings. 4. Follow all instructions.

5. Do not use this apparatus near water. 6. Clean only with a dry cloth. 7.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 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 2 Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to

Article 820-44 of the NEC that 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 cable entry as practical. Important Safety Instructions Power source This plasma television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable. To prevent electric shock, do not use the plasma television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure. Never connect the plasma television to 50 Hz, direct current, or anything other than the specified voltage. Caution Never remove the back cover of the plasma television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the plasma television and call your authorized dealer or service center.

Caution Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by HITACHI could void the user's warranty. Warning · To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. · The plasma television should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the television. · This apparatus shall be connected to a mains socket outlet with a protective earthing connection. Note This digital television is capable of receiving analog basic, digital basic cable television programming by direct connection to a cable system providing such programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company. Public viewing of copyrighted material Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material. This product incorporates copyright protection technology that is protected by U.S.

patents and other intellectual property rights. Use of this copyright protection technology must be authorized, and is intended for home and other limited consumer uses only unless otherwise authorized.



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Reverse engineering or disassembly is prohibited. Note · There are no user serviceable parts inside the plasma television. · Model and serial numbers are indicated on back side and right side of the plasma television.

Prevention of screen damages Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can be permanently imprinted onto your TV screen. Such "SCREEN DAMAGES" constitute misuse and are NOT COVERED by your HITACHI Factory Warranty. If still images are left on the screen for more than 2.5 minutes, protection function will work automatically so that contrast reduces to minimize image retention on plasma display panel. Please note that this is not a malfunction but it helps to minimize image retention.

The original contrast will restore after moving images are displayed for about 6 minutes. Original contrast can be restored quickly by turning power Off/On with remote control or power switch on unit. Lead Notice This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact your local government agency or [www.eRecycle.org](http://www.eRecycle.org) (in California), the Electronic Industries Alliance at [www.eiae.org](http://www.eiae.org) (in the US) or the Electronic Product Stewardship Canada at [www.epsc.ca](http://www.epsc.ca)

(in Canada). FOR MORE INFORMATION, CALL 1-800-HITACHI. 3 Accessories Check to make sure you have the following accessories before disposing of the packing material. 3 Remote Control · Two "AA" size, 1.5V batteries ζ Power Cord ˆ Wire Clamp (50" models only) First time use » Table Top Stand (50" included) » Table Top Stand (42" included) For U.S. models: For optional accessories, please access our web site at: [www.hitachi.us/tv](http://www.hitachi.us/tv) Note : The accessories for models H4011, H4011A series are similar CAUTION: 1. Note: Please visit our website for optional accessories.

as the H401, H401A series. Ceiling mounting is not recommended. Mounting the panel on the ceiling does not provide adequate ventilation for the electronics or proper support for the front glass panel. This plasma television product is designed for a maximum tilting angle of 45 degrees from vertical. 2.

This stand for use only with Hitachi P42H401, P42H401A, P50H401 and P50H401A models. The use of other apparatus is capable of resulting in instability causing possible injury. 3. The wall mount unit for the 50" and 42" models is WM07S and for the 55" models is WM07L. Please see page 7 for important information related to the wall mount.

Wall Mount unit is an optional accessory (Not Included). 3 Remote Control Unit CLU-4371UG2 (Part No HL02075 only H401 series) Remote Control Unit CLU-4372UG2 (Part No HL02076 only H4011 series) · Two "AA" size, 1.5V batteries . » Table Top Stand (UX27661 42" model) (UX27281 50" models). ζ Power Cord (P# EV01841). REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT 1. 2. 3. 4. Open the battery cover of the remote control by pushing down and sliding the back cover off.

Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out. Bottom View (Remote Control) Match the batteries to the (+) and (-) marks in the battery compartment. Insert the bottom of the battery, the (-) side, into the battery compartment first, push towards the springs and insert the top of the battery, the (+) side, into place. Do not force the battery into the battery compartment.

Replace the cover. Lift up on tab to remove back cover. ˆ Wire Clamp (50" models only) 5. CAUTION: Do not insert batteries with ˆ and ˆ polarities reversed as this may cause the batteries to swell or rupture resulting in leakage. 4 How To Set Up Your New Hitachi Plasma Television To take measures to prevent the Plasma Television from tipping over and prevent possible injury it is important to mount the unit in a stable and flat surface.

Securing to a table-top 1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma TV stand as shown below. 2. Using commercially aV. For dimensions of the WALL MOUNT assembly please refer to page 61 & 62.

STAND METAL 4 SCREWS TV STAND BASE For Model P50H401, P50H401A, P50H4011 and P50H4011A CAUTION- This Plasma Display Panel for use only with Hitachi WM07S Wall Mount. Use with other Wall Mount is capable of resulting in instability causing possible injury. For Model P55H401 and P55H4011 CAUTION- This Plasma Display Panel for use only with Hitachi WM07L Wall Mount. Use with other Wall Mount is capable of resulting in instability causing possible injury. NOTE: Use the specified WALL MOUNT unit for the Plasma TV depending on the size of your TV.

Please access our web site at: [www.hitachi.us/tv](http://www.hitachi.us/tv) for recommended accessories for your tv. 7 How to set up your new HITACHI Plasma Television SETTING FOR WALL MOUNTING ON 42" MODELS STEP (1) : Please locate the STAND METAL on the back of the TV . This metal is use to hold the TV and the Base ; so it needs to remove 6 screws from the STAND base in order to separate the TV from the Base. First time use STAND METAL STEP (2): Please remove the 2 screws of the STAND metal from the TV, then remove 4 screws that hold the TV STAND BASE; now the TV STAND can be separated from the TV. For dimensions of the WALL MOUNT assembly please refer to page 60. STAND METAL 2 SCREWS Remove these 2 screws first to separate the TV from the stand metal. Then put these 2 screws back to the TV. TV STAND BASE Remove these 4 screws to separate the TV from the stand base.

For Model P42H401, P42H401A, P42H4011 and P42H4011A CAUTION- This Plasma Display Panel for use only with Hitachi WM07S Wall Mount. Use with other Wall Mount is capable of resulting in instability causing possible injury. NOTE: Use the specified WALL MOUNT base for the Plasma TV depending on the size of your TV. Please access our web site at: [www.hitachi.us/tv](http://www.hitachi.us/tv) for recommended accessories for your tv. 8 How to set up your new HITACHI Plasma Television VIEWING The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. First time use During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room. If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area.



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Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance. R 4" Minimum 80 S BEST HORIZONTAL 10' 80 15' 20' 5' 4" Minimum L VIEWING ANGLE S ANTENNA CONNECTIONS TO REAR JACK PANEL VHF (75-Ohm) antenna/CATV (Cable TV) When using a 75-Ohm coaxial cable system, connect CATV coaxial cable to the AIR/CABLE (75-Ohm) terminal. Or if you have an antenna, connect the coaxial cable to the same AIR/CABLE terminal. AIR / CABLE VHF (300-Ohm) antenna/UHF antenna When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter.

Plug the adapter into the antenna terminal on the TV. To CATV cable To outdoor antenna or AIR / CABLE When both VHF and UHF antennas are connected Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer. To outdoor VHF or UHF antenna To UHF antenna AIR / CABLE To outdoor antenna or CATV system Antenna Mixer NOTE: Connecting a 300-Ohm twin lead connector may cause interference. Using a 75-Ohm coaxial cable is recommended.

9 Hook-up Cables and Connectors Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable. 300-Ohm Twin Lead Cable This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm). Phono or RCA Cable Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel. "F" Type 75-Ohm Coaxial Antenna For connecting RF signals (antenna or cable TV) to the antenna jack on the television. S-Video (Super Video) Cable This connector is used on camcorders, VCRs and laserdisc players with an S-Video feature in place of the standard video cable to produce a high quality picture. Optical Cable This cable is used to connect to an audio amplifier with an Optical Audio In jack.

Use this cable for the best sound quality. HDMI Cable This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection to the TV's HDMI input. First time use Stereo Cable (3.8mm plug to 3.5mm plug) Used on all standard video and audio cable which connect to inputs and outputs located on the rear jack panel and front control panel. AUDIO OUT 3.8mm STEREO MINI-PLUG 2 RCA TYPE PLUGS 10 Quick Reference Remote Control Buttons and Functions In addition to controlling all of the functions on your HITACHI Plasma TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), set-top-boxes, satellite receivers, and VCRs. The remote control must be programmed to control the chosen device. Please see pages 2331 for a complete description of all features and programming of the Remote Control. POWER BUTTON (TV, CBL, VCR, DVD, SAT) Turns the selected device on and off.

INPUTS BUTTON (TV) Accesses the INPUTS menu system. ASPECT BUTTON (TV) Changes the aspect ratio while watching TV. MENU BUTTON (CBL, DVD, SAT, TV) Accesses the OSD menu system. CURSOR/SELECT BUTTONS (TV, DVD, CBL, SAT) The CURSOR buttons are used to navigate the cursor through the OSD and INPUTS menu systems, and the SELECT button is used to Select/Activate the highlighted menu item. VOLUME BUTTONS (TV) Adjusts the audio level of your TV.

MUTE BUTTON (TV) Reduces the audio level to 50% if pressed once, and to complete mute if pressed twice. Press it a third time to restore audio level.

NUMERIC BUTTONS (TV, DVD, CBL, SAT, VCR) Used to manually enter the TV channel, and used for numeric entry when navigating through the OSD menu system. (-) BUTTON (TV, SAT) The (-) button is used when the remote is in Set-Top-Box (STB) mode or when the TV uses a digital input. RECORD BUTTON (VCR) Press twice (2 times) to record programs.

SOURCE ACCESS BUTTONS (TV, DVD, VCR, CBL, SAT) Changes the mode of the Universal Remote Control to control the device selected. DAY/NIGHT BUTTON (TV) Select picture mode settings between DAY and NIGHT mode. CC BUTTON (TV) Press to show and change the Closed Caption mode. EXIT BUTTON (TV, CBL, SAT) Exits out of the OSD or INPUTS menu systems if their menu is displayed. FAVORITE CHANNEL (FAV CH) button (TV) Press to enter/access Favorite Channel (FAV) mode. GUIDE BUTTON (SAT/STB, CBL) Accesses the program guide of other devices. First time use INFO BUTTON (TV, CBL, SAT) Displays various information on the screen. CHANNEL BUTTONS (TV, CBL, SAT, VCR) Changes the channel. LAST CHANNEL (LC) BUTTON (TV, CBL, SAT) Switches between the current and last channel viewed. DVD/VCR CONTROL BUTTONS (DVD, VCR) Controls the precode functions of your VCR and DVD.

LEGEND TV -- Television CBL -- Cable Box NOTES: VCR -- Video Cassette Recorder/Player DVD -- Digital Video Disc Player SAT-- Satellite Receiver 1. The TV's remote control sensor is located on the right bottom portion of the TV screen. To control TV functions, please point the remote control directly at the remote control sensor for best results. 11 Front Panel Controls FRONT VIEW First time use PUSH TO OPEN CONTROL DOOR FRONT PANEL

CONTROLS UPGRADE CARD (SERVICE USE ONLY) PUSH EJECT FRONT POWER button Press this button to turn the Plasma Television ON/OFF. It can also be turned ON/OFF by remote control. The "MAIN POWER" button must be at stand-by mode. MENU/SELECT button This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode. POWER button Television MAIN POWER button This power button is for the complete system, and must be turned ON/OFF manually. It is recommended to leave the "MAIN POWER" to ON condition (lights red) for stand-by mode.

The Main Power button is located on the broadside bottom, under the mark " ". HDMI-FRONT Use the front HDMI input for external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection (see page 15 for reference). INPUT/EXIT button Press this button to access the INPUT menu. Press again to exit the MENU mode. CHANNEL selector Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down ( ) and up ( ) buttons when in MENU mode. VOLUME level Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen.



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These buttons also serve as the cursor left ( ) and right ( ) buttons when in MENU mode. NOTE: When the "MAIN POWER" button is set to OFF or the TV is unplugged, the clock will stop and may eventually reset itself.

**Upgrade Card** This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card. **12 Front Panel Controls** POWER light indicator To turn the TV ON, press the main power switch located on the lower right side of the TV. A red stand-by indicator lamp located on the lower right corner of the front bezel will illuminate. The Plasma TV is now ready for remote ON/OFF operation. First time use Indicating Lamp R/C sensor Indicating Lamp Power Status Off Lights Red Lights Blue Lights Orange Blinking Blue OFF. OFF. (Stand-by) On Off (Power Saving) On Operating When the main power switch is set to Off. When the main power switch on the TV is ON.

TV MAIN POWER is ON ; picture is shown. TV MAIN POWER is ON with no signal input except antenna (no sync. signal). When TV receives the IR signal from R/C. REMOTE CONTROL sensor Point your remote at this area when selecting channels, adjusting volume, etc. INPUT-FRONT JACKS INPUT-FRONT provide composite Video jacks for connecting equipment with this capability, such as a DVD player or Camcorders. NOTES: 1. 2. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when INPUT : 1, 2, 3, Front or HDMI : 1, 2, Front is selected. Check the Power Light to make sure the TV is turned off or in Stand-by mode (lights red) when not in use.

Remote Control can not turn ON/OFF the "MAIN POWER" of the TV. **13 Rear Panel Connections** Antenna Input To switch between Cable and Air input, go to the Channel Manager option to change the signal source CABLE or AIR. First time use Audio/Video Inputs 1, 2 and 3 By using the INPUTS button, the CURSOR PAD ( and ), and the SELECT button or CURSOR PAD of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

**MONITOR OUT & AUDIO OUT** These jacks provide fixed audio and video signals (CABLE/AIR or INPUTS ) which are used for recording. Use the S-VIDEO output for high quality video output. Component signal to Input 2 and 3, and HDMI inputs will not have monitor output. Optical Out (Digital Audio) This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier. NOTE:

\*Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories. S-VIDEO Input 1 Input 1 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability. NOTE: 1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 1 , but only one of these inputs may be used at a time. 2. S-VIDEO output may be used for recording, only when the input is of S-VIDEO type. HDMI 1, 2 (High Definition Multimedia Interface)

**ABOUT HDMI** HDMI is the next-generation all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multichannel audio in a single cable. Because digital television (DTV) signals remain in digital format, HDMI assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen. Use the HDMI input for your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. NOTE: 1. The HDMI input is not intended for use with personal computers. 2. Only DTV formats such as 1080p, 1080i, 720p, 480i and 480p are available for HDMI input.

**Component: Y-PBPR** Inputs INPUTS 2 and 3 provide Y-PBPR jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs. NOTE: 1. Do not connect composite VIDEO and S-VIDEO to INPUT 1 at the same time. S-VIDEO has priority over VIDEO input.

2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input. 3. Your component outputs may be labeled Y-CBCR.

In this case, connect the component CB output to the TV's PB input and the component CR output to the TV's PR input. 4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs (see page 34). 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks and HDMI Input.

6. INPUT 2 , and 3 (Y/VIDEO) can be used for composite video and component video input. For Special AV control use only. For Factory use only. **14 Connecting External Video Sources** The FRONT panel jacks are provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, Set Top Box , Video Game as shown in the following examples (When connecting DVI signal it will need to connect the audio output into the Front Audio Input jacks) : A) Connecting HDMI signal. FRONT INPUT PANEL First time use UPGRADE CARD (SERVICE USE ONLY) PUSH EJECT Note : Special device cables will be according to the own device specifications. HDMI DIGITAL OUTPUT CAPABILITY DVD , Set Top Box, Video Game Console. B) Connecting DVI signal. FRONT INPUT PANEL UPGRADE CARD (SERVICE USE ONLY) PUSH EJECT DVI to HDMI Cable Note : Special device cables will be according to the own device specifications. DIGITAL OUTPUT OUTPUT L R Back of HDTV Set-Top-Box or DVD Player DVI DIGITAL OUTPUT CAPABILITY DVD , Set Top Box, Video Game Console.

NOTE: 1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal. **15 Connecting External Video Sources** The FRONT panel jacks are provided as a convenience to allow you to easily connect a camcorder , DVD, Video Game and a VCR as shown in the following examples: FRONT INPUT PANEL First time use UPGRADE CARD (SERVICE USE ONLY) PUSH EJECT - Note : For Monoaural devices, please connect Audio signal cable into L/Mono input jack . Note : Special device cables will be according to the own device specifications. Video OUTPUT L R Video Game COMPOSITE VIDEO OUTPUT CAPABILITY DVD , Video Game Console. Video Camera NOTE:1.

Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal. The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your Plasma TV is dependent on the model and features of each component.



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Check the owner's manual of each component for the location of video and audio inputs and outputs. The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire. Before Operating External Video Source Connect an external source to one of the INPUT terminals, then press the INPUTS button to show the INPUTS menu.

Use the CURSOR PAD ( and ) to select the Input of your choice. Then press the SELECT button or the CURSOR PAD to confirm your choice (see page 26). INPUTS HDMI 2 HDMI-Front Air / Cable Input 1 Input 2 Move SEL Sel. 16 Rear Panel Connections Outside Antenna or Cable TV coaxial cable 2-Way signal splitter First time use VCR #2 VCR #1 ANT IN OUTPUT S-VIDEO V L R S-VIDEO V LR INPUT Optional Optional HDMI to HDMI DVI to HDMI OUTPUT PB/CB PR/CR L HDMI OUTPUT DIGITAL OUTPUT AUDIO OUT Y R Y PB PR L OUTPUT R HDMI DIGITAL OUTPUT CAPABILITY HDTV Set-Top Box DIGITAL OUTPUT CAPABILITY DVD Player NOTE: Cables are optional, except when specified. 17 Tips on Rear Panel Connections · S-VIDEO, Y-PBPR, or HDMI connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature. · If your device has only one audio output (mono sound), connect it to the left audio jack on (L(MONO)) the Rear Panel. · Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables. · A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 17). Refer to your VCR operating guide for more information on line input-output connections. · Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack. · COMPONENT: Y-PBPR (Input 2 & 3) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.

· Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input. · Your component outputs may be labeled Y-CBCR. In this case, connect the components CB output to the TV's PB input and the components CR output to the TV's PR input. · It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs. (See page 34). · To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR and HDMI input jacks. · Input HDMI 1, HDMI 2 or HDMI FRONT can accept HDMI signal. · S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type. · When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080p, 1080i or 720p input signal. · When HDMI input a 1080p signal, it is recommended that the length of the cable should be less than 5 meters. INSTALLATION RECOMMENDATION: 1. Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television. 2. Connecting the television directly to the Audio /Video output of a Set-Top-Box will assure a more normal picture.

First time use 18 Connecting External Video Sources CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO INPUT1 ~ INPUT-FRONT 1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel to the right. 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack. 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack. 4. Press the INPUTS button, then select INPUT 1 2,3 or Front from the INPUTS menu to view the program from the VCR or laserdisc player. 5. Select CABLE or AIR from the INPUTS menu to return to the last channel tuned. Back of VCR Cable or Air signal First time use Video OUTPUT VCR NOTE: 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose. 2. A single VCR can be used for VCR #1 and VCR #2 (see page 17) but note that a VCR cannot record its own video or line output.

Refer to your VCR operating guide for more information on line inputoutput connections. 3. When INPUT 2 or 3 are used, it is necessary to connect the video output of the device to the Y/VIDEO input jack of the TV. · CONNECTING AN S-VIDEO AND STEREO AUDIO SOURCE TO INPUT 1 1. Connect the cable from the S-VIDEO OUT of the S-VHS VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the Rear Panel to the right. 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack. 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack. 4.

Press the INPUTS button, then select INPUT 1 from the INPUTS menu to view the program from the VCR or laserdisc player. 5. Select CABLE or AIR from the INPUTS menu to return to the last channel tuned. Cable or Air signal Back of VCR or Video L Laserdisc Player S-VIDEO OUTPUT R VCR or Laserdisc Player NOTE: 1. Completely insert the connection cord plugs when connecting to rear panel jacks.

The picture and sound that is played back will be abnormal if the connection is loose. 2. A single VCR can be used for VCR #1 and VCR #2 (see page 17), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line inputoutput connections. 19 Connecting External Video Sources CONNECTING A COMPONENT SOURCE WITH HDMI OR DVI CAPABILITY TO HDMI 1, HDMI 2 OR HDMI FRONT NOTE: 1.

Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose. 2. The HDMI input on HDMI 1, 2 and FRONT contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents. 3. HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display. 4. The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.

5. When using a DVI to HDMI cable, connect the Audio Out L and R cables at the same INPUT (1, 2 or Front) as your HDMI INPUT(1, 2 or Front).



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(For FRONT INPUT see page 15 for reference). First time use 1. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown on the Rear panel below. 2. With DVI output, connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack as shown on the Rear Panel below. 3. With DVI output, connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack as shown on the Rear Panel below. 4.

Press the INPUTS button, then select HDMI 1, 2 or FRONT to view the program from the HDTV SET TOP BOX or DVD player. 5. Select CABLE or AIR from the INPUTS menu to return to the last channel viewed. HDMI input CABLE or Air signal HDTV Set-Top-Box or DVD Player DIGITAL OUTPUT Back of HDTV Set-Top-Box or DVD Player HDMI Cable or DVI to HDMI Input CABLE or Air signal HDTV Set-Top-Box or DVD Player Back of HDTV OUTPUT L R Set-Top-Box or DVD Player DIGITAL OUTPUT DVI to HDMI Cable or or 20 Connecting External Audio/Video Devices CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO INPUT 2 or 3 :Y-PBPR. 1.

Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the Rear panel below. Connect the cable from the PB/CB OUT or BY OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (PB) jack. Connect the cable from the PR/CR OUT or RY OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (PR) jack. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.

Press the INPUTS button, then select INPUT 2 or 3 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box. Select CABLE or AIR to return to the last channel tuned. 2. NOTE: 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose. 2. See page 18 for tips on REAR PANEL CONNECTIONS. First time use 3. 4.

5. 6. 7. CABLE or Air signal DVD Player Back of DVD Player OUTPUT AUDIO VIDEO PR/CR PB/CB Y R L OR L R OUTPUT Y PB PR HDTV Set-Top Box 21 Connecting External Audio/Video Devices CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO INPUT 1 ~ FRONT INPUT CABLE or Air signal First time use 1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel on the right. 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack. 3. Press the INPUTS button, then select INPUT 1 2,3 or Front from the INPUTS menu to view the program from the VCR or the laserdisc player. 4.

Select CABLE or AIR from the INPUTS menu to return to the previous channel. (For INPUT FRONT please see page 16 for reference). CONNECTING AN EXTERNAL AUDIO AMPLIFIER VCR Back of VCR VIDEO OUT AUDIO OUT OUTPUT To monitor the audio level of the Plasma TV to an external audio amplifier, connect the system as shown on the right. The "OPTICAL OUT" from the Rear Panel is a fixed output. The Volume of the amplifier is controlled by the amplifier, not by the Plasma Television.

The OPTICAL OUT terminal outputs all audio sources with Optical IN capability. 1. Connect an optical cable from the Optical out to the Optical input of a separate Stereo System Amplifier as shown on the Rear Panel on the right. CABLE or Air signal Stereo System Amplifier OPTICAL IN CONNECTING MONITOR OUT Stereo System Amplifier or DVD Player The MONITOR OUT terminal outputs video and audio of CABLE/AIR and INPUTS 1, 2, 3 and Front. It does not output component and HDMI video.

1. Connecting S-Video: Connect the cable from the S-VIDEO OUT of the Rear Panel to the INPUT (S-VIDEO) jack, of the VCR or Laserdisc player.

Connecting Video: Connect the cable from the VIDEO INPUT of the VCR or the laserdisc player to the VIDEO out jack on the TV Rear Panel. 2. Connect the cable from the AUDIO IN R of the VCR or the laserdisc player to the OUTPUT (AUDIO/R) jack on the TV Rear Panel. Connect the cable from the AUDIO IN L of the VCR or the laserdisc player to the OUTPUT (AUDIO/L) jack on the TV Rear Panel. CABLE or Air signal VCR or other external components R L V INPUT S-VIDEO Optional 3. 22 NOTE: When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority. The Remote Control In addition to controlling all the functions on your HITACHI Plasma Television, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-boxes, satellite receivers (SAT) and DVD players with one touch.

Basic operation keys are grouped together in one area. To operate your TV, press the TV button. The remote will now control your television. To operate your VCR, press the VCR button. The remote will now control your VCR (see page 31 for instructions on how to program the remote to control your VCR). The Remote Control To operate your cable box, press the CABLE (CBL) button. The remote will now control your cable box (see page 28 for instructions on how to program the remote to control your cable box). To operate your set-top-box or satellite receiver, press the SAT button. The remote will now control your set-top-box or satellite receiver. If you have a satellite receiver, use this button to program your satellite receiver (see page 29 for instructions on how to program the remote to control your SAT).

To operate your DVD player, press the DVD button. The remote will now control your DVD player (see page 30 for instructions on how to program the remote to control your DVD player). 23 How to Use the Remote to Control Your TV 3. 4. ¶ The Remote Control 3 POWER button Press this button to turn the TV set on or off when the remote is in TV mode. · MODE buttons These buttons allow the remote to control your TV, VCR, DVD, Cable box/Satellite box depending on which button is pressed. Refer to page 28~31 for how to change between each of these modes.

» DAY/NIGHT button Press this button to toggle between Day (Normal), Day (Dynamic) and Night picture mode settings. Select DAY for day time viewing with more brightness and contrast to compete with room light. Select NIGHT for night time viewing with less brightness and contrast for a more detailed picture (see page 34 for settings changes). » 2 3/4 μ 1°, NOTE: For automatic DAY/NIGHT picture mode settings, see page 48. 24 How to Use the Remote to Control Your TV ; ASPECT button Press this button to quickly change the picture format ASPECT ratio.



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Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options. 4:3 STANDARD Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas. 4:3 EXPANDED Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it. · Antenna-Analog Channel · S-Video/Video Input (Auto Aspect: Off) · HDMI-480i/480p Input (Auto Aspect: Off) · Component-480i/480p Input (Auto Aspect: Off) Note: Please see Appendix A on page 138-139. · Antenna-Digital Channel (4:3) · S-Video/Video 4:3/Letter Input (Auto Aspect: On) · HDMI-480i/480p 4:3/ Letter Input (Auto Aspect: On) · Component-480i/480p 4:3/ Letter Input (Auto Aspect: On) Note: Please see Appendix A on page 138-139. · S-Video/Video 16:9 Input (Auto Aspect: On) · HDMI-480i/480p 16:9 Input (Auto Aspect: On) · Component-480i/480p 16:9 Input (Auto Aspect: On) Note: Please see Appendix A on page 138-139. · Antenna-Digital Channel (16:9) · HDMI-720p/1080i/1080p Input · Component-720p/1080i Input Note: Please see Appendix A on page 138-139.

NOTE: 1. The Aspect Style in all video inputs have independent Aspect Style setting. 2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also page 36). 3. When displaying 16:9 STANDARD 2 it may appear lines at the edge of the picture this is normal operation of the TV 25 4:3 ZOOM1/ZOOM2 Use these aspect modes to zoom in on conventional (4:3) sources. 16:9 STANDARD 1 Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 95% of the size. 16:9 STANDARD 2 Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 100% of the size. The Remote Control 16:9 ZOOM Use this aspect to Zoom-in once while in 16:9 aspect. IMA G E INPUT 1 IMA G E INPUT IMA G E INPUT 1 IMA G E INPUT 1 2 How to Use the Remote to Control Your TV ^ INPUTS button When the remote control is in TV mode, press this button to access the INPUTS menu.

Use the CURSOR and SELECT buttons to scroll and select the inputs that are being used. Pressing the INPUTS button repeatedly will also cycle through the Inputs menu items. Then press the SELECT button to select. INPUTS ANALOG CHANNELS Program Information Program Run Time INFO Show Name 3:00PM- 3:30PM ST A Analog Channel Main Picture Source and channel indication Broadcast channel identification Clock TV-G 480i Air 8 KXYZ-HD 3:17PM Audio Broadcast Broadcast Rating Picture Format Auto STEREO 10:00 AM Closed Caption setting DIGITAL CHANNELS Digital Closed Caption This icon will appear only when receiving a Digital Broadcast with Closed Captioning. Digital channel Audio Source Selection Event timer The Remote Control HDMI 2 HDMI-Front Air / Cable Input 1 Input 2 Move SEL Select Program Information Program Run Time INFO Show Name 3:00PM- 3:30PM REGION 5 ST DTvCC TV-G D 1080i Air 15-1 KPBS-HD 3:17PM Main Picture Source and channel indication Broadcast channel identification Clock Audio Broadcast Alternate Rating Broadcast Picture Format Rating Program Description (Press INFO again for a more detailed description) INPUT 1 INPUT 2 INPUT 3 INPUT-FRONT HDMI 1 HDMI 2 Select to choose INPUT 1.

Select to choose INPUT 2. Select to choose INPUT 3. Select to choose FRONT INPUT . Select to choose HDMI 1 INPUT. Select to choose HDMI 2 INPUT. 480i Auto 10:00 AM Closed Caption setting Event timer When an S-VIDEO Input is connected to INPUT 1 INFO S-IN: 1 3:17PM HDMI-FRONT Select to choose FRONT HDMI INPUT. AIR/CABLE Select between Air or Cable signal. ° CLOSED CAPTIONS (CC) button Use this button to display the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen when available. Your local TV program guide denotes these programs as or . ¶ MENU button The MENU button will start the On-Screen Display. ° GUIDE button [Cable Box (CBL), Satellite Receiver (SAT)/ Set-Top-Box (STB) mode only] The use of this button is only applicable when the remote control is in (CBL) and (SAT/STB) mode. Press this button to access the Channel Guide of the (CBL), and (SAT/STB). ¼ EXIT button This button will exit all On-Screen Displays. μ CURSOR buttons/SELECT button All the On-Screen Display features can be set or adjusted by using the CURSOR buttons and the SELECT button, except for numeric entries. Press the CURSOR buttons toward desired direction and press the SELECT button to select.

INFO button Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SA), the time, CHANNEL ID and if the TIMER is set. 26 Auto When a Component Video: Y-PbPr Input is connected to INPUT 3 INFO Y-PBPR: 3 480i 3:17PM Input Signal Format Auto NOTE: 1. 2. Press the INFO button again or the EXIT button to return to normal viewing. The Aspect setting will not be shown if the channel is locked. How to Use the Remote to Control Your TV ^ VOLUME (VOL), MUTE button Press the VOLUME button ( or ) until you obtain the desired sound level. To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or VOL UP ( ).

Press the FAV CH button to switch to Favorite (FAV) channel mode. You will know you are in Favorite Channel mode when (FAV) is displayed and the displayed channel is GREEN. Press it again to return to your regular tuned channels. You can add any channel to your Favorite channel list by pressing and holding down the FAV CH button until the displayed channel turns from WHITE to highlighted GREEN. You can also delete a channel from your favorite channel list by pressing and holding down the FAV CH button until the displayed channel turns highlighted GREEN to WHITE.

The Remote Control Cable 6 Volume 8 MUTE FAV CH FAV Cable 6 Soft Mute 8 MUTE FAV CH Cable 6 Mute 8 Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 53). When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on.



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However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned on. CHANNEL SELECTOR/FAVORITE CHANNEL (FAV CH) buttons The CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels.

Enter 0 first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. Channel selection may also be performed by CHANNEL (CH) UP ( ) or CHANNEL (CH) DOWN ( ). (-) DASH button Use the (-) DASH button with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1). LAST CHANNEL (LC) button Press this button to toggle between the current and last channel viewed. RECORD button Press twice (two times) to record programs when the remote is in VCR mode. 27 The Remote Control for Cable Box Functions OPERATING THE PRECODED FUNCTION FOR YOUR CABLE BOX. This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer below for pre-codes). 1. Turn ON your cable box.

· 3» · 2. To switch to Cable (CBL) pre-coded mode, press and release the CABLE (CBL) button. 3. Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box, as shown below. Release the CBL button. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your cable box.

If the cable box does not turn off, try a different two digit preset code. The remote will now control your Cable box.

The Remote Control 4. » · 5. NOTE: 1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote. 2.

In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide. 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above. 3 CABLE (CBL) button This button allows the remote to control your cable box by setting it to CABLE mode.

· PRECODED CABLE BOX buttons These buttons transmit the chosen precoded cable codes. » EXCLUSIVE TV buttons These buttons are for operating the TV. CABLE BRAND ANALOG TYPE CODES HAMLIN.....

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..26, 27, 28 PANASONIC...  
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.... 18, 19, 20 PIONEER .....

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.....13, 14 SCIENTIFIC ATLANTA ..  
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cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide. 3.

The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above. <sup>3</sup> SAT (Set-Top-Box/Satellite) button This button allows the remote to control your settop-box/satellite receiver by setting it to SET-TOPBOX/SATELLITE mode. · PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons These buttons transmit the chosen pre-coded settop-box/satellite codes. » EXCLUSIVE TV buttons These buttons are for operating the TV. SATELLITE BRAND CODES

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....02 SET TOP BOX BRAND CODES PANASONIC .....

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...07 ZENITH .....

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.08 MY SATELLITE RECEIVER/ SET TOP BOX CODE IS: \_\_\_\_\_ NOTE: Refer to instruction manual of the set-topbox/satellite receiver for operation of the buttons exclusively for the set-topbox/satellite receiver. 29 The Remote Control for DVD Functions OPERATING THE PRECODED FUNCTION FOR YOUR DVD PLAYER. This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer below for pre-codes).

. 3 » 1. Turn ON your DVD player. · 2. To switch to DVD pre-coded mode, press and release the DVD button. The Remote Control 3. Hold down the DVD button on the remote and enter the two digit preset code that matches your DVD player, as shown below. Release the DVD button. 4. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct two digit preset code is entered.

When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different two digit preset code. 5. The remote will now control your DVD player. » · · NOTE: 1. If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote. 2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please

consult your DVD player operating guide. 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control.

*After replacing the batteries repeat the entire programming procedure as stated above.*



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<sup>3</sup> DVD button This button allows the remote to control your DVD player by setting it to DVD mode. · PRECODED DVD Buttons These buttons transmit the chosen precoded DVD codes. » EXCLUSIVE TV Buttons These buttons are for operating the TV. DVD BRAND CODES APEX .

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..01 TOSHIBA .....

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..05 MY DVD PLAYER CODE IS: \_\_\_\_\_ NOTE: Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player. 30 The Remote Control for VCR Functions OPERATING THE PRECODED FUNCTION FOR YOUR VCR. This remote is designed to operate different types of VCRs.



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.. 36 HITACHI ...

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..00, 01, 02, 03, 04, 05, 06 JVC...

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...49, 50, 51,18 MAGNAVOX .....

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40, 41 PANASONIC.....

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.35 MY VCR PLAYER CODE IS: \_\_\_\_\_ 31 On-Screen Display 1. Press MENU on the remote control to display the different features on your HITACHI Plasma TV. 2. Use the CURSOR PAD (buttons , , and ) and highlight a different feature of the On-Screen Display menu. Press the SELECT button to select. 3. Press EXIT on the remote control to quickly exit from a menu. This part of the screen shows which selections are available. Video Audio Channel Manager Locks Timers Setup Move SEL Select This part of the screen shows which Remote Control buttons to use. On-Screen Display NOTE: The On Screen Display (OSD) for the different submenus shown in next pages are for illustration purposes only, therefore; doesn't reflect the actual appearance of the OSD of your HITACHI Plasma TV. 32 On-Screen Display Video Picture Mode Contrast Brightness Color Tint Sharpness Color Temperature Select between 3 picture modes; Day Dynamic, Day Normal and Night. Adjust contrast. Adjust brightness. Adjust color. Adjust tint. Adjust sharpness. Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors. Enhance picture brightness in light scenes. Use this function to choose between two Contrast Mode settings.

Reduces conspicuous noise in the picture. Reduces mosquito noise in the picture. Turn On/Off the 3:2 Pulldown detection feature. Set the gray side bars from gray to black when watching 4:3 signals in standard mode. Choose the picture format aspect ratio. Choose to Reset Video Settings to factory settings. Channel Manager Signal Meter Auto Channel Scan Channel List Access Signal Meter. Set Auto Channel Scan. Set Channel List. Locks Change Access Code Change Lock access code.

Engage Lock Choose to lock channel, and/or Front panel. Movie Ratings Block various types of movies and video types based on motion picture ratings. TV Ratings Block various types of movies and television programming based on a parental guide ratings. Canadian Ratings (ENG) Block various types of movies and television programming based on the Canadian ratings system. Canadian Ratings (FRN) Block various types of movies and television programming based on the Canadian French ratings system.

Region 5 Ratings system for DTV Signal to block various types of programs. Black Enhancement Contrast Mode Noise Reduction MPEG NR Auto Movie Mode Black Side Panel Aspect Reset Video Settings On-Screen Display Timers Set the Clock Set Sleep Timer Set Clock Settings. Set Sleep Timer intervals (30 min. intervals, 00:30-3:00). Set Day/Night picture mode settings.

Set viewing reservation for TV programs. Audio Treble Bass Balance Surround Bass Boost Audio Source Internal Speakers Auto Noise Cancel Perfect Volume Loudness Language Digital Output DRC Adjust the treble. Set Day/Night Timer Adjust the bass. Adjust the balance. Set Event Timer Select Surround settings (Off, Wide, Normal) Select Bass Boost option ON or OFF. Select between three Audio Sources. Select internal or external speakers. Eliminates the noise between stations. Adjust volume in fixed setting between stations. Adjust Loudness.

Select Language options if available. Select Optical Output options. Select Dynamic Range Compression to ON or OFF. Setup Set The Menu Options Set The Screen Saver Set The Inputs Set The Closed Captions Choose English, French, or Spanish text and Background. Select Screen Saver options to prevent screen burn. Label Video Inputs, VCR, DVD, etc. Feature to display dialogue/text. Set The Quick Start Options Select the TV Quick Start Up options. Reset The Software Select to upgrade TV software and to Reset TV settings. NOTE: 1.

The Signal Meter feature of the Channel Manager OSD is only available for Digital channels. NOTE: The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels. 33 Video Video Select VIDEO to adjust picture settings and improve picture quality. You can independently customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If RESET is selected, only the selected input will reset to initial conditions.

Picture Mode Use this function to choose from automatic picture settings to optimize your TV's performance.



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