HITACHI Inspire the Next

PLASMA TELEVISION

Operating Guide for 42HDT79, 55HDT79 42HDX99 and 55HDX99

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As an Energy Star® Partner, Hitachi, Ltd. has determined that this product meets the Energy Star® guidelines for energy efficiency.





Important Safety Instructions

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI PLASMA TELEVISION

Our reputation has been built on the quality, performance, and ease of service of **HITACHI** plasma televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your **HITACHI** plasma television.

Please fill out your warranty card and mail it to **HITACHI**. This will enable **HITACHI** to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this plasma television.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this 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.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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



- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15.Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- 17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antennadischarge unit, connection to grounding electrodes and requirements for the grounding electrode.



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



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 power cord 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.

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 by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital 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.

Note

- There are no user serviceable parts inside the plasma television.
- · Model and serial numbers are indicated on back 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.

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 the Electronic Industries Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada).

FOR MORE INFORMATION, CALL 1-800-HITACHI.

Accessories

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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

- 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 available wood screws, secure the set firmly in position.



Securing to a Wall

- Keep the Plasma television 4 inches away from the wall except when mounted using the wall mount bracket.
- 2. Secure the television to the wall as shown.



touching the wall when turning the TV.

- **NOTES:** 1. Do not block the ventilation holes of the Plasma Television. Blocking the ventilation holes might cause fire or defect.
 - 2. In case of an abnormal symptom, unplug the AC cord.
 - 3. If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.
 - Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (for example their hands, head or face, etc.) against the edge of the unit and cause personal injury.
 - 5. If the Power Swivel feature will not be used, the Plasma television should be secured to the wall as shown in fig. (a).
 - 6. If the Power Swivel feature will be used, the Plasma television should be secured to the wall as shown in fig. (b).

Caution when moving the main unit

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and base on both sides of the Television for stability. When moving the Television, lift the handles (42" models), support the top frame (55" models) and the bottom frame as shown below.





ANTENNA

Unless your Plasma Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the wall. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.



CONNECT POWER SWIVEL CABLE

Connect one end of cable (Arrow mark facing left) to the swivel slot of the Plasma Rear Panel. Connect the other end (Arrow mark facing front)to the swivel slot of the Table Top Stand.



TURNING RADIUS

The maximum turning radius is 30° (left and right). Do not place any objects on the path of the monitor when using the power swivel feature.



NOTE: The Table Top Stand for model 55HDT79 & 55HDX99 is not included (Optional).

How to set up your new HITACHI Plasma Television

SETTING FOR WALL MOUNTING

STEP (1) :

Please locate the STAND PLATE metal on the back of the TV. This metal is use to hold the TV and the Base ; so it needs to be remove in order to separate the TV from the Base.



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.

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. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.





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.

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.

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.



NOTE:

Connecting a 300-Ohm twin lead connector may cause interference. Using a 75-Ohm coaxial cable is recommended.

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 Cable

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and side 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.

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 side control panel.

USB Cable

This cable is used to connect your digital camera to the Photo Input in the side of the Plasma television.

IR Blaster Cable (Provided)

Connect the IR Mouse to the IR output of your Plasma Television when AV Network is used. You must place the IR mouse in front of the corresponding IR window of your cable box and VCR. This connection allows your TV to control your cable box and VCR.

Power Swivel Cable (Provided)

This cable is used to connect the swivel stand to the rear panel of the Plasma Television.

IEEE1394 Cable (HDX only)

This cable is used to connect your digital television to external digital devices. This cable will carry both the video and audio information.



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 25-43 for a complete description of all features and programming of the Remote Control.



- **NOTES:** 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.
 - 2. VCR precode is included in the PVR mode.
 - 3. CD precode is included in the AMP mode.
 - 4. Pressing the Light button will illuminate the backlight for 8 seconds.



SIDE POWER button (1)

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 2

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.

SIDE HDMI INPUT (5) 3

Use the side HDMI input for extrenal devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection (see page 15 for reference).

INPUT/EXIT button (4)

Press this button to access the INPUT menu. Press again to exit the MENU mode.

CHANNEL selector (5)

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 $(\mathbf{\nabla})$ and up (\blacktriangle) buttons when in MENU mode.

VOLUME level 6

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (4) and right (►) buttons when in MENU mode.

NOTE: The Rear View of the 55" model is slightly different from the 42" models. One of the differences are the handles that are only present on the 42" models.

POWER button (7)**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 label "MAIN POWER".

NOTE: When the "MAIN POWER" button is set to OFF or the TV is unplugged, the clock will stop and may eventually reset itself.

(8) 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.



Indicating Lamp		Power Status	Operating						
Lamp 1	Lamp 2								
Off	Off	OFF.	When the main power switch is set to Off.						
Lights Red	Off	OFF. (Stand-by)	When the main power switch on the TV is ON.						
Off	Blinking Blue	OFF. (Turning ON)	TV MAIN POWER is ON ; but no picture is shown.						
Off	Lights Blue	On	TV MAIN POWER is ON ; picture is shown.						
Lights Orange	Off	Off (Power Saving)	TV MAIN POWER is ON with no signal input except antenna (no sync. signal).						

REMOTE CONTROL sensor

Point your remote at this area when selecting channels, adjusting volume, etc.

⑨ LEARNING AV NET sensor

Point your equipment's remote control at this area while using the AV NET Learning Wizard.

() SIDE INPUT JACKS (for IN PUT: 5)

INPUT 5 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 this input.

NOTE: 1. 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 component CB output to the TV's PB input and the component CR output to the TV's PR input.
 - 3. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-PBPR inputs (see page 47).
 - INPUT 3, INPUT 4 and INPUT 5 (Y/VIDEO) can be used for composite video and component video input.

11 PHOTO INPUT

Insert USB cable from your Digital Camera, USB memory or memory card USB drive to view your digital still pictures (see Owners Guide).

- **NOTES:** 1. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when INPUT : 1, 2, 3, 4 and 5. Check the Power Light to make sure the TV is turned off or in Stand-by mode (lights red) when not in use.
 - 2. Remote Control can not turn ON/OFF the "MAIN POWER" of the TV.

Rear Panel Connections

① Antenna Input

To switch between Cable and Air input, go to the Channel Manager option to change the signal source CABLE or AIR.

② Audio/Video Inputs 1, 2, 3 and 4

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).

③ MONITOR OUT & HI-FI AUDIO OUT

These jacks provide fixed and variable 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 3,4 and 5, and HDMI inputs will not have monitor output.

④ 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.

- (5) S-VIDEO Inputs 1 and 2 Inputs 1 and 2 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 and 2, 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 & 5 (High Definition Multimedia Interface)
 HDMI 1, 2 & 5 (High Definition Multimedia

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.

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NOTE: 1. The **HDMI** input is not intended for use with personal computers.

2. Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.

⑦ Component: Y-P_BP_R Inputs

INPUTS 3 and **4** 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 or 2 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 PB 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.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs (see page 47).
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks and HDMI Input.
- 6. INPUT 3, 4 and 5 (Y/VIDEO) can be used for composite video and component video input.

⑧ IR Out / G-Link

This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the AV network feature(Only HDX models). This connection will allow you to control the external components with your Plasma Television's remote control in TV mode. (For reference see pages 68~75 & 77).

(9) For Special AV control use only.

Rear Panel Connections

IEEE1394 (DV INPUT) (Only for HDX models) These jacks provide a digital interface for your external digital devices, such as a Digital VCR (D-VHS), Set-Top-Box or Digital Camcorder by means of a single cable (see page 24). When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.

1) 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 To Power Swivel Connector

Connects to the Power Swivel Table Top Stand.

(3) CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

- 1. Connect a coaxial cable to cable terminal of the Rear Panel Jacks.
- Insert the CableCARD into the slot (Top of card should be facing towards you as shown below).







The LEFT SIDE panel jacks are provided as a convenience to allow you to easily connect a camcorder , DVD, Video Game, VCR and a Digital Camera as shown in the following examples:



NOTE: 1. Completely insert connection cord plugs when connecting to left side panel jacks. If you do not, the played back picture may be abnormal.



The RIGHT SIDE 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 Left Side Input jacks) :



NOTE: 1. Completely insert connection cord plugs when connecting to side 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. 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(\blacktriangle and \bigtriangledown) to select the Input of your choice. Then press the SELECT button or the CURSOR PAD \blacktriangleright to confirm your choice (see page 28).



Rear Panel Connections



Tips on Rear Panel Connections

- S-VIDEO, Y-P_BP_R, 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 16). 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-P_BP_R (Input 3, 4 & 5) 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 P_B input and the components R-Y output to the TV's P_B input.
- Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_R output to the TV's P_B input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs. (See page 47)
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_BP_R, and HDMI input jacks.
- Input 1, 2 or 5 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 1080i or 720p input signal.

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.

CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO INPUT1 - INPUT5

- 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.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 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 2 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.



- **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 16) but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.
 - 3. When INPUT 3, 4 or 5 are used, it is necessary to connect the video output of the device to the Y/VIDEO input jack of the TV (For INPUT 5 please see page 14 for reference).

CONNECTING AN S-VIDEO AND STEREO AUDIO SOURCE TO INPUT 1, 2

- 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.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 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.
- **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 16), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.

CONNECTING A COMPONENT SOURCE WITH HDMI OR DVI CAPABILITY TO INPUT 1, 2 OR 5

- 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.
- 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.
- 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.
- Press the INPUTS button, then select INPUTS 1, 2 or 5 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.

- **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 INPUT 1, 2 and 5 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 setup 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 5) as your HDMI INPUT(1, 2 or 5). (For INPUT 5 please see page 15 for reference).



First time use

Connecting External Audio/Video Devices

CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO INPUT 3, 4 or 5 : Y-PBPR.

- 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.
- 2. Connect the cable from the P_B/C_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
- 3. Connect the cable from the P_R/C_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
- 4. 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.
- 6. Press the INPUTS button, then select INPUT 4 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box.
- 7. Select CABLE or AIR to return to the last channel tuned.

- **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 17 for tips on REAR PANEL CONNECTIONS.

(For INPUT 5 please see page 14 for reference).



Connecting External Audio/Video Devices

CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO INPUT 1 ~ INPUT 5

- 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.
- Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- Press the INPUTS button, then select INPUT 2 from the INPUTS menu to view the program from the VCR or the laserdisc player.
- Select CABLE or AIR from the INPUTS menu to return to the previous channel. (For INPUT 5 please see page 14 for reference).

CONNECTING AN EXTERNAL AUDIO AMPLIFIER

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.

 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.

CONNECTING MONITOR OUT

The MONITOR OUT terminal outputs video and audio of CABLE/AIR and INPUTS 1, 2, 3, 4 and 5. It does not output component and HDMI video.

 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 Laserdisk 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.

- 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.

NOTE: When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority.



Your HITACHI Plasma Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Blaster cable to control your equipment using your HITACHI Plasma TV Remote Control. You can use your HITACHI remote control to control the Audio/Video equipment command without the equipment's remote control.

The Plasma Television Rear Panel has 2 IR Out jacks. Each IR Blaster cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Network setup between your Hitachi Plasma Television and external Audio/Video equipment (VCR and DVD Player).

CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR OUT FOR AV NETWORK

- 1. Connect your external Audio/Video components to the Rear Panel shown below.
- 2. Connect the IR Blaster cable to the IR OUT terminal of the Rear Panel.
- 3. Place the IR Blaster in front of the infrared sensor of the external components you wish to control.



- components.
 2. The IR Blaster must be placed in front of the external components infrared sensor for the AV
 - Network to work. Double-sided mounting tape may be used to hold the IR Blaster in place.
 - 3. The correct codes must be chosen for each of the Audio/Video components for the AV Network to function properly.

Your HITACHI Plasma Television is equipped with a G-LINK feature. This connection is necessary for the TV Guide On Screen[™] system to work with your cable box to receive program listings and to enable VCR recording features. Once you setup the G-LINK (IR Blaster) connector, then you can use your HITACHI Plasma TV Remote Control and the TV Guide On Screen system to control your cable box and VCR recording features.

The Plasma Television Rear Panel has IR OUT/G-LINK terminals. One IR Blaster cable can connect up to 2 external Audio/Video components. Please see the following example of a G-LINK setup between your HITACHI Plasma Television and external Audio/Video equipment (VCR and Cable box).

CONNECTING THE CABLE BOX/VCR TO G-LINK FOR TV GUIDE ON SCREEN™ SYSTEM

- 1. Connect your external Audio/Video components to the Rear Panel shown below.
- 2. Connect the IR Blaster cable to the IR OUT/G-LINK output terminal of the Rear Panel.
- 3. Place the IR Blaster in front of the infrared sensor of the external components you want to control.



- 5. Use the CURSOR PAD ▼ or channel scroll down to highlight TV GUIDE ON SCREEN.
 - annel scroll down REEN. PAD ► button to



- 6. Press the SELECT or CURSOR PAD ► button to select.
- 7. Follow the Setup procedure on pages 53-55.

NOTE: 1. The G-LINK connection is not necessary for IEEE1394 equipped devices, such as a D-VHS.
2. The IR Blaster must be placed in front of the external components infrared sensor for the AV Network to work.

3. G-LINK connections are available on both IR OUT terminals.

CONNECTING A COMPONENT SOURCE WITH DIGITAL INTERFACE CAPABILITY TO IEEE1394 TERMINALS.

- Connect the IEEE1394 cable from the output of the component with IEEE1394 capability, such as a Digital VCR or AVHD (External Hard Drive) Digital Recorder, to the IEEE1394 input terminals shown below. IEEE 1394 allows the plasma television and the external device to communicate with one another. When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.
- 2. Press the INPUTS button on the Remote Control.
- 3. Select the IEEE1394 option (see page 31).

- **NOTE:** 1. With IEEE1394 connection, video and audio will be received by the TV. It will enable you to control the D-VHS from the TV IEEE1394 menu (see page 31).
 - 2. The IEEE1394 interface contains the copy protection standard called 5C or Digital Transmission Content Protection (DTCP).



The Remote Control

In addition to controlling all the functions on your HITACHI Plasma TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-box, satellite receiver, DVD players, and other audio/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your Plasma TV, point the remote control at the remote sensor of the television and select the TV by pressing the \blacktriangleleft or \triangleright button of the Source Access on the remote. The TV mode indicator will blink, indicating that the remote will now control your television.

To operate your VCR, point the remote at the remote sensor of the VCR and select PVR by pressing the \blacktriangleleft or \blacktriangleright button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your VCR (see page 39 for instructions on how to program the remote to control your VCR).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and select PVR by pressing the \blacktriangleleft or \triangleright button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your PVR (see page 39 for instruction on how to program the remote to control your PVR).

To operate your cable box, point the remote at the remote sensor of the cable box and select the CABLE (CBL) by pressing the \blacktriangleleft or \triangleright button of the Source Access on the remote. The CBL mode indicator will blink, indicating that the remote will now control your cable box (see page 36 for instructions on how to program the remote to control your cable box).

To operate your set-top-box or satellite receiver point the remote at the remote sensor of the settop-box and select the SET-TOP-BOX (STB) by pressing the \blacktriangleleft or \blacktriangleright button of the Source Access on the remote. If you have a satellite receiver, use this button to program your satellite receiver. The STB mode indicator will blink, indicating that the remote will now control your set-top-box (see page 37 for instructions on how to program the remote to control your set-top-box).

To operate your DVD player, point the remote at the remote sensor of the DVD player and select DVD by pressing the \blacktriangleleft or \blacktriangleright button of the Source Access on the remote. The DVD mode indicator will blink, indicating that the remote will now control your DVD Player (see page 38 for instruction on how to program the remote to control your DVD player). To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and select AMP by pressing the ◀ or ▶ button of the Source Access on the remote. The AMP mode indicator will blink, indicating that the remote will now control your audio equipment (see page 40 for instructions on how to program the remote to control additional Audio/Video equipment).

There are two modes of lighting the Remote Control buttons. They are the Automatic and Manual modes.

AUTOMATIC MODE (Optional mode)

In Automatic mode, if any button is pressed (including the LIGHT button), the illumination will light for 4 seconds.

MANUAL MODE (Default mode)

In Manual mode, the illumination will only work when the LIGHT button is pressed. When the LIGHT button is pressed, the illumination will light for 8 seconds. During the illumination, if the LIGHT button is pressed, the illumination will turn off.

CHANGING LIGHTING MODES (Automatic to Manual/Manual to Automatic)

- Place the Remote Control in TV Mode by using the SOURCE ACCESS ◀ and ▶ buttons. The TV mode indicator will blink 3 times to confirm the remote control mode.
- 2. Press and hold the LIGHT button for 10 seconds. After releasing the LIGHT button, the TV mode indicator will blink 3 times to confirm the mode switch.
- **NOTE:** When you press any remote control button, the buttons will light up. The illumination will light a few seconds during this time. The buttons will appear to light if the room is dark.





① POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 25 for instructions on how to set the remote control to TV mode.)

② MODE Indicator

Turns on or blinks to show remote control mode.

③ SOURCE ACCESS (◄ or ►) buttons Press these buttons to select remote control mode.

④ SOURCE ACCESS (ENT) button

Hold down this button while entering your device code to program the remote (see pages 36-41). You can also use this button in an optional Input access feature (see page 41).

5 PAUSE button

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Press the PAUSE button to freeze the picture. Press the EXIT button to return the picture to motion. Press the PAUSE button repeatedly to cycle through the three different freeze modes (see page 35).

	Fre	eze						
		Freeze						
			Freeze Freeze					
EXIT			Freeze					

6 ASPECT button

Press this button to quickly change the picture format ASPECT ratio. 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.

this is normal operation of the TV.

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.

Remote Contro

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16:9 ZOOM

Use this aspect to Zoom-in once while in 16:9 aspect.



⑦ DAY/NIGHT button

Press this button to toggle between Day(Normal), Day(Dynamic) and Night picture mode settings. Select Day modes for day time viewing with more brightness and contrast to compete with room light. Select Night for nighttime viewing with less brightness and contrast for amore detailed picture (see page 47 for settings changes).

NOTE: For automatic DAY/NIGHT picture mode settings, see page 65.

8 PICTURE-IN-PICTURE button

See separate section on pages 33-34 for a description.

9 MENU button

The MENU button will start the On-Screen Display.

10 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 (SAP), the time, CHANNEL ID and if the TIMER is set.



When a Component Video: Y-PbPr Input is connected to INPUT 3



1 EXIT button

This button will exit all On-Screen Displays.

CURSOR PAD/SELECT button

All the On-Screen Display features can be set or adjusted by using the CURSOR PAD, except for numeric entries. The CURSOR PAD will highlight functions or adjust and set different features. Press the CURSOR PAD toward desired direction and press the SELECT button to select.

(3) GUIDE button

Press this button to access the TV Guide On Screen[™] interactive display (see page 53). Press this button to access the Channel Guide of the (CBL), and (SAT/STB) while in (CBL)(SAT/STB) mode.

(Mail INPUTS button

When the remote control is in TV mode, press this button to access the INPUTS menu. Use the CURSOR PAD and SELECT button to 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.



INPUT 1	Select to choose INPUT 1.					
INPUT 2	Select to choose INPUT 2.					
INPUT 3	Select to choose INPUT 3.					
INPUT 4	Select to choose INPUT 4.					
INPUT 5	Select to choose INPUT 5.					
AIR / CABLE	Select between Cable or Air signal.					
PHOTO INPUT	Select to access your pictures from a					
	digital camera, USB memory or					
	memory card USB drive connected to					
	the Photo Input in the side panel of					
	the Plasma TV (see pages 29-30).					
IEEE1394	Select to choose the IEEE1394 Input					
	only for HDX models (see page 31).					

PHOTO INPUT

This feature is useful for viewing digital still pictures from your digital camera, USB Drive or memory cards USB drive using the Photo Input in the left side panel of the TV.

1. Press the INPUTS button to cycle through the INPUTS selections until the PHOTO INPUT is selected. Press the SELECT button or CURSOR PAD ►.



2. Press the CURSOR PAD ◀ or ► to access the next or previous photo.

- Press the SELECT button to view 3. THUMBNAIL.
- 4. Use the CURSOR PAD buttons \blacktriangle , \triangledown , \triangleleft or \blacktriangleright and the SELECT button to navigate and select individual chosen photos.



▲► Next (SEL) Thumbnail [0-9] Jump

5. Press the picture number to jump from picture to picture.



- Press the INFO button to access PHOTO Input 6. menu and to view Photo information.
- 7. Press the CURSOR PAD ▲ or ▼ and the SELECT button to navigate and select the PHOTO Input menu.



- **NOTES:** 1. Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.
 - The maximum number of digital Photos that can be displayed is 999. 2.
 - 3. Press INFO button to show Picture Numbers in Thumbnail view, plus other information in individual photos.
 - 4. Digital photos recorded on a DVD-RAM disc may not work with this Photo Input.
 - 5. Certain types of digital cameras may not work with this Photo Input.
 - Digital cameras with low battery power may not properly display your photos in this input. The screen may show "Input device not detected" if the digital camera's large capacity 6. 7.
 - memory is fully loaded, or because of slow access time on some digital cameras. Please wait 1 or 2 minutes before checking your Photo Input connections.

ROTATE

Select this menu item to rotate selected photos either clockwise (CURSOR PAD ►) and counterclockwise (CURSOR PAD ◄).



SLIDESHOW

Select this menu item to start a slideshow of the digital photos. While the Interval sub menu is highlighted, press the SELECT button to cycle through the interval time from 5, 10 and 30 seconds. Press the SELECT button to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume or press the SELECT button again to continue with the slideshow.



DEVICE

Select this menu item to select the Photo Input Device Drive when using a USB Drive device. Use the CURSOR PAD \blacktriangleleft or \blacktriangleright to select Device Drive. Press the INFO button to highlight a device, then press the SELECT button or CURSOR PAD \blacktriangleright to access it. Use the CURSOR PAD \blacktriangleleft or \blacktriangleright to choose the device to read.



NOTES: 1. Automatic contrast reduction also applies during SLIDESHOW, then press any button to continue.

- 2. Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed on a main directory with a "dcim" file name format.
- 3. Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).
- 4. This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.

IEEE1394 (ONLY HDX MODELS)

Use this function to control your devices with digital interface capabilities.

When an IEEE1394 device is not connected



When an IEEE1394 device is connected



- And the construction of the appear until the EXT button is pressed.
 Not all devices with IEEE1394 capability are compatible with this TV. Any compatibility problems with other manufacturers devices should be brought to the attention of those manufacturers.
- 5. TV IN/OUT functions are not available when D-VHS is in playback or recording.
- 6. Digital channels may contain Copy Control Information (CCI). When using a CableCARD, this CCI data will prevent recording of some programs depending on its content value.

(b) LAST CHANNEL (LAST CH) button

Press this button to toggle between the current and last channel viewed.

WOLUME (VOL) WHEEL, MUTE button

Use the VOL WHEEL (\blacktriangle or \blacktriangledown) 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 VOL wheel down. Press the VOL wheel again to turn the sound off completely (MUTE). To restore the sound, press the VOL wheel one more time or VOL Up (\blacktriangle).



Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 76).

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. 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 (CH) WHEEL/CHANNEL SELECTOR buttons

The CHANNEL wheel or the CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL WHEEL (▲ or ▼) to select the desired channel. 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. For Digital Channels, use the CHANNEL SELECTOR buttons with the (-) DASH button. Channel selection may also be performed by CHANNEL WHEEL up (▲), CHANNEL WHEEL down (▼) or CURSOR up (▲ CH+)& Cursor down (▼ CH-). When using the Cursor up or down (\triangle CH+ or ∇ CH-) to change channel it will operate same as the CHANNEL WHEEL except for the (FAV) channel setting. The cursor up or down can only change channels ; but to activate the (FAV) channels it has to be activated from the CHANNEL WHEEL only.

Press the channel (CH) wheel 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 Channel (CH) wheel 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 Channel (CH) wheel until the displayed channel list by pressing and holding down the Channel list by pressing and holding down the Channel KHITE to Highlighted GREEN. You can also delete a channel from your favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns highlighted GREEN to WHITE.







(8) (-) 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).

IP BACKLIGHT button

Press this button to light up and illuminate the buttons of the remote control.

Picture-in-Picture (PIP)

Your HITACHI Plasma TV incorporates one Tuner technology designed for improved viewing enjoyment. This feature allows you to view Digital Channels and Video inputs on both the main picture and sub picture simultaneously, with separate control.

When a Digital channel is viewed in the main picture, the Digital or Analog channel can not be viewed in the sub picture. Please see table for PIP availability.

To select between main picture and PIP sub picture, use the CURSOR PAD button the remote. The Green highlighted channel display will move with every press of the CURSOR PAD buttons.

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from any of the video inputs.

Use connection at right to view VCR program as a subpicture while viewing another program as main picture (CABLE/AIR Digital channel).

1 PIP button

Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, or SPLIT), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the three different modes.

SPLIT MODE PICTURE-IN-PICTURE

Split Mode PIP displays the main picture and subpicture evenly on the screen.



Main Picture

POP MODE PICTURE-IN-PICTURE

POP Mode PIP displays the sub-picture outside of the main picture. Use the CURSOR PAD (▲ or ▼) to move the sub-picture. This feature is not available with a 1080i/720p signal. Please refer to the PICTURE-IN-PICTURE MODES Table (see page 34).



NOTE : 1. Press the CURSOR PAD (◄ or ►) to enable the sub-picture sound.





Picture-In-Picture (PIP)

PIP MODE PICTURE-IN-PICTURE

Select CABLE/AIR or INPUT 1~5 from the INPUTS menu. Select a channel that has a 1080i/720p signal. To prevent a pattern burn, occasionally move the sub-picture using the CURSOR PAD.







PIP Specifications Table

PIP		Digital Channel						Component/Composite/S-IN/HDMI							
Mode							-								
				1080i	720p	480p	480p	480i	480i	1080i	720p	480p	480p	480i	480i
Main Picture				16x9	16x9	16x9	4x3	16x9	4x3	16x9	16x9	16x9	4x3	16x9	4x3
POP Digital Ch (Air or Cabl	Digital Ch.	1080i	16x9	-	-	-	-	-	-	-	-	-	-	-	-
	(Air or Cable)	720p	16x9	-	-	-	-	-	-	-	-	-	-	-	-
		480p 480p	16x9 4x3	-	-	-	-	-	-	-	-	-	-	-	-
		480p 480i	4x3 16x9	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
		480i	4x3	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
	Component	1080i	16x9	-	-	-	-	-	-	-	-	-	-	-	-
	Composite	720p	16x9	-	-	-	-	-	-	-	-	-	-	-	-
	S-IN HDMI	480p	16x9	Yes*l	Yes*l	Yes*l	Yes*l	Yes*l	Yes*l	-	-	-	-	-	-
		480p 480i	4x3 16x9	Yes Yes*l	Yes Yes*l	Yes Yes*l	Yes Yes*l	Yes Yes*l	Yes Yes*l	-	-	-	-	-	-
		480i	4x3	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
PIP 16x9	Digital Ch.	1080i	16x9	-	-	-	-	-	-	Yes	Yes	Yes*2	-	Yes*2	-
	(Air or Cable)	720p	16x9	-	-	-	-	-	-	Yes	Yes	Yes*2	-	Yes*2	-
		480p	16x9	-	-	-	-	-	-	Yes	Yes	Yes*2	-	Yes*2	-
		480p	4x3	-	-	-	-	-	-	-	-	-	-	-	-
		480i	16x9	-	-	-	-	-	-	Yes	Yes	Yes*2	-	Yes*2	-
		480i	4x3	-	-	-	-	-	-	-	-	-	-	-	-
	Component	1080i	16x9	Yes	Yes	Yes	-	Yes	-	-	-	-	-	-	-
	Composite. S-IN	720p 480p	16x9 16x9	Yes Yes*2	Yes Yes*2	Yes Yes*2	-	Yes Yes*2	-	-	-	-	-	-	•
	HDMI	480p	4x3	163 2	163 2	163 2	-	163 2	-	-	-	-	-	-	
		480i	16x9	Yes*2	Yes*2	Yes*2	-	Yes*2	-	-	-	-	-	-	-
		480i	4x3	-	-	-	-	_	-	-	-	-	-	-	-
PIP 4x3	Digital Ch. (Air or Cable)	1080i	16x9	-	-	-	-	_	-	-	-	Yes*l	Yes	Yes*l	Yes
		720p	16x9	-	-	-	-	-	-	-	-	Yes*l	Yes	Yes*l	Yes
		480p	16x9	-	-	-	-	-	-	-	-	Yes*l	Yes	Yes*l	Yes
		480p 480i	4x3	-	-	-	-	-	-	-	-	-	-	-	-
		480i 480i	16x9 4x3	-	-	-	-	-	-	-	-	Yes*l	Yes	Yes*l	Yes
	Componet	1080i	16x9	-	-	-	Yes	-	Yes	-	-	-	-	-	-
	Composite	720p	16x9	-	-	-	Yes	-	Yes	-	-	-	-	-	-
	S-IN	480p	16x9	-	-	-	Yes*2	-	Yes*2	-	-	-	-	-	-
	HDMI	480p	4x3	-	-	-	-	-	-	-	-	-	-	-	-
		480i	16x9	-	-	-	Yes*2	-	Yes*2	-	-	-	-	-	-
		480i	4x3	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT	Digital Ch. (Air or Cable)	1080i 720p	16x9 16x9	-	-	-	-	-	-	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
		480p	16x9	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
		480p	4x3	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
		480i	16x9	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
		480i	4x3	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes
	Component	1080i	16x9	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
		720p	16x9	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
		480p	16x9	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
		480p 480i	4x3 16x9	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	-	-	-	-	-	-
		480i 480i	4x3	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-
STROBE	Digital Ch.	1080i	16x9	Yes	-	-	-	-	-	-	-	-	-	-	-
(4pix)	(Air or Cable)	720 p	16x9	-	Yes	-	-	-	-	-	-	-	-	-	-
		480p	16x9	-	-	Yes	-	-	-	-	-	-	-	-	-
		480p	4x3	-	-	-	Yes	-	-	-	-	-	-	-	-
		480i	16x9	-	-	-	-	Yes	-	-	-	-	-	-	-
		480i	4x3	-	-	-	-	-	Yes	-	-	-	-	-	-]
				- 1	-	-	- 1	-	-	Yes	_	-	-	-	-
	Component	1080i	16x9												
	Composite	720p	16x9	-	-	-	-	-	-	-	Yes	- Vcc	-	-	-
		720p 480p	16x9 16x9		-	-	-	-	-	-	Yes	- Yes	- - Yes	-	-
	Composite S-IN	720p	16x9	-							Yes - -	- Yes -	- Yes		

Yes* I: Auto Aspect OFF

Yes*2: Aulo Aspect ON (-): Not available

2 PAUSE button

If you wish to freeze the sub-picture, press the PAUSE button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the EXIT button. Press the PAUSE button repeatedly to toggle between FREEZE modes (Main Freeze, SPLIT and STROBE).



MAIN FREEZE

Press the PAUSE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the EXIT button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



SPLIT FREEZE

Press the PAUSE button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the EXIT button to return to normal viewing.





STROBE FREEZE

Press the PAUSE button to freeze three frames of the picture you are currently viewing (only the 3 sub-pictures will freeze). Press the EXIT button to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.





- NOTE: 1. The default FREEZE mode is the MAIN freeze followed by the SPLIT freeze and then the STROBE freeze. The last FREEZE mode you selected before you pressed the EXIT button will be the one that comes up after pressing the PAUSE button again.
 2. Each freeze frame in Strobe Freeze is
 - 2. Each freeze frame in Strobe Freeze i delayed about 0.1 (1/10) second.

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 to pages 42-43 for pre-codes).

- 1. Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- To switch to Cable (CBL) pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
- Hold down the ENT button on the remote and enter the four digit preset code that matches your cable box as shown on pages 42-43. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct four 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 four digit preset code.
- 6. The remote will now control your Cable box.
- **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.

PRECODED CABLE BOX buttons These buttons transmit the chosen precoded cable codes.

② EXCLUSIVE TV buttons These buttons are for operating the TV.



MY CABLE BOX CODE IS:

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.
The Remote Control for Set-Top-Box/Satellite Receiver Functions

Operating the precoded function for your set-topbox/satellite receiver.

This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer to pages 42-43 for pre-codes).

- 1. Turn ON your set-top-box/satellite systems.
- 2. Aim the remote control at the front of your set-topbox/satellite systems.
- To switch to set-top-box/satellite (STB) pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your settop-box/satellite receiver as shown on page 42-43. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the set-top-box/satellite receiver and press the POWER button. The remote will turn off your set-top-box/satellite receiver when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-topbox/satellite receiver does not turn off, try a different four digit preset code.
- 6. The remote will now control your set-topbox/satellite receiver.
- **NOTE:** 1. If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/ satellite receiver code has not been precoded into the remote.
 - 2. In the unlikely event that your set-topbox/satellite receiver 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.

PRECODED SET-TOP-BOX/SATELLITE RECEIVER buttons These buttons transmit the chosen pre-coded settop-box/satellite codes.

② EXCLUSIVE TV buttons These buttons are for operating the TV.



MY Satellite RECEIVER/ SET-TOP-BOX CODE IS: ___

NOTE: Refer to instruction manual of the Set-Top-Box/Satellite Receiver for operation of the buttons exclusively for the Set-Top-Box/Satellite Receiver.

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 to pages 42-43 for pre-codes).

- 1. Turn ON your DVD player.
- 2. Aim the remote control at the front of your DVD player.
- To switch to DVD pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
- Hold down the ENT button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 42-43. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct four 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 four digit preset code.
- 6. The remote will now control your DVD player.
- 7. You will need to set the display type of your DVD player to 16:9 widescreen.
- **NOTE:** 1. If your DVD player cannot be operated after performing the above procedures, your DVD player code has not been precoded into the remote.
 - 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.

① PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

② EXCLUSIVE TV Buttons These buttons are for operating the TV.



MY DVD PLAYER CODE IS:

NOTE: Refer to instruction manual of the DVD Player for operation of the buttons exclusively for the DVD Player.

Operating the precoded function for your VCR/PVR (Personal Video Recorder).

This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 42-43 for pre-codes).

- 1. Turn ON your VCR/PVR.
- 2. Aim the remote control at the front of your VCR/PVR.
- To switch to VCR/PVR pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
- Hold down the ENT button on the remote and enter the four digit preset code that matches your VCR/PVR, as shown on pages 42-43. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the VCR/PVR and press the POWER button. The remote will turn off your PVR when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your VCR/PVR. If the VCR/PVR does not turn off, try a different four digit preset code.
- 6. The remote will now control your VCR/PVR.
- **NOTE:** 1. If your VCR/PVR cannot be operated after performing the above procedures, your VCR/PVR code has not been precoded into the remote.
 - 2. In the unlikely event that your VCR/PVR cannot be operated after performing the above procedures, please consult your VCR/PVR 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.
- PRECODED VCR/PVR Buttons
 These buttons transmit the chosen precoded VCR/PVR codes.
- ② **EXCLUSIVE TV Buttons** These buttons are for operating the TV.



MY VCR/PVR CODE IS:

NOTE: Refer to instruction manual of the VCR/PVR for operation of the buttons exclusively for the VCR/PVR.

The Remote Control for Additional Audio Equipment

Operating the precoded function for your Audio component.

This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to pages 42-43 for pre-codes).

- 1. Turn ON your Audio component you wish to control with the Remote.
- 2. Aim the remote control at the front of your Audio component.
- To switch to Audio (AMP) component pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your Audio component, as shown on pages 42-43. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different four digit preset code.
- 6. The remote will now control your Audio component.
- 7. Repeat steps 1 6 if you wish to program the remote to control another Audio component.
- **NOTE:** 1. If your Audio component cannot be operated after performing the above procedures, your Audio component code has not been precoded into the remote.
 - 2. In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio component 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.

1 PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

② EXCLUSIVE TV Buttons These buttons are for operating the TV.



MY AUDIO COMPONENT CODE IS:

NOTE: Refer to instruction manual of the VCR/PVR for operation of the buttons exclusively for the VCR/PVR.

How to Use the ENT Button

INPUT ACCESS

This optional feature allows the user of the remote control to setup it's ENTER (ENT) button to access the specified input of the TV. Setup for this feature is applicable to the remote control's normal mode only and only applies to the DVD, CBL, STB, PVR and AMP modes.

- Select the desired device mode (DVD, CBL, STB, PVR, or AMP) by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to the corresponding selection.
- Hold down the ENTER (ENT) button on the remote and enter the four digit preset code that matches your device as shown on pages 42-43.
- 3. Then enter the assigned input number (1-5) that the device is related to.
- 4. Release ENTER (ENT) button.
- 5. If done correctly, the device LED indicator will flash 3 times to confirm proper setup.
- 6. The remote will now control the desired device.
- 7. Pressing the ENTER (ENT) button will now access the video input (1-5) of the desired device.

SETUP EXAMPLE (Hitachi DVD with precode 0573 connected to INPUT 1 of the TV)

- Select DVD mode by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to DVD.
- (2) Hold down the ENTER (ENT) button and press the numbers 0, 5, 7 and 3.
- (3) Then press the number 1 for the assigned input number of the DVD player.
- (4) Release ENTER (ENT) button.
- (5) If done correctly, the device LED indicator will flash 3 times to confirm proper setup.
- (6) The remote will now control the DVD player.
- Press the ENTER (ENT) button to instantly access the video input of your DVD on Input 1.



NOTE: 1. This feature is optional

2. Assigned input numbers can be used more than once if applicable.

Remote Control Codes

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VCR BRAND	
ABS	
Admiral0048,	0209
Adventura	.0000
Aiko	.0278
Aiwa0000, 0037,	0307
Akai0041, 0061,	0106
Alienware	
America Action	0278
American High	
Asha	
Audiovox0037.	
Beaumark	
Bell & Howell	
Broksonic0121,	
0002, 0209,	
CCE0072,	
Calix	
Canon	.0035
Carver	.0081
Cineral	.0278
Citizen0278,	0037
Colt	.0072
Craig0037,	
Curtis Mathes0035,	
CyberPower	
Cybernex	
Daewoo0278, 0045,	
Dell	
Denon	
Durabrand0039,	
Dynatech	.0000
Electrohome	.0037
Electrophonic	.0037
Emerex	
Emerson0037, 0184, 000,	
0043, 0209, 0002, 0278,	
0208, 0212, 0479, 0561,	1593
Fisher0104, 0047,	0066
Fisher0104, 0047, Fuji0033,	0066 0035
Fisher0104, 0047, Fuji0033, Funai0000,	0066 0035 1593
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060,	0066 0035 1593 0240,
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 0202,	0066 0035 1593 0240, 0761
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 0202, Garrard	0066 0035 1593 0240, 0761 .0000
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 0202, Garrard	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008
Fisher0104, 0047, Fuji0033, Funai0000, GE0005, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 0202, Garrard	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972
Fisher0104, 0047, Fuji0033, Funai0000, GE0005, 0060, 0202, Garrard	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 0202, Garrard	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072
Fisher0104, 0047, Fuji0033, Funai0000, GE0035, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072 .0046
Fisher0104, 0047, Fuji0033, Funai0000, GE0005, 0060, 	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072 .0046 .1972
Fisher0104, 0047, Fuji0033, Funai0000, GE0005, 0060, 00202, Garrard	0066 0035 1593 0240, 0761 .0000 1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072 .0046 .1972 0105
Fisher	0066 0035 1593 0240, 0761 .0000 .1972 0526 0038 0008 .0047 .1972 .0000 0081 .0072 .0046 .1972 .1972
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0047 1972 0000 0081 0072 0008 1972 0046 1972 0105
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 00046 1972 0105 1972 0042
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0008 1972 0105 1972 0042 1972 0048
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0008 0008 1972 0000 0081 0072 0042 1972 0105 1972 0042 1972 0042
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0008 0008 1972 0000 0081 0072 0046 1972 0105 1972 0042 1972 0042
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0000 0081 0072 0046 1972 0046 1972 0105 1972 0105
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0004 0081 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0008 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 0041 0278 0008 0037
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0046 1972 0105 1972 0042 1972 0042 1972 0041 0278 0008 0041 0278 0037
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0006 1972 0105 1972 0046 1972 0046 1972 0048 0072 0008 0041 0278 0007 0037
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0042 1972 0042 1972 0042 1972 0042 1972 0042 1972 0042 1972 0043 0072 0088
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0047 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0047 1972 0046 1972 0047 0047 0047 0047 0047 0047 0046 1972 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0046 0072 0072 0072 0072 0072 0072 0072 007
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0008 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0042 0041 0278 0008 0041 0278 0037 0037 0037 0208
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0008 1972 0046 1972 0046 1972 0046 1972 0046 1972 0046 1972 0042 0041 0278 0008 0041 0278 0037 0037 0037 0208
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0000 0081 0072 0046 1972 0105 1972 0042 1972 0042 1972 0042 0041 0278 0008 0037 0037 0037 0035 0061
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0006 1972 0105 1972 0046 1972 0046 1972 0047 1972 0047 1972 0048 0041 0278 0037 0037 0037 0037 0035
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 00047 1972 0000 0081 0072 0006 1972 0042 1972 0042 1972 0042 1972 0042 1972 0042 1972 0042 0072 0037 0037 0037 0037 0035 0061 0240
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0047 1972 0008 0047 1972 0008 1972 0046 0038 0037 0046 0038 0037 005 005 005 005 005 005 005 005 005 00
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0047 1972 0008 0047 1972 0008 1972 0046 0038 0037 0046 0038 0037 005 005 005 005 005 005 005 005 005 00
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0008 0047 1972 0046 1972 0046 1972 0046 1972 0042 0041 0278 0008 0041 0278 0037 0037 0037 0037 0037 0035 0061 .0240 0240 00563,
Fisher	0066 0035 1593 0240, 0761 0000 1972 0526 0038 0008 0047 1972 0000 0081 0072 0046 1972 0105 1972 0046 1972 0047 1972 0047 1972 0040 1972 0041 0278 0038 0037 0037 0037 0037 0037 0037 00

Marta003	7
Matsushita0035, 0162, 116	
Media Center PC197	
Memorex0035, 0162, 0037	
0048, 0039, 0047, 0240),
0000, 0104, 0209, 0046	
0307, 0479, 1037, 1162, 126	
Microsoft197	2
Mind197	2
Minolta0042, 010	5
Mitsubishi 0061, 0043, 006	
Motorola0035, 004	, R
Multitech0000, 007	
NEC0038, 0041, 0067, 010	
Nikko003	
Noblex024	
Northgate197	
Olympus003	5
Optimus0593, 1062, 0162	2,
	2,
	2
Optonica006	
Orion0184, 0209, 0002, 047	9
Panasonic0162, 1062, 0035	
Penney0035, 0037, 0240, 0042	
	-, Ω
Pentax003	5
Philco0035, 0209, 0479, 056	
Philips0081, 0035, 0618	5,
1081, 1181, 006	
Pilot003	
Pioneer006	7
Polk Audio008	1
Profitronic024	0
Proscan0060, 0202, 076	1
Protec	
Pulsar003	
Quarter004	
Quartz	6
Quasar0035, 0162, 116	2
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105	2 5,
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088	2 5, 0
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103	2 5, 0 7
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003	2 5, 0 7 7
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003	2 5, 0 7 7 7
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003	2 5, 0 7 7 7
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046	2, 0, 0, 7, 7, 8, 8, 5, 6, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 7, 7, 8, 7, 8, 7
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 006	25,07778,6
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 006	25,07778,6
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 006 ReplayTV0614, 061	25,07778,5,66
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 0066 ReplayTV0614, 0611 Runco003	25,07773,5,669
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 006 ReplayTV0614, 061 Runco003 STS004	25,07773,5,6692
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex0035, 0037, 0048 0047, 0000, 0104, 0046 0047, 0000, 0104, 0046 ReplayTV0614, 061 Runco003 STS0045, 0240, 043	25,07773,5,66922
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 006 ReplayTV0614, 061 Runco003 STS0045, 0240, 043 Sansky0039, 004	25,07773,5,669228
Quasar0035, 0162, 1163 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 0888 Radio Shack0000, 103 Radix0033 Randex0033 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 0066 ReplayTV0614, 0611 Runco003 STS0045, 0240, 0433 Sanky0039, 0044 Sansui0000, 0067, 0205	25,07773,5,669228),
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Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 ReplayTV0614, 0611 Runco003 STS0045, 0240, 043 Sansung0045, 0240, 043 Sansui0000, 0067, 0209 0041, 0479, 1479, 027 Sanyo0047, 0240, 0104, 0044 Scott0184, 0045, 0121 0043, 0210, 021 Sears0035, 0037, 0047, 00007	25,07773,5,6692289,16,2)
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack0000, 103 Radix003 Randex003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 ReplayTV0614, 061 Runco00614, 061 Runco003 STS0045, 0240, 043 Sansung0045, 0240, 043 Sansui0000, 0067, 0209 0041, 0479, 1479, 027 Sanyo0047, 0240, 0104, 004 Scott0184, 0045, 0121 0043, 0210, 021 Sears0035, 0037, 0047, 0006	25,07773,5,6692289,16,2),5,
Quasar0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0220, 0761, 088 Radio Shack0000, 103 Radix003 Realistic0035, 0037, 0048 0047, 0000, 0104, 0046 0047, 0000, 0104, 0046 ReplayTV0614, 0614 Runco003 STS0045, 0240, 043 Samsung0045, 0240, 043 Sanky0040, 0067, 0209 0041, 0479, 1479, 027 Sanyo0047, 0240, 0104, 0044 Scott0184, 0045, 0121 0043, 0210, 021 Sears0035, 0037, 0047, 0000 0042, 0104, 1237, 0046, 0066 010	25,07773,5,6692289,16,2),5,5
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Quasar 0035, 0162, 1163 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack 0000, 103 Radix 0033 Radix 0033 Radix 0033 Realistic 0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 0061 ReplayTV 0614, 061 Runco 0039, 004 Sansung 0045, 0240, 043 Sanky 0039, 004 Sansui 0000, 0067, 0202 0041, 0479, 1479, 027 Sanyo .0047, 0240, 0104, 0044 Scott	25,07773,5,6692289,16,2),5,552
Quasar 0035, 0162, 1163 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack 0000, 103 Radix 0033 Radix 0033 Radix 0033 Realistic 0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 0061 ReplayTV 0614, 061 Runco 0039, 004 Sansung 0045, 0240, 043 Sanky 0039, 004 Sansui 0000, 0067, 0202 0041, 0479, 1479, 027 Sanyo .0047, 0240, 0104, 0044 Scott	25,07773,5,6692289,16,2),5,552
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Quasar 0035, 0162, 116 RCA0060, 0240, 0042, 0105 0106, 0202, 0761, 088 Radio Shack 0000, 103 Radix 0003 Realistic 0035, 0037, 0048 0047, 0000, 0104, 0046 0062, 0064 0047, 0000, 0104, 0046 0062, 0064 ReplayTV 0614, 0611 Runco 0033 STS 0044 Sansung 0045, 0240, 043 Sanky 0039, 004 Sansung 0047, 0240, 0104 Sansu 0030, 0067, 0209	25,07773,5,669228),16,2),5,5522026),2),3
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Thomas	0000
Tivo0618, 0636,	
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Coby Curtis Mathes CyberHome0816, 1023, DVD2000	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591
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Coby Curtis Mathes	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675
Coby Curtis Mathes CyberHome0816, 1023, DVD2000	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815
Coby Curtis Mathes CyberHome0816, 1023, DVD2000 Daewoo0833, 0869, Denon0490, Dual1068, Emerson0591, Enterprise Fisher Funai	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073 0783,
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Coby Curtis Mathes	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 0675 0591 0670 0675 , 0815 , 0769 1073 1075 0651
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, , 1918 , 0634 , 0675 0591 0670 0675 , 0815 , 0769 1073 , 1075 0651 0717
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, 1918 , 0634 , 1085 , 0675 0675 0675 0675 0675 0675 0675 0675 0673 0783, , 1075 0651 0717 0705
CobyCurtis Mathes	1086 1087 , 1024 0521 , 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073 , 1075 0651 0717 0702
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Coby Curtis Mathes	1086 1087 , 1024 0521 0705, 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073 0783, 1075 0651 0717 0705 0705 0705 0672 0672 0783
CobyCurtis Mathes	1086 1087 , 1024 0521 0705, 1918 , 0634 , 1085 , 0675 0675 0675 0675 0675 0675 0675 0783 0717 0705 0702 0783 0783 0717
CobyCurtis Mathes	1086 1087 ,1024 0521 ,0705, ,1918 ,0634 ,1085 ,0675 0675 0670 0670 0675 ,0769 ,0769 ,0783, ,1075 0702 0702 0702 0702 0783 0771 0783
CobyCurtis Mathes	1086 1087 , 1024 0521 , 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 0707 0705 0671 0717 0702 , 0695 072 0783 0712 0627 0627
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073 0783, 1075 0651 0717 0705 0672 0672 0672 0683 0717
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Coby Curtis Mathes	1086 1087 ,1024 0521 ,0705, ,1918 ,0634 ,1085 ,0675 0591 0670 0675 ,0815 ,0763 0703 0703 0702 0702 0702 0783 0772 0627 0627 0627 0627 0627 0627
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CobyCurtis Mathes	1086 1087 , 1024 0521 , 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0763 0675 0671 0705 0705 0705 0702 0783 0717 0627 0672 0783 0712 0672
Coby Curtis Mathes	1086 1087 , 1024 0521 0705, 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 1073 0783, 0717 0705 0671 0705 0672 0672 0672 0672 0672 0672 0672 0702 , 1901 , 1020 0798
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Coby	1086 1087 ,1024 0521 ,0705, ,1918 ,0634 ,1085 ,0675 0591 0670 0675 ,0815 ,0769 0675 0670 0703 0703 0777 0705 0702 ,0695 0772 072 0783 0772 075 072 075 072 075 075 075 075 075 075 0772 0755 0755
Coby	1086 1087 ,1024 0521 ,0705, ,1918 ,0634 ,1085 ,0675 0591 0670 0675 ,0815 ,0769 0675 0670 0703 0702 0702 0783 0772 0625 0783 0772 0627 0627 0627 0672 0792 0793 0790 ,0534 0798 0798 0798 0798 0795 ,0798 0795 0798 0798 0795 0795 0798 0798 0795 0795 0798 0798
Coby	1086 1087 ,1024 0521 ,0705, ,1918 ,0634 ,1085 ,0675 0591 0670 0675 ,0815 ,0769 0675 0670 0703 0702 0702 0783 0772 0625 0783 0772 0627 0627 0627 0672 0792 0793 0790 ,0534 0798 0798 0798 0798 0795 ,0798 0795 0798 0798 0795 0795 0798 0798 0795 0795 0798 0798
Coby	1086 1087 , 1024 0521 , 0705, , 1918 , 0634 , 1085 , 0675 0591 0670 0675 , 0815 , 0769 0675 0670 0703 0707 0705 0702 0783 0717 0705 0672 0702 0783 0717 0627 0627 0672 0702 0702 0702 0798 0798 10798 1078 0651 0798 1078 0651 0798 1078
Coby	1086 1087 ,1024 0521 0705, ,1918 ,0634 ,1085 ,0675 0591 0670 0670 0675 ,0815 ,0769 1073 ,0783 ,1075 0651 0717 0705 0672 0783 0717 0625 0672 0672 0672 0672 0672 0672 0672 0783 0717 0655 0672 0783 0717 0655 0672 0798 0798 0798 0798 0798 0798 0539 0539 0539 0539 0539 0539 0539 0539 0539 0551 0798 0591 0798 0591 0593 0595 0675 0798 0798 0798 0595 0591 0599 0595 0675 0798 0798 0599 00798 0599 0599 0599 0798 0798 0798 0591 0798 0798 0798 0591 0798 0798 0798 0798 0798 0591 0798 0798 0798 0591 0798 0799 0799 0799 0799 0799 0797 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0799 0798 0539 0539 0539 0539 0539 0539 0539

Mintek	0717	0839
Mitsubishi		
Nesa		
Norcent	.1003,	0872
Onkyo	.0627,	0503
Oritron		
Panasonic		
Philco		
Philips0503, 0539,	0646,	0854
Pioneer0525,	0571.	1902
Polaroid	1061	1086
Polk Audio		
Proscan		
Qwestar		.0651
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0790,	0000	1074
Recco		
Rio		
Rotel		.0623
Rowa		0823
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Sampo	.0698,	0752
Samsung	0490,	0573,
	0744,	1075
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Semp		
Sharp	.0630,	0752
Shinsonic	.0533.	0839
Sonic Blue		
Sony		
Sylvania		
Symphonic		.0675
түт		0705
Teac		
Technics		
Theta Digital		.0571
Tivo		.1996
Toshiba0503,	0695	1045
	1000	0006
Tredex		
US Logic		.0839
US Logic		.0839
US Logic Urban Concepts		.0839 .0503
US Logic Urban Concepts Venturer		.0839 .0503 .0790
US Logic Urban Concepts Venturer XBox		.0839 .0503 .0790 .0522
US Logic Urban Concepts Venturer XBox		.0839 .0503 .0790 .0522
US Logic Urban Concepts Venturer		.0839 .0503 .0790 .0522 0539
US Logic Urban Concepts Venturer XBox Yamaha0490,		.0839 .0503 .0790 .0522 0539
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591,	0545, 0503,	.0839 .0503 .0790 .0522 0539 0869
US Logic Urban Concepts Venturer	0545, 0503,	.0839 .0503 .0790 .0522 0539 0869
US Logic Urban Concepts Venturer	0545, 0503, (0011,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013,
US Logic Urban Concepts Venturer XBox	0545, 0503, 00011, .0014,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017
US Logic Urban Concepts Venturer XBox	0545, 0503, (0011, .0014, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315
US Logic Urban Concepts Venturer XBox	0545, 0503, 0011, .0014, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899
US Logic Urban Concepts Venturer	0545, 0503, 0011, .0014, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014
US Logic Urban Concepts Venturer	0545, 0503, (0011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899 .0022
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, ABC0003, 0008, Antericast Antericast Antronix Archer022, Bell & Howel Bell South Cabletenna Cableview	0545, 0503, (0011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899 .0022 .0022
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cabletenna Cableview Century	0545, 0503, 0011, .0014, .0153, 0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899 022 0797 .0014 .0899 022 0797
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cableview Century Citizen	0545, 0503, 00011, .0014, .0153, 0153, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899 .0022 .0022 .0153 0315
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cabletenna Cableview Century	0545, 0503, 00011, .0014, .0153, 0153, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0017 0315 .0899 022 0797 .0014 .0899 .0022 .0022 .0153 0315
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE 0013, 0013 .0899 022 0797 .0014 .0899 .0022 .0022 .0022 .0153 .0315 .0883
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153, .0153,	.0839 .0503 .0790 .0522 0539 0869 CODE .0013, 0017 0315 .0899 022 0797 .0014 .0899 .0022 .0153 0315 .0883 .0883
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice	0545, 0503, 00011, 0014, 0153, 0153, 0153, 0153,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0017 0017 0017 0017 .0022 .0022 .0022 .0022 .0022 .0153 00315 .0889 0031
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0022, Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics	0545, 0503, 0011, .0014, .0153, 0153, 0153, .00153, .0025,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0014 .022 0797 .0014 .0899 .0022 .0022 .0022 .0153 0315 .0883 .0883 .0883 .0031 .0040
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice	0545, 0503, 0011, .0014, .0153, 0153, 0153, .00153, .0025,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0014 .022 0797 .0014 .0899 .0022 .0022 .0022 .0153 0315 .0883 .0883 .0883 .0031 .0040
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0022, Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics	0545, 0503, 0011, .0014, .0153, 0153, .0153, .0025,	.0839 .0503 .0790 .0522 .0539 .0869 .0013, .0017 .0014 .022 .0797 .0014 .0899 .0022 .0153 .0883 .0823 .0883 .0883 .0040 .0040
US Logic Urban Concepts Venturer	0545, 0503, 0011, 0014, 0153, 0153, 0153, 0153,	.0839 .0503 .0790 .0522 .0539 .0869 .0013, .0017 .0315 .0899 .0022 .0153 .0849 .0022 .0153 .0843 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0044 .00315 .0044 .0040 .00315 .0044 .0040 .00315 .0044 .0040 .0040 .0045 .0040 .00315 .00404 .00400 .0040 .00400 .0040 .0040 .00400 .0040 .0040 .0040 .00
US Logic Urban Concepts Venturer	0545, 0503, 00011, 0014, 0153, 0153, 0153, 00153,	.0839 .0503 .0790 .0522 .0539 .0869 .0013 .0017 .0315 .0899 022 .0797 .0014 .0899 .0022 .0022 .0022 .0153 .0883 .0883 .0315 .0883 .0040 .0019 .00483 .0683 .0683
US Logic Urban Concepts Venturer	0545, 0503, 0011, 0014, 0153, 0153, 0153, 00153,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0315 .0899 022 0797 .0014 .0022 .0022 .0022 .0022 .0022 .0053 .0315 .0883 .0883 .0883 .0031 .0040 .0019 .0883 .0040 .0053 .0883 .0053 .0053 .0053 .00555 .005555 .00555 .00555 .005555 .005555 .005555 .005555 .005555 .005555 .0055555 .005555 .00555555 .0055555555
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, ABC0003, 0008, BEL BRAND Archer022, Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contec Contec Coolmax Digi Director Dumont	0545, 0503, 00011, .0014, .0153, 0153, .0153, .0025,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0017 0017 0017 0017 0017 0017 001
US Logic Urban Concepts Venturer	0545, 0503, 00011, .0014, .0153, 0153, .0153, .0025,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0017 0017 0017 0017 0017 0017 001
US Logic	0545, 0503, 0011, .0014, .0153, 0153, 0153, .00153, .0025,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0014 .022 0797 .0014 .0899 .0022 .0022 .0022 .0153 0315 .0883 0031 .0040 .0031 .0040 .0019 .04637 .0476
US Logic	0545, 0503, 0011, 0014, 0153, 0153, 0153, 00153, 0025, 0025, 0025,	.0839 .0503 .0790 .0522 .0539 .0869 .0013, .0017 .0315 .0899 .0022 .0153 .0829 .0022 .0153 .0843 .0022 .0153 .0843 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0406 .0637 .0470 .0470 .0797 .0406
US Logic Urban Concepts Venturer	0545, 0503, 0011, 0014, 0153, 0153, 0153, 00153, 0025, 0025,	.0839 .0503 .0790 .0522 .0539 .0869 .0013 .0017 .0315 .0899 022 .0797 .0014 .0899 .0022 .0022 .0022 .0022 .0022 .00315 .0883 .0883 .0883 .0883 .0031 .0040 .0040
US Logic Urban Concepts Venturer XBox Yamaha0490, Zenith0591, CABLE BRAND ABC0003, 0008, Allegro Americast Antronix Archer022, Bell & Howel Bell South Cabletenna Cableview Century Citizen Citizen Citizen Citizen CiearMax Clearmaster Colour Voice Contronics Contec Comtronics Contec Contec Coolmax Digi Director Dumont Everquest Focus	0545, 0503, 0011, 0014, 0153, 0153, 0153, 0015, 0025, 0025, 0015,	.0839 .0503 .0790 .0522 0869 .0013, 0017 0315 .0899 022 0797 .0014 .0022 .0022 .0022 .0022 .0022 .0022 .0023 .0031 .0315 .0883 .0031 .0040 .0037 .0476 .0637 .0476 .0400 .0400 .0153
US Logic	0545, 0503, 00011, .0014, .0153, 0153, .0153, .00153, .0025, .0025, .0015, .0015, .0015, .0015,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 0017 0017 0017 0017 0017 0018 0022 .0025 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0025 .0035 .0025 .0035 .0025 .0055 .0057 .0
US Logic	0545, 0503, 00011, .0014, .0153, 0153, .0153, .00153, .0025, .0025, .0015, .0015, .0015, .0015,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 0017 0017 0017 0017 0017 0018 0022 .0025 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0025 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0040 .0057 .0
US Logic Urban Concepts Venturer XBox	0545, 0503, 00011, 00153, 0153, 0153, 00153, 00155, 00025, 00015, 00015, 00015,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 0017 0017 0017 0017 0017 0018 0022 0022 .0022 0022 0022 0022 0022 00
US Logic	0545, 0503, 0011, 0014, 0153, 0153, 0153, 00153, 0025, 0025, 0025, 00025, 00025, 00025, 0003, 0003, 0276,	.0839 .0503 .0790 .0522 .0539 .0869 .0013, .0017 .0315 .0899 .0022 .0153 .0829 .0022 .0153 .0828 .0022 .0153 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0848 .00315 .0849 .0040 .0440 .04400 .04507 .04400 .04507 .04400 .04507 .04577 .04577 .04577 .04577 .04577 .04577 .04577 .04577 .045777 .045777 .045777777777777777777777777777777777777
US Logic	0545, 0503, 0011, 0014, 0153, 0153, 0153, 00155, 0025, 0025, 00015, 00015, 0003, 00276, 0003,	.0839 .0503 .0790 .0522 .0539 .0869 .0013 .0017 .0315 .0899 .0022 .0797 .0024 .0022 .0153 .0883 .0031 .0315 .0883 .0031 .0040 .0019 .0040 .0476 .0477 .0797 .0040 .04000 .0400 .0400 .0400 .0400 .04000 .04000 .04000 .04000 .04000 .04000 .04000 .04000 .040000 .04000 .040000 .0400000000
US Logic	0545, 0503, 0011, 0013, 0153, 0153, 0153, 0015, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 0315 .0899 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .0023 .0031 .0315 .0883 .0883 .0883 .0883 .0883 .0883 .0040 .0040 .0637 .0797 .0040 .0153 .0797 .0040 .0153 .0797 .0040 .0153 .0797 .0040 .0153 .0797 .0040 .0153 .0797 .0153 .0819 .0797 .0153 .0797 .0797 .0153 .0797 .0797 .0153 .0797 .0
US Logic	0545, 0503, 00011, 00153, 0153, 0153, 0153, 0015, 00025, 00025, 00015, 00015, 0003, 0276, 00034,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 00315 .0899 022 0097 .0014 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .00315 .0883 0031 .0040 .00383 .0047 .00489 .0040 .0053 .0476 .0637 .0476 .0637 .0476 .0400 .0153 .0797 .0153 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0257 .0253 .0253 .0253 .0257 .0253 .0253 .0257 .0257 .0253 .0253 .0257 .0253 .0253 .0253 .0253 .0257 .02533 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .025
US Logic	0545, 0503, 00011, 00153, 0153, 0153, 0153, 0015, 00025, 00025, 00015, 00015, 0003, 0276, 00034,	.0839 .0503 .0790 .0522 00539 0869 .0013, 0017 00315 .0899 022 0097 .0014 .0022 .0022 .0022 .0022 .0022 .0022 .0022 .00315 .0883 0031 .0040 .00383 .0047 .00489 .0040 .0053 .0476 .0637 .0476 .0637 .0476 .0400 .0153 .0797 .0153 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0253 .0252 .0253 .0257 .0253 .0253 .0253 .0257 .0253 .0253 .0257 .0257 .0253 .0253 .0257 .0253 .0253 .0253 .0253 .0257 .02533 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .0253 .025

Remote Control Codes

Jasco0015, 0153,	0315
Jerrold 0003, 0011,	0012
0014, 0015, 0024, 0276, 0	
	.0810
Memorex	.0000
Motorola 0276, 0476,	
	1076
Movie Time	.0063
Multivision	.0012
NSC	0063
Novaplex	
Oak	
Optimus	.0021
Pace0237,	1877
Panasonic0000, 0021,	
Panther	
Paragon	.0000
Philips0305,	0317
Pioneer0023, 0025, 0031,	
	4077
0144, 0533, 0877,	18//
Popular Mechanics	
Pulsar	.0000
Quasar	
RCA	
	.0021
RadioShack 0015, 0315,	0797,
	.0883
Recoton	.0400
Regal0020, 0273,	
Rembrandt	
Runco	
SL Marx	
Samsung0040,	0144
Scientific Atlanta0877.	0008.
Scientific Atlanta0877,	0008,
Scientific Atlanta0877,0017, 0477,	0008, 1877
Scientific Atlanta0877, 0017, 0477, Signal0015,	0008, 1877 0040
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature Sony	0008, 1877 0040 0011 1006
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature Sony	0008, 1877 0040 0011 1006 0021
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature Sony Sprucer	0008, 1877 0040 0011 1006 0021 0015
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006 0021 0015 0797
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006 0021 0015 0797 0015
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006 0021 0015 0797 0015 0276
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006 0021 0015 0797 0015 0276
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 .1006 .0021 0015 0797 0015 0276 0883
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 1006 0021 0015 0797 0015 0276 0883 0310
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 0021 0015 0797 0015 0276 0883 0310 0063
Scientific Atlanta0877, 	0008, 1877 0040 0011 .1006 0021 0015 0797 0015 0276 0883 0310 0063 0258
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 .1006 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221
Scientific Atlanta0877, 	0008, 1877 0040 0011 .1006 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221
Scientific Atlanta0877, 0017, 0477, Signal0015, Signature	0008, 1877 0040 0011 .1006 0021 0015 0797 0015 0.0276 0883 02310 0063 0258 0221 0040
Scientific Atlanta0877, 	0008, 1877 0040 0011 .1006 .0021 0015 0797 .0015 .0276 .0883 .0310 0268 .0221 .0221 .0040 0040
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 0021 0015 0797 0015 0276 0883 0210 0063 0258 0221 0040 0040 0013
Scientific Atlanta 0877,0017, 0477, Signal Signal 0015, Signature Sony	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0210 .0883 .0258 .0221 .0063 .0221 .0040 .0040 .0040
Scientific Atlanta 0877,	0008, 1877 0040 0011 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0003 .0000
Scientific Atlanta 0877,0017, 0477, Signal Signal 0015, Signature Sony	0008, 1877 0040 0011 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0003 .0000
Scientific Atlanta 0877,	0008, 1877 0040 0011 .1006 .0021 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0003 .0000 .0083
Scientific Atlanta 0877,	0008, 1877 0040 .0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0276 .0883 .0271 .0063 .0268 .0221 .0040 .0063 .0258 .0221 .0040 .0013 .0040 .0040 .0040 .0040 .0040 .0055 .0055 .0256 .0256 .0256 .0258 .0257 .0258 .0040 .0040 .0058
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0216 .0883 .0258 .0221 .0040 0013 .0000 .0040 0013 .0000 .0883 .0005 0153
Scientific Atlanta 0877,	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0258 .0258 .0221 .0040 0013 .0040 0013 .0003 .0003 .0003 .0003 .0003 .0015 0153 0191
Scientific Atlanta 0877,0017, 0477, Signal Signal 0015, Signature Sony	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0258 .0258 .0221 .0040 .0040 .0040 .0040 .0040 .0040 .0013 .0003 .0003 .0015 0153 .0015 .0258
Scientific Atlanta0877, 	0008, 1877 0040 .0011 .1006 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0000 .0083 .0015 0153 0191 .0883 .0883 .0883
Scientific Atlanta 0877,0017, 0477, Signal Signal 0015, Signature Sony	0008, 1877 0040 .0011 .1006 .0021 0015 0797 .0015 .0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0000 .0083 .0015 0153 0191 .0883 .0883 .0883
Scientific Atlanta0877, 	0008, 1877 0040 .0011 .0015 0797 .0015 0276 .0883 .0276 .0268 .0221 .0040 .0063 .0258 .0221 .0040 .0040 .0023 .0040 .0013 .0040 .0013 .0053 .0258
Scientific Atlanta0877, 	0008, 1877 0040 .0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0276 .0883 .0221 .0063 .0268 .0221 .0040 .0063 .0258 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .005
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0216 .0883 .0221 .0063 .0228 .0221 .0040 0013 .0000 .0083 .0000 .0883 .0015 0153 0191 .0883 .0883 .0883 .0883 .0883
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0258 .0221 .0040 0013 .0040 0013 .0000 .0883 .0015 0153 0191 .0883 0258 .0883 0258 .0883 0258 .0883 0899
Scientific Atlanta0877, 	0008, 1877 0040 0011 1006 .0021 0015 0797 .0015 .0276 .0883 .0258 .0221 .0040 0013 .0040 0013 .0000 .0883 .0015 0153 0191 .0883 0258 .0883 0258 .0883 0258 .0883 0899

SATELLITE BRAND (Set-Top-

Box)CODE
AlphaStar0772
Amway0043, 0075
Astro Industries0095
BSR0095
Cable Innovations0554
Capetronic0095
Century0856
Channel Master0018, 0212
Chapparral0053, 0209, 0216
Conifer0004
Crossdigital1109
Curtis Mathes061
DX Antenna0041
DirecTV0392, 0566, 0639,

of codes	
Dish Network System1005,	
0775, 1170	
DishPro1005, 0775	
Drake0018, 0064, 0245	
Echostar1005, 0775, 0148,	
0269, 0280, 1170	
Expressvu0775	
GE0566 GOI0775	
General Instrument	
Gradiente	
HTS0775	
Hitachi0819	
homecable0238	
Hughes Network Systems 1142,	
0749, 1749, 1442, 1443, 1444 Hytek0095	
IQ0210	
IQ Prism0210	
Innova0099	
Intersat0043	
JVC0775, 1170	
Janeil0152	
Legend	
Macom0018, 0061 Magnavox0724, 0722	
Memorex0724, 0269	
Mitsubishi0749	
Motorola0869	
Netsat0099	
Next Level	
Norsat0004 Pace0455	
Panasonic0247, 0701, 0152	
Paysat0724	
Philips 1142, 0749, 0724, 1076,	
0722, 1749, 0856, 0099	
Pico0075	
Proscan	
RCA0392, 0566, 0855, 0143 Radioshack0869, 0554	
Ramsey0009, 0004	
Realistic0052	
SKY0856, 1856, 0099	
STS0041, 0210	
Samsung1276, 1109	
Sony0639, 1639	
Star Choice	
Star Trak0180, 0421, 0547 Strong0421	
Tivo1142, 1442, 1443, 1444	
Toshiba0749, 1749, 0790,	
0061, 0082, 1052, 1053,	
1054, 1285, 1286, 1287, 1289	
Town & Country0547	
Uniden 0724, 0722, 0052, 0074,	
0076, 0238, 0370, 0554 Zenith0856, 1856, 0061, 0064	
AMPLIFIER BRANDCODE	
Aiwa0406	
Bose0674 Carver	
Curtis Mathes0300	
Denon	

Lenoxx1561 Linn0269

Luxman.....0165 Magnavox.....0269 Marantz0269, 0321, 0892

	0321
	0395, 0300
	0013, 0300
	0269, 0892
	0300
	0395
	0321
Sonure	
Victor	0331
Wards	0013, 0078, 0211
Yamaha	0354, 0133
RECEIVER E	RAND (Amplifier)
ADC	0531
	0121, 0158, 0189,
0405	
	1074, 1609 1120
	1189, 0042, 0189
Clarinette	0195
Coby	1263
	1136
	s0080
	0004, 1360
	0042
	1263 on0891, 0110,
0189	0110691, 0110,
	ard1181
Hitachi	0228
Integra	0135
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JBL JVC	0110 0074, 1263
JBL JVC KLH	0110 0074, 1263 1428
JBL JVC KLH Kenwood	0110 0074, 1263 1428 .1313, 1570, 1569,
JBL JVC KLH Kenwood 0027,	0110 0074, 1263 1428 1313, 1570, 1569, 0042, 0186, 0239
JBL JVC KLH Kenwood 0027 LXI	0110 0074, 1263 1428 1313, 1570, 1569, 0042, 0186, 0239 0181
JBL JVC KLH Kenwood 0027 LXI Linn	0110 0074, 1263 1428 .1313, 1570, 1569, .0042, 0186, 0239 0181 0189
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Sunfire	1313
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0039	0309
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Victor	
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Walus .0014, 0080, 0138	, 0109
Yamaha0176, 0186	
Yorx.	
Zenith	0857
AUDIO BRAND	
Aiwa0010	
AudioSource	
Cambridge Soundworks	
Carver	
Fisher	
Fosgate	
Harmon/Kardon	
JBL	
JVC	0073
KLH	0351
Magnavox	
Nikko	
Paramount Pictures 0317.	
RCA	
SSI	
Sansui	0325
Schneider	
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Sony0010, Soundesign	0576 0376 0376 0376 0376 0376 0295 1120 0295 1190 126 0639 CODE 0616 0618 .0616 0636
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Sony0010, Soundesign	0576 0376 0376 0376 0376 0376 0295 1120 0295 1190 126 0639 CODE 0616 0618 .0616 0636

The Simple Remote Control

HITACHI has provided a second remote control for your convenience. The Simple Remote Control has the basic features that are most often used (Only for HDX models).



(1) **POWER** button

Press Power button to turn the Plasma Television ON or OFF.

2 CH+ (▲) and CH- (▼)

Press the CH+ (\blacktriangle) up or CH- (\triangledown) down buttons to select desired channel or to navigate the on screen display features when in **GUIDE** mode.

③ VOL- (◀) and VOL+ (►)

Press the VOL- (\triangleleft) down or VOL+ (\blacktriangleright) up buttons to select desired sound level or to navigate the on screen display features when in **GUIDE** mode.

(4) SELECT button

Press SELECT button to Select when in MENU and GUIDE mode.

5 MUTE button

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 press the VOLUME Up (\blacktriangleright) button.

6 FAV CH button

Press FAV CH button to access your favorite channels.

⑦ INPUTS button

Pressing the INPUTS button repeatedly will cycle through the input items (see example on page 28).

8 EXIT button

When in MENU mode, this button will exit all On-Screen Displays.

MENU button

Press the MENU button to start the On-Screen Display.

(10) GUIDE button

Press this button to access the TV Guide On-Screen[™] system. (See complete explanation and example on page 53.)

NOTE: The Simple Remote cannot be programmed to control external components.

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 \blacktriangle , \triangledown , \triangleleft and \triangleright) or CHANNEL WHEEL to navigate to a different menu item.
- 3. Press EXIT on the remote control to quickly exit from a menu.



Video	
Picture Mode	Select between 3 pictures modes;
	Day (Dynamic), Day (Normal) and Night.
White Level*	Adjust picture white level.
Black Level**	Adjust picture black level.
Color	Adjust color.

Black Level**	Adjust picture black level.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
Color Temperature	Set this to High for less intense
	color with more blue, set to
	Medium for natural color, set to
	Standard for standard colors or
	Black and White for more
	reddish color.
Black Enhancement	Enhance picture brightness in
	light scenes.
Contrast Mode	Use this function to choose
	between 2 Contrast Mode
	settings.
Noise Reduction	Reduces conspicuous noise in
	the picture.
Auto Movie Mode	Turn On/Off the 3:2 Pulldown
	detection feature.

Color Management	Adjust and balance individual colors to make either deeper or
	more pure according to
	preference.
Color Decoding	Adjust the percentage of Red,
	Green and Color according to
	preference.
Auto Color	The AUTO COLOR function
	automatically monitors and
	adjusts the color to maintain
	constant color levels even after
	a program or channel changes.
	It also maintains natural flesh
	tones while preserving fidelity
	of background colors.
White Balance	<u> </u>
white Balance	Use this function to adjust the
	dark end (Cutoff) and bright end
	(drive) of the White background.
Black Side Panel	Set the gray side bars On/Off
	when watching 4:3 signals in
	standard mode.
Aspect	Choose the picture format
	aspect ratio.
Reset Video Settings	Choose to Reset Video Settings
0	to factory settings.

* and ** For HDX Model Only (HDT models use typical Contrast and Brightness Level Controls).

On-Screen Display

Audio

Treble	Adjust the treble.	
Bass	Adjust the bass.	
Balance	Adjust the balance.	
Surround	Select Surround settings (Off,	
	Wide, Normal)	
Bass Boost	Select Bass Boost option ON or OFF.	
Audio Source	Select between three Audio	
	Sources.	
Internal Speakers	Select internal or external	
	speakers.	
Auto Noise Cancel	Eliminates the noise between	
	stations.	
Perfect Volume	Adjust volume in fixed setting.	
Loudness	Adjust Loudness.	
Language	Select Language options if	
	available.	
Digital Output	Select Optical Output options.	
DRC	Select Dynamic Range	
	Compression to ON or OFF.	

Timers

Set the Clock	Set Clock Settings.
Set Sleep Timer	Set Sleep Timer intervals
	(30 min. intervals, 00:30-3:00).
Set Day/Night Timer	Set Day/Night picture mode
	settings.

Setup	
Set The Menu Options	Choose English, French, or
Set The Screen Saver	Spanish text and Background. Select Screen Saver options
Oet the Ocleen Oaver	to prevent screen burn.
Set The Inputs	Label Video Inputs, VCR, DVD,
	etc.
Set The AV Net *	Set AV NET Wizard
Set The Closed Captions	Feature to display dialogue/text.
Set The Output Terminals	Set Output source options.
CableCARD Information	Access important CableCARD
	and Diagnostics info.
Set The Quick Start Options	Select the TV Quick Start Up options.
Reset The Software	Select to upgrade TV software.
Power Swivel	

NOTE: The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels.

TV Guide On Screen

TV Guide On Screen Set, Control and navigate the system

Channel Manager

Signal MeterAccess Signal Meter.Auto Channel ScanSet Auto Channel Scan.Channel ListSet Channel List.

] Locks

*	
Change Access Code	Change Lock access code.
Engage Lock	Choose to lock channel,
	and/or Side 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.
Alternate Ratings U.S.	Ratings system for DTV Signal
	to block various types of programs

Unlocked Power Swivel

Locked

Power Swivel enabled. Control the motorized Table Top Stand Power Swivel disabled.

- **NOTE:** 1. The Signal Meter feature of the Channel Manager OSD is only available for Digital channels.
 - 2. The CableCARD information feature of the Setup OSD is only available when a CableCARD from your cable operator is installed in the rear panel of the TV.
 - 3. Power Swivel feature is only available when Table Top Stand is connected.

* Only HDX model

Real OSD Appearance for HDT/HDX model is as shown below:

Video 🕞	📄 Video 💽 💽
Audio	Audio
TV Guide On Screen	📮 TV Guide On Screen 🗧
Channel Manager	📮 Channel Manager 🛛 🗧
Locks	Locks
Timers	Timers
Setup	📮 Setup
Power Swivel	Power Swivel
✦Move SEL Select	✦Move SEL Select

HDT

HDX

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.

- 1. Use the **CURSOR** buttons **◄** or **▶** to highlight and select PICTURE MODE settings (Day-Normal, Day-Dynamic or Night).
- 2. Then press the SELECT button to set the mode and return to the Video menu or press EXIT to guit menu.
- 3. There are 3 Picture Modes available for the customer Day (Dynamic), Day (Normal) and Night mode. Day (Dynamic) is the original factory preset mode, this can be changed by adjusting any video setting to your desire conditions. Day (Normal) can be used as a second video setting for daytime viewing. Night is set to watch programing during nigthtime.
- Example : HDX model video menu. MENU Video Audio 🗍 TV Guide Or Channel M Locks Timers Setup Power S ✦ Move SEL Select 🕽 Video Picture Mode Day(Dyr White Leve Black Leve 50% Colo 62% Tint Shar 50% Color T -High Black E 🔵 Contrast M Dyr ✦ Move SEL Select



- Use the **CURSOR PAD** ▲ or ▼ or CHANNEL WHEEL to highlight the function to be adjusted. 1.
- Press the **SELECT** button or the CURSOR PAD ► to select the function settings. 2.
- 3. Press the **CURSOR PAD** ◀ or ► to adjust the function.
- Press **MENU** to return to main menu. 4.
- Press EXIT to quit menu. 5.

Contrast*

Use this function to change the contrast between black and white levels in the picture.

Brightness*

Use this function to adjust overall picture brightness.

White Level**

Use this function to change the white level in the picture.

Black Level**

Use this function to change the black level in the picture.

Color

Use this function to adjust the level of color in the picture. Tint

Use this function to adjust flesh tones so they appear natural.

Sharpness

Use this function to adjust the amount of fine detail in the picture.

* HDT models only/ ** HDX models only

MENU Video Audio TV Guide Or Channel M Locks Timers Setup ver S SEL Select Picture Mo Contrast 50% Bright 62% Color Ξ 50% Ξ Color T Ξ High Off = Black E H Contrast M ✦Move SEL Select

47

Example : HDT model video menu.



Color Temperature

Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color (B/W only for HDX models).

Black Enhancement

Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.

- **NOTE:** 1. If CONTRAST is selected, you are adjusting CONTRAST. The additional menu items **BRIGHTNESS**, COLOR, TINT, and **SHARPNESS** can be selected and adjusted in the same manner.
 - 2. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the **COMPONENT VIDEO Y-PBP**_R input jacks.
 - 3. CABLE and AIR share a Video setting. Also, each of the video inputs have their own independent settings.

Contrast Mode

Use this function to choose between 2 Contrast Mode settings. Set to Dynamic for darker images more in the level of Black, set to Normal for a balanced White to Black level.

Noise Reduction

The **NOISE REDUCTION** function automatically reduces conspicuous noise in the picture without degrading picture quality. Set **NOISE REDUCTION** to **OFF** if the TV experiences picture blocking.

Auto Movie Mode

The **AUTO MOVIE MODE** function turn ON or OFF the 3:2 PULLDOWN DETECTION SPECIAL FEATURE. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pulldown.

When **AUTO MOVIE MODE** is turned ON from the VIDEO menu, your Hitachi Plasma Television will activate the circuitry for this special feature to improve video performance when watching film based sources.

- **NOTE: 1.** When using a Progressive Scan Component or HDMI Input (480p or 720p), AUTO MOVIE MODE will not be available
 - 2. All Video settings are independent of each other based on it's input (Cable/Air, Input 1~5).

Color Management

Use this function to adjust and balance the listed individual colors to make them either deeper or more pure depending on the user's preference. Adjust the GAIN settings to make the color brighter (+) or darker (-). Adjust the PHASE settings to make the colors deeper (+) or normal (-) to match real life colors.

- 1. Use **CURSOR PAD** ▲ or ▼ or CHANNEL WHEEL to
- Press the SELECT button or CURSOR PAD ► to select Set User Colors setting. When the function has a "✓" in the box called "Set User Colors", it is ON.
- 3. Press the **CURSOR PAD** ◀, ►, ▼, ▲ and SELECT button to highlight and adjust individual colors.
- Use the CURSOR PAD ▲ and ▼ to highlight and select "Reset" then press the SELECT button to return all colors to default settings.

NOTE:	When the	Set User	Colors bo	x is not	
	checked,	the listed	colors wil	l be grayed o	ut.





Color Decoding

Use this function to adjust and balance the percentage of Red, Green and Color according to the user's preference in each of the four color temperature settings. Use TINT to adjust flesh tones so they appear natural.

- 1. Use **CURSOR PAD** ▲ or ▼ or CHANNEL WHEEL to highlight functions.
- Press the CURSOR PAD ◄, ►, ▲ or ▼ and SELECT button to highlight and adjust individual colors.

	Video
$ \leq $	Color Decoding
or	RGB R G B
$\dot{\mathbf{x}}$	Red 50%
	Green 50%
	Color 62%
	Tint
	Reset
	Contraction Contraction Contraction

NOTE: The Red and Green adjustments will apply for each color temperature.

Auto Color

The **Auto Color** function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.

NOTE: When receiving Antenna Digital Channel or using Component input, Auto Color will not be available (grayed out).

📄 Video

White Balance

Use the CUTOFF functions to adjust the color temperature of the dark areas of the picture. Use the DRIVE functions to adjust the color temperature of the bright areas of the picture.

- 1. Use the CURSOR PAD ▲ or ▼ or CHANNEL WHEEL to highlight the choice.
- 2. Press the CURSOR PAD ◀ or ► to adjust.
- 3. Press the EXIT button to quit or select White Balance to return to the previous MENU.

Black Side Panel

The **BLACK SIDE PANEL** function turns the gray side bars on/off when watching 4:3 signals in Standard mode or use of the PIP modes.

- 1. Press the CURSOR PAD ◄ or ► to set to ON or OFF.
- 2. Press EXIT to quit menu or select BLACK SIDE PANEL to return to the previous menu.



∢On ▶

NOTE: To prevent uneven aging when watching 4:3 signal, turn off the BLACK SIDE PANEL. It is recommended to watch 4:3 signal with gray side bar.

Aspect

Use this function to select the Picture Format Aspect Ratio.

Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

Mode

Manually select the Aspect Ratio.

Vertical Position

This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9



ZOOM. Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480p signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video is toward top of screen).

- 1. Use the **CURSOR PAD** \blacktriangle or \triangledown to to select menu item.
- 2. Press the **CURSOR PAD** ◀ or ► to adjust the function.
- 3. Press the EXIT to quit the MENU, or select ASPECT to return to the main menu.

NOTE: Vertical Position will not be available in 4:3 Standard and 16:9 Standard modes.

Reset Video Settings

This function allows you to Reset the Video Menu Settings of the present input and return it to the Day-Dynamic VIDEO mode.

- 1. Use CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to highlight functions.
- Press the SELECT button or CURSOR PAD ► to select Reset Video Settings.
- Use the CURSOR PAD ▼ to access at the Reset softkey.
- Press the SELECT button to Reset the Video Settings.

You can 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 the initial conditions as explained above.

If RESET is selected in Input 1, only Input 1 will return to factory conditions.

>	Noise Reduction	Low	
R	🗦 Auto Movie Mode	Off	
$\overline{\mathbf{A}}$	Color Management	-	
~	Color Decoding	-	
_	Auto Color	Off	
	🕽 White Balance		
	Aspect		
	📄 Black Side Panel	Off	
	📮 Reset Video Settings		
	Contract Contract Move SEL Select		

	Video
OR	Select "Reset" to return the video menu settings on this Input to the original factory settings. [Reset]
	Contraction Contraction

Audio

Audio



- 1. Press CURSOR PAD ▲ or ▼ to select menu item.
- 2. Press CURSOR PAD \triangleleft or \blacktriangleright to adjust the function.
- 3. Press EXIT to quit the MENU, or select AUDIO to return to the main menu.

NOTE: If TREBLE is selected you are adjusting treble. The additional menu items Bass and Balance can be selected and adjusted in the same manner.



Audio S

Internal Sp

Perfect Volume

Stere

Off Off

On

Treble

This function controls the high frequency audio to all speakers.

Bass

This function controls the low frequency audio to all speakers.

Balance

This function will control the left to right balance of the Plasma TV internal speakers.

Surround

Surround sound is the concept of expanding the spatial imaging of audio from one dimension (Mono/Left-Right) to two or three dimensions. This is often done to create a more realistic audio environment.

- 1.- Use cursor \blacktriangle or \blacktriangledown to highlight surround option.
- 2.- Use cursor ◀ or ► to select Off, Normal or Wide.
- Off : turns off the surround sound effect.

Normal Surround : Provides the surround effect by locating two or more speakers to the rear of the listener.

Wide Surround : Reproduce much better quality 5 channel sound signals from ordinary stereo contents comparing with normal surround technology. Wide surround enable users to enjoy sound playback in wide surround virtual area like 5 channel contents with ordinary stereo contents.

Bass Boost

This function allows to enhance the low frequency audio performance of your speaker system.

Audio

Audio Source

Multi-Channel Television Sound will allow you to select **STEREO** (a stereo broadcast), **MONO** (monaural sound) used when receiving a weak stereo broadcast or **SECOND AUDIO PROG** (SAP) which may be a secondary language, weather report, etc.

Internal Speakers

This function is useful when setting up the external speakers.

ON	Select this feature if using the internal speakers only.
TV as Center	Select this feature when setting up external speakers from a separate stereo system. The
	TV's speakers will work as the center speaker.
OFF	Select this feature if you prefer to use only speakers from a separate stereo system.

Auto Noise Cancel

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

Loudness

Set this function to ON to emphasize bass and treble at low volume levels.

Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 4 language options (if available).

Digital Output

This function allows you to select between Dolby® Digital and PCM.

Dolby[®] Digital - Select this feature if the TV is connected to an amplifier/receiver with a Dolby[®] Digital only decoder; it will provide six independent soundtrack channels through the optical output jack (Digital Audio).

NOTE: *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

PCM - Select this feature if the TV is connected to an amplifier/receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical output jack (Digital Audio).

DRC

Dynamic Range Compression - Use this function to compress the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night but also to raise the volume of low sound. The default setting is ON.

Use the CURSOR PAD \triangleleft or \blacktriangleright to select the chosen options.

NOTE: The functions Language, Digital Output and DRC are only available when viewing digital programs.

Use the functions at right if your TV is connected to an amplifier/receiver with optical digital input with Dolby Digital or PCM decoder capabilities.

- **NOTE:** 1.- The DRC control affects only Dolby Digital signals decoded internally by the TV.
 - 2.- DRC does not affect the Dolby Digital bitstream available at the digital audio output.





TV Guide On Screen

TV Guide On Screen

The TV Guide On-Screen system is a built-in feature that provides a channel lineup and program listings in your area. Once the setup process is complete, the program listings are automatically updated several times a day.

If using a VCR, you must first setup the Plasma TV as shown on Page 23.

To Setup the TV Guide On Screen System:

 Press the MENU button. Use the CURSOR PAD ▼ to highlight TV GUIDE ON SCREEN, then press the SELECT button.

🗦 Video	
Audio	
🔎 TV Guide On Screen	Þ
Channel Manager	
Locks	
Timers	
🕽 Setup	
Power Swivel	
Move SEL Select	



Note: Pressing the GUIDE button also allows you immediate access to this feature.

2. Press the SELECT button to continue.

Setup Procedure:

Screen 1: Select which country your TV is located in: Use the CURSOR PAD ▲ and ▼ to highlight your TV location (USA or CANADA), then press the SELECT button to continue.

TV Identifying Your Location		
On the following screens, you will be asked to select the arrow keys and the OK key to take you through the setu	appropriate item(s) from a list. U	• For help press INFO
	y steps. Press the INFO key whene	ever you would like details.
Which country is your TV located in?		Next)
Canada		

Screen 2: Enter the zip code (USA) or postal code (Canada):

Use the Numeric buttons and the CURSOR PAD \blacktriangle and \blacktriangledown for letter entries to enter the ZIP code (USA) or postal code (CANADA) of your location.



*For USA is a 5 digit ZIP CODE **For CANADA is a 6 digit ZIP CODE

Screen 3:

Please select which service(s) you would like your TV Guide On ScreenTM to support (Check all that apply):

Use the CURSOR PAD \blacktriangle and \blacktriangledown to highlight your choice, then press the SELECT button then select Next :



Screen 4:

Are the above settings correct ?

Use the CURSOR PAD \blacktriangle and \blacktriangledown to highlight your choice, then press the SELECT button then select Next :

*If all setting are correct please select Yes to continue. *If a setting is wrong please select No to modify.



TV Guide On Screen

Screen 5:

Would you like to use the TV Guide On Screen system to control recording with your VCR? Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button then next. If YES: Please see Screen 6. If NO: Please see Screen 12.



Screen 6:

The screen will show the correct way to setup the VCR with the G-Link. Please confirm the connections (see page 23). Press SELECT button to continue.

Screen 7:

What brand of VCR is connected to this TV ? Use the CURSOR PAD \blacktriangle and \checkmark to highlight your choice, then press the SELECT button to continue.



Screen 8:

This screen shows the stept that you need to follow to make the correct setup of your VCR with the G-LINK. Please check your connection (see Page 23). Press the SELECT button to continue.

GUIDE Configuring a VCR	
Follow steps A, B, C, and D below: A. Please turn on your VCR. B. Insert a tape in your VCR. C. If the tape did not start playing, play the tape. D. Press OK on your TV remote control.	Next) (Back

Screen 9:

Now the TV GUIDE will send the code to control the VCR through the G-Link connection.

s please do not press any keys on any remote control. Hitachi)	

Screen 10:

Did your VCR stop playback of the TAPE ? If Yes then go to screen 11

If No the TV Guide will try a different code and return to screen 9.

If you like to Test this test code again one more time

GUIDE GUIDE	
	For help press INFO
Did your VCR stop playback of the tape?	
(Yes	Next)
No	(Back
Test this code again	

TV Guide On Screen

Screen 11:

Are the settings correct ?

If Yes the TV Guide setup is complete, then press SELECT button to continue.

If No please make the necessary changes in order to complete the TV Guide setup procedure.

Confirm Your Settings	
GUIDE	
You have entered the following TV Guide On Screen system settings. If any setting is marked be able to use that feature until you complete that portion of TV Guide On Screen system setu	NCOMPLETE, you will not .p.
ZIP Code — 92173 (USA) Antenna on "RF" VCR — code 002 (Hitachi)	
Are the above settings correct?	
✓ Yes, finish setup process	Next)
No, repeat setup process	(Back

Screen 12:

This shows that the setup procedure is complete Use the CURSOR PAD \blacktriangle and \checkmark to highlight Next or if you are like to make changes select Back ; Then press SELECT button to continue or finish.



Screen 13:

When a CODE for a VCR is not accepted then the following message will appear. Check the setup as mentioned then select Next.



Screen 14:

None of the Hitachi codes appeared to control your VCR. What would you like to do now ?

- 1.- Try VCR configuration again to repeat the setup. 2.- Try alternate remote codes to see other code
- alternatives that may solve the problem.
- 3.- Skip this step , will finish the TV Guide setup ; but will show an incomplete setup for your VCR.



- NOTE: 1. The Plasma TV should be in standby mode in order to continually receive updated program listings from your cable company.
 - 2. If using a Cable box, please leave it ON to continually receive updated program listings from your cable company.

For using and navigating the TV Guide On Screen System please refer to the TV Guide Instruction Book.

Channel Manager

Channel Manager

Select **CHANNEL MANAGER** to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.

 $\overline{\mathbf{v}}$

- 1. Press CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to highlight function.
- Press the SELECT button or CURSOR PAD ► to select.





Signal Meter

Select **SIGNAL METER** when using an indoor or outdoor antenna. This feature will show the signal strength and peak values of the Antenna signal to help you adjust your antenna to optimize signal reception.



Use the **CURSOR PADS** and the **SELECT** button to highlight and select **CLOSE** to exit.

NOTE: The Signal Meter will not be available (grayed out) when watching analog channels.



Q

Auto Channel Scan

This feature will automatically store active Analog and Digital channels in Auto Channel Scan memory.

- 1. Use the **CURSOR** buttons **◄** or **▶** to highlight AIR, CABLE (1) or CABLE(2) source.
- Press the CURSOR buttons ◄ or ► to highlight the START or RESET option.
- 3. Press the **SELECT** button to select.
- **NOTE:** 1. When a CableCARD is installed, Auto Channel Scan will not be available since channels will be fixed based on what was agreed upon by you and your cable operator.
 - If certain channels are poor or not possible in cable(1) mode, set cable source to cable(2) by using the CURSOR buttons ◄ or ►.



E	Channel Manager 🔹 Auto Channel Scan 🖻	
	Source 🖌 Air 🕨	
	Auto Channel Scan (Start) Reset	
Ì	♣ Move SEL Return	

Channel Manager

Channel List

This function allows you to review which channels are labeled (CH ID), which have been added to CHANNEL MEMORY (SCAN), which are protected by LOCK and which are your FAVORITE (FAV) CHANNELS.

- 1. Use the CURSOR PAD to navigate the Channel List.
- 2. Press the **SELECT** button to select **ON** or **OFF** on the **SCAN** and **LOCK** columns.
- 3. To select LOCK column, input the access code. (Default access code: 0000)
- 4. Press the **CHANNEL WHEEL** button to set or remove the **FAVORITE** channel settings.
- 5. Press the **EXIT** button to return to normal viewing.



- **NOTE:** 1. When a CableCARD is installed, the Channel List will be dependent on channels agreed upon by you and your cable operator.
 - 2. The Channel List cannot be updated by only changing the cable source. Auto Channel Scan must be performed for the Channel List to be updated.



- 3. Press EXIT to guit the menu.

Engage Lock

When ENGAGE LOCK is selected, SET CHANNEL LOCK and SET FRONT PANEL LOCK can be set individually.

When **SET CHANNEL LOCK** is turned on, the picture and sound for the chosen channel will be blocked out.

When FRONT PANEL LOCK is turned on, all buttons on the Front Panel will be deactivated, except the POWER button.

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. Picture-in-Picture will also be blocked automatically (see page 59).

When **TV RATINGS** is selected, various types of television programming based on a parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically (see page 60).

Use CANADIAN RATINGS to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content (see pages 61-62).

Use ALTERNATE RATINGS (U.S.) to block various types of movies and television pograms based on ratings systems used in U.S. that you feel may be inappropriate due to its content (see page 63).

NOTE:

The ALTERNATE RATINGS (U.S.) option is available for Digital Channels only.

Movie Ratings

Use Movie Ratings to prevent viewing of any movie that you feel may be inappropriate due to its content.

- Use the CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to select the MOVIE RATING category that you want to block.
- Press SELECT to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17, and X) will be blocked.
- 3. Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.





Motion Picture Ratings Table

NOT RATED	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not
NUT HAIED	
	been rated or ratings do not apply.
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only

- **NOTE:** 1. A movie rating is dependent upon the movie that is viewed. If the movie does not carry a rating, the TV will not block it.
 - 2. Blocking **NOT RATED** programs may block emergency programming, sports, news, public service announcements, religious programs and weather.
 - 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the LOCKS feature, you will not be able to tune to that channel.

TV Ratings

Use **TV RATINGS** to prevent the viewing of any TV program that you feel may be inappropriate due to its content.

- Use the CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to select the TV RATING category that you want to block.
- 2. Press **SELECT** to block the **TV RATING** that you have selected.
- 3. Press **EXIT** to quit the menu or select **TV RATING** to return to the previous menu.



uide Ratings Table		
All children. The themes and elements in this program are specifically designed for a very		
young audience, including children from ages 2-6.		
Directed to older children. Themes and elements in this program may include mild		
physical or comedic violence, or may frighten children under the age of 7.		
General audience. It contains little or no violence, no strong language, and little or no		
sexual dialogue or situations.		
Parental guidance suggested. The program may contain infrequent coarse language,		
limited violence, some suggestive sexual dialogue and situations.		
Parents strongly cautioned. This program may contain sophisticated themes, intense		
sexual situation, more intense violence and intensely suggestive dialogue.		
Mature audiences only. This program may contain mature themes, indecent language,		
graphic violence, and explicit sexual content.		
Fantasy Violence		
Violence		
Sexual Situation		
Adult Language		
Sexually Suggestive Dialogue		

NOTE: 1. If you Block **TV-14D**, you will still permit **TV-MA** programs; If you block **TV-14V**, you will automatically block **TV-MAV** programs, but you will still permit **TV-MALS** programs. This means that the TV will block violence in **TV-14** and higher (**TV-MA**), but not language and sex.

- 2. TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.
- 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the LOCKS feature, you will not be able to tune to that channel.

Canadian Ratings (Eng)

Use **CANADIAN RATINGS (ENG)** to block any type of movie and television program in Canada that you feel might be inappropriate in its content.

- Use the CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to select the CANADIAN RATINGS (ENG) category that you want to block.
- Press SELECT to block the CANADIAN RATINGS (ENG) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically.
- 3. Press EXIT to quit the menu or select CANADIAN RATINGS (ENG) to return to the previous menu.





Canadian R	atings English Table
С	Programming intended for children under age 8 - Violence Guidelines; Careful attention is paid to themes, which could threaten children's sense of security and well-being. There wil
	be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent
	and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other
	Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable
	or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There
	will be no profanity, nudity or sexual content.
G	General Audience - Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will
	not depict realistic scenes of violence which minimize or gloss over the effects of violent
	acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and
	no nudity.
PG	Parental Guidance - Programming intended for a general audience but which may not be
	suitable for younger children. Parents may consider some content inappropriate for
	unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict
	and/or aggression will be limited and moderate; may include physical, fantasy, or
	supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or
	mildly suggestive language. Could also contain brief scenes of nudity.
14+	Programming contains themes or content which may not be suitable for viewers under the
	age of 14 - Parents are strongly cautioned to exercise discretion in permitting viewing by
	pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence.
	Could deal with mature themes and societal issues in a realistic fashion. Other Content
	Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent
10	use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot,
	character or theme, intended for adult audiences. Other Content Guidelines: May contain
	graphic language and explicit portrayals of nudity and/or sex.

Canadian Ratings (Frn)

Use **CANADIAN RATINGS (FRN)** to block Canadian French programs according to various program ratings that you feel might be inappropriate in its content.

- Use the CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to select the CANADIAN RATINGS (FRN) category that you want to block.
- Press SELECT to block the CANADIAN RATINGS (FRN) that you have selected. Once rating is selected, for example 8 ANS+, all movies and television programs rated 8 ANS+ and higher will be blocked automatically.
- 3. Press EXIT to quit the menu or select CANADIAN RATINGS (FRN) to return to the previous menu.



Canadian Ratings French Chart

G	General - Programming intended for audiences of all ages. Contains no violence, or the
	violence content is minimal or is depicted appropriately with humor or caricature or in an
	unrealistic manner.
8 ans +	8 + General - Not recommended for young children - Programming intended for a broad
	audience but contains light or occasional violence that could disturb young children.
	Viewing with an adult is therefore recommended for young children (under the age of 8)
	who cannot differentiate between real and imaginary portrayals.
13 ans +	Programming may not be suitable for children under the age of 13 - Contains either a few
	violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an
	adult is therefore strongly recommended for children under 13.
16 ans +	Programming is not suitable for children under the age of 16 - Contains frequent scenes of
	violence or intense violence.
18 ans +	Programming restricted to adults - Contains constant violence or scenes of extreme
	violence.

Alternate Ratings U.S.

Use Alternate Ratings to prevent viewing of any movie or program that you feel may be inappropriate due to its content. This feature will be available only for ATSC Digital signal. In case only NTSC analog signal is received this feature will be unavailable (grayed out).

In order to set the Alternate Ratings the ATSC Digital channel received must include Alternate Ratings data .To see if the channel has Alternate Ratings, press the INFO key on the R/C. See fig. (1) for reference.

Once the TV has received Alternate Ratings data , the Alternate Ratings US in the lock menu will become available.

1. Use the CURSOR buttons ▼ or ▲ to select the ALTERNATE RATING category that you want to block.

- 2. Press **SELECT** to block the **ALTERNATE RATING** that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17 and X) will be blocked.
- 3. Press EXIT to quit the menu or select **ALTERNATE RATINGS** to return to the previous menu.



Alternate Ratings (Example Only) :

G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only
Y	Adults only

Program Title

CC Auto

Alternate Ratings U.S

te Ratings U.S.

6

\$ Mov

Alternate Ratings U.S

Locks

CATEGORY NAME (1 / 10)

🙃 🛛 Block 🙃

CATEGORY NAME (1 / 10)

SEL View 🙃 🛛 Block 🙃

Fig. (1)

Multi DTVCC

INFO

Language Digital CH ving BTSC Analog CH

Receiving Rating Broadcast

Alternate Ratings

MENU

SELECT

Locks Change Engage Movie

Closed Caption

Program Time

😪 11:30 AM

G.,

TVCC CF-18 ans+ 1080i

Source

CH D/hput D

Receiving Signal **6**rm

NOTE: In some cases the OSD will show the function name as " Alternate Ratings U.S. " or "Downloaded Ratings ", in both cases the operation is the same only name is different.

63

Timers

Timers

Select **TIMERS** to set your Clock, Sleep Timer and Day/Night Timer.

- Use the CURSOR buttons ▲ or ▼ or CHANNEL WHEEL to highlight the function to be adjusted.
- 2. Press the SELECT button to select.





Set The Clock

The Clock must be adjusted before you can use the **DAY/NIGHT TIMER** feature.

- Use the CURSOR PAD ◄, ►, ▲, ▼ or CHANNEL WHEEL buttons to highlight the chosen TIME ZONE settings.
- Press the SELECT button to select. If you observe daylight savings, use CURSOR PAD to highlight DAYLIGHT SAVING CORRECTION and press the SELECT button to select.
- 3. Use the **CURSOR PAD** ◀, ►, ▲, ▼ or **CHANNEL** WHEEL buttons to highlight the **CURRENT TIME** hour and minute), **AM** or **PM**, **MONTH**, **DAY**, and **YEAR**.
- 4. Use the **CURSOR PAD** ▲, ▼ to adjust settings.
- 5. Press the SELECT button to set the TIME AND DATE.



Time :: - AM Automatically adjust clock for daylight savings changes. t Move EE Return	Time Zone Date		PST Jan. 1 2005	
for daylight savings changes.				
🗘 Move 🛛 SEL Return				
	Contract Con	L Return	ı	

6. Press EXIT to quit the menu or select SET THE CLOCK to return to the previous menu.

NOTE: 1. When AUTOMATICALLY ADJUST CLOCK FOR DAYLIGHT SAVING CHANGES is checked \checkmark , the TV will automatically calculate the clock adjustment for Daylight Saving.

- When the CableCARD is used, the TV will SET THE CLOCK automatically and also when the TV Guide On Screen system setup process is complete. In this case the Set The Clock feature will not be available (grayed out).
- 3. The TV counts electrical pulses for regulating the **TIMERS**. When the power cord is unplugged then plugged in quickly, the clock is stopped momentarily and the **TIME** indication will become slow.

Timers

Set Sleep Timer

Select this feature to set your **SLEEP TIMER** from 30 minutes to 3 hours (30 minute increments).

1. Press the **CURSOR PAD** ► repeatedly to set your Timer from 0:00, 0:30, 1:00, 1:30, 2:00, 2:30 and 3:00.



Set Day/Night Timer

Select this feature to activate and set your TV's **DAY/NIGHT PICTURE MODE** automatically. This feature is not available until the clock is set.

- 1. Use the CURSOR PADS to highlight SET DAY/NIGHT TIMER settings.
- 2. Press the **SELECT** button to select.
- 3. Use the **CURSOR PADS** to select **DAY MODE ON** and to set it's **TIMER**.
- 4. Use the **CURSOR PADS** to select **DAY MODE OFF** and to set it's **TIMER**.
- Press EXIT to quit the menu or select SET DAY/NIGHT TIMER to return to the previous menu.

time.

Setup

t MENU

1. Use the **CURSOR** PAD ▲, ▼, ◀ or ► to select the sub-menu of your choice.

Select SETUP when setting your TV up for the first

2. Press the **SELECT** button to select.





Set The Menu Options

Setup the Language and background of the Menu OSD.

Set The Language

This feature will allow you to select any one of three different languages for all on-screen displays.

- Use the CURSOR PAD ◄ or ► to select the language of your choice.
- 2. Press EXIT to quit menu or select SET THE MENU OPTIONS to return to previous menu.



Set the Menu Background

This function allows you to choose from two menu backgrounds.

- Use the CURSOR PAD ▲ or ▼ to highlight SET THE MENU BACKGROUND (SHADED OR SOLID) of your choice. Use the CURSOR PAD ◀ or ▶ to select shaded or solid.
- Select SOLID for a black background (no picture can be seen behind menu screen), select SHADED and a light background is visible.
- 3. Press **EXIT** to quit menu or select **MENU PREFERENCE** to return to previous menu.

Screen Saver

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to the Plasma Television. Use the SCREEN SAVER feature to hide screen burn.

- Use CURSOR PAD ▲ or ▼ to highlight Screen Saver's Main Picture Moving and Image Power options.
- Use the CURSOR PAD d or ► to select your choices.

Option 1

The whole picture will shift every 2 minutes by one pixel.

Option 2

The whole picture will shift every 10 minutes by one pixel.

Option 3

The whole picture will shift every 20 minutes by one pixel.

Image Power

This function allows you to choose power consumption reduction based on 3 levels (min., medium and max).

Screen Wipe

If pattern mark occurs, use Screen Wipe (White Field Signal) for at least 10 minutes to refresh any damage that may have occurred from a pattern mark. Screen Wipe can resolve pattern mark to a certain degree, if caution is not used, permanent damage may occur. Use the cursor pad ▲ or ▼ to highlight Screen Wipe. Press the SELECT button to start.

Press the EXIT button to return to normal viewing.

Automatic Power Saving

Use this feature to turn power off automatically when a video input signal is not detected in 15 seconds.

NOTE: This feature is only available in INPUT 1-5.





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et The Softwar

Set The Inputs

Use this feature to give a name to any of the five video inputs.

- 1. Press the **CURSOR PAD** \blacktriangle or \blacktriangledown to highlight the video inputs.
- 2. Press the **CURSOR PAD** ◀ or ► to select your choices.

Note: The inputs labeled Gray out (Skip) or Hide (Skip) are disabled in the **INPUTS** selection.

INPUT 4 Auto Link

Use this function to automatically turn the TV on and tune to INPUT 4 when it detects a video signal to INPUT 4.

 Use the CURSOR PAD ▲, ▼, ◄ or ► to highlight and select the AUTO LINK setting of your choice.

- Auto

When **AUTO** is selected, the TV will turn on and switch to INPUT 4 automatically, when the INPUT 4 input device is turned on. This is



Setup

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convenient when you want to watch a movie with your VCR, laserdisc player or DVD player.

- Remote

When **REMOTE** is selected, the TV will turn on and switch to INPUT 4 automatically when the INPUT 4 input device is turned on and the VCR, laserdisc, or DVD play button on your remote control is pressed. This is convenient when you want to record a movie with your VCR and watch it later.

- Off

Select **OFF** to disable this function.

- 2. Press EXIT to quit menu or select SET THE INPUTS to return to previous menu.
- **NOTE:** 1. Once the TV has been turned on using the **AUTO LINK** feature, it must be reset before **AUTO LINK** is used again. To do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described above.
 - 2. When using **REMOTE** mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.
 - 3. If no remote control button is pressed after the TV is turned on by AUTO LINK, the TV will automatically turn off after three hours.

Set AV Net (only HDX model)

Use this feature to control your external Audio/Video equipment using your HITACHI Plasma TV Remote Control. The IR Blaster cable must be properly connected for the AV NET feature to work.

- 1. Press the **MENU** button.
- 2. Use the **CURSOR PAD** ▼ or **CHANNEL WHEEL** to highlight **SETUP**.
- 3. Press the **SELECT** button to select.
- Use the CURSOR PAD ▼ or CHANNEL WHEEL to highlight SET AV NET feature.
- 5. Press the SELECT button to select.

MENU	D	
\bigcirc	Video	
()	Audio	
\checkmark	📮 TV Guide On Screen	-
$\overline{\bigcirc}$	Channel Manager	-
(\mathbf{X})	Locks	
V.V	Timers	
	🗦 Setup	a de la companya de la compa
	Power Swivel	-
	✦Move SEL Select	



AV NET SETUP WIZARD (Example: A/V RECEIVER Setup)

1. Press the SELECT button to start the SETUP WIZARD.



- 2. Use the CURSOR PAD \blacktriangle or \checkmark to highlight YES or NO.
- Press the SELECT button to select "YES". (Select YES to setup an A/V Receiver or NO to setup other devices).
- Use the CURSOR PAD ◄, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

AV Net Setup Wizard		
Do you want to use an	A/V Receiver	
	• Yes	
	0 No	
		Back Next

- 5. Use the CURSOR PAD ◀ or ► to choose the brand name of your A/V Receiver.
- Use the CURSOR PAD ◄, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- 7. Use the CURSOR PAD ◀ or ► to choose the preset IR Code.
- Use the CURSOR PAD ▼ to highlight the " POWER " Test button. These On-screen buttons are called " Soft Keys ".
- Press the SELECT button to pass the Power command through the IR Mouse and onto the A/V Receiver (Repeat steps 7 to 9 until finding the IR code that will power up the A/V Receiver. If the A/V Receiver turns ON, then you have found the correct preset IR code).

10. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- Use the CURSOR PAD
 Input that connects to the video and audio output of the A/V Receiver.
- 12. Use the CURSOR PAD ◀, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- Use the CURSOR PAD
 I or
 I to select the A/V Receiver Source if you have connected the Monitor Out and Optical Out to the A/V receiver. Select " Not Connected " if not used.
- 14. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



Setup 15. If you would like to label your A/V Receiver Source, use the CURSOR PAD ◀ or ► to highlight "Yes "then press the SELECT button to continue. Selecting " No " will bypass the Source labeling. 1. AV Net Setup Wizard : A/V Receiver Setup Hitachi 3 (3/12) (44/54) de Set IR Co or Ou al Out u like to relabel the Source buttons? Back No Yes Anove SEL Select 16. Use the CURSOR PAD ▲ or ▼ to select your A/V Receiver Sources. 2. 17. Use the CURSOR PAD ◀ or ► to label your 3. A/V Receiver Sources. 4. Use the CURSOR PAD \triangleleft , \triangleright , \blacktriangle and \lor to 18 highlight NEXT, then press the SELECT button to move on to the next SETUP screen. AV Net Setup Wizard : A/V Receiver Setup Back Next ▲► Change Name [‡ № SEL Select 5. 19. Confirm all settings, then press the SELECT button to move on to the next SETUP screen. 6. 7. AV Net Setup Wizard : A/V Receiver Setup id Name ode Set Hitachi 3 (3/12) (44/54) Branc IR Co r Ou Optical Out Back Next Anove SEL Select 20. Press SELECT to setup another device or use the CURSOR PAD ◀ or ► to highlight " No

thanks, I'm done ", then press the SELECT button to exit the AV NET SETUP.

AV Net Se	tup Wizard : A/V Receiver Setup
Congratula	tions!
	eceiver is now to your AV network.
Would you	like to setup another device?
l liouid you	
l í	No thanks, I'm done. Yes
<u> </u>	
▲► Move	SEL Select

AV NET SETUP WIZARD (Example: DVD Setup)

Press the SELECT button to start the SETUP WIZARD.

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opiately
ont of the
Back Start

- Use the CURSOR PAD \blacktriangle or \triangledown to highlight NO. Press the SELECT button to select.
- (Select NO to setup other devices). Use the CURSOR PAD \blacktriangleleft , \triangleright , \blacktriangle and \triangledown to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

er?
er?
Back Next

- Use the CURSOR PAD \triangleleft , \triangleright , \blacktriangle and \lor to highlight the device. (Example : DVD Setup).
 - Press the SELECT button to select.
 - Use the CURSOR PAD \triangleleft , \triangleright , \blacktriangle and \lor to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

Please select a device.	Device Settings	
Ocable Osatellite ODVD Recorder OPV Recorder OVCR OVCR2 Custom	Please select a device.	
O DVD Recorder O PV Recorder O VCR O VCR2 O Custom	© DVD	O DVD2
O VCR O VCR2 O Custom	O Cable	O Satellite
O Custom	O DVD Recorder	O PV Recorder
	OVCR	O VCR2
C Device is est.	O Custom	
V Device is set.	 Device is set. 	
Back Next		Back Next

- 8. Use the CURSOR PAD ◀ or ► to choose the brand name of your DVD.
- Press the CURŚOR PAD ▼ to highlight the IR CODE Set, then use the CURSOR PAD ◀ or ► to choose the preset IR Code.
- Use the CURSOR PAD ▼ to highlight the " POWER " Test button. These On-screen buttons are called " Soft Keys ".
- 11. Press the SELECT button to pass the Power command through the IR Mouse and onto the DVD.

(Repeat steps 9 to 11 until finding the IR code that will power up the A/V Receiver. If the DVD turns ON, then you have found the correct preset IR code).

12. Use the CURSÓR PAD ◀, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

DVD Settings	/izard : Devic		
Band Men	◀ Hachi	▶ (26/77)	
R Code Set			
Transi s sion Test			
Trans iss ion Test Test B tton	POR		СН
	POR		СН

- Use the CURSOR PAD
 Input that connects to the video and audio output of the DVD.
- Use the CURSOR PAD <, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

DVD Settings		
Brand Name	 ✓ Hitachi ► (26/77) 	
IR Code Set	1 (1/5)	
Inputs settings	;	
	i ∢ Not Connected ► Not Connected	
	✓ Not Connected ►	

15. Confirm all settings, then press the SELECT button to move on to the next SETUP screen.

AV NET SETUP W	/izard : Device Settings
DVD Settings	
Brand Name	Hitachi (26/77)
IR Code Set	1 (1/5)
Video Input	Not Connected
Audio Input	Not Connected
All settings are co	mplete! Back Next

Press the SELECT button to select YES to Setup another device. Press the CURSOR PAD ◄ or ► to highlight " No thanks, I'm done ", then press the SELECT button to exit the AV NET SETUP.



Learning Mode

This function of the AV NET allows the user to use equipment that is not supported by the AV NET codes. After programming your equipment to the AV NET and the Soft Keys do not work, you can manually "LEARN" each one by completing the Learning Mode. The Learning Mode will transfer any remote control button IR code of your equipment to the "Soft Keys" of your AV NET.

Learning Mode (Example: A/V Receiver Setup)

1. Press the SELECT button to start the SETUP WIZARD.



- Use the CURSOR PAD ▲ or ▼ to highlight YES.
- 3. Press the SELECT button to select.
- Use the CURSOR PAD <, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- 5. Use the CURSOR PAD ◀ or ► to select "Other" from brand name choices.
- Use the CURSOR PAD ▲ or ▼ to highlight "Learning Mode" then press the SELECT button.



 Use the CURSOR PAD ◄, ►, ▲ and ▼ to select the Soft Key to learn (Ex. VOL ▲), then press the SELECT button.

Select the	A/V Receive TV	er softkey to Softkeys	learn?	
POWER	CHA	VOLA		
MUTE	СН▼	VOLV	AUDIO	
SOURCE 1	SOURCE 2	SOURCE 3	SOURCE 4	SOURCE 5
SOURCE 6	SOURCE 7	SOURCE 8	SOURCE 9	SOURCE 10
			Ba	ck Done

 Press and hold the VOL ▲ button of your A/V Receiver remote control while pointing directly at the learning AV NET sensor of the Plasma TV (located at the lower right corner of the screen) at a distance of 3.2 feet or 1 meter maximum.



9. If the IR code transfer was not completed, the screen below appears. Repeat step 8 to try again.



10. If the IR code transfer was successful, the screen below appears, then select "OK" to continue setup.



11. Select another Soft Key to learn or select DONE to move on to the next screen.

, in the second s
◆ □

- 12. Select the Test button VOL ▲ to check the response of the device to this command.
- Use the CURSOR PAD <, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

	command, proceed to se, try another IR
Brand Name	Other
IR Code Set	Other
Test Button	Learning Mode
	Back Next

- Use the CURSOR PAD
 Input that connects to the video and audio output of the A/V Receiver.
- 15. Use the CURSOR PAD ◀, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.


- Use the CURSOR PAD
 If or b to select the A/V Receiver Source if you have connected the Monitor Out and Optical Out to the A/V Receiver. Select "Not Connected" if not used.
- Use the CURSOR PAD ◄, ►, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next step.



 If you would like to label your A/V Receiver Source, use the CURSOR PAD dor boto highlight "Yes", then press the SELECT button to continue. Selecting "No" will bypass the Source Labeling.

Brand Name	Other						
IR Code Set	Other						
TV Input	Not Connected						
Monitor Out	Not Connected						
Optical Out	Not Connected						
Would you like to relabel the Source buttons?							

- 19. Use the CURSOR PAD ▲ or ▼ to select your A/V Receiver Sources.
- 20. Use the CURSOR PAD ◀ or ► to label your A/V Receiver Sources.
- Use the CURSOR PAD <, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



22. Confirm all settings, then press the SELECT button to move on to the next SETUP screen.



23. Select "YES" to setup another device or select "No, thanks, I'm done" to exit the AV Net setup.



Learning Mode (Example: CUSTOM/DVD 3 Setup)

1. Press the SELECT button to start the SETUP WIZARD.



- 2. Use the CURSOR PAD \blacktriangle or \checkmark to highlight NO.
- Press the SELECT button to select "NO". (Select NO to setup other devices).
- Use the CURSOR PAD <, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- CURSOR PAD ◄, ►, ▲ and ▼ to highlight "Custom", then press the SELECT button to select.
- 6. Select NEXT to continue.



- Use the CURSOR PAD ◀ or ► to choose the 7. device you wish to learn. (Example: DVD 3) 8. Select NEXT to continue.



- 9. Select the DVD 3 softkey to learn. (Example: PLAY ► button).
- 10. Select Done to continue.

Select the DVD3 so	tkey to learn? V Softkeys		
POWER MENU SELECT A EXIT V			
		Back	Done

11. Press and hold the ▶ "Play button" of the DVD remote control while pointing directly at the learning AV NET sensor of the Plasma TV (located at the lower right corner of the screen) at a distance of 3.2 feet or 1 meter maximum.

AV Net Setup W	izard : Custom	Settings	
Press and hold de command to AV N		ansfer the	
\bigcirc			
Please wait while Learns the comm			
Learns the comm	and		
	ect		

12. If the IR Code transfer was successful, the screen below appears, then select "OK" to continue setup.



13. Select another softkey to learn or select "DONE" to move on to the next screen.

Select the DVD3 s	oftkey to learn? TV Softkeys	
POWER		
		Back Done

- 14. Select the Test button ▶ "Play button" to check the response of the device to this command.
- 15. Use the CURSOR PAD \triangleleft , \triangleright , \blacktriangle and \forall to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

DVD3 Settings	
Brand Name	Custom
IR Code Set	Custom
Transmission Te	est
Test Button	
Test Button	
	Back Next

- 16. Use the CURSOR PAD ◀ or ► to select the TV Input that connects to the video and audio output of the DVD.
- 17. Use the CURSOR PAD \triangleleft , \triangleright , \blacktriangle and \lor to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



Confirm all settings, then press the SELECT 18. button to move on to the next SETUP screen.



- Continue with the normal procedures to setup TV Input, Monitor Out, Optical Out and the labeling of the source buttons.
- 20. Select "YES" to setup another device or select "No thanks, I'm done" to exit the AV NET setup.

AV Net	Setup Wizard : Device Settings					
Congrat	ulations!					
	D3 is now					
connected to your AV network.						
Would v	ou like to setup another device?					
would y						
	No thanks, I'm done. Yes					
∢ ▶ Move	(SEL) Select					

- **NOTE:** 1. After a successful AV NET setup to a chosen TV Input, the user can access soft key controls by selecting the device in the inputs menu.
 - 2. Each Device and Custom setting only accepts one device at a time. The second device/custom setup will give the user the options to either modify or delete the device.
 - 3. When setting up devices that have Monitor Out options (examples: A/V receiver, VCR), the Monitor Out and Audio Out will have default settings of TV Tuner out and Fixed respectively.
 - Before changing or modifying the Video and Audio Inputs, both should be set to "Not Connected" to access available options.
 - 5. The device label will show on the Inputs menu until deleted or modified.
 - 6. The AV NET setup will have priority over the Input setup.
 - 7. For devices which have any or all of these functions, Play, Rewind, Fast Forward, Record, Stop and Pause, the Remote Control equivalent buttons may be used to perform these operations.

Set The Closed Captions

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as cc or .

- 1. Use the **CURSOR PAD** *◄*, *▶*, *▲* and *▼* to highlight and select the function to change.
- 2. Press EXIT to quit menu or select SET THE CLOSED CAPTIONS to return to the previous menu.

Caption Display:

ON/OFF will turn the cc display on or off. **AUTO** will turn the cc display on when Mute/Soft Mute is on.

Set **CAPTIONS** for Analog programs. This function will help choose and set available mode and channel.

CAPTIONS is for the program you are viewing.

TEXT is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every cc program.

Channel:

- 1 is used for the primary language (usually English).
- 2 is sometimes used for a second language (may vary by region).
- 3 is sometimes used for a third language (may vary by region).
- 4 is sometimes used for a fourth language (may vary by region).

Digital Captions

Set captions for digital programs. This function will help choose and set available language, font, size and style of digital captions.

- 1. Use the **CURSOR PAD** ◀, ►, ▲ or ▼ to highlight and select desired **DIGITAL CAPTIONS** feature.
- 2. Press EXIT to quit menu or select SET CLOSED CAPTION to return to the previous menu.

Caption Display		Off
Analog	Mode Channel	Captions 1
Digital Hitachi	Language Font Size Style	1(Unknown) Default Standard Standard

NOTE: 1. Some types of digital closed captions will not work with this TV.

- 2. Caption Display will not work when viewing a 480p, 720p, or 1080i input via the COMPONENT: Y-PBPR inputs.
- 3. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
- 4. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is displayed on screen.
- 5. Digital Captions will not be available (grayed out) when using analog channels.

\frown		
	Setup	
>	Set The Menu Options	
OR	Set The Screen Saver	
\mathcal{D}	Set The Inputs	
\bigtriangledown	Set The AV Net	
	Set The Closed Captions	
	Set The Output Terminals	
	Set The Quick Start Options	
	Reset The Software	
	✦Move SEL Select	

	Mute/Soft Mute is o
An	alog Captions: Set CAPTIONS for function will help cl mode and channel.
Ca	Aption Mode: CAPTIONS is for the TEXT is for addition the entire screen ar program.

Set	The Closed C	aptions	2		
Cap	tion Display			Off	
An	alog	Mode Channel		Captions 1	
Di	gital	Language Font		1 (Unknown) Default	
	Hitachi	Size Style		Standard Standard	

Set The Output Terminals

This feature will select the source of the Output Terminal.

- Video Out :
 - Select MONITOR to output the audio and video signals of the chosen input source (CABLE, AIR or INPUT 1-5) to a VCR or other A/V device.
 - Select TV TUNER OUT to output the audio and video signals of the last watched Antenna Source (CABLE, AIR).

Audio Out:

- Select AUDIO OUT FIXED to have the Audio at fixed volume.
- Select AUDIO OUT VARIABLE to have Audio volume that can be controlled by the Plasma TV Volume Up/Down.

Video Out	Audio Out	Use
Monitor	Fixed	To record currently viewed Video and Audio.
Monitor	Variable	When an external device like a monitor
		or Hi-Fi audio system is connected to the audio and video output of the TV. You can control the volume output by changing the volume of the TV.
TV Tuner Out	Fixed	To record currently viewed Video and Audio
		from either Cable or Air.

IR Out :

 Select IR OUT NORMAL LENGTH to pass remote control signal to IR Out Terminal as is and reach 2m (max) through provided IR Blaster CABLE.

Set The N

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Set The Outp Video Out Audio Out

IR Out

Contract Address Addre

Set The Output Terr

- Select IR OUT EXTENDED LENGTH to process remote control signal to IR Out Terminal and reach 5m (max) through provided IR Blaster CABLE.
- NOTE : Extended Length funtion is not available for some kinds of external components. For those components use Normal Length funtion, or point the remote control directly at the external components.
- 1. Use **CURSOR PAD** ▲ or ▼ or CHANNEL WHEEL to highlight the function to change.
- Use the **CURSOR PAD** ◀ or ► to select the function. 2.
- 3. Press EXIT to quit menu or select SET THE OUTPUT TERMINALS to return to previous menu.

NOTE: 1. When TV TUNER OUT is selected, VARIABLE AUDIO OUT will not be available (grayed out). 2. When using MONITOR OUT for recording, set the VIDEO OUT to MONITOR.

MONITOR: Available Monitor Out Signals

TV TUNER OUT: Available Monitor Out Signals

Video_5

	In	put Mode			Monit	or Out			In	put Mode		Monito	r Out (T	V Tune	r Out)
				S-Video	Video	L/R	HiFi					S-Video	Video	L/R	HiFi
ANT	Digital	No Macrovision	S-Video	YES	YES	YES	YES	ANT	Digital	No Macrovision	S-Video	YES	YES	YES	YES
(Air or	Channel	Macrovision	S-Video	-	-	-	YES	(Air or	Channel			ANT	ANT	ANT	ANT
Cable)	Anal	og Channel	Video	-	YES	YES	YES	Cable)	Macrovision		S-Video	-	-	-	YES
Input 1	Н	IDMI_1		-	-	-	YES								ANT
	S-1	Video_1		YES	YES	YES	YES				Video	-	YES	YES	YES
	V	ideo_1		-	YES	YES	YES						ANT	ANT	ANT
Input 2	Н	IDMI_2		-	-	-	YES	Input 1			Y-PbPr	YES	YES	YES	YES
	S-\	/ideo 2		YES	YES	YES	YES			S-Video_1		ANT	ANT	ANT	ANT
		ideo 2		-	YES	YES	YES		Video_1			digital			
Input 3		-PbPr 3		-	-	-	YES	Input 2	S-Video_2		Y-PbPr	only			
F		ideo 3		-	YES	YES	YES								
Input4		PbPr 4		-	-	-	YES		Video_2						
mpart		ideo_4		-	YES	YES	YES	Input 3	Y-PbPr_3			-			
Input 5		IDMI 5		_	-	-	YES			'ideo_3					
input 5		PbPr 5			-	-	YES	Input4		-PbPr_4		-			
					- VEC	- YES				'ideo_4					
	V	ideo_5		-	YES	IES	YES	Input 5		HDMI_5	Y-PbPr				
									Y-	PbPr_5					

CableCARD Information

After the CableCARD has been successfully installed, you can access CableCARD Information menu in the SETUP menu of the On-Screen Display.

Follow the instructions below to access the CableCARD Information menu.

- 1. Press the **MENU** button on the Remote Control to access the Main Menu screen.
- Use the CURSOR PAD ▼ to highlight SETUP in the Main Menu and press the SELECT button.
- 3. Use the **CURSOR PAD** ▼ to highlight **CableCARD** Information and press the **SELECT** button.
- To view the CableCARD ID and Host ID, use the CURSOR PAD ▼ to highlight CableCARD Info and press the SELECT button.

NOTE: The **Diagnostics Info.** window is for Service use only.

THINGS TO CHECK WHEN USING THE CableCARD / CableCARD Services

- 1. Check that the CableCARD is properly inserted in the CableCARD slot.
- 2. Remove the CableCARD by pulling the CableCARD straight out.
- Visually inspect the CableCARD to ensure all pinholes are in good condition, with none blocked or damaged.
- 4. Make sure the CableCARD is re-inserted in the correct direction, then slowly push until it is fully seated in the slot.
- When the CableCARD is installed, note all screen messages that appear ("CableCARD Installed", "Acquiring Data", "CableCARD is not Installed"). If the "CableCARD Installed" message does not appear when card is installed, check the TV's card slot and CableCARD pins for obstructions or damage.
- 6. If problems still remain, please contact your Cable Service Provider.

NOTES:

- 1. When a CableCARD is installed, Auto Channel scan will not be needed because the channel list is automatically loaded to the TV's channel memory.
- 2. The TV will take several minutes to detect and recognize the presence of the CableCARD. This process must be completed before any CableCARD information or Channel listings is accessed.

MENU (S) (S)	Video Audio TV Guide On Screen Channel Manager Locks Timers Setup Power Swivel Power Swivel Move SEI Select
OR OR	Set up Set The Menu Options Set The Screen Saver Set The Inputs

Setup CableCARD Information Select the button below to acess CableCARD ID and Host ID. CableCARD Info. Select the button below to access CableCARD and Host Diagnostics Diagnostics Info. Move SEL Return
In order to start cable service for this device, please contact your cable provider CableCARD(tm): 123-456-789-1 Host: 123-456-789-1 Data: 123-456-789-1 Unit Address: 123-456-789-1

Set The Quick Start Options

This feature will select **QUICK START UP** options. Set this feature to **ON** to have the TV tune channels (both Analog and Digital) quickly when first turning the TV on. Set this feature to **OFF** to save electricity. Selecting **ON** for the **QUICK START UP** feature will activate the TV tuners circuits when the TV is in "standby mode" which is commonly referred to as "off". This will allow you to quickly tune to channels when first turning the TV on. Digital signals often change and this feature will monitor any changes and prepare the television to quickly present a picture. A small amount of electricity is used to continually monitor signals when this feature is selected.

This feature also sets the IEEE1394 function in Stand By-mode to ON or OFF. Certain digital devices have a power save feature, in which the device automatically power OFF when not in use (sleep mode). Only by setting the IEEE1394 function in Stand-By mode to ON, will the TV be able to control a device that is in sleep mode.

- NOTE: 1. By turning on the IEEE1394 function, your TV will no longer be set for power saving Stand-By mode. The IEEE Stand-By function must be set to OFF to return your TV set to power saving Stand-By mode.
 - 2. When setting the Quick Start option to ON the option of Reset TV Settings will not operate.

Setup Set The M Set The S Set The I Set The AV Set The Set The C Set The Quick Start (Reset The HDX Models Setup Set The Ouick Start Options OR y at 1st turn on and to use the IEEE1394 Ŕ ct OFF to save electricity Off O On Move (SEL) Sel HDT Models 🗧 Setup (SELECT Set The Quick Start Op ct ON to have the TV tune nnels quickly at 1st turn or ct OFF to save electricity Off O Or

Reset The Software

This feature shows software information and easy upgrade procedure. This function allows the TV software to be upgraded by using a flash card **(MMC CARD).** If a future software upgrade is required for your TV, **HITACHI** will notify and provide you with a flash card. In order to receive written notification and the flash card, please complete and return the warranty card.

- 1. Insert MMC CARD
- Press the CURSOR PAD ▲ or ▼ to highlight UPGRADE NOW.
- 3. Press the **SELECT** button to select and start upgrading.
- 4. Unplug the AC power cord when the UPGRADE is complete.
- **NOTE:** Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.



Reset TV Settings

This function allows you to Reset all TV Settings to the original factory settings on all modes during the next main power on/off.

- 1. Use CURSOR PAD ▲, ▼ to highlight functions.
- Press the SELECT button or CURSOR PAD ► to select Reset The Software.
- 3. Use the CURSOR PAD ▼ to access the Reset TV Settings option.
- Select the "YES" option to Reset ALL the TV Settings during the next main power on/off.

NOTE:	YES is selected, ALL TV MENU SETTINGS will be reset to the original factory settings on al	I
	odes during the next power on/off.	

Power Swivel

This feature controls the motorized stand. It allows the customer to turn the plasma display left or right using the remote control. This feature is only available when the Table Top Stand is connected.

- Use the CURSOR PAD ◄ or ► to unlock or lock the Power Swivel.
 Exit the OSD menu system before controlling the motorized stand.
- Press the CURSOR PAD ► to rotate the TV to the right.
- 3. Press the **CURSOR PAD** ◀ to rotate the TV to the left.
- 4. Release the CURSOR PAD to stop rotation.



♦ Select (SEL) Return

NOTE: 1. The Power Swivel has a maximum turning radius of 30° (left and right).

- 2. Do not place any objects in the path of the monitor when using the power swivel feature.
- 3. Before using the power swivel, please make sure that the path of the monitor is clear of any fingers, hands or any other body parts to avoid causing injury.
- 4. When the Picture-In-Picture (PIP) or Freeze mode is ON, the Power Swivel is disabled.



Equipment Care and Troubleshooting

DO

DO NOT

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your Plasma Television away from extreme heat, humidity, and extremely dusty places.

Remove the plug from the wall outlet if your Plasma Television will not be used for a long period of time, for instance, when you go on vacation. Do not clean your screen with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your Plasma Television.

Avoid repeatedly touching the screen.

Do not subject the remote control to shocks such as dropping it on the floor, etc. This may cause damage to the precision parts.

Avoid placing the remote control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to fail.

When the batteries run down, remote control operation will become erratic or become unresponsive. Replace the old batteries with two new "AA" size batteries. Do not use an old battery with a new battery.

Exposing the screen to direct sunlight for a long period of time or heat may cause damage to the plasma screen.

TROUBLESHOOTING

Your **HITACHI** Plasma Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.

IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

- 1. Press the POWER SWITCH (ON/OFF SWITCH) once.
- If there is still no power, wait 30 seconds and press the **POWER** SWITCH again.
- If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the **POWER** SWITCH again.

This protective technology should provide for years of lasting entertainment from your **HITACHI** Plasma Television.

SYMPTOMS	CHECK	Best THESE AD TTEN	Be Sin external CUSTNE AND	Be Sur Connection is C	Try and Try is Swinch	Check channel OW	Check antenna con listation troc.	Checi antenna for i Checions (basic	Checi Ulside and Broken leads	Adjuce Internation Mile	Adjust Contrast con	Adjust	Adjuer Color control	Adjust Int control	at koume control
No Picture, no s	ound														
Sound OK, picture	poor					ullet									
Picture OK, sound	poor				•				•						
Picture blu	urred														
Lines or streaks in pi	cture								•						
Poor reception on some char	nnels				•			•	•						
Picture rolls vert	ically				•				•						
No	color				•			•				•			
Poor	color														

Reception Problems



IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

• RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

• PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS

This television has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this television causes a problem to Radio receivers, then take the following steps:

- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.

You can check if this television influences Radio receivers by turning off all other equipment other than the television. If you find a problem receiving Radio when using the television, check the instructions mentioned above.



BLOCK NOISE (DIGITAL INPUT):

Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and weak signals.



BLACK SCREEN:

When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

1. Plasma Television Troubleshooting

No.	Items	Notes
1	Buzzing sound from Plasma display panel.	A buzzing sound may be heard when the plasma television is turned on in a very quiet room. This is due to the plasma panel drive circuit when it is functioning. The buzzing sound is normal and is not a malfunction.
2	Infrared interference	Some infrared rays are emitted from the plasma television panel that might affect the operation of other infrared controlling equipment.
3	Bright and dark spots	High precision technology is used to manufacture the plasma television. But there maybe points that do not illuminate, points that are too bright, and points with color different from that of the periphery. Please note that this is not a mafunction.
4	Picture Image	In some cases, residual images may remain after the short term display of still images when the picture changes.
5	Display panel surface temperature is too high.	The plasma display panel display images by means of electrical discharges inside the panel. This may cause the temperature of the panel surface to increase. Please note that this is not a malfunction.
6	Plasma Surface	A reinforced glass filter is installed over the plasma panel surface. A strong impact to the front panel risk a danger of glass breakage.
7	Transportation	Please transport the plasma television in it's packing box and placed in an upright position. Do not transport the plasma television in a horizontal position. This increases the posibility of panel breakage and pixel failure.
8	Granular spots	When a screen is seen at point-blank range, a random fine grain may be visible in the dark areas of the picture.
9	High temperature environment	High temperature affect the electric discharge/luminescence characteristic of the PDP panel. Do not place the plasma television in high temperature environments.
10	Operation	Operating altitude: 800 to 1,114hPa (6,194ft to -2,484ft). Operating temperature: 41°F to 95°F.
11	Storage	Storage altitude: 300 to 1,114hPa (31,912ft to -2,484ft). Storage temperature: 5°F to 140°F
12	Power ON or OFF	Repeatedly turning the plasma television Power ON and OFF at short intervals may result in failure of the television.

2. TV Guide On-Screen[™] System Frequently Asked Questions

My Guide listings disappeared after a power failure.

You should begin to receive listings again within 24 hours.

Some channel numbers in the Guide are incorrect.

You can correct them using Change Channel Display under Setup.

I have not received any Guide show listings.

Listings usually begin to appear within 24 hours after a successful Setup. It may take up to 5 days to receive a full 8 days of program listings.

- Check the connections between the TV, cable, antenna, and the IR cable if using a cable box.
- Verify Setup information under Change System Settings.
- Make sure the cable box is On, if applicable.
- Review Screen 4 and Screen 5 in the Initial Guide Setup section.

A show I set to Record did not occur.

- Make sure your recorder is turned Off before the recording begins.
- Make sure there is a tape or DVD in the VCR or DVD Recorder.
- Check the Schedule menu and verify that the show is listed before recording begins.
- Check the placement of the IR cable in front of your recorder.

The TV did not tune to a show I scheduled with the Reminder feature.

- Check the Schedule menu and verify that the show is listed.
- If you have a cable box, check the IR cable.

I set a show to Auto-Tune and it did not.

- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
 - Press the Menu button on the remote.
 - Use the down arrow to highlight Edit Reminder, and press SELECT.
 - Verify the Auto-Tune option reads Yes.
- The TV must be On at the scheduled time for Auto-Tune.

I set a show with the Power On TV option and it did not.

- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
 - Press the Menu button on the remote.
 - Use the down arrow to highlight Edit Reminder, and press SELECT.
 - Verify the Power On TV option reads Yes.
- The TV must be Off at the scheduled time for Power On TV.

Troubleshooting

TV Guide On-Screen[™] Frequently asked quiestions continued

If I add a recorder or change my cable service, how do I change my Setup information?

- 1) Highlight the Setup Service in the Guide.
- 2) Use the down arrow to select Change System Settings.
- Follow the on-screen instructions.

A show entry in the Guide reads "No Listing." What does that mean?

Show information for that entry was not available during the last Guide information update (download). Show information is updated on a daily basis.

When I entered the Guide, I was asked to choose from more than one channel lineup. What should I do?

Select the lineup that most closely matches the one for your area. If after you choose the lineup, you want to make changes to:

- 1) Highlight the Setup Service in the Guide.
- 2) Use the down arrow to select Change Channel Display.
- 3) Follow the on-screen instructions.

What do the color for shows in the Listings and Search screens indicate?

Green=Sports; Dark Blue=Children's; Purple=Movies; Teal=Other Show

If I have a power outage, do I need to complete Setup again?

No; Setup information is stored in TV Guide On Screen.

Is Help available in the Guide? If so, how do I find it?

Yes. Highlight any of the 5 main Services (i.e., Listings, Schedule, Recordings, Setup, Search) and press the Info Button. An Expanded Info Box displays additional help information; press Info again to close the box.

Help is also available in a Panel Menu. Press the Info Button to display an Expanded Info Box; press Info again to close the box.

After some show titles, I have noticed from 1 to 4 stars (****). What does that mean?

These stars are a broadcast-industry rating system used to inform you of a show's quality. The more stars, the better the rating.

I have seen the word "download" in reference to the Guide. What does that mean?

A download sends channel and show information to a TV Guide On Screen device. A download happens at least once a day.

Can I set a Record or Remind event without highlighting a show title in the Guide? Yes. TV Guide On Screen has a Manual Record and Remind feature. Highlight Schedule and press menu. Choose the event type, press SELECT and then enter date, start and stop time, channel number, etc. What do the frequencies for Record and Remind mean?

- Once-records/reminds the show one time
- Daily (manual only)—records/reminds the time, channel, and input combination Monday through Friday
- Regularly— records/reminds for the channel/time combination on any day of the week, on the same channel
- Weekly— records/reminds for the channel/ time combination on a specific day of the week
- Off (not cancel)—keeps the show in the list but will not record/remind the show until the frequency is changed

How can I look for a specific show in the Guide? Search lets you find shows by Category (HDTV, Movies, Sports, Children, Educational, News, Variety, Series), Keyword, or Alphabetical.



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Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

FCC Information

This device complies with part15 of the FCC Rules.Operation is subject to the following two conditions : (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America ,Ltd. Home Electronics Division may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

Note

This Plasma Television receiver will display television closed captioning, (cc or), in accordance with paragraph 15.119 of the FCC rules.

INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

Features and Specifications

Features:

•

- New Easy-to-Use On-Screen Menu Control (3 Language)
- Downloadable V-Chip
- New AV Network System Control (Only HDX models) - Control up to 4 components with one remote control.
 - 2 IR Blaster cables included
- Illuminated and Preprogrammed Remote Control
- · Power Management: ON/OFF via signal detection
- Picture Enhancement
- Input Signal Identification
- CableCARD compatible Contact your local cable operator for more information
- HDMI (High Definition Multimedia Interface)(High Bandwidth Digital Content Protection V1.1 Compatible)
- Photo Input (for your digital camera, USB drive or
- memory card USB drive)
- DI DOLBY Technology
- TV Guide On Screen™

Video:

- 1024 x 1080 Display Resolution (42")
- 1366 x 768 Display Resolution (55")
- ALiS (Alternate Lighting of Surfaces Technology)
- High-Contrast Pure-Color Glass Shield
- Wide Viewing Angle: More than 160°
- Color Temperature Presets: High, Standard, Medium and Black/White (HDX models only)
- Multiple Screen Fill Modes (4:3 Standard/4:3 Expanded/4:3 Zoom 1/ 4:3 Zoom 2/16:9 Standard1/Standard2/16:9 Zoom)¹
 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes :Day(Normal), Day(Dynamic) and Night

Inputs:

- Power InputAC 120V, 60Hz
 Power Consumption

 Refer to rear panel at the back of the Plasma Monitor
- CATV Mid Band A-5 ~ A-1A-I Super Band J-W Television System NTSC Standard • ATSC Standard (8 VSB, 64-QAM, 256-QAM) Video 1.0Vp-p, 75 Ohm . S-Video Luminance (Y) 1.0Vp-p, 75 Ohm Chrominance (C) 0.286Vp-p, 75 Ohm Component Video Luminance (Y) 1.0Vp-p, 75 Ohm Chrominance (P_B/P_R) 0.7Vp-p, 75 Ohm •

Outputs:

- Video 1.0Vp-p. 75 Ohm
- Optical Out (Digital Audio)1 Optical Connector

Audio:

- MTS Stereo/SAP
- Bass Boost
- Surround Sound
- 36W
- Soft Mute (50%)

Supplied Accessories:

- Remote Control
- Simple Remote Control (Only HDX models)
- Batteries (AA) (AAA: Only HDX models)
- 6' AC Power cord cable
- Table Top Stand (42" models only)
- IR Blaster Cables
- Power Swivel Cable (42" models only)
- Ferrite Core

Optional Accessories:

 For U.S. Models: Please access our website: www.hitachi.us/tv

INPUTS/OUTPUTS

٠	Wideband Component Y, Pb, Pr
•	Composite Video
•	S-Video
•	Antenna (RF)Inputs1
•	Audio Output
•	Monitor Output 1
•	Optical Output1
•	IR Blaster
•	G-LINK1
٠	CableCARD Slot 1
٠	Upgrade Card Slot1
•	Swivel Output 1
•	HDMI
•	Photo Input1
•	IEEE 1394/DV Inputs (HDX only) 1

SPECIFICATIONS

- Pixel Pitch 0.90(horiz.) x 0.485(vert.) mm.(42")
- FCC class: B for Consumer Use
- Power Requirements: 108-132VAC, 60Hz

¹ Screen mode availability varies by input format

HDTV Televisions display HDTV only when an HDTV source is available.

All specifications, weights, and dimensions are subject to change without prior notice. Please access www.hitachi.com/tv for detailed specifications and dimensions for custom installations.

Ultra
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Set Dimensions

42 Inch Models (Includes Table Top Stand) Weight (lbs./kg): 88/39.8



Units	A	В	C	D	E	F	G	Н		J	K	L	М	Ν
Inches	44-5/8	4-1/8	4-1/8	28-1/16	25-1/2	19-1/8	15-1/2	12-15/16	36-7/16	20-11/16	4-1/4	11/16	3-9/16	14-3/8
MM	1134	104	104	713.2	648	485.3	393.2	328	926	526.6	108.5	18	90.5	365

55 Inch Models (Plasma Television Only) Weight (lbs./kg): 151/68.4



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DIAL TOLL FREE 7 days a week, 24 hours a day

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HITACHI AMERICA, LTD. HOME ELECTRONICS DIVISION

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Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

Hitachi America, LTD. Home Electronics Division 900 Hitachi Way Chula Vista, CA 91914-3556

HITACHI CANADA, LTD. DIGITAL MEDIA DIVISION

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In Canada: 1-800-HITACHI (1-800-448-2244)

Monday - Friday (EST)	9:00am – 7:00pm
Saturday (EST)	.9:00am – 5:00pm

Look for your French Manual on the outside of the box. If the manual is missing, call **1-800-HITACHI** (1-800-448-2244) for a copy.

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Au Canada: 1-800-HITACHI (1-800-448-2244)

Lundi - Vendredi L'EST	9:00am – 7:00pm
Samedi L'EST	9:00am – 5:00pm

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That's all there is to it!

Appendixes

Appendix A:

Picture Format for Each Input Source

Aspect Specifications

	Input		Auto	Aspect				Yes: Selee Aspect		No: Un	Jelectu
	Signal		Auto	Video ID	16:9	16:9	16:9	4:3	4:3	4:3	4:3
	5 ignai		Aspect	video ib	Standard 1	Standard 2	Zoom	Standard	Ex panded	Zoom 1	Zoom
ANT Analog	Video	NTSC	No	4x3	Yes	No	Ye s	Yes	Ye s	Yes	Yes
ANT	YC _B C _R	480p	No	16x9	Yes	No	Ye s	No	Ye s	No	No
Digital		480i	No	4x3	No	No	No	Ye s	Ye s	Yes	Yes
	YP _B P _R	1080i/720p	No	16x9	Yes	Ye s	Ye s	No	Ye s	No	No
Input 1	HDMI	1080i/720p	No	16x9	Yes	Ye s	Ye s	No	Ye s	No	No
		480p	Auto ON	16x9	Y es Initial	No	Ye s	No	No	No	No
		480i		Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No Info	Yes	No	Ye s	Yes	Ye s	Yes	Yes
			Auto OF F	No	Ye s	No	Ye s	Yes	Ye s	Yes	Yes
	Video	NTSC	Auto ON	16x 9	Yes Initial	No	Ye s	No	No	No	No
	S-Video			Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Yes	Yes
			Auto OF F	No	Ye s	No	Ye s	Yes	Ye s	Yes	Yes
Input 2	HDMI	1080i/720p	No	16x9	Yes	Ye s	Ye s	No	Ye s	No	No
		480p	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
		480i		Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No Info	Yes	No	Ye s	Yes	Ye s	Yes	Yes
			Auto OF F	No	Ye s	No	Ye s	Yes	Ye s	Yes	Yes
	Video	NTSC	Auto ON	16x 9	Yes Initial	No	Ye s	No	No	No	No
	S-Video			Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Yes	Yes
			Auto OF F	No	Ye s	No	Ye s	Yes	Ye s	Yes	Yes
Input 3	YP _B P _R	1080i/720p	No	16x9	Yes	Ye s	Ye s	No	Ye s	No	No
		480p	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
		480i		Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Yes	Yes
			Auto OF F	No]						
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
				Letter	No	No	No	Ye s	Yes	Yes Initial	Ye s
				4x3	No	No	No	Ye s	Yes Initial	Yes	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Yes	Yes
	1		Auto OF F	No	1						

Appendixes

Aspect Specifications

(Continua	tion)							Yes : S	electable	No : Un - S	electable
	Input		Auto	Aspect				Aspect			
	Signal		Aspect	Video ID	16:9 Standard 1	16:9 Standard 2	16:9 Zoom	4:3 Standard	4:3 Ex panded	4:3 Zoom 1	4:3 Zoom 2
Input 4	YP_BP_R	1080i/720p	No	16x9	Yes	Yes	Yes	No	Ye s	No	No
		480p	Auto ON	16x9	Y es Initial	No	Ye s	No	No	No	No
		480i		Letter	No	No	No	Ye s	Ye s	Yes Initial	Yes
				4x3	No	No	No	Ye s	Yes Initial	Ye s	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Ye s	Yes
			Auto OF F	No	ĺ						
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
				Letter	No	No	No	Ye s	Ye s	Yes Initial	Yes
				4x3	No	No	No	Ye s	Yes Initial	Ye s	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Ye s	Yes
			Auto OF F	No							
Input 5	HDMI	1080i/720p	No	16x9	Ye s	Yes	Yes	No	Ye s	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
				Letter	No	No	No	Ye s	Ye s	Yes Initial	Yes
				4x3		No	No	Ye s	Yes Initial	Ye s	Ye s
				No Info	Yes	No	Ye s	Yes	Ye s	Ye s	Yes
			Auto OF F		Ye s	No	Ye s	Yes	Ye s	Ye s	Yes
	YP _B P _R	1080i/720p	No	16x9	Ye s	Yes	Yes	No	Ye s	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Ye s	No	No	No	No
				Letter	No	No	No	Ye s	Ye s	Yes Initial	Yes
				4x3	No	No	No	Ye s	Yes Initial	Ye s	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Ye s	Yes
			Auto OF F	No							
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial		Ye s	No	No	No	No
				Letter	No	No	No	Ye s	Ye s	Yes Initial	Yes
				4x3	No	No		Ye s	Yes Initial	Ye s	Ye s
				No ID	Yes	No	Ye s	Yes	Ye s	Ye s	Yes
IEEE1394	VC C	490	Auto OF F	No	Ver		Ver		Ver		
	YC _B C _R	480p	No	16x9	Yes		Yes	Vac	Yes	Vac	Vac
Digital		480i	No	4x3 16x9	No Yes	Yes	Yes	Yes	Yes	Yes	Yes
	YP _B P _R	1080i/720p -	No	1394DV		162	162	Voc	Yes	Yes	Yes
	-	-	No	139407	No			Yes	Yes	res	res

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Service Information

When you call HITACHI SERVICE HOTLINE they will require some information related to the TV MODEL NAME and SERIAL # in order to give you the proper support. This information is located on the back of the TV and also on the RIGHT SIDE of your TV set. Please follow the next steps to find this information and then provide to SERVICE.

• Look on the right side of the TV.

2 Locate the LABEL where it shows the information related to MODEL NAME and SERIAL #.

HITACHI Service Department will require this information in order to give you the proper support regarding your questions.



Notes

Notes

