

# **PLASMA TELEVISION**

# Operating Guide for 42HDT52, 42HDT52A and 55HDT52

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



**ULTRAVISION** 

# **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.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

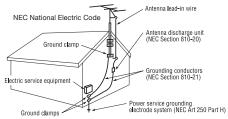
- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do 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

- prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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.
- 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**



### **Power source**

This plasma television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet.

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.

# **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.

# Note

This plasma television will display television closed captioning, ( c or ), in accordance with paragraph 15.119 and 15.122 of the FCC rules.

# **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.

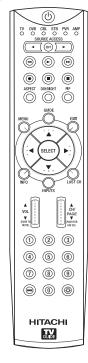
# **Lead Notice**

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 www.eRecylcle.org (in California), 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.

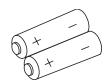
# **Accessories**

# Check to make sure you have the following accessories before disposing of the packing material.

Remote Control



2 Two "AA" size, 1.5V batteries



Power Cord



2 IR Mouse Cables or **G-LINK Cables** 



6 Table Top Stand (42" models only)



Cleaning Cloth



Power Swivel Cable (42" models only)



8 2 Ferrite Core (see page 13)



Note: Please visit our website for optional accessories for the 55" models.

### For U.S. models:

For optional accessories, please access our web site at: www.hitachi.us/tv

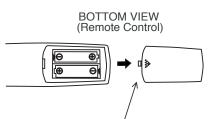


# **CAUTION:**

- 1. Ceiling mounting is not recommended. Mounting the panel on the ceiling does not provide adequate ventilation for the electronics or proper support for the front glass panel. This plasma television product is designed for a maximum tilting angle of 45 degrees from vertical.
- 2. This stand for use only with Hitachi 42HDT52 and 42HDT52A. use with other apparatus is capable of resulting in instability causing possible injury. See important marking located on bottom of stand.
- Remote Control Unit CLU-3851WL (Part No. HL02065).
- Two "AA" size, 1.5V batteries (P# FQ00021).
- Power Cord (P# EV01841).
- 4 Two IR Mouse cables (P# EY01641).
- 5 Table Top Stand (P# QJ01831K).
- 6 Cleaning Cloth (P# MS00931).
- Power Swivel Cable (P# EW08431).
- **8** 2 (2 pcs.) Ferrite Core (P#2169513).

# REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

- 1. Open the battery cover of the remote control by pushing down and sliding the back cover off.
- 2. Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them
- Match the batteries to the (+) and (-) marks in the battery compartment.
- Replace the cover.



Press down and slide back to remove.



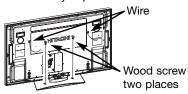
CAUTION: Do not insert batteries with the '+'and '-' polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.

# **How To Set Up Your New Hitachi Plasma Television**

To take measures to prevent the Plasma Television from tipping over and prevent possible injury it is important to mount the unit in a stable and flat surface.

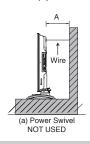
# Securing to a table-top

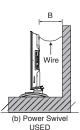
- Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma Display stand as shown below.
- Using commercially available wood screws, secure the set firmly in position.



### Securing to a Wall

- Keep the Plasma television 4 inches away from the wall except when mounted using the wall mount bracket.
- Secure the television to the wall as shown in fig. (a) or (b).





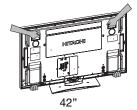
	Α	В		
42"	4 in.	12 in.		
	10 cm	30 cm		
55"	4 in.	16 in.		
	10 cm	39 cm		

### **NOTES:**

- 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.
- If the Power Swivel feature will not be used, the Plasma television should be secured to the wall as shown in fig. (a).
- 5. If the Power Swivel feature will be used, the Plasma television should be secured to the wall as shown in fig. (b). The wires need to be long enough to allow the television to turn 30° to the left and right.

# 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. Do not grab the speakers or the back cover when lifting.



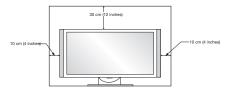


### **ANTENNA**

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.

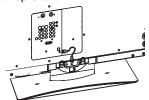
### **LOCATION**

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.



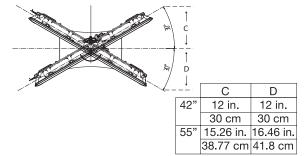
# **CONNECT POWER SWIVEL CABLE**

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 and Power Swivel cable for model 55HDT52 are not included (Optional).

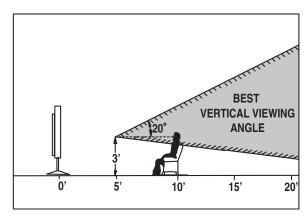
# How to set up your new HITACHI Plasma Television

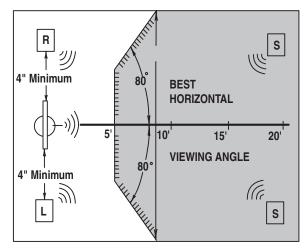
### **VIEWING**

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)

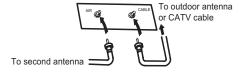
When using a 75-Ohm coaxial cable system, connect **CATV** coaxial cable to the CABLE (75-Ohm) terminal. If you have an antenna, connect the coaxial cable to the **AIR** terminal.

# VHF (300-Ohm) antenna/UHF antenna

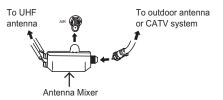
When using a 300-Ohm twin lead from an outdoor antenna, connect the **VHF** or **UHF** antenna leads to screws of the **VHF** or **UHF** adapter. Plug the adapter into the antenna terminal on the TV.

# 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 Connector**

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 Connector

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

### S-Video (Super Video) Cable

This cable 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 to connect equipment with mini stereo audio jack to the left and right audio inputs on the rear and side panels.

# **USB** Cable

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

# IR Mouse Cable/G-LINK Cable (Provided)

Connect the IR Mouse to the IR Blaster output of your Plasma Television when A/V 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, and the TV Guide On Screen™ system, to control your cable box and/or VCR.

### Power Swivel Cable (Provided with 42" Models)

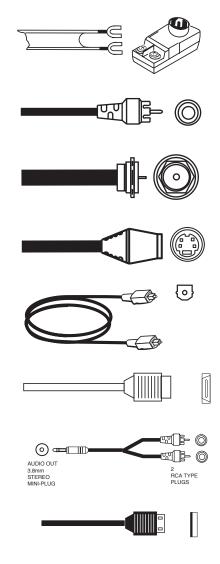
This cable is used to connect the swivel stand to the rear panel of the Plasma Television.

# IEEE1394 Cable

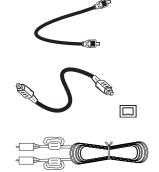
This cable is used to connect your digital television to external digital devices. This cable will carry both the video and audio information.

### **Sub-Woofer Cable**

Used to connect the Sub-Woofer Out to the Sub-Woofer Input of an audio amplifeier (not included).

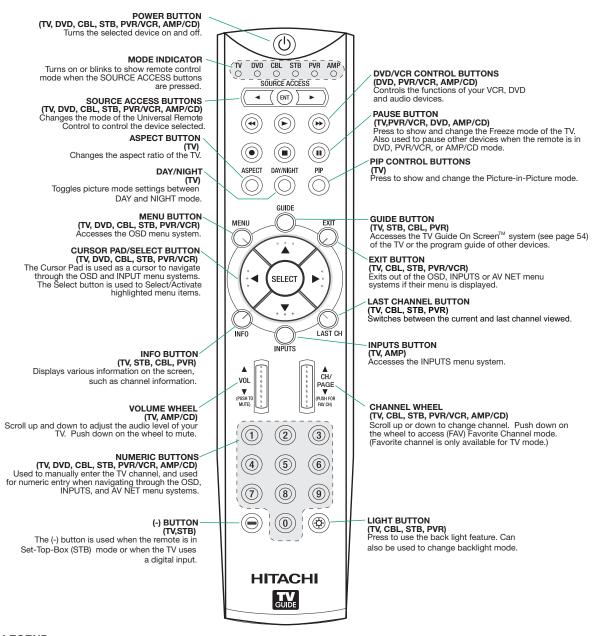






# **Quick Reference Remote Control Buttons and Functions**

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 23-41 for a complete description of all features and programming of the Remote Control.



# **LEGEND**

TV - Television VCR - Video Cassette Recorder/Player

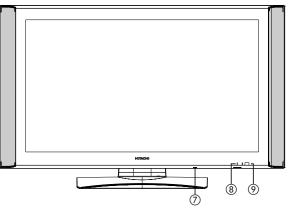
CBL - Cable Box DVD - Digital Video Disc Player

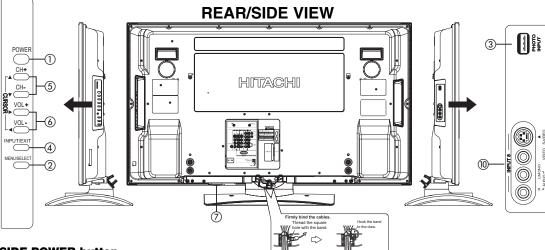
STB - Set-Top-Box SAT - Satellite Receiver

- 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 any button will illuminate the backlight for 4 seconds.

# **Front/Rear/Side Panel Controls**

# **FRONT VIEW**





# SIDE POWER button

Press this button to turn the Plasma Television ON/OFF. It can also be turned ON/OFF by remote control. The "MAIN POWER" button must be at stand-by mode.

# 2 MENU/SELECT button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

### **③ PHOTO INPUT**

Insert USB cable from your Digital Camera, USB memory or memory card USB drive to view your digital still pictures (see pages 27 and 28).

# (4) INPUT/EXIT button

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

### (5) CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

# **6 VOLUME level**

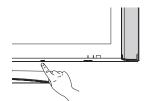
Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left  $(\blacktriangleleft)$  and right  $(\blacktriangleright)$  buttons when in MENU mode.

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.

# 7 POWER button

# **Display Monitor "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.

# Front/Rear/Side Panel Controls

# POWER light indicator

To turn the monitor ON, press the main power switch located on the lower right side of the monitor. 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	
Off	Off	When the main power switch is set to	
		OFF.	
Lights Red	Off	When the main power switch on the display	
	(Stand-by)	monitor is ON.	
Lights Green	On	Display monitor MAIN POWER is ON.	
Lights Orange	Off	Display monitor MAIN POWER is ON	
	(Power Saving)	with no signal input except antenna	
		(no sync. signal).	

### REMOTE CONTROL sensor

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

### **LEARNING AV NET sensor**

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

# SIDE INPUT JACKS (for VIDEO: 5)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUTS button then use the CURSOR PAD and the SELECT button on the remote control to select INPUT 5. If you have mono sound, insert the audio cable into the left audio jack.

# IEEE1394 (DV Input)

This input provides a digital interface for your external digital devices such as your digital video (DV) camcorder.

- NOTES: 1. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when VIDEO: 1, 2, 3, 4 and 5. Check the Power Light to make sure the Display Monitor 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 display monitor.

# **Rear Panel Connections**

# (1) Antenna Input

audio jack).

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, CABLE and 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

### MONITOR OUT & HI-FI AUDIO OUT

These jacks provide fixed and variable audio and video signals (CABLE/AIR, INPUT 1, 2 and 5) which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to INPUT 3 and 4, 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

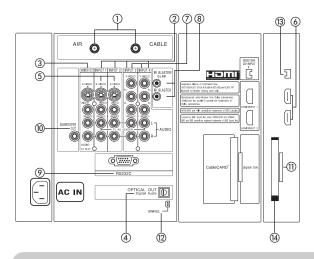
INPUTS 1 and 2 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

- NOTE: 1. You may use VIDEO, HDMI or S-VIDEO inputs to connect to INPUT 1 and 2, but only one of these inputs may be used at a time.
  - S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.
- (6) HDMI INPUTS 1 and 2 (High Definition Multimedia Interface)
  ABOUT HDMI HDMI is

the next-generation all digital interface for consumer electronics. **HDMI** enables the secure distribution of high-definition video and multichannel audio in a single cable. Because digital television (DTV) signals remain in digital format, **HDMI** assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen.

Use the **HDMI** input for your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection.

**HDMI**, the **HDMI** logo and High-Definition Multimedia Interface are trademarks or registered trademarks of **HDMI** Licensing LLC.



- **NOTE:** 1. The **HDMI** input is not intended for use with personal computers.
  - Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.

# 7 Component: Y-PBPR Inputs

**INPUTS 3** and **4** provide Y-P<sub>B</sub>P<sub>R</sub> 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, 2 or 5 at the same time. S-VIDEO has priority over VIDEO input.
  - 2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input.
  - 3. Your component outputs may be labeled Y-CBCR. In this case, connect the component CB output to the TV's PB input and the component CR output to the TV's PB input.
  - 4. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-PBPR inputs (see page 44).
  - To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.
  - INPUT 3 and INPUT 4 (Y/VIDEO) can be used for composite video and component video input.

# **(8) IR Blaster/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 A/V network feature. This connection will allow you to control the external components with your Plasma Television's remote control in TV mode. The G-LINK connection will enable the TV Guide On Screen™ recording feature.

# $\ensuremath{ \bigcirc } \ensuremath{ \mbox{ For Service Use Only} }$

Do not connect anything to this terminal. Specifically for Service use only.

# **Rear Panel Connections**

### ⑤ Subwoofer Out

Connect this SUB WOOFER OUT output to the external audio component input using the sub woofer cable (not provided).

# 11 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.

### To Power Swivel Connector

Connects to the Power Swivel Table Top Stand.

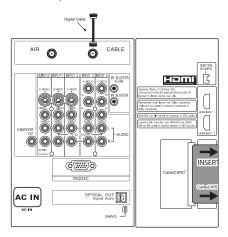
# (3) IEEE1394 (DV INPUT)

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 19). 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.

# (4) CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen 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).

- 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).



**NOTE:** 1. A digital cable subscription is required.

2. Do not insert a PCMCIA card into the CableCARD slot.

If the CableCARD is properly installed or not installed, the TV will display the following respective screens.





After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the **EXIT** button to exit the second screen.



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

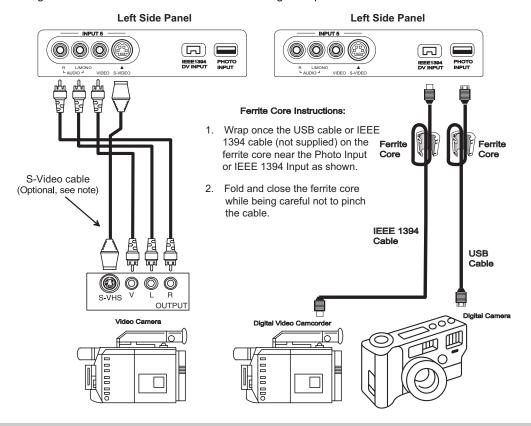
Unit Address: 123-456-789-1



Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.

**NOTE**: Please see Appendix E on page 101 for additional CableCARD information.

The front panel jacks are provided as a convenience to allow you to easily connect your video camcorder, digital camera or Digital Video Camcorder 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.

- 2. If you have a S-VHS VCR, use the S-VIDEO cable in place of the standard video cable.
- 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.
- 4. S-VIDEO input takes priority over VIDEO input.
- 5. If you have a VHS or 8mm camcorder, use the S-VIDEO cable in place of the VIDEO cable.

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.

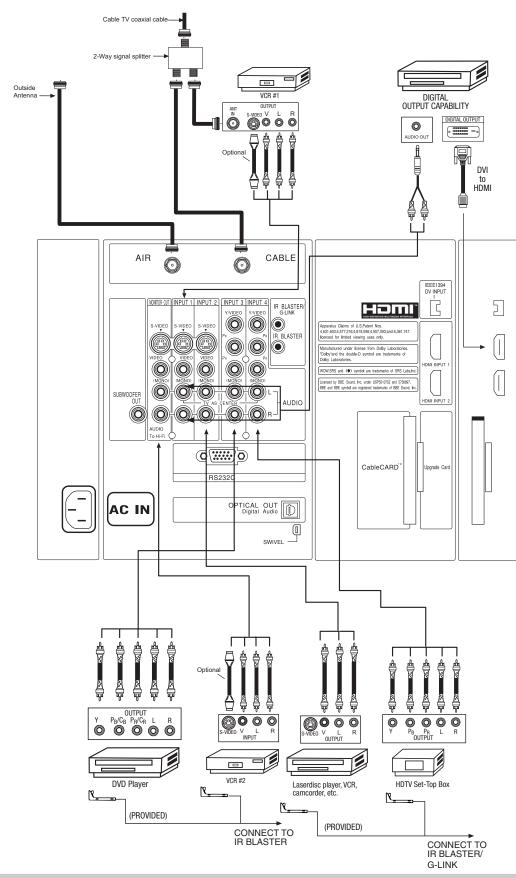
The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

# **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 (▲ and ▼) to select the Antenna or Input of your choice. Then press the SELECT button or the CURSOR PAD ▶ to confirm your choice (see page 26).



# **Rear Panel Connections**



NOTE: Cables are optional, except when specified.

# **Tips on Rear Panel Connections**

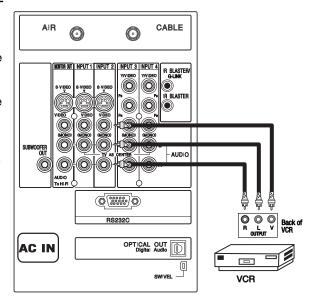
- S-VIDEO, YPBPR, or HDMI connections are provided for high performance laserdisc players, VCRs etc.
  that have this feature. Use these connections in place of the standard video connection if your device has
  this feature.
- If your device has only one audio output (mono sound), connect it to the 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 14). 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<sub>B</sub>P<sub>R</sub> (Input 3 & 4) 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<sub>B</sub> input and the components R-Y output to the TV's P<sub>B</sub> input.
- Your component outputs may be labeled Y-C<sub>B</sub>C<sub>R</sub>. In this case, connect the components C<sub>B</sub> output to the TV's P<sub>B</sub> input and the components C<sub>B</sub> output to the TV's P<sub>B</sub> input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P<sub>B</sub>P<sub>R</sub> inputs. (See page 44)
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P<sub>B</sub>P<sub>R</sub>, and HDMI input jacks.
- INPUT 1 or 2 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.

### **MACROVISION NOTES:**

- 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

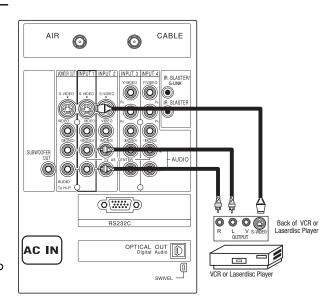
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel on the right.
- Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the VCR or 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 14) 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 or 4 are used, it is necessary to connect the video output of the device to the Y/VIDEO input jack of the TV.

# CONNECTING AN S-VIDEO AND STEREO AUDIO SOURCE TO INPUT 1, 2 AND 5

- 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 on 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.
- 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.



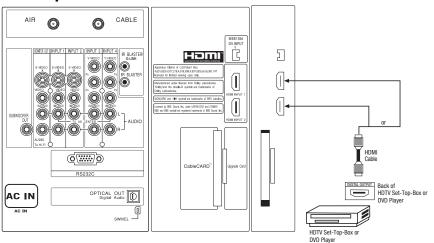
- **NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
  - 2. A single VCR can be used for VCR #1 and VCR #2 (see page 14), but note that a VCR cannot record its own video or 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 OR 2

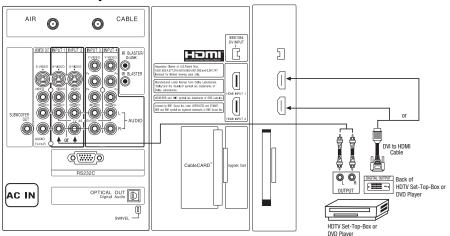
- Connect the HDMI or DVI output of the HDTV set top box or DVD player to the HDMI input as shown on the Rear panel below.
- With DVI output, connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack as shown on the Rear Panel below.
- With DVI output, connect 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 or 2 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 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. The HDMI input on INPUT 1 and 2 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.
  - HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
  - The connected digital output device controls the HDMI interface so proper setup of device user settings determines final video appearance.
  - When using a DVI to HDMI cable, connect the Audio Out L and R cables at the same INPUT (1 or 2) as your HDMI INPUT (1 or 2).

# **HDMI** input



# **DVI to HDMI Input**

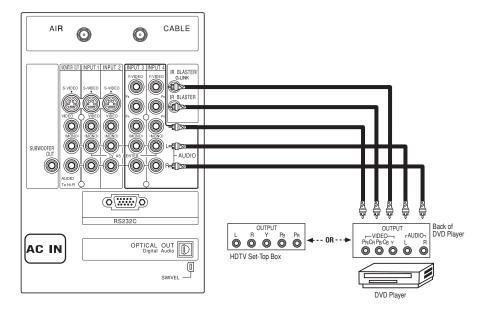


# CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO INPUT 3 OR 4: Y-PBPR.

- 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.
- Connect the cable from the P<sub>B</sub>/C<sub>B</sub> OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>B</sub>) 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.
- 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.

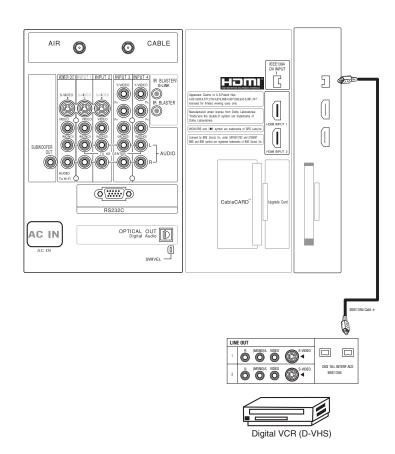
  The picture and sound that is played back will be abnormal if the connection is loose.
  - 2. See page 15 for tips on REAR PANEL CONNECTIONS.



# 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 29).

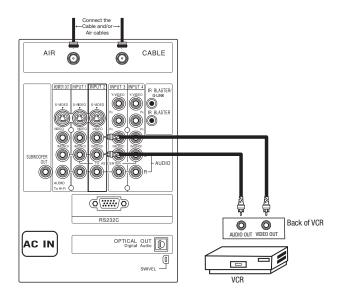
- NOTE: 1. With IEEE1394 connection, video and audio will be received by the TV. It will enable you to control the D-VHS from the TV IEEE1394 menu (see page 29).
  - The IEEE1394 interface contains the copy protection standard called 5C or Digital Transmission Content Protection (DTCP).



# **Connecting External Audio/Video Devices**

# CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO INPUT 1, INPUT 2 OR 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.
- 4. Select CABLE or AIR from the INPUTS menu to return to the last channel tuned.



# **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.

# AIR CABLE CABLE SUBSTITUTE INPUT 1 INPUT 2 INPUT 3 INPUT 4 IR BLASTER OCANK OCANK SUBSTITUTE OCANK OCANK

# **CONNECTING MONITOR OUT**

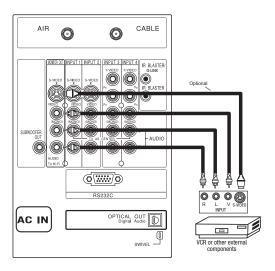
The MONITOR OUT terminal outputs video and audio of CABLE/AIR and INPUTS 1, 2, 3, 4 and 5. It does not output component video.

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.



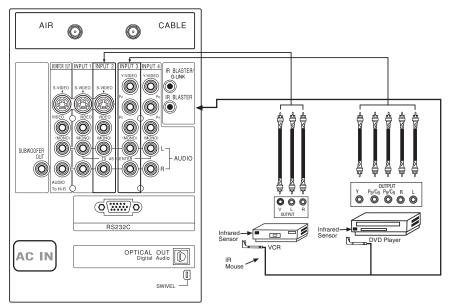
- **NOTE**: 1. When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority (see table on page 8).
  - 2. For further information on using MONITOR OUT, refer to pages 88 and 89.

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 Mouse connector 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.

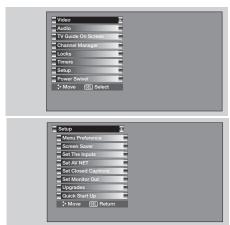
The Plasma Television Rear Panel has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Network setup between your Hitachi Plasma Television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

### CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR BLASTER FOR AV NETWORK

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



- 4. ACCESS THE AV NET SETUP WIZARD Press the MENU button.
- Use the CURSOR PAD ▼ or channel scroll down to highlight SETUP.
- Press the SELECT or CURSOR PAD ▶ button to select.
- Use the CURSOR PAD ▼ or channel scroll to highlight the SET AV NET features then press the SELECT button.
- 8. Follow the Setup procedure on pages 79-86.



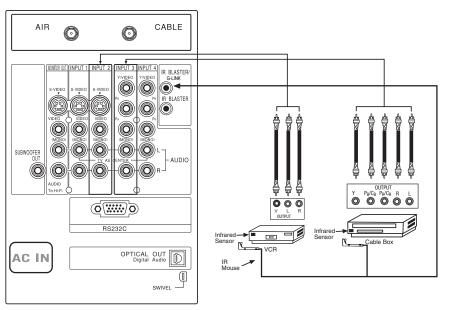
- **NOTE:** 1. The Rear Panel has two IR BLASTER outputs which can control up to a total of four external components.
  - The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work. Double-sided mounting tape may be used to hold the IR Mouse in place.
  - 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 Mouse) 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 BLASTER/G-LINK jacks. One IR Mouse 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

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



- To access the TV Guide On-Screen<sup>™</sup> system, press the MENU button.
- Use the CURSOR PAD ▼ or channel scroll down to highlight TV GUIDE ON SCREEN.
- Press the SELECT or CURSOR PAD ▶ button to select.
- 7. Follow the Setup procedure on pages 49-53.



- **NOTE:** 1. The G-LINK connection is not necessary for D-VHS recording devices.
  - The IR Mouse 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 BLASTER jacks.

# 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 ◀ or ▶ 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 ◀ or ▶ 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 37 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 ◀ or ▶ 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 37 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 ◀ or ▶ 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 34 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 set-top-box and select the SET-TOP-BOX (STB) by pressing the ◀ or ▶ 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 35 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 ◀ or ▶ 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 36 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 38 for instructions on how to program the remote to control additional Audio/Video equipment).

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.

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

### AUTOMATIC MODE (Default mode)

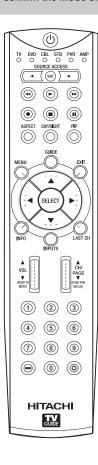
In Automatic mode, if any button is pressed (including the LIGHT button), the illumination will light for 4 seconds.

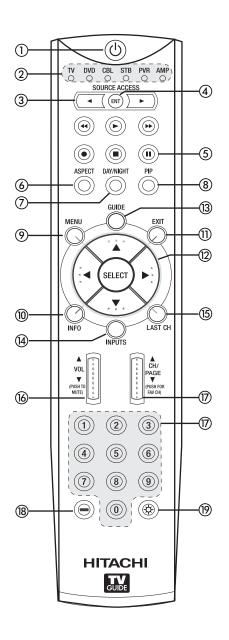
### MANUAL MODE (Optional mode)

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)

- 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.





# 1 POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 23 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 34-41). You can also use this button in an optional Input access feature (see page 39).

# (5) PAUSE button

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 33).







### **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.

IMAGE INPUT

- Antenna-Analog
- S-Video/Video Input (Auto Aspect: Off)
- HDMI-480i/480p Input (Auto Aspect: Off)
- Component-480i/480p Input (Auto Aspect: Off)

Note: Please see Appendix A on page 100.

### 4:3 ZOOM1/ZOOM2

Use these aspect modes to zoom in on conventional (4:3) sources.

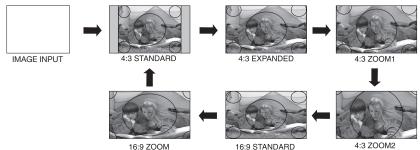
### 16:9 STANDARD

Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.

# 16:9 **ZOOM**

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

4:3 EXPANDED



- Antenna-Digital (4:3)
- S-Video/Video 4:3/Letter Input (Auto Aspect: On)
- HDMI-480i/480p 4:3/ Letter Input (Auto Aspect: On)
- Component-480i/480p 4:3/ **Letter Input** (Auto Aspect: On)

Note: Please see Appendix B on page 100.

• S-Video/Video 16:9 Input

(Auto Aspect: On) • HDMI-480i/480p 16:9 Input (Auto Aspect: On)

Component-480i/480p

16:9 Input

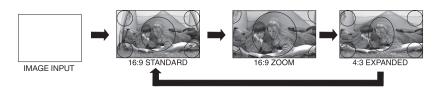
(Auto Aspect: On)

IMAGE INPUT

Note: Please see Appendix C on page 100.

- Antenna-Digital (16:9)
- HDMI-720p/1080i Input
- Component-720p/1080i Input

Note: Please see Appendix D on page 100.



- NOTE: 1. The Aspect Style setting you select for an ANT input will automatically be set for the other ANT input. However, all five video inputs have independent Aspect Style settings.
  - 2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also page 45).

# 7 DAY/NIGHT button

Press this button to toggle between Day and Night picture mode settings. Select Day for day time viewing with more brightness and contrast to compete with room light. Select Night for night time viewing with less brightness and contrast for a more detailed picture (see page 44 for settings changes).

**NOTE:** For automatic DAY/NIGHT picture mode settings, see page 44.

# (8) PICTURE-IN-PICTURE button

See separate section on pages 31-33 for a description.

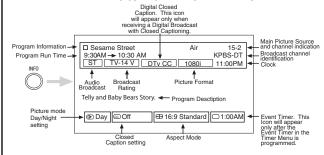
### 9 MENU button

The MENU button will start the On-Screen Display.

### iii 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.

### **ANALOG/DIGITAL CHANNELS**



# When an S-VIDEO Input is connected to INPUT 3



# When a Component Video: Y-PbPr Input is connected to INPUT 1



# NOTE: 1. The Sleep Timer info will show momentarily after releasing INFO button.

 The Aspect setting will not be shown if the channel is locked.

### (i) EXIT button

This button will exit all On-Screen Displays.

### (2) CURSOR PAD/SELECT button

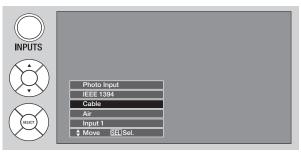
All the On-Screen Display features can be set or adjusted by using the CURSOR PAD, except for numeric entries. The CURSOR PAD will highlight functions or adjust and set different features. Press the CURSOR PAD toward desired direction and press the SELECT button to select.

# (3) GUIDE button

Press this button to access the TV Guide On Screen™ interactive display (see page 54). Press this button to access the Channel Guide of the (CBL), and (SAT/STB) while in (CBL)(SAT/STB) mode.

### (4) 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.
CABLE	Select to choose Cable.
AIR	Select to choose Air.
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 27-28).
IEEE1394	Select to choose the IEEE1394 Input
	(see page 29).

### **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.

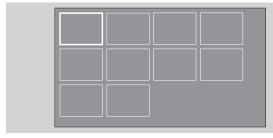
 Press the INPUTS button to cycle through the INPUTS selections until the PHOTO INPUT is selected. Press the SELECT button or CURSOR PAD ▶.



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



- Press the SELECT button to view THUMBNAIL.
- Use the CURSOR PAD buttons ▲, ▼, ◀ or ▶
   and the SELECT button to navigate and select
   individual chosen photos.



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



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



- Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.
- 2. The maximum number of digital Photos that can be displayed is 999.
- 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.
- 6. Digital cameras with low battery power may not properly display your photos in this input.
  7. The screen may show "Input device not detected" if the digital camera's large capacity
- 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.

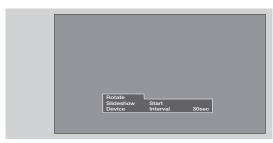
### **ROTATE**

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 ◀ or ▶ to select Device Drive. Press the INFO button to highlight a device, then press the SELECT button or CURSOR PAD ▶ to access it. Use the CURSOR PAD ◀ or ▶ to choose the device to read.



- 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).
- 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**

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

# When an IEEE1394 device is not connected





### When an IEEE1394 device is connected







- Press INPUT button, CURSOR PAD and SELECT button to select IEEE 1394.
- Use CURSOR PAD ► to select connected device (example D-VHS1).
- 3. Use CURSOR PAD cursors to highlight POWER.
- 4. Press the SELECT button to power on the device.
- Use CURSOR PAD cursors to select D-VHS operation.
- 6. Press down on the CURSOR PAD to enable the selected operation.
- Use CURSOR PAD cursors to highlight the TV IN/OUT operation.
- Press the SELECT button to select: TV IN is DVHS TV OUT is Cable

- 1. The digital device will be automatically recognized if properly connected.
- 2. Four (4) IEEE1394 devices can be listed on the menu, but only one device at a time can be used. If a fifth device is connected, it will replace the first device on the menu list.
- 3. The On-Screen display will not disappear until the EXIT 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.
- TV IN/OUT functions are not available when D-VHS is in playback or recording.
- 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.

# (5) LAST CHANNEL (LAST CH) button

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

# **(6) VOLUME (VOL) WHEEL, MUTE button**

Use the VOL WHEEL (▲ or ▼) until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the 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 ( $\triangle$ ).

Volume 8









Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 88).

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 (▲) or CHANNEL WHEEL down (▼).

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 turns highlighted GREEN to WHITE.







# ® (-) 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).

# **19 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 Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub picture simultaneously, with separate tuning control for each. When a Digital channel is viewed in the main picture, the Digital channel can not be viewed in the sub picture. And when the Analog channel input is viewed in the main picture, the Analog channel input can not be viewed in the sub picture.

The CABLE and AIR input cannot be viewed in PIP mode at the same time. To select between main picture and PIP sub picture tuning, 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 shown at the right to view VCR program as a sub-picture while viewing another program as main picture (CABLE or AIR).

When installing a CableCARD, connect your coaxial cable to CABLE (see page 12).

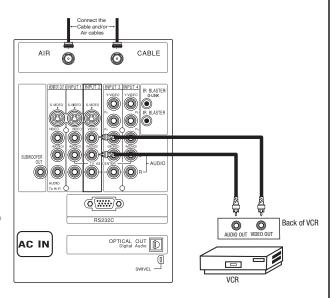
# ① PIP button

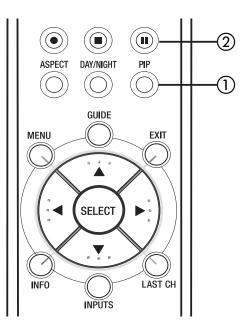
Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the four different modes.

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 signal. Please refer to the
PICTURE-IN-PICTURE MODES Table (see page
32).



- 1. PIP MODE Picture-in-Picture is only available with a 1080i signal.
- 2. Press the CURSOR PAD (◀ or ▶) to enable the sub-picture sound.
- 3. Sub-picture channel availability depends on the channel list.





# Picture-In-Picture (PIP)

# PIP MODE PICTURE-IN-PICTURE

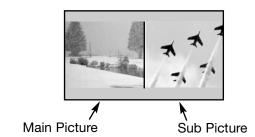
Select AIR from the INPUTS menu. Select a channel that has a 1080i signal. To prevent a pattern burn, occasionally move the sub-picture using the CURSOR PAD.





# **SPLIT MODE PICTURE-IN-PICTURE**

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



# **SURF MODE PICTURE-IN-PICTURE**

Surf Mode PIP automatically scans all active channels (those set in Memory) and displays them as PIP subpictures or Thumbnails. Press the SELECT button to stop on a chosen channel. Use the remote CURSOR PAD ▲, ▼, ◀ or ▶ to navigate the Thumbnails. Press the SELECT button to restart channel scan or press the EXIT button to enable your chosen channel and return to normal viewing.



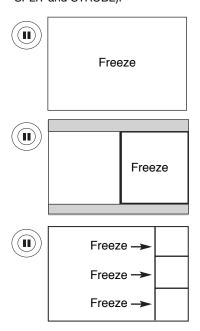
Picture-in-Picture (PIP) Modes					480p/480i/		
PIP	Main/		Digital Tuner		1080i/ 720p	Analog Tuner Video/S-Video	
Mode	Sub	Aspect	16:9	4:3	16:9	16:9	4:3
POP	ANT Digital	16:9	_	_	_	_	
		4:3	_	_	Yes	Yes	Yes
	480p/480i	16:9	Yes	Yes	_	_	_
	ANT Analog	4:3	Yes	Yes	_	_	_
	S-Video/Video						
PIP	ANT Digital	16:9	-	-	_	Yes	Yes
4:3	1080i/720p	16:9	_	Yes	_	-	_
	480p/480i	16:9	_	-	_	_	_
	S-Video/Video						
PIP	ANT Digital	16:9	_	-	Yes	Yes	Yes
16:9	1080i/720p	16:9	Yes	-	_	_	
	480p/480i	16:9	_	-	-	_	-
	S-Video/Video						
SPLIT	ANT Digital	16:9	_	-	Yes	Yes	Yes
		4:3	_	-	Yes	Yes	Yes
	1080i/720p	16:9	Yes	Yes		_	
	480p/480i	16:9	Yes	Yes	_	_	
	ANT Analog	4:3	Yes	Yes	-	-	-
	S-Video/Video						
SURF 12 PIX	-	-	Yes	Yes	_	-	Yes <sup>1</sup>

<sup>1.</sup> Available only in Analog Tuner.

# **Picture-In-Picture (PIP)**

# 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**

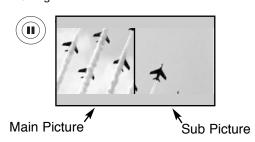
Press the PAUSE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the EXIT button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.





### **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 delayed about 0.1 (1/10) second.

# The Remote Control for Cable Box Functions

# Operating the precoded function for your cable box.

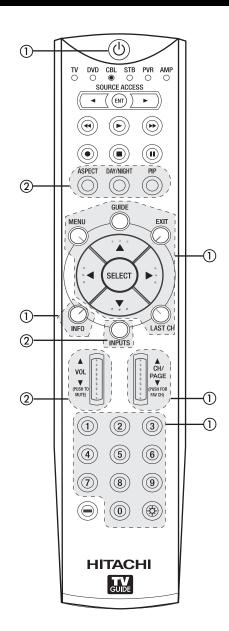
This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer to pages 40-41 for pre-codes).

- 1. Turn ON your cable box.
- 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.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your cable box as shown on pages 40-41. 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.

- In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the 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
- ② **EXCLUSIVE TV buttons**These buttons are for operating the TV.

codes.



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 40-41 for precodes).

- 1. Turn ON your set-top-box/satellite systems.
- 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 40-41. 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.
- 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.

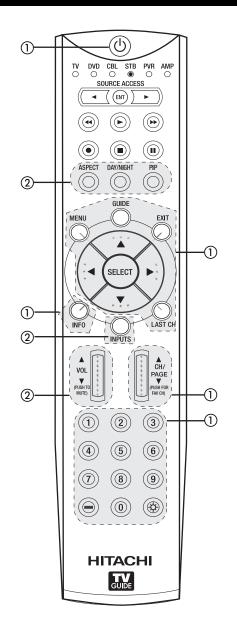
- In the unlikely event that your set-topbox/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

# PRE-CODED 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 40-41 for pre-codes).

- 1. Turn ON your DVD player.
- 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 40-41. 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.
- 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.

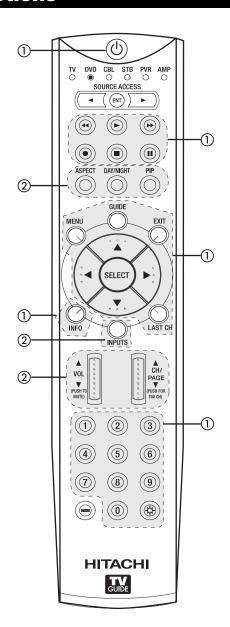
- In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing 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.

# The Remote for VCR/PVR Functions

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

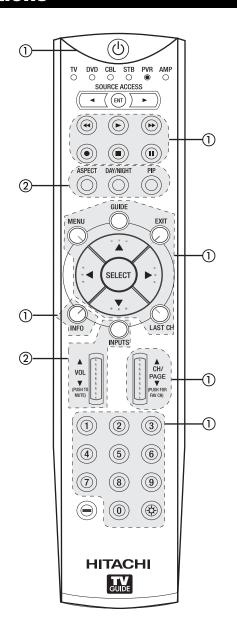
This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 40-41 for pre-codes).

- 1. Turn ON your VCR/PVR.
- Aim the remote control at the front of your VCR/PVR.
- To switch to VCR/PVR pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) 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 40-41. 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.
  - 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 from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 1 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.

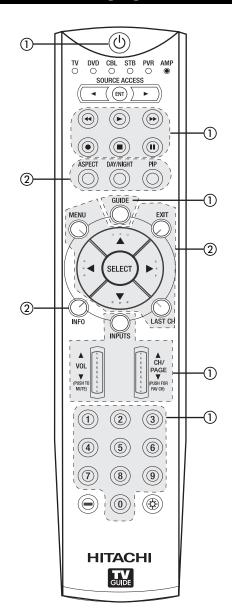
This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to pages 40-41 for pre-codes).

- Turn ON your Audio component you wish to control with the Remote.
- 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 40-41. 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.
- 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.
  - In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio component operating quide.
  - 3. The remote control will remember the codes you have programmed until the batteries are removed from the 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**

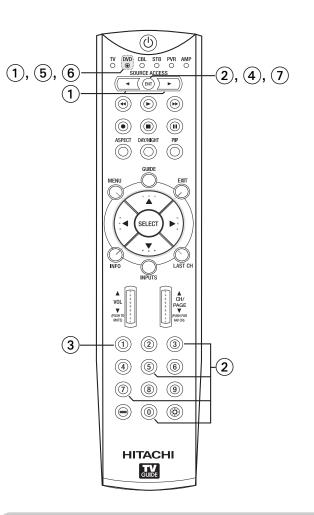
### **INPUT ACCESS**

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.
- 2. Hold down the ENTER (ENT) button on the remote and enter the four digit preset code that matches your device as shown on pages 40-41.
- Then enter the assigned input number (1-5) that the device is related to.
- 4. Release ENTER (ENT) button.
- 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.
- 7 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**

VCR BRAND	
Admiral0	
Adventura	,
Aiko	
Aiwa0000. 0	037. 0307
Akai0041, 0	061, 0106
Alienware	1972
America Action	
American High	
Asha	
Audiovox0	
Beaumark	
Bell & Howell01	
0002, 0	
CCE0002, 0	072 0278
Calix	
Canon	
Carver	
Cineral	0278
Citizen0	278, 0037
Colt	
Craig00	37, 0072,
0047, 0	240, 0271
Curtis Mathes00	035, 0041,
0	
CyberPower Cybernex	
Daewoo0278, 0	
Dell	
Denon	
Durabrand0	
Dynatech	
Electrohome	0037
Electrophonic	
Emerex	
Emerson0037, 0184, 0	000, 0121,
0043, 0209, 0002, 02	278, 0061,
0208, 0212, 0479, 0	561, 1593
Fisher0104, 0	
Funai0	
GE0035, 00	
0	
Garrard	
Gateway	1972
Go Video0-	432, 0526
GoldStar0	037, 0038
Gradiente0	
HI-Q	
HP	
Harley Davidson0	0000
Harwood	
Headquarter	0046
Hewlett Packard	1972
Hitachi 0000, 0041, 0	042, 0105
Howard Computers	1972
Hughes Network Syste	ems 0042
iBuy Power	1972
JVC0067, 0	
Jensen	
KLH	
Kenwood0041, 0	
Kodak0	
LG	
LXI	0037
Lloyd's0	
Logik	
MEI	
MGA0043, 0	240, 0061
MGN Technology	0240
MTC0	
Magnasonic Magnavox0035, 00	U393
0000, 0039, 0593	,, 0505,
Magnin	0240
Marantz0	

/larta	shita			.0037
/latsu	shita	0035	, 0162	, 1162
/ledia	Cente	r PC		1972
/lemo	rex	.0035,	0162,	0037,
	0048,	0039,	0047,	0240,
0307	0000, 7, 0479	1027	1162	1262
/licros	oft	, 1037	, 1102,	1972
/lind .				1972
/linolta	a		0042.	0105
/litsub	ishi	. 0061	, 0043,	0067
	ola			
/lultite	ch		0000,	0072
IEC .	0038	, 0041	, 0067,	0104
	< jate			
)lvmn	1115			
Optim	us us	.0593.	1062.	0162.
	0037,	0048,	0104,	0432,
		1048	, 1162,	1262
ptoni	ica			.0062
Orion.	0184	, 0209	, 0002,	0479
anas	onic	.0162,	1062,	0035,
	y0035,	0616	, 1162,	1262
'enne	y0035,	0037,	0240,	0042,
Onto			0042	.0038 1105
hilco	 0035	0209	0042, 0479	0561
hilips		, 0200 .0081.	0035.	0618.
		1081	, 1181.	0062
onee	er			.0067
olk A	udio			.0081
Profitro	onic			0240
	an			
	 er			
	71 Z			
Quasa	ır	0035	. 0162	. 1162
RCA	0060, 0106	0240,	0042,	0105,
	0106	, 0202	, 0761,	0880
Radio	Shack		0000	1037
Radix				.0037
Rande	x tic			.0037
tealis	0047,	.0035,	0037,	0048,
	0047,	0000,	0104,	0046,
Replay	 /TV		0614.	0616
Runco				.0039
STS				.0042
Samsı	ung	0045	, 0240,	0432
Sanky			0039,	0048
	i			
	0041	, 0479	, 1479,	0271
anyo	0047	, 0240	, 0104,	0046
COII		.0184, 00/13	0045,	0121,
	0035,			
0042	, 0104,	1237.	0046.	0066.
				0105
Semp.				.0045
Sharp		0048	, 0848,	0062
	m			
	n			
	·			
onic	Blue		0614,	0616
outy	0033	.0035, ASAN	1032,	1972
Sylvar	0033 iia	, 0030 0035	, 1032, 0081	0000
		0043	, 0593	1593
Sympl	nonic	0000	, 0593.	1593
Syster	max			1972
MK .			0240,	0208
agar	Systen	าร		1972
	]			
HC:DD	CS		いしばつ	いいかり

Teknika ......0000, 0035, 0037

homas			.0000
īvo īoshiba	0618	, 0636,	1503
0210,	.0045,	0043,	0000,
1008	11/15	1503	1072
otevision	, 1140	, 1000, 0037	0240
ouch		,	.1972
Jnitech			
/ector			.0045
ector Resea	arch		.0038
/ideo Conce	pts	0045,	0061
/ideo Conce /ideomagic			.0037
/ideosonic /iewsonic			.0240
/iewsonic			.1972
Wards 0060,	0062,	0035,	0048,
0047,	0081,	0240,	0000,
	0042	, 0072,	0212
White Westin	ghous	e	
		0072,	0209
(R-1000	0072	, 0000,	0035
/amaha ZT Group			1070
Zenith 0039,	0000	വാവവ	1972 
	0000,	0209,	1470
OVD BRAND			CODE
MW			.0872
\iwa			
Allegro			.0869
Apex Digital.	.0672,	0717,	0755,
0794, 0796, 1056, 1061 Audiovox	0797,	1004,	1020,
1056, 1061	, 1100	, 1915,	1937
Audiovox		0790,	1072
Axion			.1072
Blaupunkt			.0/1/
Blue Parade			.05/1
Brooksonic CAVS			.0695
CineVision			.1057
Classic		0676,	1017
Coby			1086
Curtis Mathe	s		1087
CyberHome	0816	1023	1024
DVD2000			.0521
Daewoo		.0784.	0705.
Denon	0833	, 0869,	1918
Denon		0490,	0634
Dual		1068,	1085
merson Interprise		0591,	0675
nterprise			.0591
isher unai			.0670
-unai ЭЕ	0500		.0675
эE ЭРХ	0522	, 0/1/,	0815
Gateway		0099,	1073
Go Video	0744	0715	0783
	0833	0869	1075
Gradiente			
Greenhill			
Grundig			.0705
larman/Karc	lon		.0702
Harman/Karo Hitachi	0573	, 0664,	0695
Hiteker			
RT			
nitial			.0717
ntegra Hiteker			.0627
IBL	0550		.0702
IVC0623	, U558,	, U867,	1901
(LH	0/1/	, 0790,	0700
Kawasaki Kenwood			.U/90
(oss			
asonic			
			()/QX
_ite-On			.0798 .1058
.ite-On ∕Iagnavox			.1058
√agnavox			.1058 0675,
Ладпаvox Marantz		.0503, 1914,	.1058 0675, 1976 .0539
Lite-On		.0503, 1914,	.1058 0675, 1976 .0539

Mintek0717,	വളവ
Mitaubiahi 0504	150
Mitsubishi0521,	152
Nesa	.0717
Norcent1003,	087
0007	0077
Onkyo0627,	050
Oritron	.065
Panasonic	0490
District	070
Philco	.0790
Philips0503, 0539, 0646,	0854
Pioneer0525, 0571,	100
Tioneer	1302
Polaroid1061,	1086
Polk Audio	.0539
Proscan	
F1050a11	.0524
Qwestar	.065
RCA0522, 0571,	0717
0700 0000	407
0790, 0822,	1974
Recco	.0698
Rio	0860
TIIO	.0000
Rotel	.062
Rowa	.0823
Sampo0698,	075
Sampo0090,	0/54
Samsung0490,	0573
0820, 0744,	107
0	0001
Sansui	.069
Sanyo0670, 0695,	0873
Semp	050
Oemp	.0500
Sharp0630,	0/52
Shinsonic0533,	0839
Sonic Blue	086
Soriic blue	.000
Sony	.053
Sylvania	.067
Symphonic	067
Symphonic	.007
TYT	.070
Teac	.0790
Technics	0400
Technics	.0490
Theta Digital	.057
Tivo	1996
Th:h- 0500 0005	4045
Toshiba0503, 0695,	1045
Toshiba0503, 0695,1988, 1996,	1045
Toshiba0503, 0695,1988, 1996,	1045
Toshiba0503, 0695,1988, 1996, Tredex0799,	1045 2006 0803
Toshiba0503, 0695,1988, 1996, Tredex0799, US Logic	1045 2006 0803 .0839
Toshiba0503, 0695,1988, 1996, Tredex0799, US Logic	1045 2006 0803 .0839
Toshiba0503, 0695,1988, 1996, Tredex0799, US Logic	1045 2006 0803 .0839
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539 0869
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539 0869
Toshiba0503, 0695,	1045 2006 0803 .0839 .0503 .0796 .0522 0539 0869
Toshiba0503, 0695,	1045 2006 0803 .0838 .0503 .0790 .0522 0538 0868
Toshiba0503, 0695,	1045 2006 0803 .0838 .0503 .0796 .0522 0538 0868
Toshiba0503, 0695,	1045 2006 0803 .0838 .0503 .0796 .0522 0538 0868 <b>CODE</b>
Toshiba	1045 2006 0803 .0838 .0503 .0796 .0522 0868 <b>CODE</b> 0013 .0318 .0898
Toshiba	1045 2006 0803 .0838 .0503 .0796 .0522 0868 <b>CODE</b> 0013 .0318 .0898
Toshiba	1045 2006 0803 .0838 .0503 .0796 .0522 0868 <b>CODE</b> 0013 .0318 .0898
Toshiba	1045 2006 0803 .0503 .0505 .0796 .0522 0538 0869 0013 0011 .0899 022
Toshiba	1045 2006 0803 .0503 .0505 .0796 .0522 0538 0869 0013 0011 .0899 022
Toshiba	1045 2006 0803 .0503 .0503 .0522 0533 0013 0011 .0899 022
Toshiba	1045 2006 0803 .0838 .0503 .0799 .0522 0538 0011 0311 .0899 022 0793 .0014 .0898
Toshiba	1045 2006 0803 .0503 .0503 .0503 0869 0013 .0017 .0899 022 .0797 .0014 .0899 .0022
Toshiba	1045 2006 0803 .0503 .0503 .0503 0869 0013 .0017 .0899 022 .0797 .0014 .0899 .0022
Toshiba	1045 2006 0803 .0503 .0503 .0522 0533 0869 022 021 029 024 029 024
Toshiba	1045 2006 0803 .0836 .0503 .0522 0533 0868 <b>CODB</b> 0013 .0898 .0022 .0022 .0153
Toshiba	1045 2006 0803 .0836 .0503 .0522 0533 0868 <b>CODB</b> 0013 .0898 .0022 .0022 .0153
Toshiba	1045 2006 0803 .0833 .0503 .0503 0852 0533 0865 <b>CODB</b> 0013 .0319 .0022 .0022 .0153 .0023
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0522 .0533 .0013 .0899 022 .0022 .0022 .0025 .0021 .0898
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0522 .0538 .0013 .0898 022 .0022 .0022 .0025 .0021 .0898 .0898 .0898
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0522 .0538 .0013 .0898 022 .0022 .0022 .0025 .0021 .0898 .0898 .0898
Toshiba	1045 2000 0803 .0838 .0503 .0503 0868 0013 0011 .0899 .0022 .0015 .0023 .0158 .0888 .0888 .0888 .003
Toshiba	1045 2000 0803 .0833 .0503 .0503 .0503 .0503 .0843 .0011 .0893 022 .0014 .0803 .0803 .0883 .0883 .0883 .0883
Toshiba	1045 2000 0803 .0833 .0503 .0503 .0503 .0503 .0843 .0011 .0893 022 .0014 .0803 .0803 .0883 .0883 .0883 .0883
Toshiba	1045 2000 0803 .0833 .0503 .0503 .0503 .0503 .0869 .0021 .0021 .0021 .0021 .0021 .0021 .0021 .0031 .00
Toshiba	1045 2000 080: .0833 .0503 .0503 .0522 0553 0869 0011 .0899 .0022 .0022 .0318 .0888 .0888 .0888 .0888 .0888 .0888 .0898 .0044 .0048
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0503 .0013 .0013 .0893 .0022 .0014 .0883 .0883 .003 .0044 .0083
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0503 .0863 .0011 .0899 022 .0153 .0022 .0153 .0031 .0883 .0044 .0018 .0883 .0044 .0018
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0503 .0863 .0011 .0899 022 .0153 .0022 .0153 .0031 .0883 .0044 .0018 .0883 .0044 .0018
Toshiba	1045 2000 0803 .0833 .0503 .0790 .0522 0533 0863  CODE 0013 0011 .0318 .0022 .0153 .0318 .0883 .0883 .0040 .0011 .0883 .0047 .0633
Toshiba	1045 2000 0803 .0503 .0503 .0503 0863  CODB 0013 0011 .0813 .0022 .0153 .0031 .0883 .0022 .0153 .0883 .0883 .0044 .0013 .0883 .0476 .0633 .0477
Toshiba	1045 2000 0803 .0503 .0503 .0503 0863  CODB 0013 0011 .0813 .0022 .0153 .0031 .0883 .0022 .0153 .0883 .0883 .0044 .0013 .0883 .0476 .0633 .0477
Toshiba	1045 2000 0803 .0503 .0503 .0503 .0503 .0503 .0601 .0311 .0899 .0022 .0155 .0318 .0883 .093 .0044 .0041 .0893 .0040 .005
Toshiba	1045 2006 0803 .0503 .0503 .0503 .0503 .0503 .0503 .0013 .0898 022 .0022 .0022 .003 .003 .003 .003
Toshiba	1045 2006 0803 0.0503 0
Toshiba	1045 2006 0803 0.0503 0
Toshiba	1045 2000 0803 .0503 .0503 .0503 0868  CODE 0013 0011 .0899022 .0153 .0040 .0883 .0040 .0883 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .0040
Toshiba	1045 2006 0803 .0833 .0503 .0796 .0522 0533 0061 0318 .0022 .0153 .0016 .0883 .0044 .0018 .0633 .0047 .0603 .0797 .0014

Hitachi......0011

# **Remote Control Codes**

Jasco0015, 0153,	0315
Jerrold 0003, 0011, 0014, 0015, 0024, 0276, 0	0012,
0014, 0015, 0024, 0276, 0	476,
Memorex	
Motorola 0276, 0476,	0810,
1106, 1254,	1376
Movie Time	
Multivision	
NSC	.0063
Novaplex	
Oak	
Optimus	.0021
Pace0237,	
Panasonic0000, 0021,	0107
Panther	
Paragon	
Philips0305,	
Pioneer0023, 0025, 0031,	0153,
0144, 0533, 0877,	
Popular Mechanics	
Pulsar	
Quasar	
RCA	
RadioShack 0015, 0315,	
Recoton	.0400
Regal0020, 0273,	
Rembrandt	
Runco	
SL Marx	.0040
Samsung0040,	
Scientific Atlanta0877,	0008,
0017, 0477,	1877
Signal0015,	
Signature	
Sony	
Sprucer	
Starcom0003,	
Stargate0015, 0040,	
Starquest	.0015
Supercable	.0276
Supermax	.0276 .0883
Supermax	.0276 .0883 .0310
SupermaxTFCTV86	.0276 .0883 .0310 .0063
SupermaxTFCTV86Tandy	.0276 .0883 .0310 .0063 .0258
Supermax	.0276 .0883 .0310 .0063 .0258
Supermax	.0276 .0883 .0310 .0063 .0258 .0221
SupermaxTFCTV86TandyTeleCaptionTeleviewTimeless	.0276 .0883 .0310 .0063 .0258 .0221 .0040
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013
Supermax           TFC           TV86           Tandy           TeleCaption           Teleview           Timeless           Tocom         .0012,           Torx	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 0013 .0003
Supermax           TFC           TV86           Tandy           TeleCaption           Teleview           Timeless           Tocom         .0012           Torx           Toshiba	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003
Supermax TFC TV86	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0003 .0003 .0000 .0883 .0015 .0153 .0191 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0003 .0005 .0153 .0153 .0191 .0883 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .003 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .003 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0883 .0883 .0258 .0883 .0883 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0005 .0883 .0883 .0258 .0883 .0883 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0003 .0015 .0153 .0153 .0883 .0883 .0883 .0883 .0883 .0883 .0883
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0003 .0015 .0153 .0153 .0883 .0883 .0883 .0883 .0883 .0883 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0003 .0015 .0153 .0191 .0883 .0258 .0883 .0883 .0883 .0883 .0883 .0899 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0883 .0883 .0883 .0883 .0883 .0899 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0883 .0899 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0883 .0899 .0400  Top- CODE .0772 .0075
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0899 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0003 .0015 .0153 .0191 .0883 .0883 .0883 .0883 .0883 .0899 .0400 Top- CODE .0772 .0075 .0095
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0883 .0899 .0400 -Top- CODE .0772 .0075 .0095 .0095
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0043 .0003 .0000 .0883 .0015 .0153 .0883 .0258 .0883 .0883 .0883 .0883 .0899 .0400
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0883 .0899 .0400  Top- CODE .0772 .0075 .0095 .0095 .0554 .0095 .0856 .0212
Supermax	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0258 .0803 .0905 .0905 .0095 .0095 .0095 .0095 .0095
Supermax TFC TV86	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0899 .0400
Supermax TFC TV86	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0040 .0013 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0883 .0883 .0899 .0400
Supermax TFC TV86	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0043 .0003 .0000 .0883 .0015 .0153 .0191 .0883 .0883 .0258 .0883 .0899 .0400  **Top-CODE** .0772 .0075 .0095
Supermax TFC TV86	.0276 .0883 .0310 .0063 .0258 .0221 .0040 .0043 .0003 .0000 .0883 .0015 .0153 .0883 .0258 .0883 .0883 .0883 .0883 .0899 .0400 .0975 .0095 .0095 .0095 .0095 .0095 .0096 .012 .0216 .0004 .1109061

1639, 1142, 0247,	0749
1749, 0724, 0819,	
1749, 0724, 0019,	1050,
1076, 1109, 0099,	1052,
1053, 1054, 1442, 1443,	1444
Dish Network System	1005,
0775, 1170	
DishPro1005,	0775
Drake0018, 0064,	0245
Echostar1005, 0775,	0148,
0269, 0280,	1170
Expressvu	.0775
GÉ	0566
GOI	
General Instrument	
0547,	
Gradiente	.0856
HTS	.0775
Hitachi	0819
homecable	
Hughes Network Systems	11.40
nugries Network Systems	1142,
0749, 1749, 1442, 1443,	
Hytek	.0095
IQ	.0210
IQ Prism	
Innova	
Intersat	
JVC0775,	
Janeil	
Legend	.0269
Macom0018,	
Magnavox0724,	
Memorex0724,	
Mitsubishi	
Motorola	.0869
Netsat	.0099
Next Level	0869
Norsat	
Pace	.0455
Panasonic0247, 0701,	0152
Paysat	.0724
Philips 1142, 0749, 0724,	1076
	1076,
0722, 1749, 0856,	0099
0722, 1749, 0856, Pico	.0099 .0075
0722, 1749, 0856, Pico	.0099 .0075 0566
0722, 1749, 0856, Pico	.0099 .0075 0566 0143
0722, 1749, 0856, Pico	.0099 .0075 0566 0143
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554 .0075
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554 .0075
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554 .0075 .0052
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210
	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 1109
0722, 1749, 0856, Pico	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 1109
	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 1109 1639
	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 .1109 1639 .0869
	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 .1109 1639 .0869 0547
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	0099 .0075 0566 0143 .0554 .0075 .0052 0099 0210 .1109 1639 .0869 0547 .0421 1444 0790, 1053, 1289 .0547 0074,
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	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 .1109 1639 .0869 0547 .0421 1444 0790, 1053, 1289 .0547
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	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 .1109 .0869 0547 .0421 1444 0790, 1053, 1289 .0547 0074, 0554 0064
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	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 1109 1639 .0869 0547 .0421 1444 0790, 1053, 1289 .0547 0074 0064  CODE .0406 .0674 .0269 .0300 .0160 .1561 .0078 .0892
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	0099 .0075 0566 0143 0554 .0075 .0052 0099 0210 1109 1639 .0869 0547 .0421 1444 0790, 1053, 1289 .0547 0074 0064  CODE .0406 .0674 .0269 .0300 .0160 .1561 .0078 .0892 .0331 .0892 .1561 .0269 .0165 .0269

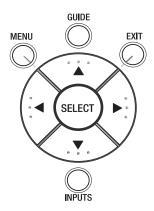
NEC	വാട
Nakamichi	
Optimus0395,	
Danasania 0209	0500
Panasonic0308,	004
Parasound	
Philips0269,	
Pioneer0013,	
Polk Audio0269,	0892
RCA	
Realistic	
Sansui	
Shure	
Sony0815, 0689,	
Soundesign0078,	021
Technics0308,	052
Toshiba	
Victor	.033
Wards0013, 0078,	021
Yamaha0354,	0133
RECEIVER BRAND (Amp	
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CODE	050
ADC Aiwa1405, 0121, 0158,	.053
	0189
0405	
Anam1074,	1609
Arcam	.1120
Audiotronic	.1189
Bose0639, 1229,	1253
Capetronic	.053
Carver1189, 0042,	
Casio	
Clarinette	.019
Coby	.1263
Compaq	.1136
Curtis Mathes	.0080
Dell	.1383
Denon0004,	1360
Fisher	
Garrard	.0463
Glory Horse	.1263
Harman/Kardon0891,	0110
0189	
Hewlett Packard	.1181
Hitachi	
Integra	
JBL	0110
JVC0074,	1261
KLH	1428
Kenwood1313, 1570,	1560
0027 0042 0186	U330
0027, 0042, 0186, LXI	040
Linn	
Lloyd's	010
MCS	0030
Magnavox1189, 1269,	.0000
Magnavox1189, 1269,	0189
0195, 0391, 0531	4000
Marantz1189, 0039, 0189,	
Mitsubishi	
Modulaire	
Musicmagic	
Nakamichi	
Onkyo0135,	0842
Optimus1023, 0042,	0800
0177, 0181, 0186,0531, 0670, 0738, 0801,	0219
0531, 0670, 0738, 0801,	1074
Panasonic1518, 0039,	0309
0367	
Penney1189, 1269,	.019
Philips1189, 1269,	0189
0391, Pioneer1023, 0014,	
	1120
Pioneer1023, 0014,	1120 0080
0150, 0244, 0531,	1120 0080 0630
0150, 0244, 0531, Polk Audio	1120 0080 0630 0189
0150, 0244, 0531,	1120 0080 0630 0189

Realistic .....0181, 0195

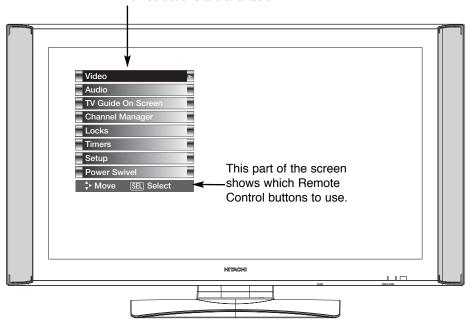
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Sansui	.0189
Sanyo0801,	1251
Scott0163,	0322
Sharp	.0186
Sharper Image0491,	.1263
Sherwood0491,	0502
Sonic Blue	.1383
Sony1058, 1441, 1759,	0158,
0474, 1349, 1406, Soundesign	1442
Soundesign	.0670
Stereophonics	.1023
Sunfire	.1313
Teac0463,	10/4
Technics1308,	1518,
0039,	1100
Thorens Toshiba	1570
Victor	
Mordo 0014 0000 0159	0100
Wards .0014, 0080, 0158, Yamaha0176, 0186,	1176
Yorx	0105
Zenith	0057
AUDIO BRAND	ODE
Aiwa0010,	0159
AudioSource	.0351
Cambridge Soundworks Carver	.0351
Carver	.0351
isher	.0052
isher sosgate	.0259
Harmon/Kardon JBL	.0477
JBL	.0477
JBL JVC	.0477 .0073
JVC KLH	.0073 .0351
JVC KLH Magnayox	.0073 .0351 .0325
JVC KLH Magnayox	.0073 .0351 .0325
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JVC	.0073 .0351 .0325 .0376 .0351 .0056 .0317 .0325
JVC (LH	.0073 .0351 .0325 .0376 .0351 .0056 .0317 .0325 .0376 .0576
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JVC (LH	.0073 .0351 .0325 .0376 0351 .0056 .0317 .0325 .0376 0576
JVC. KLH. Magnavox	.0073 .0351 .0325 .0376 0351 .0056 .0317 .0325 .0376 0576 .0376
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JVC (LH. Magnavox	.0073 .0351 .0325 .0376 .0351 .0056 .0317 .0325 .0376 .0376 .0376 .0376 .1120 .1010 .0295 .1190
JVC KLH	.0073 .0351 .0325 .0376 .0351 .0056 .0317 .0325 .0376 .0376 .0376 .0376 .1120 .1010 .0295 .1190 .1126
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JVC KLH	.0073 .0351 .0325 .0376 .0356 .0376 .0376 .0376 .0376 .0376 .0376 .0376 .1120 .1120 .1120 .0639 .0616 .0616 .0616 .0636

# **On-Screen Display**

- 1. Press MENU on the remote control to display the different features on your HITACHI Plasma TV.
- Use the CURSOR PAD (buttons ▲, ▼, ◀ and ▶) or CHANNEL WHEEL to navigate to a different menu item.
- 3. Press EXIT on the remote control to quickly exit from a menu.



This part of the screen shows which selections are available.



# **On-Screen Display**

Video	lacksquare
Picture Mode	Select between the two picture
	modes; Day and Night.
Contrast	Adjust contrast.
Brightness	Adjust brightness.
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 3 Contrast Mode
	settings.
Noise Reduction	Reduces conspicuous noise in
	the picture.
Auto Movie Mode	Turn On/Off the 3:2 Pulldown
	detection feature.
Aspect	Choose the picture format
	aspect ratio.
Black Side Panel	Set the gray side bars On/Off
	when watching 4:3 signals in
	standard mode.
Reset Video Settings	Choose to Reset Video Settings
	to factory settings.
-	

Audio	<b>V</b>
7 tadio	
Treble	Adjust the treble.
Bass	Adjust the bass.
Balance	Adjust the balance.
SRS	Select SRS settings (Off, Wide,
	Normal)
BBE	Select BBE settings (Off, Soft,
	Hard)
TruBass	Select TruBass settings.
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.

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

TV Guide On Screer	1
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TV Guide On Screen Set, Control and navigate the system

Channel Manager		
Signal Meter	Access Signal Meter.	
Auto Channel Scan	Set Auto Channel Scan.	
Channel List	Set Channel List.	
Locks	▼	
Change Access Code	Change Lock access code.	
Engage Lock	Choose to lock channel, video	
	input, and/or front panel.	
Movie Ratings	Block various types of movies	
	and video types based on	
	motion picture ratings.	
TV Ratings	Block various types of movies	
	and television programming	
	based on a parental guide	
	ratings.	
Canadian Ratings (ENG)	Block various types of movies	
	and television programming	
	based on the Canadian ratings	
	system.	
Canadian Ratings (FRN)	Block various types of movies	
	and television programming	
	based on the Canadian French	
	ratings system.	
Timore	_	

Timers	<b>V</b>
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	▼
Menu Preference	Choose English, French, or
	Spanish text.
Screen Saver	Set Screen Saver to prevent
	screen burn.
Set The Inputs	Label Video Inputs, VCR, DVD,
	etc.
Set AV NET	Set AV NET Wizard
Set Closed Captions	Feature to display dialogue/text.
Set Monitor Out	Set Monitor Out source.
Upgrades	Select to upgrade TV software.
Set Stand-By Mode	Select the Set Stand-By Mode
	options.

Power S	Swivel
Unlocked	Power Swivel enabled. Control
	the motorized Table Top Stand
Locked	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.

# **Video**

# Video

Select VIDEO to adjust picture settings and improve picture quality. You can independently customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If RESET is selected, only the selected input will reset to initial conditions.

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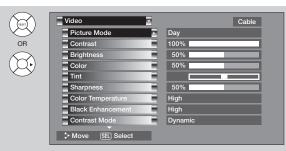
#### **Picture Mode**

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

- Use the CURSOR buttons ◀ or ▶ to highlight and select PICTURE MODE settings (Day or Night).
- 2. Then press the **SELECT** button to set the mode and return to the Video menu or press **EXIT** to quit menu.

Function	Day	Night
Contrast	100%	90%
Brightness	50%	50%
Color	50%	30%
Tint	50%	50%
Sharpness	50%	30%
Color Temperature	High	Standard
Black Enhancement	High	Off
Contrast Mode	Dynamic	Normal
Noise Reduction	Low	Low
Auto Movie Mode	Off	Off
(TV/Cinema Detection)		







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

## 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.

#### Color

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

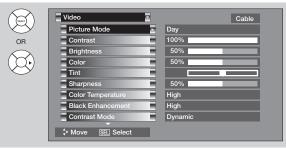
#### Tint

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.





# Video

#### **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.

#### **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-PBPR input jacks.
  - 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 3 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, and set to Auto for automatic Contrast selection.

#### **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).

#### **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 ▲ or ▼ 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.



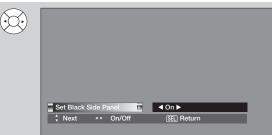
# Video

### **Set 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 **SET BLACK SIDE PANEL** to return to the previous menu.





**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.

# **Reset Video Settings**

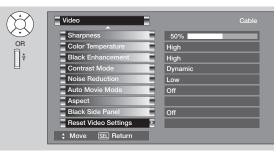
This function allows you to Reset the Video Menu Settings of the present input and return it to the Day VIDEO mode.

- Use CURSOR PAD ▲, ▼ or CHANNEL WHEEL 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.
- 4. 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.

**NOTE:** If YES is selected, the **VIDEO MENU SETTINGS** will be reset to the original factory settings on all modes during the next power on/off.





# **Audio**

# Audio

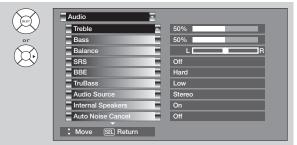
Select AUDIO to adjust the TV to your preference and to improve the sound quality.

- 1. Press CURSOR PAD ▲ or ▼ to select menu item.
- 2. Press CURSOR PAD ◀ or ▶ to adjust the function.
- 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.





#### **Treble**

This function controls the high frequency audio to all speakers.

#### Bass

This function controls the low frequency audio to all speakers.

#### Ralance

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

#### **SRS**

Based on the principles of the human hearing system, **SRS** technology delivers and exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your **HITACHI** Television. If your **HITACHI** Television is connected to an external audio system, **SRS** will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

SRS and the ( ) symbol are trademarks of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.

# BBE

Sound reproduction quality enhancement system. The **BBE** technology produces sound that is natural and crisp from just two speakers or the two internal speakers found in your **HITACHI** television. If your **HITACHI** television is connected to an external audio system, **BBE** will also create an incredible crisp sound experience from two speakers. **BBE** brings to the listener's ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.

Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.

#### **SRS TruBass**

TruBass is an audio enhancement technology from SRS Labs that provides deep, rich bass on any speaker system without the need for a subwoofer or additional extra physical components. For systems with a subwoofer, TruBass complements and enhances the bass performance. This feature can be set to Off, Low, Medium and High.

TruBass, SRS and the ( ) symbol are trademarks of SRS Labs, Inc. TruBass technology is incorporated under license from SRS Labs, Inc.

# 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).

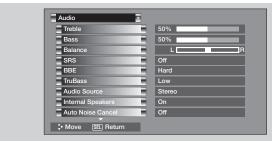
# DRC

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. This is only effective when the TV is connected via the optical out (digital audio) to an amplifier/receiver with a Dolby® Digital decoder. The default setting is ON.

Use the CURSOR PAD ◀ or ▶ 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.





# TV Guide On Screen

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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. This interactive guide can also be programmed to receive listings from a cable box or record your favorite shows using a VCR.

If using a Cable Box or VCR, you must first setup the Plasma TV as shown on Page 22.

### 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.





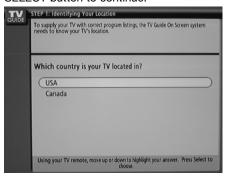
Note: Pressing the GUIDE button also allows you immediate access to this feature.

2. Press the SELECT button to continue.

# **Setup Procedure:**

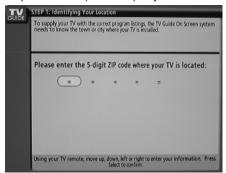
Screen 1: Select which country your TV is located in:

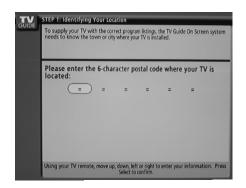
Use the CURSOR PAD ▲ and ▼ to highlight your TV location (USA or CANADA), then press the SELECT button to continue.



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

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





#### Screen 3:

Do you have Cable service connected?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see Screen 4.

If NO: Please see Screen 12.

To supply your TV with correct program listings, the TV Guide On Screen system needs to know if your TV receives its signal from a cable service.

Do you have cable service connected to this TV?

Yes

No

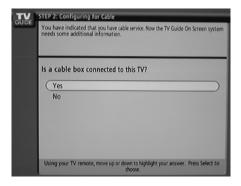
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

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### Screen 4:

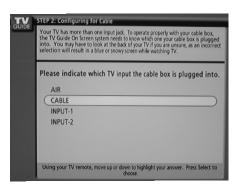
Do you have a Cable box connected?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see Screen 5.

If NO: Please see Screen 12.



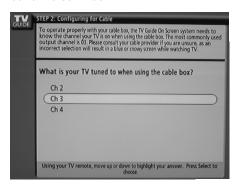
#### Screen 5:

Which TV input is the Cable box plugged into? AIR/CABLE: Please see Screen 6. INPUT 1/2: Please see Screen 7.



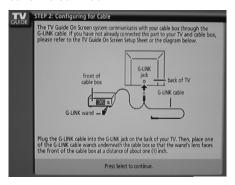
#### Screen 6:

Select the channel your TV is tuned to when using a Cable box. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.



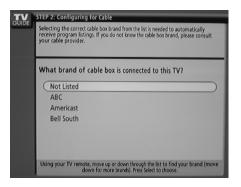
#### Screen 7:

This screen shows the correct way to setup the Cable box with the G-LINK. Please confirm connection (see Page 22). Press the SELECT button to continue.



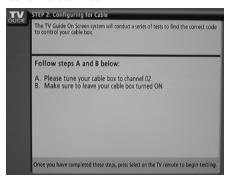
### Screen 8:

Use the CURSOR PAD ▲ and ▼ to highlight your Cable box brand or choose "Not Listed" if not listed, then press the SELECT button to continue.



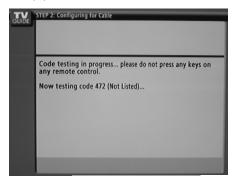
# Screen 9:

To allow the TV Guide On-Screen system to find the correct code for your brand of Cable box, tune the Cable box to channel 2. Please make sure that the Cable box and TV are ON. Press the SELECT button to continue.



#### Screen 10:

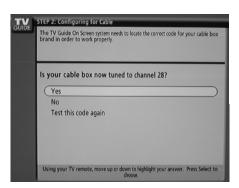
The TV Guide On Screen system will test the code of your Cable box. No TV, Cable or remote buttons should be pressed while performing the automatic test. After the testing process is complete, the setup procedure will continue, see screen 11.



#### Screen 11:

Did your Cable box tune to channel 28? Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue. If YES: Please see screen 12.

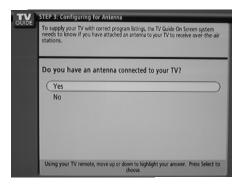
If NO: Select NO to test a different code or select TEST THIS CODE AGAIN to test the same code.



## Screen 12:

Do you have an antenna connected? Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.

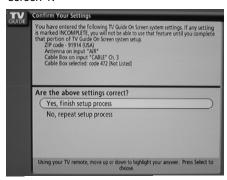
NOTE: In order to receive the program listings, you must select YES in this screen if you chose NO in Screen 3.



#### Screen 13:

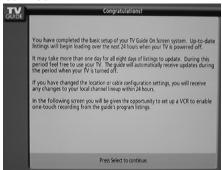
Please confirm your initial settings. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue. If YES, FINISH SETUP PROCESS: Please see screen 14.

If NO, REPEAT SETUP PROCESS: Please see screen 1.



#### Screen 14:

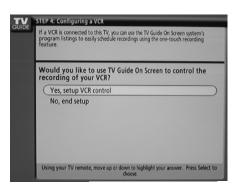
The Basic TV Guide On Screen system setup has just been completed. Press the SELECT button to continue.



#### Screen 15:

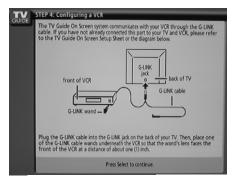
Would like the TV Guide On-Screen system to control the recording of your VCR? Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue. If YES: Please see Screen 16.

If NO: Please see Screen 21.



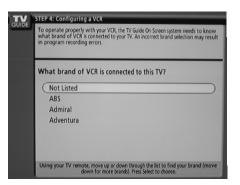
### Screen 16:

This screen shows the correct way to setup the VCR with the G-LINK. Please confirm connection (see Page 22). Press the SELECT button to continue.



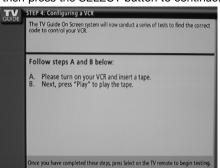
#### Screen 17:

Use the CURSOR PAD ▲ and ▼ to highlight your VCR brand or choose "Not Listed" if not listed, then press the SELECT button to continue.



#### Screen 18:

Please turn on your VCR and insert a tape for recording purposes. Press PLAY from the VCR, then press the SELECT button to continue.



#### Screen 19:

The TV Guide On Screen system will test the code of your VCR. No TV, VCR or remote buttons should be pressed while performing the automatic test. After the testing process is complete, the setup procedure will continue, see screen 20.

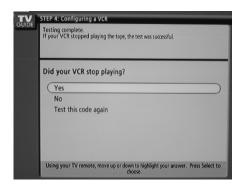


#### Screen 20:

Did your VCR stop playing?

Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue. If YES: Please see screen 21.

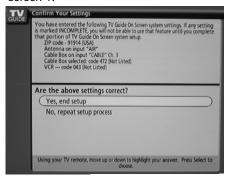
If NO: Select NO to test a different code or select TEST THIS CODE AGAIN to test the same code.



## Screen 21:

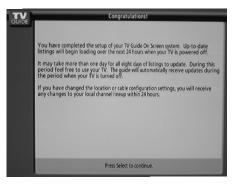
Please confirm your initial settings. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue. If YES, FINISH SETUP PROCESS: Please see screen 22.

If NO, REPEAT SETUP PROCESS: Please see screen 1.



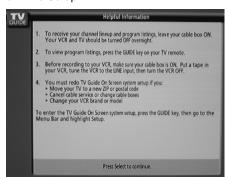
### Screen 22:

Congratulations! The TV Guide On Screen system setup is complete. Press the SELECT button to finalize.



### Screen 23:

The last screen gives tips on using the TV Guide On Screen system. Press the SELECT button to exit the Setup.



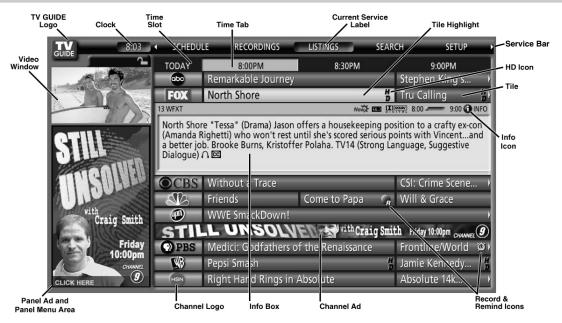
- **NOTE**: 1. The Plasma TV should be in standby mode in order to continually receive updated program listings from your cable company.
  - 2. If using a Cable box, please leave it ON to continually receive updated program listings from your cable company.

# Using the TV Guide On Screen System

This free interactive program guide provides up to 8 days of TV programming. The advanced program listings make watching and recording TV shows and programs much easier.

The TV Guide On Screen system consists of 5 main services:

- **Listings:** Displays the available program listings and descriptions.
- Search: Allows you to find shows by keyword, alphabetically, or by program category.
- Recordings: Displays a list of recorded programs or a currently recording program.
- Schedule: Allows you to review, edit or delete "Record/Remind" events that were previously set.
- Setup: Allows you to make changes to System Settings, Channel Display and Default Options.
- **NOTE:** 1. After initial setup it may take up to 24 hours to receive initial program listings. It may take up to one week to receive a full 8 days of program listings.
  - 2. The Program Guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air programs. It does not support satellite services.
  - 3. The Recordings services will not be available until an IEEE1394 HDD recording device is connected to the TV.
  - 4. The Listings services also have a recording function to other devices such as a VCR.
  - 5. The TV Guide On Screen representations shown in this Operating Guide are for illustration purposes only. Channels and program availability will depend on your location.
  - 6. If Cable and Air are both connected, channels from both antennas will be downloaded and shown grouped together in the listings.



- Video Window- Displays the current TV program while the Guide is enabled.
- Clock Window- Displays the current time.
- Tile Highlight- Indicates the current active tile.
- Current Services Label- Indicates currently viewed Service Label.
- Service Bar- Provides access to the 5 main Guide services.
- Time Slot- Provides the program broadcast time frame.
- Info Icon- Indicates additional information is available, or the Info Box has additional sizes.
- Info Box- Provides information on the highlighted program.
- Tile- Displays the program's title.
- Remind Icon- Indicates the program is set to remind and the remind frequency (Once, Daily, Weekly, or Regularly).
- Record Icon- Indicates the program is set to record and the record frequency (Once, Daily, Weekly, or Regularly).
- Channel Logo- Indicates the channel logo for easy identification.
- Panel Menu/Panel Ad- Displays Menu options and program advertising.

### NAVIGATING THE TV GUIDE ON SCREEN SYSTEM

- Press the GUIDE button while watching TV to access the TV Guide On Screen system. The LISTINGS screen will be presented with the current show displayed in the Video Window.
- Use the CURSOR PAD ◀, ▶, ▲, and ▼ to highlight any program, and press the SELECT button to tune to that program (if it is currently airing) or channel (if the program airs in the future). You can also press the GUIDE button to exit the Guide and automatically tune to the program displayed in the Video Window.
- · Press the MENU button to access the Panel Menu where you can set reminders and recordings for the highlighted program.
- To access another Service screen:
  - 1. Press the MENU button to access the Panel Menu. Press the CURSOR PAD ▲ to highlight "GO TO SERVICE BAR". Press the SELECT button to jump to the Service Bar. You can also jump to the Service Bar by repeatedly pressing PAGE UP or CURSOR PAD ▲.

Video →

Window

2. Press the CURSOR PAD ◀ or ▶ to highlight a different Service (LISTINGS, SEARCH, SETUP, SCHEDULE, and RECORDINGS).

3. Press the CURSOR PAD ▼ to use the highlighted Service.

Press the PIP button to Lock the Video Video Window:

> Window to one single channel. Press the PIP button again to Unlock the Video Window so it displays the channels as you navigate through

the listings.

**Panel Menus:** Press the MENU button to access the Panel

Menus.

(9) PIP

(10) PAGE UP /

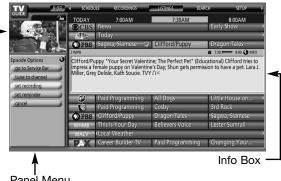
PAGE DOWN

Info Box: Press the INFO button to access or resize the

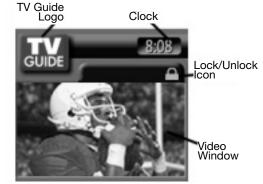
Info Box. Info Boxes contain information about

a show, Service or Panel Ad, or Help

information for a Panel Menu.



Panel Menu



# Remote Control Functions of the TV Guide On Screen syste

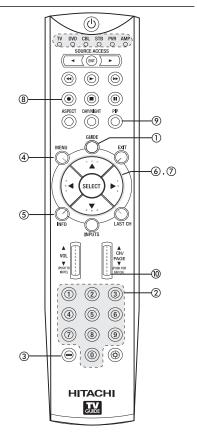
Remote Control Functions of the 1V Guide On Screen system	
Button	Function
① GUIDE	<ul><li>Press to access the TV Guide On Screen system.</li><li>Press again to exit the TV Guide On Screen system.</li></ul>
② CHANNEL SELECTOR (Numbers)	- For Channel Tuning, Channel editing
③ (-) DIGITAL SEPARATOR	- For entering Digital Channels.
④ MENU	- Press to access the Panel Menu for other options.
⑤ INFO	- Press to cycle between levels of Information.
⑥ SELECT	<ul><li>Press to enable your selection.</li><li>Press to directly tune to a currently airing program.</li><li>Press to display Panel Menu while checking future program tiles.</li></ul>
⑦ CURSOR PAD	- Press to navigate the Cursor.
® RECORD	- Press to record current program.

- Press to toggle the Lock and Unlock feature

- Rotate the Channel Wheel one click up or down

to move one set of screen information up or down.

of the Video Window.



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#### **TV Guide On Screen Icons**

Icon NAME DESCRIPTION 1. 8:00 \_\_\_\_\_ 10:00 Progress Bar - Elapsed time in current program INFO 2. Info Icon - Indicates Info Box has additional sizes and information. 3. **HDTV** - Program is presented in High Definition. 4. - Program is new (not a repeat). New 5. CC - Closed Captioning is available. 6. TV Rating - TV rating for the program. 7. Record Once - Program is set to record one time. 8. Record Daily - Program is set to record every weekday that it airs on the same channel and starts at the same time. (Only available in manual recording). 9. Record Regularly - Program is set to record every time it airs on the same channel and starts at the same time. 10. Record Weekly - Program is set to record every time it airs on the same day of the week and on the same channel, and starts at the same time. Record Off - Program is set to record but is currently Off (Still in Schedule) until 11. the frequency is changed. 12. Record Suspended - Program recording is suspended due to a schedule conflict (Still in Schedule). - The Recording will resume when the conflict no longer exists. 13. Remind Once - Program is set to remind one time. 14. Remind Daily - Program is set to remind every weekday that it airs on the channel and starts at the same time (Only available when setting a manual reminder). 15. Remind Regularly - Program is set to remind every time it airs on the same channel and starts at the same time. 16. Remind Weekly - Program is set to remind every time it airs on the same day of the week and on the same channel, and starts at the same time. 17. Remind Off - Program is set to remind but is currently Off (Still in Schedule) until the frequency is changed. 18. Remind Suspended - Program reminder is suspended due to a schedule conflict (Still in Schedule). - The Reminder will resume when the conflict no longer exists. 19. Stereo - Program is available in stereo. AC3 Dolby Digital 20. - Program is presented in High-Definition, if available. Recording Media HDD 21. - Displays to indicate HDD storage.



23.

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Recording Media DVD

### Five (5) Services:

- LISTINGS
- SEARCH
- RECORDINGS
- SCHEDULE
- SETUP
- NOTE: 1. The RECORDINGS service is only available when an IEEE1394 HDD recording device is connected to the TV (see page 19).
  - Recording to other devices such as a VCR is available in the LISTINGS, SEARCH and SCHEDULE services.

### **LISTINGS:**

The LISTINGS service screen is always the first service displayed when accessing the TV Guide On Screen system.



Use the CURSOR PAD and SELECT buttons to navigate the LISTINGS screen.

- View current day and up to 7 days of future programs.
- · Read program information.
- Press the SELECT button to tune directly to a current program.
- · Lock and Unlock the Video Window.
- · Set a program to remind.
- Set a program to Record.
- Access the panel ads and channel ads when available.
- Use the CHANNEL SELECTOR (Number) buttons to jump to a specific channel.

Press the INFO button while the LISTINGS service is highlighted on the Service Bar to display a Help screen.



Press the MENU button while a program is highlighted to access the Episode Options Panel Menu.

#### **EPISODE OPTIONS Panel Menu:**

- Go to Service Bar
- Watch Now
- · Set a recording
- · Set a reminder
- Tune to the channel



#### GO TO SERVICE BAR:

Select to highlight the Service Bar.

# **TUNE TO CHANNEL / WATCH NOW:**

Select to exit the TV Guide On Screen system and tune to the program or channel of the highlighted current and future program tile respectively.

# **SET RECORDING:**

Select to display the Record Options Panel Menu from which you can set a program to record (see page 61).

# **SET REMINDER:**

Select to display the Remind Options Panel Menu from which you can set a reminder for a program (see page 62).

# **CANCEL:**

Select to close the menu and return to the highlighted program.

# **SEARCH:**

The SEARCH service screen allows you to find programs by the following:

- Keyword
- Alphabetical
- Category
  - HDTV
  - Movies
  - Sports
  - Children
  - Educational
  - News
  - Variety
  - Series



Press the INFO button while the SEARCH service is highlighted on the Service Bar to display a Help screen.



# **Example Category Search (Movies)**

From the Search Screen, press the CURSOR PAD
 ▼ to highlight a category (Example: Movies).



2. Press the CURSOR PAD ▼ to highlight a subcategory (Example: ALL).



Press the SELECT button to display a list of all movies organized by date and time.



4. Use the CURSOR PAD ▲ and ▼ to highlight a current program, and then press the SELECT button to watch now. You can also press the MENU button to access the Episode Options Panel Menu (see page 57).



# **Example: Keyword Search**

The Keyword search allows you to enter a word or words to find a program title that matches.

- From the Search Screen, use the CURSOR PAD 

  or 

  to highlight KEYWORD, and then press the
  SELECT button.
- Use the CURSOR PAD ▲ or ▼ to highlight NEW SEARCH in the Panel Menu, and then press the SELECT button.



- After the Search Options Panel Menu is accessed, use the CURSOR PAD ▲ or ▼ to highlight
   CATEGORY. Then, use the CURSOR PAD ◀ or ▶
   to highlight a category to search (ALL, HDTV,
   Children, Sports, etc.).
- Press the CURSOR PAD ▼ to highlight ENTER KEYWORD, and then press the SELECT button.



A keyboard is displayed. Use the CURSOR PAD ▲,
 ▼, ◀ and ▶ to highlight a letter, and then press the SELECT button to enter it. After entering all necessary letters, highlight DONE and press the SELECT button.



A list of all the shows that matched the keyword is displayed.



7. Use the CURSOR PAD ▲ and ▼ to highlight a program, and then press the SELECT button to display all play times. Use the CURSOR PAD ▲ and ▼ to highlight a chosen listing, then press the SELECT button to watch a current program or press the MENU button to display the Episode Options menu (see page 57).

**NOTE**: The TV Guide On Screen system stores up to 250 keywords.

# To Edit or Delete a keyword:

From the SEARCH/KEYWORD screen, use the CURSOR PAD ▲ and ▼ to highlight the keyword you want to edit or delete. Press the MENU button to access the Search Options Panel Menu.



### **GO TO SERVICE BAR:**

Select to highlight the Service Bar.

# **EDIT SEARCH:**

Select to display the keyboard for editing the keyword.

### **DELETE SEARCH:**

Select to display the Confirmation Panel Menu. Select YES to delete the search or NO to exit the Panel Menu.



#### **CANCEL:**

Select to close the Panel Menu and return to the highlighted program.

### **RECORDINGS:**

The RECORDINGS Service screen displays a list of previously recorded or currently recording programs on an IEEE1394 recording device connected to the TV.

NOTE: The RECORDINGS Service will only appear in the Service Bar if an IEEE1394 recording device is connected to the TV (see page 19).

Press the INFO button while the RECORDINGS Service is highlighted on the Service Bar to display a Help screen.



## To choose the way recordings are displayed:

- Use the CURSOR PAD ◀ or ▶ to highlight RECORDINGS on the Service Bar, and then press the MENU button to access the Recording Options Panel Menu.
- Use the CURSOR PAD ▲ or ▼ to choose between View As and Sort By.





#### View As:

Use the CURSOR PAD ◀ or ▶ to select between List View and Group View.

 Group – Select to display recorded programs without listing every recorded episode. (Example:

- Screen A) Highlight a program, and then press the SELECT button to view a summary of all recorded programs.
- List Select to display every recorded episode for a program. (Example: Screen B) Highlight an episode to display an Info Box with program information. Press the MENU button to display the Episode Options Panel Menu.

#### Sort By:

Use the CURSOR PAD ◀ or ▶ to select between Title and Date.

- Title Select to display recorded programs in alphabetical order. (Example: Screen A)
- Date Select to display recorded programs by Date and Time. (Example: Screen B)
- Press the SELECT button to highlight DONE, and then press the SELECT button again to exit the Panel Menu.

### To view a recording:

- Use the CURSOR PAD ▲ or ▼ to highlight an episode and press the SELECT button to view it now. If viewed previously, the episode will resume from where it was stopped.
- 2. Use the CURSOR PAD ▲ or ▼ to highlight an episode, and then press the MENU button to display the Episode Options Panel Menu.

# **GO TO SERVICE BAR:**

Select to highlight the Service Bar from the Recordings Screen.

# **RESUME:**

Select to start from the beginning or from where it was stopped.

# **PLAY FROM BEGINNING:**

Select to always start from the beginning.

# **DELETE EPISODE:**

Select to delete the episode from the Recordings list and from the IEEE1394 recording device. A confirmation Panel Menu will display. Select YES to delete or NO to exit the Panel Menu.

# **CANCEL:**

Select to exit the Panel Menu.

### **SCHEDULE:**

The SCHEDULE Service screen allows you to review, edit and delete Record and Remind events.



Press the INFO button while the SCHEDULE Service is highlighted on the Service Bar to display a Help screen.



Use the CURSOR PAD ▲ or ▼ to highlight an event, and then press the MENU button to display the applicable Schedule Options Panel Menu options.

### **GO TO SERVICE BAR:**

Select to highlight the Service Bar.

# **WATCH NOW/TUNE TO CHANNEL:**

Select to exit the TV Guide On Screen system and tune to the highlighted program.

# **SET RECORDING:**

Select to open a menu in which you can set a recording for the program (see page 61).

#### **DELETE RECORDING:**

Select to remove the recording from the schedule. A confirmation Panel Menu will display. Select YES to delete the recording or NO to exit the Panel Menu.

# **EDIT RECORDING:**

Select to open a menu in which you can edit existing information (see page 61).

## **SET REMINDER:**

Select to open a menu in which you can set a reminder for the program (see page 63).

# **DELETE REMINDER:**

Select to remove the reminder from the schedule. A confirmation panel menu will display. Select YES to delete the reminder or NO to exit the panel menu.

# **EDIT REMINDER:**

Select to open a menu in which you can edit existing reminder information (see page 63).

# CANCEL:

Select to exit the Panel Menu.

#### **How to Record:**

The Record options can be set in the LISTINGS, SEARCH, and SCHEDULE Services. You can also edit record settings for a program in the SCHEDULE Services. There are 3 ways to set a program to record.

 Use the RECORD button on the Remote Control. Press the RECORD button to record the program Once with the current default setting. Each press of the RECORD button cycles through the RECORD frequency of Once (default), Regularly, Weekly and Cancel.

**NOTE**: The specific Record Icon appears on the tile each time the RECORD button is pressed.

- Use the Panel Menu record features.
- Use the CURSOR PAD ▲ or ▼ to highlight a program and press the MENU button to access the Panel Menu.



- Use the CURSOR PAD ▼ to highlight Set Recording and press the SELECT button to display the Record Options Panel Menu.
- Use the CURSOR PAD ▲ or ▼ to highlight the Frequency field and press the CURSOR PAD ◀ or ▶ to select among Once, Regularly, Weekly or Off.
- Press the CURSOR PAD ▼ to highlight the Start field, and then press the CURSOR PAD ◀ or ► to select in the range from 120 minutes early to 120 minutes late. The default time is ON Time.
- 5. Repeat step 4 for the End Field.
- Use the CURSOR PAD ▼ to highlight the Recorder field and then press the CURSOR PAD ◀ or ▶ to select the Recording device.
- 7. Use the CURSOR PAD ▼ to highlight the Keep Until field and then press the CURSOR PAD ◀ or ▶ to select a save option.
- Press the SELECT button to highlight SCHEDULE RECORDING. Press the SELECT button again to exit the menu or highlight CANCEL and press the SELECT button to close the menu and return to the highlighted program.

NOTE: Steps 6, 7 and 8 are for connected IEEE1394 recording only.

- Use Manual Recording:
- From the SERVICE bar, use the CURSOR PAD

   ◆ or ▶ to highlight the SCHEDULE. Press the
   MENU button to display the Schedule Options
   Panel Menu.



 Use the CURSOR PAD ▲ or ▼ to highlight New Manual Recording, and then press the SELECT button to access the Record Options Panel Menu.



- 3. Set the information in the Panel Menu fields.
- 4. After completing the information in the fields, press the SELECT button to highlight SCHEDULE RECORDING, and then press the SELECT button again to exit the menu or use the CURSOR PAD ▲ or ▼ to highlight CANCEL then press the SELECT button to exit the menu.
- **NOTE:** 1. When setting Manual recording, the option DAILY is available instead of Regularly.
  - 2. A specific Record icon appears on the tile.

### **Recording Notification Banner:**

If the channel you are watching is different from the one that is set to record, a notification banner appears and will prompt you before recording starts. The banner will ask you to choose to start or cancel recording. If no choice is made within 3 minutes, the banner will close automatically and the channel will tune to the one set to record. If you want the recording cancelled, select "Don't change; cancel recording" in the banner and press the SELECT button.



# **Recording Conflict:**

A recording conflict message will appear if:

- A program set to record overlaps with part of another program previously set to record.
- A program set to record overlaps with the program previously set to auto-tune (see page 63).
   Select these options:
- Record Anyway The selected program will override an existing program set to record or autotune.
- Don't record this show Cancels the recording.





### **How to Remind:**

The Remind options can be set in the LISTINGS, SEARCH, and SCHEDULE Services. You can also edit remind settings for a program in the SCHEDULE Services. Set the Reminder to perform the following functions.

- Set to automatically turn ON the TV and tune to the channel at the scheduled reminder time.
- Set to automatically tune the TV, at the scheduled reminder time, to the channel specified by the reminder.
- Set to display an on-screen notification banner that reminds you that the program is about to start. You will be given the choices to tune to the program channel or cancel the reminder.

#### How to set a reminder:

- Set from the Panel Menu
- Use the CURSOR PAD ▲ or ▼ to highlight a program and press the MENU button to access the Episode Options Panel Menu.
- Use the CURSOR PAD ▼ to highlight SET REMINDER and press the SELECT button to access the Remind Options Panel Menu.





- Use the CURSOR PAD ▲ or ▼ to highlight the frequency field, and then use the CURSOR PAD ◀ or ▶ to select from Once, Regularly, Weekly, Daily (Only available in Manual reminder), or Off.
- Use the CURSOR PAD ▼ to highlight the Power on TV field, and then use the CURSOR PAD ◀ or ► to select YES (Turns the TV On automatically at the specified reminder time) or NO (Default setting).
- Use the CURSOR PAD ▼ to highlight the Auto Tune TV field, and then use the CURSOR PAD ◀ or ► to select YES (Tunes the TV which is currently ON automatically to the channel specified at specified reminder time).
- 6. Use the CURSOR PAD ▼ to highlight the When field (set the time for displaying the reminder screen), and then use the CURSOR PAD ◀ or ▶ to select from 15 minutes early to 15 minutes late or On time (Default is 1 minute early).
- 7. Press the SELECT button to highlight Schedule reminder, and then press the SELECT button again to exit the menu or you can highlight Cancel and press the SELECT button to exit the menu.

**NOTE**: Default options can be set for the values of the Remind Options Panel Menu fields (see page 66).

- Set Manual reminder
- From the Service bar, use the CURSOR PAD ◀ or
   to highlight SCHEDULE, and then press the
   MENU button to access the Schedule Options
   Panel Menu.
- Use the CURSOR PAD ▲ or ▼ to highlight New Manual Reminder and then press the SELECT button to access the Remind Options Panel Menu.





- Use the CURSOR PAD ▲, ▼, ◄, ▶ to highlight and enter information in the panel menu fields ( Date, start/end time, channel, input, power on TV, auto tune TV, and frequency).
- Press the SELECT button to highlight SCHEDULE REMINDER, and then press the SELECT button again to exit the menu or you can highlight Cancel and press the SELECT button to exit the menu.
- NOTE: 1. When setting Manual Reminders, the Option Daily is available instead of Regularly.
  - 2. A specific Reminder icon appears on the tile.

### **Reminder Notification Banner**

Depending on your option settings, a notification banner will appear at the scheduled reminder time.

Press the SELECT button to hide the Reminder banner, or, if more than one reminder appears, use the CURSOR PAD ▲ or ▼ to highlight a program. Press the SELECT button to tune to the program.

If no choice is made within 3 minutes, the banner closes automatically.



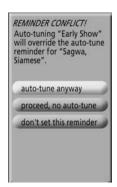
#### **Remind Conflict**

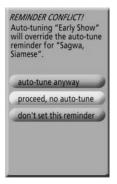
# A remind conflict message will appear if:

- A program set with an auto-tune reminder has the same start time as an existing auto-tune reminder.
- A program set with an auto-tune reminder overlaps with a scheduled recording.

# Select these options:

- Auto-Tune anyway The selected program will override an existing program set to auto-tune.
- Proceed, No Auto-Tune Set the program as a reminder but do not auto-tune.
- Don't set this reminder Cancels the reminder.





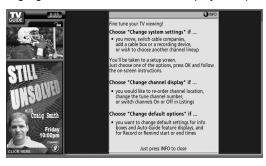


#### **SETUP:**

The SETUP Service screen allows you to modify settings that were entered at initial TV Guide On Screen system setup (see page 49). The 3 settings will be the following:

- · Change System settings
- Change channel display
- · Change default options

Press the INFO button while the SETUP Service is highlighted on the Service Bar to display a Help screen.



Use the CURSOR PAD ▼ to highlight a setting option, and then press the SELECT button to access each setting.

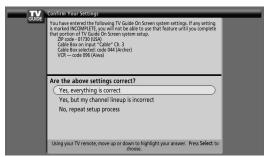


### **CHANGE SYSTEM SETTINGS:**

Use this option if you want to change something after completing initial TV Guide On Screen system setup.

From the SETUP screen, use the CURSOR PAD ▼
to highlight Change system settings, and then
press the SELECT button to reconfirm your
settings.





 Use the CURSOR PAD ▲ or ▼ to highlight your selected options, and then press the SELECT button. Follow the On Screen instructions.

### **CHANGE CHANNEL DISPLAY:**

Use this option to edit channel information that appears in the LISTINGS Service screen. The channel information that can be edited includes:

- Change the position order channels appear in the LISTINGS Service screen.
- Change the tune channel number.
- · Change a channel to one of the following settings:
  - ON (Channel is displayed in LISTINGS)
  - OFF (Channel is not displayed in LISTINGS)
  - AUTO-HIDE (Channel is displayed in LISTINGS only when program information is available
- Change the service type for the source:
  - Cable
  - Cable Box
  - Over-the-Air
  - Antenna
  - Etc.

From the SETUP Screen, Use the CURSOR PAD ▼
to highlight Change Channel Display, and then
press the SELECT button.



Highlight a channel row and press the SELECT button to access the Grid Options Panel Menu.



- Press the INFO button to view the On-Screen instructions.
- Use the CURSOR PAD ▲ or ▼ to highlight one of the options, and make any necessary changes, and then press the SELECT button.

**NOTE:** The Tune channel is the channel on which the TV receives a station depending on its type of cable, cable box or antenna service.

### **CHANGE DEFAULT OPTIONS:**

Use this option to change default settings:

- General Defaults
- Record Defaults
- Remind Defaults
- IR Defaults

### **GENERAL DEFAULT OPTIONS**

From the SETUP screen, use the CURSOR PAD ▲
 or ▼ to highlight Change Default Options and then
 press the SELECT button



 Use the CURSOR PAD ▲ or ▼ to highlight General Default Options, and then press the MENU button to access the General Default Options Panel Menu.



- 3. Enter your choices in the Panel Menu fields:
- BOX SIZE: The initial Info box size (No, Small, Large, and Last Used -default)
- BOX CYCLE: The Info Box size rotation when the INFO button is pressed. (No Only, Small Only, Large Only, No and Small, No and Large, Small and Large, and All –default).
- AUTO GUIDE: Automatic access into the TV Guide On Screen system when the TV is turned ON (Ondefault and Off).
- 4. Press the SELECT button to highlight Done, and then press the SELECT button again to exit the menu or use the CURSOR PAD ▲ or ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

#### **RECORD DEFAULTS**

- From the SETUP screen, use the CURSOR PAD ▲
  or ▼ to highlight Change Default Options and then
  press the SELECT button.
- Use the CURSOR PAD ▲ or ▼ to highlight Record defaults and then press the MENU button to access the Record Defaults Panel Menu.



- The following options woud not appear in the panel menu and should be deleted from the list and the screen "recorder choice", how long to keep a Record event, the quality of the recording.
- 4. Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

### **REMIND DEFAULTS**

- From the SETUP screen, use the CURSOR PAD ▲
  or ▼ to highlight Change Default Options and then
  press the SELECT button.
- Use the CURSOR PAD ▲ or ▼ to highlight Remind defaults and then press the MENU button to access the Remind Defaults Panel Menu.



- Enter the chosen information in the Panel Menu fields (Power On TV, auto-tune, when to display the Remind screen).
- Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

#### **IR DEFAULTS**

IR Defaults lets you modify the channel dialing defaults if your cable box and/or VCR is not changing channels properly.

- From the SETUP screen, use the CURSOR PAD ▼
  to highlight Change Default Options and then press
  the SELECT button.
- Use the CURSOR PAD ▲ or ▼ to highlight IR defaults and then press the MENU button to access the IR Defaults Panel Menu.



- Enter the chosen information in the Panel Menu fields.
  - Cable box if you have a cable box, indicates whether or not you want to modify the default channel dialing options.
    - Choices are Yes and No (default).
  - Dial mode select whether you must enter 2digit or 3-digit (default) channel numbers to change channels on your cable box.
  - Enter key indicate if you currently press the Enter key after you enter a channel number with your cable box remote.
    - Choices are Yes and No (default).
  - VCR if you have a VCR, indicates whether or not you want to modify the default channel dialing options.
    - Choices are Yes and No (default).
  - Dial mode select whether you must enter 2digit (default) or 3-digit channel numbers to change channels on your VCR.
  - Enter key indicate if you currently press the Enter key after you enter a channel number with your VCR remote.
     Choices are Yes and No (default).
- 4. Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

# **Channel Manager**

# Channel Manager

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

- Press CURSOR PAD ▲, ▼ or CHANNEL WHEEL 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.





# **Auto Channel Scan**

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

- Use the CURSOR PAD ▲ or ▼ or CHANNEL WHEEL to highlight CABLE or AIR.
- 2. Press the **CURSOR PAD** ◀ or ▶ to highlight the **START** or **RESET** option.
- Press the SELECT button to start AUTO CHANNEL SCAN.
- 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 ▶.





# **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.
- 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)
- Press the FAV button to set or remove the FAVORITE 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.

# Locks

# Locks

This function will block out the picture and sound of the selected channel or video input. It can also be used to keep the TV from being viewed for a scheduled time period that you set.

The code to enter the Locks feature is a four digit access code number. The factory preset code is **0000**. Use the **NUMBER** buttons to enter the access code.

- Use the CURSOR PAD ▲, ▼ or CHANNEL WHEEL to highlight the desired function in the LOCKS menu.
- 2. Press the **SELECT** button to select.

### **Change Access Code**

 To change the ACCESS CODE NUMBER, select CHANGE ACCESS CODE to change the factory preset code (0000) to your preference.

If you forget your **ACCESS CODE NUMBER**, use the factory code **7777** to erase your key number. This will reset the access code number back to the factory preset **(0000)**.

- 2. Enter a new four digit number.
- 3. Press **EXIT** to quit 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 Side 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 71).

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 72).

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 73-74).

NOTE: If any Movie/TV Ratings are locked, Surf Mode PIP will not be available.







# Locks

# **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
  to select the MOVIE RATING category that you want
  to block.
- 2. 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.
- Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.





# **Motion Picture Ratings Table**

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

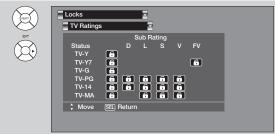
# Locks

# **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 to select the TV RATING category that you want to block.
- Press SELECT to block the TV RATING that you have selected.
- Press EXIT to quit the menu or select TV RATING to return to the previous menu.





**TV Parental Guide Ratings Table** 

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TV-Y	All children. The themes and elements in this program are specifically designed for a very
	young audience, including children from ages 2-6.
TV-Y7	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.
TV-G	General audience. It contains little or no violence, no strong language, and little or no
	sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language,
	limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense
	sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language,
	graphic violence, and explicit sexual content.
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	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.

# Locks

#### 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 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 Ratings 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 will
	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
	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.

# Locks

#### **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 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**

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 + 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.					
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.					
Programming is not suitable for children under the age of 16 - Contains frequent scenes of					
violence or intense violence.					
Programming restricted to adults - Contains constant violence or scenes of extreme					
violence.					

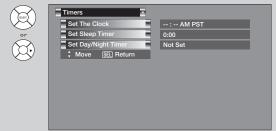
## **Timers**

# Timers

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

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



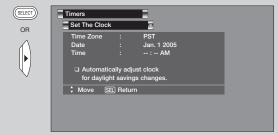


#### **Set The Clock**

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

- Use the CURSOR button ▼ to highlight the chosen TIME ZONE settings. Use CURSOR buttons ◀ or ► to set TIME ZONE and press SELECT to set.
- Press CURSOR button ▼ to select Date. Use CURSOR buttons ◀, ▶, ▲ or ▼ to set Month, Day and Year. Press SELECT to set.
- 3. Press CURSOR button ▼ to select Time. Use CURSOR buttons ◀, ▶, ▲ or ▼ to set Hour, Minute, AM or PM. Press SELECT to set.
- If you observe Daylight Saving Time, press CURSOR button ▼ to select DAYLIGHT SAVING CHANGE and press SELECT to set.





- 5. 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 ✓, the TV will automatically calculate the clock adjustment for Daylight Saving.
  - 2. When the CableCARD is used, the TV will SET THE CLOCK automatically.
  - 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.
  - 4. Time and Date is automatically set by the TV Guide On Screen system. These settings cannot be changed manually.

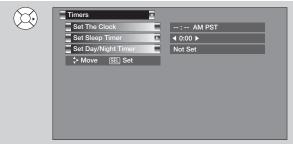
# **Timers**

#### **Set Sleep Timer**

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

 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.



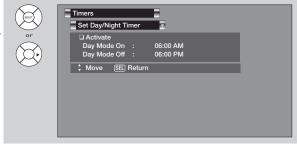


#### **Set Day/Night Timer**

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.

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





# Setup

Select SETUP when setting your TV up for the first time.

- Use the CURSOR PAD ▲, ▼, ◀ and ▶ to select the sub-menu of your choice.
- 2. Press the **SELECT** button to select.





#### **Menu Preference**

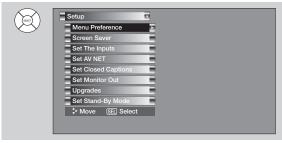
Setup the Language and background of the Menu OSD.

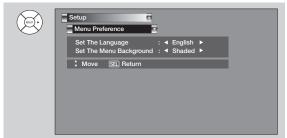
#### Set the Language

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

- 1. Use the **CURSOR PAD** ◀ or ▶ to select the language of your choice.
- 2. Press **EXIT** to quit menu or select **MENU PREFERENCE** 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 

  or 

  to select your choices.

#### Option 1

The whole picture will shift every 20 minutes by two pixels.

#### Option 2

The whole picture will shift every 40 minutes by two pixels.

#### Option 3

The whole picture will shift every 60 minutes by two pixels.

#### **Image Power**

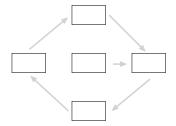
This function allows you to choose power consumption reduction based on 3 levels (min., medium and max).

#### 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.

#### **Screen Saver Picture's Movement**



#### **Automatic Power Saving**

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





#### **Set The Inputs**

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

- Press the CURSOR PAD ▲, ▼ to highlight the video inputs.
- Press the CURSOR PAD ◀, ▶ to select your choices.

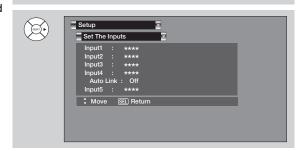
#### **INPUT 4 Auto Link**

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



Setup

Set The Inputs Set AV NET

#### 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**

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

- 1. Press the **MENU** button.
- 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.





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

Press the SELECT button to start the SETUP WIZARD.



- Use the CURSOR PAD ▲ or ▼ 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.



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



- 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).

 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 

  or 

  to select the TV 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.



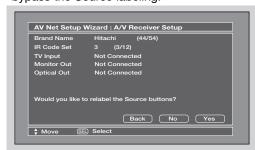
- 13. Use the CURSOR PAD 

  or 

  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.



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.



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



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



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 A/V NET SETUP.



# AV NET SETUP WIZARD ( Example: DVD Setup )

 Press the SELECT button to start the SETUP WIZARD.



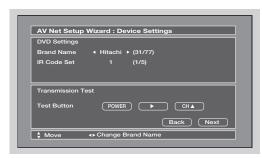
- 2. Use the CURSOR PAD ▲ or ▼ to highlight NO.
- Press the SELECT button to select. (Select NO to setup other devices).
- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight the device.
  (Example : DVD Setup ).
- 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.



- 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".
- 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.



- Use the CURSOR PAD 

  or 

  to select the TV 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.



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



16. 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 A/V 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)

 Press the SELECT button to start the SETUP WIZARD.



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



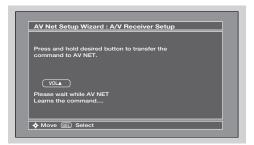
- Use the CURSOR PAD ◀ or ▶ to select "Other" from brand name choices.
- Use the CURSOR PAD ▲ or ▼ to highlight "Learning Mode" then press the SELECT button.



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



8. 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.



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



 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.



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



- 14. Use the CURSOR PAD ◀ or ▶ to select the TV 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.



- 16. Use the CURSOR PAD ◀ or ▶ 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.
- 17. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next step.



18. 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.



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



 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)

Press the SELECT button to start the SETUP WIZARD.



- Use the CURSOR PAD ▲ or ▼ to highlight NO.
- 3. 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 

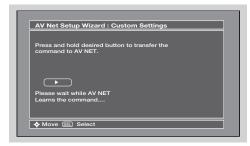
  to choose the device you wish to learn. (Example: DVD 3)
- 8. Select NEXT to continue.



- Select the DVD 3 softkey to learn. (Example: PLAY ▶ button).
- 10. Select NEXT to continue.



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.



 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 Test button ▶ "Play button" to check the response of the device to this command.
- 15. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



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



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



- 19. 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.



- **NOTE:** 1. After a successful A/V 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 Closed Caption**

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 ......

- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight and select the function to change.
- Press EXIT to quit menu or select SET CLOSED CAPTION to return to the previous menu.

#### **Caption Display:**

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

#### **Analog Captions:**

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

#### **Caption Mode:**

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 program.

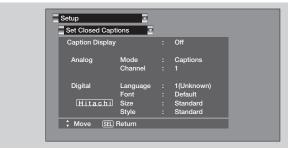
#### **Channel:**

- 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.

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



- 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. When PIP SURF is on, Closed Caption will not work.
  - 4. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
  - 5. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is displayed on screen.
  - 6. Digital Captions will not be available (grayed out) when using analog channels.





#### **Set Monitor Out**

This feature will select the source of the Monitor Output.

#### Monitor:

Select **MONITOR** to output the audio and video signals of the chosen input source **(CABLE, AIR, INPUT 1-5)** to a VCR or other A/V device.

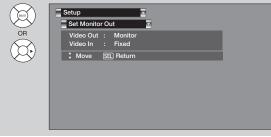
#### **TV Tuner Out:**

Select **TV TUNER OUT** to output the audio and video signals of the last watched Antenna Source **(CABLE, AIR).** 

#### **Fixed**

Select **AUDIO OUT FIXED** to have the Audio at fixed volume.

# Screen Saver Set The Inputs Set AV NET Set Closed Captions Set Monitor Out Upgrades Set Stand-by Mode The Move SE Select



#### **Variable**

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.

- 1. Use **CURSOR PAD** ▲ or ▼ to highlight the function to change
- 2. Use the **CURSOR PAD ◀** or ▶ to select the function.
- 3. Press **EXIT** to quit menu or select **SET MONITOR OUT** 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

	In	Monitor Out					
				S-Video	Video	L/R	HiFi
ANT	Digital	No Macrovision	S-Video	YES	YES	YES	YES
(Air or	Channel	Macrovision	S-Video	-	-	-	YES
Cable)	Anal	og Channel	Video	-	YES	YES	YES
Input 1	H	IDMI_1		-	-	-	YES
	S-\	/ideo_1		YES	YES	YES	YES
	V	ideo_1		-	YES	YES	YES
Input 2	Н	IDMI_2		-	-	-	YES
	S-\	/ideo_2		YES	YES	YES	YES
	V	ideo_2		-	YES	YES	YES
Input 3	Y-	-PbPr_3		-	-	-	YES
	V	ideo_3		-	YES	YES	YES
Input4	Y-	PbPr_4		-	-	-	YES
	V	ideo_4		-	YES	YES	YES
Input5	S-\	/ideo_5		YES	YES	YES	YES
	V	ideo_5	-	YES	YES	YES	

#### TV TUNER OUT: Available Monitor Out Signals

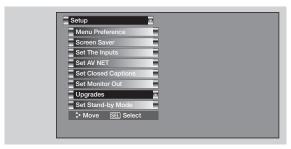
	In	put Mode	Monitor Out (TV Tuner Out)						
				S-Video	Video	L/R	HiFi		
ANT	Digital	No Macrovision	S-Video	YES	YES	YES	YES		
(Air or	Channel			ANT	ANT	ANT	ANT		
Cable)		Macrovision	S-Video	-	-	-	YES		
							ANT		
	Anal	og Channel	Video	-	YES	YES	YES		
					ANT	ANT	ANT		
Input 1	_	IDMI_1	Y-PbPr	YES	YES	YES	YES		
	S-'	Video_1		ANT	ANT	ANT	ANT		
	V	ideo_1		digital					
Input 2	-	IDMI_2	Y-PbPr	only					
	S-1	Video_2							
	V	ideo_2							
Input 3	Y	-PbPr_3							
	V	ideo_3							
Input4	Y-	-PbPr_4							
	V	ideo_4							
Input5	S-'	Video_5							
	V	ideo_5							

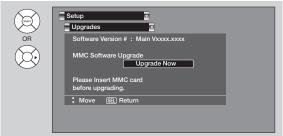
#### **Upgrades**

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
- 2. Press the CURSOR PAD ▲ or ▼ to highlight UPGRADE NOW.
- 3. Press the **SELECT** button to select and start upgrading.

**NOTE:** Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.



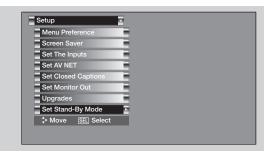


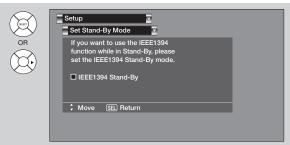
#### **Set Stand-By Mode**

This function sets the IEEE1394 in Stand-By Mode to ON or OFF. Certain digital devices have a power save feature, in which the device automatically powers 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.

Use CURSOR PAD ▲ or ▼ to highlight "IEEE1394 Stand-By" and press SELECT to set this option.

**NOTE:** 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.





#### **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.
- 2. Press the **CURSOR PAD** ▶ to to rotate the TV to the right.
- Press the CURSOR PAD 

  to to rotate the TV to the left.
- 4. Release the CURSOR PAD to stop rotation.





- **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

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

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.

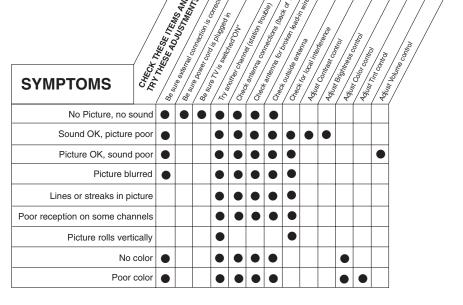
#### **TROUBLESHOOTING**

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.



## **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.



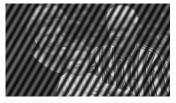
#### **GHOSTS:**

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.

**NOTE:** The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.

# **Troubleshooting**

### 1. Plasma Television Troubleshooting

No.	Items	Notes
1		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		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	temperature is too nign.	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		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	environment	High temperature affect the electric discharge/luminescence characteristic of the PDP panel. Do not place the plasma television in high temperature environments.
10		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		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 connection.

#### 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?

- Highlight the Setup Service in the Guide.
- 2) Use the down arrow to select Change System Settings.
- 3) 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:

- 1) Highlight the Setup Service in the Guide.
- Use the down arrow to select Change Channel Display or change system settings.
- 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 schedule 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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The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895; 6,418,556; 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

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## **Useful Info**

#### PLUG AND PLAY

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

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

#### **AGENCY REGULATORY INFORMATION**

#### **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.

#### **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 Home Electronics (America), Inc. may void the user's warranty.

#### **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.

# Features and Specifications

#### **Features:**

- New Easy-to-Use On-Screen Menu Control (3 Language)
- New AV Network System Control
   Control up to 4 components with one remote
   control 2 IR Mouse 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)
- DIGITAL TECHNOLOGY
- TV Guide On Screen™

#### Video:

- 1024 x 1024 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°
- 4 Color Temperature Presets: Black/White-5400K, Standard-6500K, Medium-9300K, High-12000K.
- Multiple Screen Fill Modes (4:3 Standard/Expanded/Zoom1/ Zoom2/16:9 Standard/Zoom)¹
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes (Day and Night)

#### Inputs:

•	Power Input	.AC 120V, 60Hz
•	Power Consumption	
	- Refer to rear panel at the back of the Monitor	e Plasma
•	Antenna input impedance	Ohm
•	Channel coverage	191ch.
	VHF-Band	2 ~ 13
	UHF-Band	14 ~ 69
	CATV Mid Band	A-5 ~ A-1
	Super Band	
	Hyper Band	
	Ultra Band	
•	Video	.0Vp-p, 75 Ohm
•	S-Video	
	Luminance (Y)1	
	Chrominance (C) 0.2	86Vp-p, 75 Ohm
•	Component Video	
	Luminance (Y) 1	.0Vp-p, 75 Ohm
	Chrominance (PB/PR)	).7Vp-p, 75 Ohm
•	Audio input Impedance	270k Ohm
•	Average input level	470mVrms
•	HDMI	

#### **Outputs:**

- Video1.0Vp-p. 75 Ohm
- Optical Out (Digital Audio) . . . . . . 1 Optical Connector

#### **Audio:**

- MTS Stereo/SAP
- TruBass
- 40W
- Soft Mute (50%)

#### **Supplied Accessories:**

- Remote Control
- Batteries
- 6' AC Cable
- Table Top Stand (only in 42" models)
- IR Mouse Cable (2)
- Cleaning Cloth
- Power Swivel Cable (only in 42" models)
- Ferrite Core (2)

#### **Optional Accessories:**

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

#### INPUTS/OUTPUTS

•Wideband Component Y, Pb,Pr       2         •Composite Video       3         •S-Video       3         •Antenna (RF) Inputs       2         •Audio Output       1         •Monitor Output       1         •Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1         •IEEE 1394/DV Inputs       2	
•S-Video       3         •Antenna (RF) Inputs       2         •Audio Output       1         •Monitor Output       1         •Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Wideband Component Y, Pb,Pr2
•Antenna (RF) Inputs       2         •Audio Output       1         •Monitor Output       1         •Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Composite Video
•Audio Output       1         •Monitor Output       1         •Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•S-Video
•Monitor Output       1         •Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Antenna (RF) Inputs2
•Optical Output       1         •IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Audio Output
•IR Blaster       2         •G-LINK       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Monitor Output
•G-LINK.       1         •CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	Optical Output
•CableCARD Slot       1         •Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	•IR Blaster2
•Upgrade Card Slot       1         •Swivel Output       1         •Subwoofer Output       1         •HDMI       2         •Photo Input       1	
•Swivel Output	•CableCARD Slot
•Subwoofer Output       1         •HDMI       2         •Photo Input       1	•Upgrade Card Slot
•HDMI	•Swivel Output
•Photo Input	•Subwoofer Output
	•HDMI
•IEEE 1394/DV Inputs2	•Photo Input
	•IEEE 1394/DV Inputs

## **SPECIFICATIONS**

•Pixel Pitch 0.90(horiz.) x	0.51(vert.) mm. (42")
0.90(horiz.) x	0.90(vert.) mm. (55")
•FCC class:	B for Consumer Use
•Power Requirements:	108-132V, 60Hz

<sup>&</sup>lt;sup>1</sup> Screen mode availability varies by input format

HDTV Monitors display HDTV when combined with an HDTV Tuner and Source.

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.

UltraVision Digital is a registered trademark of Hitachi Home Electronics (America), Inc.

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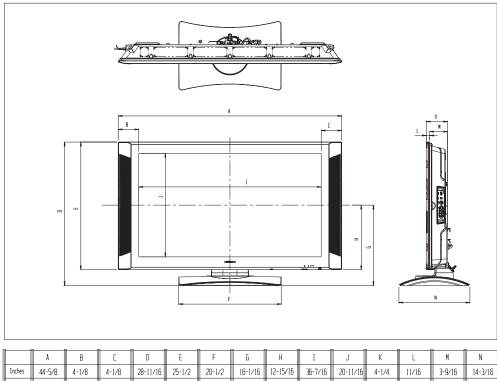
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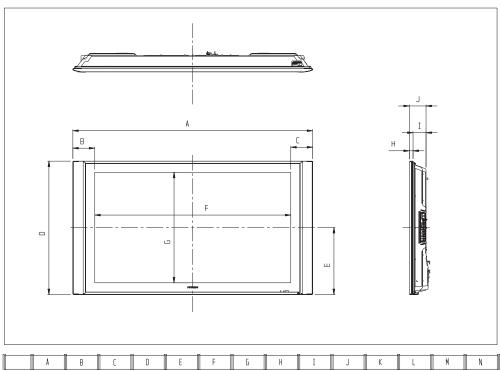
# **Set Dimensions**

## 42 Inch Models (Includes Table Top Stand) Weight (lbs./kg): 98/44.5



	A	В	С	D	E	F	G	Н	I	J	K	L	М	N
Inches	44-5/8	4-1/8	4-1/8	28-11/16	25-1/2	20-1/2	16-1/16	12-15/16	36-7/16	20-11/16	4-1/4	11/16	3-9/16	14-3/16
nn	1134	104	104	728.2	648	520	408.2	328	926	525	107.5	17	90.5	360

#### 55 Inch Models (Plasma Television Only) Weight (lbs./kg): 135.6/61.5



	A	В	С	D	E	F	G	Н	I	J	K	L	М	Ŋ
Inches	59 7/16	5 7/16	5 7/16	33 1/16	16 5/8	48 3/16	27 3/8	7/8	3 2/8	4 1/8				
nn	1510	138	138	840	422	1234	696	23	82	105				

# HITACHI Inspire the Next

# **Service Hotline**

To locate an authorized **HITACHI** service facility in the continental U.S.A. and Canada,

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

1-800-HITACHI

(1-800-448-2244)



#### HITACHI AMERICA, LTD. HOME ELECTRONICS DIVISION

HITACHI has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of HITACHI Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service hotline operator will direct you to the HITACHI Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating quide.

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

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

#### 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.

Pour de plus amples renseignements sur le service durant la période couverte par la garantie, sur le fonctionnement ou pour de l'assistance technique communiquez avec:

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

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

La version français de votre manual se trouve a l'exterieur de la boîte. Si le manuel est manquant, coposez le **1-800-HITACHI (1-800-448-2244)** pour obenir votre copie.

HITACHI CANADA, LTD. 2495 Meadowpine Blvd. Mississauga, Ontario L5N 6C3

# **End User License Agreement for HITACHI DTV Software**

#### END USER LICENSE AGREEMENT FOR HITACHI DTV SOFTWARE

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- LICENSE GRANT. HITACHI grants to you, for the life of the DTV, a non-exclusive, non-transferable, revocable license to install and use one copy of the Software on the DTV, subject to the following limitations and restrictions:
  - You may not share, duplicate, republish or redistribute the Software;
  - You may not resell, rent, lease, sublicense, gift, loan, assign or otherwise transfer the Software or any of your rights under this Agreement;
  - c. You may not modify, adapt, translate, reverse engineer, decompile, disassemble or make derivative works from the Software or use the Software in combination with any non-Hitachi software; and
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# **Appendixes**

#### Appendix A:

#### **IMAGE INPUT**

INPUT	TYPE	FORMAT	ASPECT	VIDEO ID	AUTO ASPECT
Air or Cable		NTSC	4:3		On/Off
(Analog Channels)					
INPUT 1 & 2	HDMI	480i/480p	16:9	16:9	Off
			Letter	Letter	Off
			4:3	4:3	Off
				No Info.	On/Off
INPUT 1-5	S-Video1	NTSC	16:9	16:9	Off
	Video		Letter	Letter	Off
			4:3	4:3	Off
				No Info.	On/Off
INPUT 3 & 4	Y-P <sub>b</sub> P <sub>r</sub>	480i/480p	16:9	16:9	Off
			Letter	Letter	Off
			4:3	4:3	Off
				No Info.	On/Off

<sup>&</sup>lt;sup>1</sup>S-Video = Not available in INPUT 3 & 4

#### Appendix B:

#### **IMAGE INPUT**

INPUT	TYPE	FORMAT	ASPECT	VIDEO ID	AUTO ASPECT
Air or Cable		1080i	4:3		On/Off
(Digital Channels)					
INPUT 1 & 2	HDMI	480i/480p	Letter	Letter	On
			4:3	4:3	On
INPUT 1-5	S-Video <sup>2</sup>	NTSC	Letter	Letter	On
	Video		4:3	4:3	On
INPUT 3 & 4	Y-P <sub>b</sub> P <sub>r</sub>	480i/480p	Letter	Letter	On
			4:3	4:3	On

<sup>&</sup>lt;sup>2</sup>S-Video = Not available in INPUT 3 & 4

#### Appendix C:

#### **IMAGE INPUT**

INPUT	TYPE	FORMAT	ASPECT	VIDEO ID	AUTO ASPECT
INPUT 1 & 2	HDMI	480i/480p	16:9	16:9	On
INPUT 1-5	S-Video <sup>3</sup>	NTSC	16:9	16:9	On
	Video				
INPUT 3 & 4	Y-P <sub>b</sub> P <sub>r</sub>	480i/480p	16:9	16:9	On

<sup>&</sup>lt;sup>3</sup>S-Video = Not available in INPUT 3 & 4

#### Appendix D:

#### **IMAGE INPUT**

IMAGE IN OT						
INPUT	TYPE	FORMAT	ASPECT	VIDEO ID	AUTO ASPECT	
Air or Cable		1080i	16:9		On/Off	
(Digital Channels)						
INPUT 1 & 2	HDMI	1080i/720p	16:9		On/Off	
INPUT 3 & 4	Y-P <sub>b</sub> P <sub>r</sub>	1080i/720p	16:9		On/Off	

## **Appendixes**

#### Appendix E

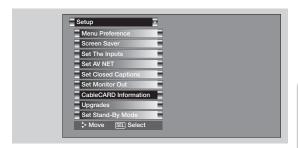
After the CableCARD has been successfully installed, a CableCARD Information menu appears in the **SETUP** menu of the On-Screen Display.

Follow the instructions below to access the CableCARD Information menu.

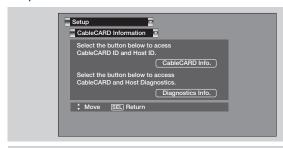
 Press the MENU button on the Remote Control to access the Main Menu screen.

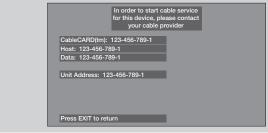


- Use the CURSOR PAD ▼ to highlight SETUP in the Main Menu and press the SELECT button.
- 3. Use the CURSOR PAD ▼ to highlight CableCARD Information and press the SELECT button.



 To view the CableCARD ID and Host ID, use the CURSOR PAD ▼ to highlight CableCARD Info and press the SELECT button.





# THINGS TO CHECK WHEN USING THE CableCARD / CableCARD Services

- Check that the CableCARD is properly inserted in the CableCARD slot.
- Remove the CableCARD by pressing the eject button and pull the CableCARD straight out.
- Visually inspect the CableCARD to ensure all pinholes are in good condition, with none blocked or damaged.
- Make sure the CableCARD is re-inserted in the correct direction, then slowly push until it is fully seated in the slot.
- 5. 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.
- If problems still remain, please contact your Cable Service Provider.

#### NOTES:

- 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 seconds to detect and recognize the presence of the CableCARD. This process must be completed before any CableCARD information or Channel listings is accessed.

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

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