

PLASMA TELEVISION AVC (Audio Video Control Center) & Plasma Display Monitor

Operating Guide for 42HDT51, 55HDT51

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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. Plasma television consists of AVC center and display monitor.

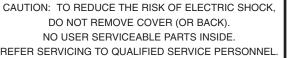


CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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 persons.





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.

WARNING:

•TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PLASMA TELEVISION 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.

NOTE:

- There are no user serviceable parts inside the AVC center/display monitor.
- Model and serial numbers are indicated on back side of the AVC center/display monitor.

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 authority to operate the Plasma 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.

POWER SOURCE

THIS PLASMA TELEVISION IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE AVC CENTER AND DISPLAY MONITOR POWER CORD INTO A 120 VOLT 60Hz 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 AVC CENTER/DISPLAY MONITOR TO 50Hz, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

NOTE:

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



CAUTION: Never remove the back cover of the AVC center/display monitor 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.

IMPORTANT SAFETY INSTRUCTIONS



Read before operating equipment

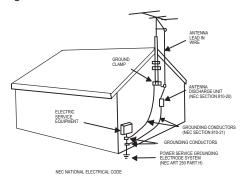
Follow all warnings and instructions marked on this television.

- 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.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding 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.
- 10. 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.

- 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.
- Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- 17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge 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 820-40 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.

This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact you local government agency or the Electronic Industries Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). For more information, call "1-800-HITACHI."

Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.

PREVENTION OF SCREEN BURN

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 television receivers. Such "SCREEN BURNS" constitute misuse and are **NOT COVERED** by your HITACHI Factory Warranty.

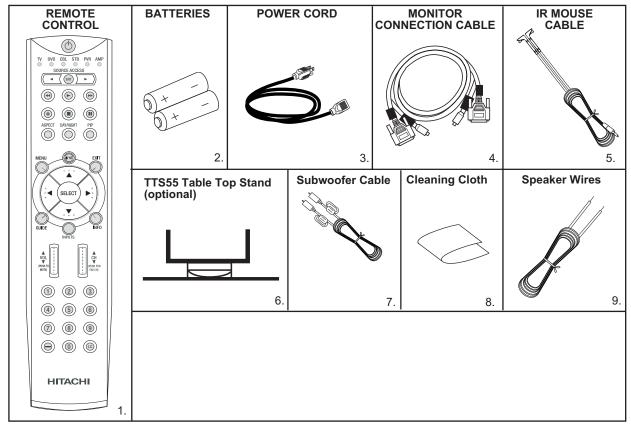
PUBLIC VIEWING OF COPYRIGHTED MATERIAL

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 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.
- 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.



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





- **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 TTS55 stand for use only with Hitachi 55HDT51. 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-3841WL (P# HL02061) or CLU-3843WL (P# HL02063).
- 2. Two "AA" size, 1.5V batteries (P# FQ00021).

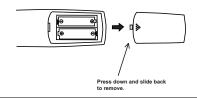
3.	Power Cord:	42"	55"
	Plasma Monitor	EV01841	EV01841
	AVC	EV01841	EV01841

- Monitor Connection Cable (P# EW07883).
- 5. Two IR Mouse cables (P# EY01641).

- 6. 55" Table Top Stand (TTS55) (P# QJ01441K) (Optional).
- 7. Sub Woofer Cable (P# VZ11701).
- 8. Cleaning Cloth (P# MS00931).
- 9. Speaker wires (for monitor speakers).

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

- Open the battery cover of the remote control by pushing the notched part of the cover with your fingers and pulling the cover off.
- Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
- 3. Match the batteries to the (+) and (-) marks in the battery compartment.
- 4. Replace the cover.



 \triangle

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace with the same or equivalent type.

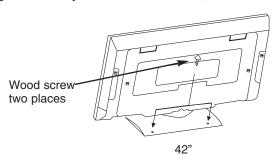
HOW TO SETUP YOUR NEW HITACHI PLASMA TELEVISION

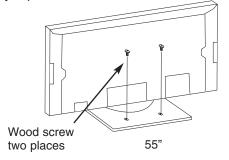


To take measures to prevent the Plasma Display from tipping over and prevent possible injury it is important to mount the unit in a stable place.

Securing to a table-top

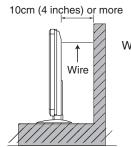
- 1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma Display stand as shown below.
- 2. Using commercially available wood screws, secure the set firmly in position.

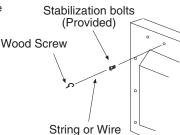


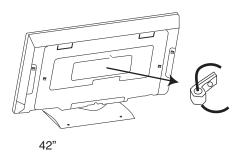


Securing to a wall

- Keep the Plasma Display monitor four inches away from the wall except those hung to the wall mount bracket.
- 2. Secure the monitor to the wall as shown below.





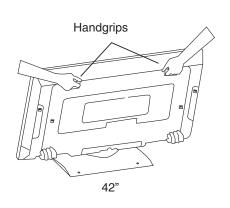


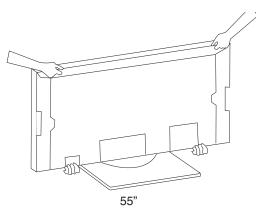
NOTES:

- Do not block the ventilation holes of the Plasma Display monitor or the AVC center. Blocking the ventilation holes might cause fire or defect.
- The plasma television has two AC cords, one on the AVC center and the other on the Plasma Display monitor. In case of an abnormal symptom, unplug both AC cords.
- 3. If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.

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 two handgrips at the back for the 42", and at the top and base on both sides of the 55" for stability. When moving the Display Monitor, lift the handles 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.

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.



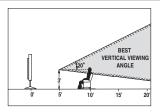
HOW TO SET UP YOUR NEW HITACHI PLASMA TELEVISION

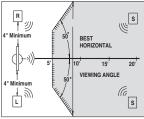
VIEWING

The major benefit of the HITACHI Plasma Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing. The best picture is seen by sitting directly in front of the TV and about 8 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.





IMPORTANT NOTES

No.	Items	Notes
1	Arching sound from plasma display monitor's panel.	A buzzing sound might be heard when the plasma display monitor is turned on in a very quiet room. This is due to the plasma panel drive circuit when it is functioning. This arching sound is normal and it is not a malfunction.
2	Interference for infrared equipment.	Some infrared rays are emitted from the plasma display monitor's panel that might affect other infrared controlling equipment.
3	Bright and dark spots	High-precision technology is used to manufacture the plasma display panel; But in some cases, there are minor defects in some parts of the screen. Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc. Some pixels will always be on or always off. Please note that this is not a malfunction.
4	Picture Image (Spectrum)	When receving still picture signals, (e.g. channel number indication or clock indication) for a while, you can see image-like when the picture varied. This is not a defect.
5	Display panel surface temperature is too high	The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction. The Plasma TV surface temperature is higher than a Cathode-ray-tube.
6	Plasma Surface	The plasma panel is made from glass. Heavy shock on the front panel might damage it.
7	Transportation	When the PDP monitor is transported horizontally, the glass panel has the possibility of being broken or increasing the picture defects. At the time of transportation, horizontal style is prohibited. More-over, please treat the plasma panel with great care because of a precision apparatus. Please instruct transporters so that it should be put into the packing box at the time of shipment.(There is a possibility that breakage of the panel or defects will increase.) Rough transportation might cause damage to the panel and pixel failure.
8	Image retention	The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images. For 55" only, brightness will decrease automatically during still and slightly moving pictures. This is not a failure. This is a special feature to avoid image retention. Tips to prevent such image retention are: - Do not display images having sharp brightness differences or hi-contrast images, such as monochrome characters and graphic patterns, for long. - Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function. - Turn down the contrast and brightness controls.
9	Luminosity and contrast	PDP television has luminosity and low contrast compared with CRT television.
10	Granular spots	When a screen is seen at point-blank range, a random fine grain may be visible to a dark part.
11	Disturbance to video apparatus	If an apparatus (VCR, etc.) antenna line is arranged near the monitor, the image may shake, or disturbance may be received.
12	Lip Sync	There is some time lag betweeen the picture and the sound. You can see lip motion that is delayed compared to the sound.
13	About the use environment of PDP television (temperature)	Electric discharge/luminescence characteristic of the PDP panel also changes with peripheral temperature. Moreover, since there is also high power consumption value, a specified temperature environment is required.
14	Caution on prolonged storage	Storing the plasma television for a period of more than 2 to 3 months without use might cause an unstable picture when the set is turned on.
15	Operating	Operating altitude: 800 to 1,114hPa (6,194ft to -2,484ft). Operating temperature: 41°F to 95°F.
16	Storage	Storage Altitude: 300 to 1,114hPa (31,912ft to -2,484ft). Storage temperature: 5°F to 140°F.
17	Power ON or OFF	Frequent use of the Power ON or OFF might trigger the power protection circuit. If the TV does not turn ON, please wait a little before turning ON again.

HOOKUP CABLES



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 Connector

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 rear jack panel and front control panel.



Stereo Cable (3.5 mm plug to 3.5 mm plug)

This cable is used to connect from external audio out to the audio input of the AVC Center (ex. RGB Input).



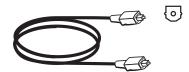
IR Mouse Cable (Provided)

Connect the IR Mouse to the IR output on your AVC center 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 to control your cable box and VCR.



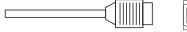
Subwoofer Cable (Provided)

This cable is used to connect an external audio component input to the subwoofer output of the Display Monitor.



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.



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



"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) Connector

This connector is used on camcorders, VCRs and laserdisc players with an S-Video feature in place of the standard video cable to produce a high quality picture.



D-SUB MINI 15-Pin Cable

This cable is used to connect a computer output to the D-SUB input located on the rear panel of the AVC Center. The resolution should be set correctly to display the signal on the Plasma Television.



Monitor Connection Cable (Provided)

This cable is used to connect the Display Monitor to the AVC Center.



D-SUB MINI 9-Pin Cable

This cable is used to connect to the RS232C input located on the rear panel so you can control some of your TV functions from an external home control system.



USB Cable

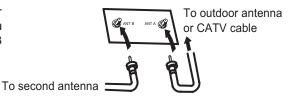
This cable is used to connect your digital camera to the Photo Input in the front of the AVC.



ANTENNA CONNECTIONS TO REAR PANEL JACKS

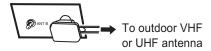
VHF (75-Ohm) antenna/CATV (Cable TV)

When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna, connect the coaxial cable to the ANT B terminal.



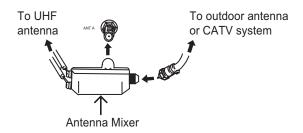
VHF (300-Ohm) antenna/UHF antenna

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.



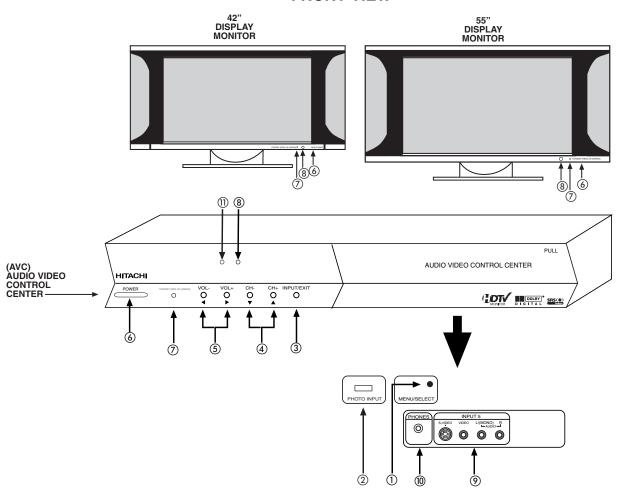
When both VHF and UHF antennas are connected

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.





FRONT VIEW



(1) 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.

(2) PHOTO INPUT

Insert USB cable from your Digital Camera to view your digital still pictures (see pages 33-35).

(3) INPUT/EXIT button

Press this button to select the desired input, VIDEO 1 to 5, RGB, IEEE 1394, Photo Input or Ant A/B source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

(4) 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 (\P) and up (\blacktriangle) buttons when in MENU mode.

(5) VOLUME level

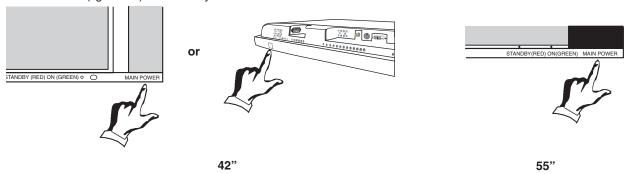
Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.



(6) 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.



AVC POWER button

The AVC power can be turned ON/OFF manually or by remote control. Turning on the AVC Power will only turn on the AVC box if the "MAIN POWER" of the display monitor is off.

7 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 PDP is now ready for remote on/off operation.

Indicating Lamp	Power Status	Operating
Off	Off	When the main power switch is set
		OFF.
Lights Red	Off	When the main power switch on the display
	(Stand-by)	monitor is ON, and the AVC Center is OFF.
Lights Green	On	Display monitor MAIN POWER is ON and
		AVC Center power is ON.
Lights Orange	Off	Display monitor MAIN POWER is ON and
(Flashing)	(Power Saving)	and AVC Center power is ON, with no signal
		input except antenna (no sync. signal).

(8) REMOTE CONTROL sensor

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

9 FRONT 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. VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

(10) PHONES JACK

Use this jack for your head-phones. The TV's internal speakers can also be heard. Turn off the internal speakers (see page 57) if you wish to listen to the head-phones only.

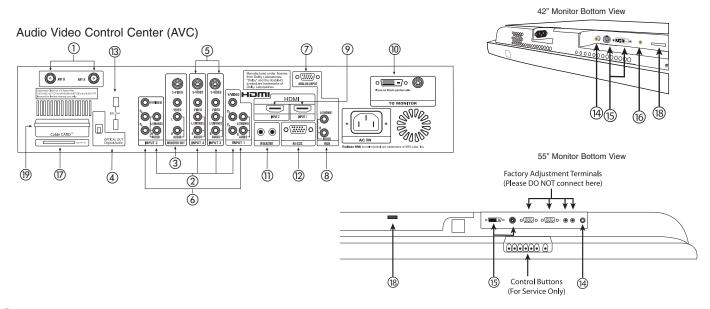
(11) LEARNING AV NET Sensor

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

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, 5, or RGB is selected. 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.





1 Antenna Input

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture (ANT B cannot be displayed as a sub-picture).

(2) Audio/Video Inputs 1, 2, 3 and 4

By using the INPUTS button, the CURSOR PAD, and the SELECT button of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

(3) MONITOR OUT

These jacks provide fixed audio and video signals (ANT A/B, INPUT 1~5) which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to Input 1 and 2, RGB 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.

(5) S-VIDEO Inputs 3 and 4

Inputs 3 and 4 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

- 1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 3 and 4, but only one of these inputs may be used at a time.
- 2. S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.

(6) Component: Y-P_BP_R Inputs

Inputs 1 and 2 provide $Y-P_BP_R$ jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for INPUTS 1 and 2.

NOTES:

- 1. DO NOT connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-Video has a higher 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 AVC Box's P_B input and the components R-Y output to the AVC Box's P_R input.
- 3. Your component outputs may be labeled Y- C_BC_R . In this case, connect the component C_B output to the AVC Box's P_B input and the component C_B output to the AVC Box's P_B input.
- 4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PRPR inputs (See page 53).
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_BP_R jacks, RGB and HDMI inputs.



(7) RGB - Analog Input

Use this 15-pin D-Sub input for your external devices with RGB output (see page 25).

8 RGB - Audio Input

Connect audio for RGB input (if you have mono sound, insert the audio cable into the left audio jack).

(9) HDMI - Digital Input (INPUT 1 and INPUT 2)

About HDMI

HDMI is the next-generation all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multi-channel 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

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

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

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

(10) To Monitor

Connect the Monitor Connection Cable to the AVC center's "TO MONITOR" connector, and to the display monitor's "FROM AVC" connector.

(11) IR Blaster

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.

(12) RS232C Input

For use with third party home Audio/Video control systems which are commercially available. Please see your dealer regarding these "non Hitachi" home control systems (see page 76 to activate this input).

(13) IEEE1394

These jacks provide a digital interface for your external digital devices, such as a Digital VCR (D-VHS or Set-Top-Box) by means of a single cable (see page 20). 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.

(14) Subwoofer Out

Connect this SUB WOOFER OUT output to the external audio component input using the sub woofer cable provided.



Sub-woofer cable (RCA Type)

(15) **To AVC**

Connect the Monitor Connection cable from the AVC center's "TO MONITOR" to these connectors ("FROM AVC").

(16) SUB-POWER button

This power is for serviceman usage.

(I/) 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.

(18) To Power Swivel Connector

Connects to the Power Swivel Table Top Stand.

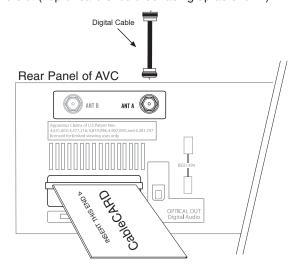
For model 55HDT51, the stand (TTS55) is optional (see page 4).



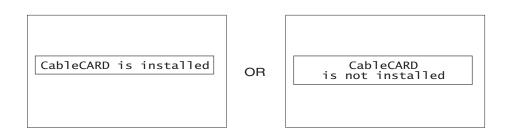
(19) CableCARD Slot

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

Connect a coaxial cable to ANT A terminal of the Rear Panel Jacks. Insert the CableCARD into the slot (Top of card should be facing up as shown).



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.



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.

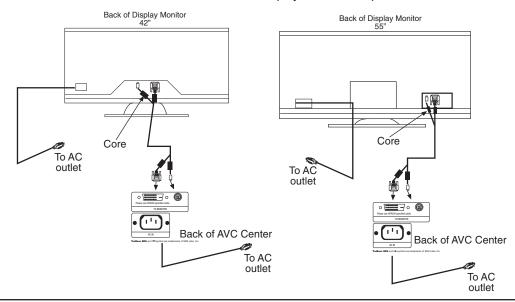
NOTES: 1. A digital cable subscription is required.

- 2. Antenna B will not be available when CableCARD is inserted.
- 3. Do not insert a PCMCIA card into the CableCARD slot.
- 4. Please see pages 63-64 and 76 for additional CableCARD information.



CONNECTING PLASMA DISPLAY MONITOR TO AVC BOX

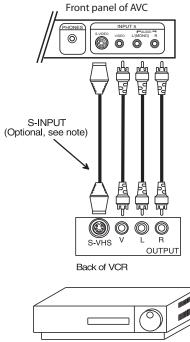
- From the owner's accessory you will find the Monitor Connector cable.
- 2. Firmly, and securely insert the Monitor Connection Cable to the rear panel of the AVC box "TO MONITOR" connectors.
- Insert the other ends of the Monitor Connection Cable to the display monitor rear panel "FROM AVC" connectors.

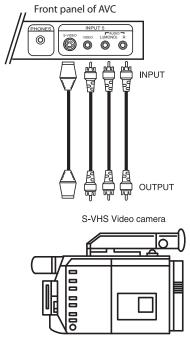


NOTE: The Display Monitor and the AVC Center have their own AC Power. Both AC cords must be completely plugged in to the AVC Center and the display monitor, then plug them in to the AC outlets.

CONNECTING EXTERNAL VIDEO SOURCES

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:





- Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture
 may be abnormal.
- 2. If you have a S-VHS VCR, use the S-INPUT 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 AVC box.
- 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.

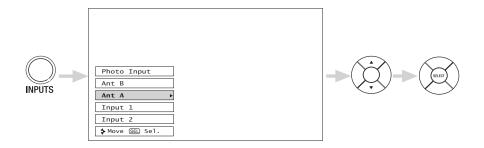


The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your Plasma TV is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

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.

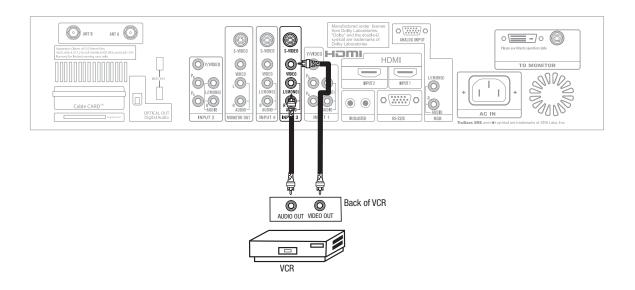
Before Operating External Video Source

Connect an external source to one of the INPUT terminals, then press the INPUTS button to show the INPUTS menu. Use the CURSOR PAD to select the Antenna or Input of your choice. Then press the SELECT button to confirm your choice (see page 33).



CONNECTING A MONAURAL AUDIO SOURCE TO INPUT1~INPUT5

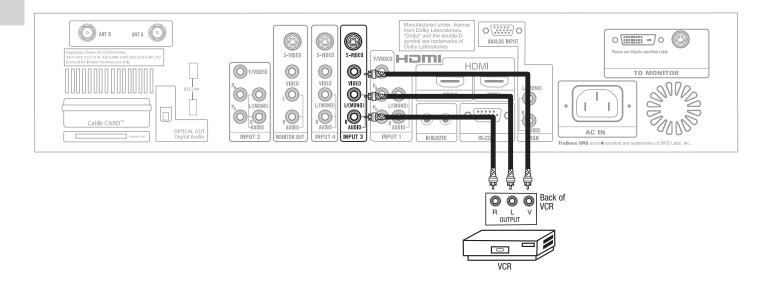
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the AVC Center below.
- 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- Press the INPUTS button, then select INPUT 3 from the INPUTS menu to view the program from the VCR or the laserdisc player.
 The VIDEO label disappears automatically after approximately four seconds.
- 4. Select Ant A or B from the INPUTS menu to return to the previous channel.





CONNECTING A STEREO VCR OR STEREO LASERDISC PLAYER

- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the AVC Center below.
- 2. 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 3 from the INPUTS menu to view the program from the VCR or laserdisc player. The VIDEO label disappears automatically after approximately four seconds.
- 5. Select ANT A or B from the INPUTS menu to return to the previous channel.

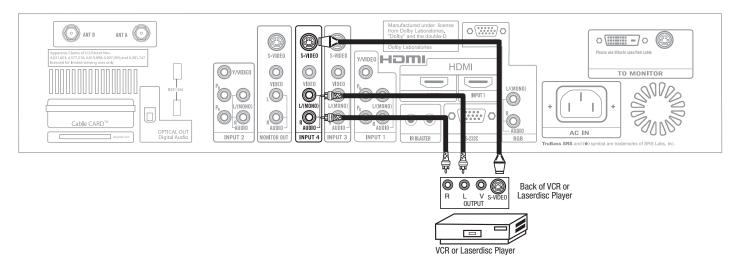


- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 4 in example on page 25). Refer to your VCR operating guide for more information on line input-output connections.



CONNECTING S-VIDEO VCR OR LASERDISC PLAYER

- 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 AVC Center below.
- 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUTS button, then select INPUT 4 from the INPUTS menu to view the program from the VCR or laserdisc player. The VIDEO label disappears automatically after approximately four seconds.
- 5. Select ANT A or B from the INPUTS menu to return to the previous channel.



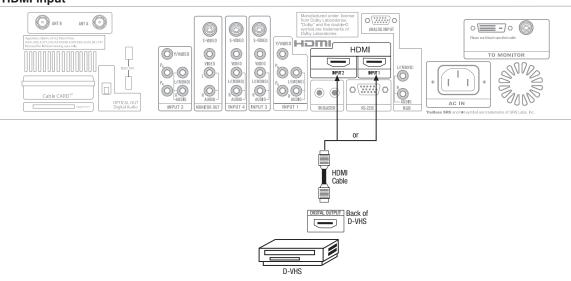
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 4 in example on page 25). Refer to your VCR operating guide for more information on line input-output connections.



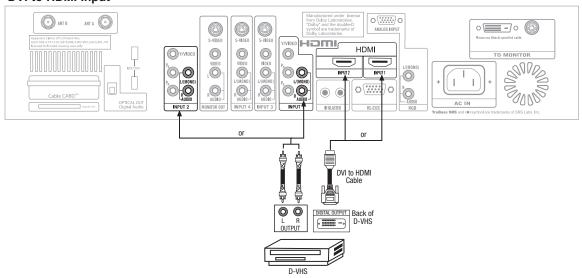
CONNECTING A COMPONENT SOURCE WITH HDMI or DVI CAPABILITY TO INPUT 1 or INPUT 2

- Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI
 input as shown on the AVC Center below.
- 2. With DVI output, connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack.
- 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.
- 4. Press the INPUTS button, then select INPUTS 1 or 2 to view the program from the HDTV set top box or DVD player. The VIDEO OSD label disappears automatically after approximately four seconds.
- 5. Select ANT A or B from the INPUTS menu to return to the previous channel.

HDMI input



DVI to HDMI Input

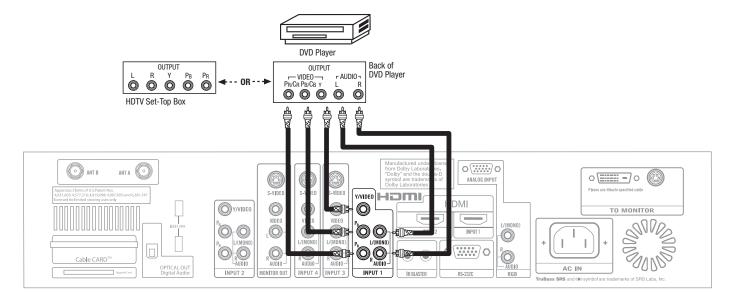


- Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is
 played back will be abnormal if the connection is loose.
- The HDMI input on INPUT 1 or 2 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP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



CONNECTING A STEREO LASERDISC/DVD PLAYER OR HDTV SET TOP BOX TO INPUT 1 OR 2 COMPONENT: Y-PRPR.

- 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 AVC Center below.
- 2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
- 3. Connect the cable from the C_R/P_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.
- 5. 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 1 or 2 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO label disappears automatically after approximately four seconds.
- 7. Select ANT A or B to return to the previous channel.

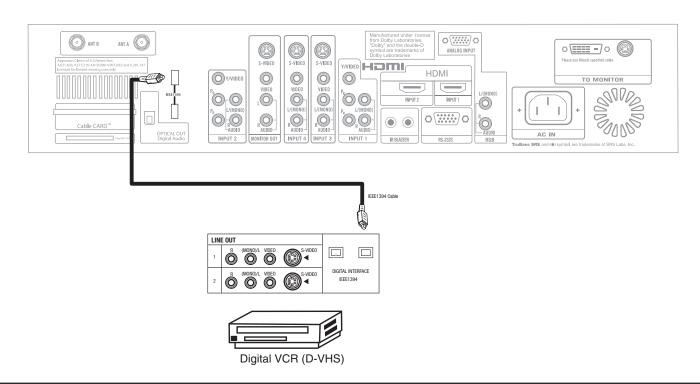


- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. See page 26 for tips on REAR PANEL CONNECTIONS.



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 Set-Top-Box or Digital VCR, to the IEEE1394 input terminals shown on the AVC Center 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 36).



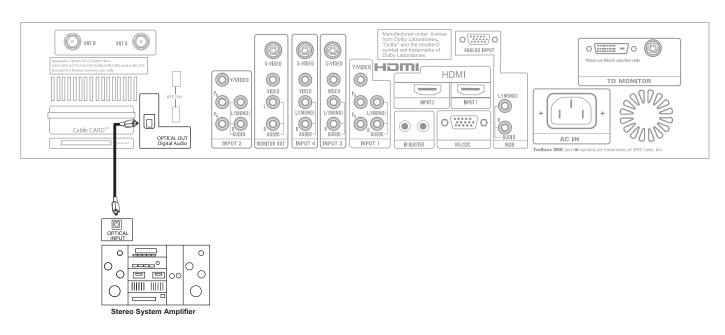
- To quickly enter IEEE1394 menu, press the AV NET button on the remote control and then select the IEEE1394 device.
- 2. This Plasma TV's IEEE1394 connection is not compatible with a DV camcorder (Digital Video camcorder) and a PC.
- 3. With IEEE1394 connection, video and audio will be received by the TV. It will enable you to control the D-VHS from the TV IEEE1394 menu (see page 36).
- 4. The IEEE1394 interface contains the copy protection standard called 5C or Digital Transmission Content Protection (DTCP).
- 5. See page 26 for tips on Rear Panel Connections.

CONNECTING EXTERNAL AUDIO/VIDEO DEVICES

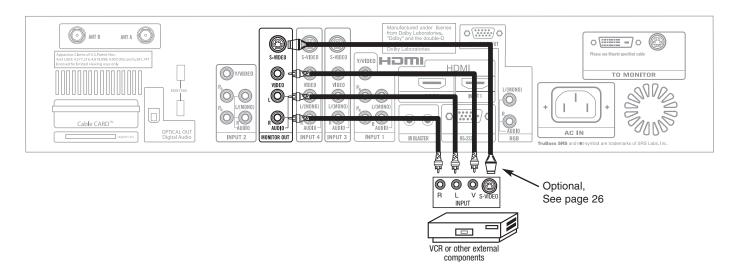


CONNECTING EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the Plasma TV to an external audio amplifier, connect the system as shown below. The "OPTICAL OUT" from the AVC center 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.



The MONITOR OUT terminal outputs video and audio of ANT A/B and INPUTS 1, 2, 3, 4 and 5. It does not output component video, HDMI or RGB.



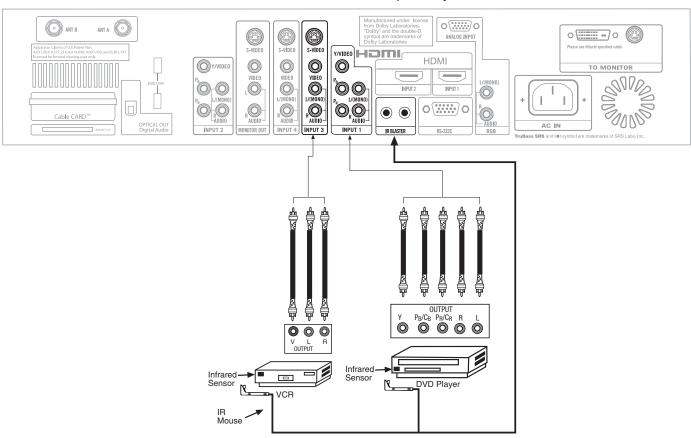


Your Hitachi Plasma Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your Hitachi Plasma TV Remote Control. You can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

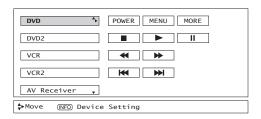
The Plasma Television AVC Center has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Network setup between your Hitachi Plasma Television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

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

- Connect your external Audio/Video components to the AVC Center shown on pages 15~21.
- Connect the IR Mouse cable to the IR BLASTER output of the AVC Center.
- 3. Place the IR mouse in front of the infrared sensor of the external components you wish to control.



4. Press the AV NET button on the remote control. Use CURSOR PAD ▲ or ▼ to select and highlight the Device Setup

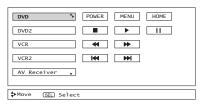


- 1. The AVC Center has two IR BLASTER outputs which can control up to a total of four external components.
- 2. The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work.
- The correct codes must be entered for each of the Audio/Video components for the AV Network to function properly.
- 4. Audio/Video component codes for AV network are on page 24.



5. Follow the steps below to setup your AV network (See page 24 for AV Network Codes).

SETUP PROCEDURE (DVD setup example below).



1. Press the A/V Net button on the remote control.



- 1. Use CURSOR PAD ▲, ▼ to select Device Setup.
- 2. Press the SELECT button on the remote control.



- Use the CURSOR PAD ▲, ▼ to choose DVD and press the SELECT button on the remote control.
- Cursor down to SETUP and press the SELECT button on the remote control. LIST: Select to view the list of devices that are setup.



- Using the remote, enter the four digit Device Code for your equipment, found on page 24.
- Using the CURSOR PAD, set the Video and Audio Inputs to the INPUT to which your device is connected.
- Perform a Transmission Test by selecting Power, Play, or CH UP softkeys. If the device responds, then it is properly set up. Select OK. (If the Transmission Test failed, try another code.)
- 1. If "OK" was selected, and the 4 digit code was invalid, the screen on the left appears, then goes back to the device entry screen.



1. Select CONTINUE to setup another device.

2. Select DONE to finish and the following screen appears.



Device	Code	Video	Audio
DVD	0490	INPUT 2	Using TV
DVD2		Not Setup	Not Setup
VCR		Not Setup	Not Setup
VCR2		Not Setup	Not Setup
AVR		Not Setup	Not Setup
PVR		Not Setup	Not Setup
CBL		Not Setup	Not Setup
STB		Not Setup	Not Setup
Custom		Not Setup	Not Setup

Select EXIT to quit.

See Remote Control AV NET button usage on pages 31 and 32.



AUDIO/VIDEO CODES FOR AV NETWORK (not for remote control)

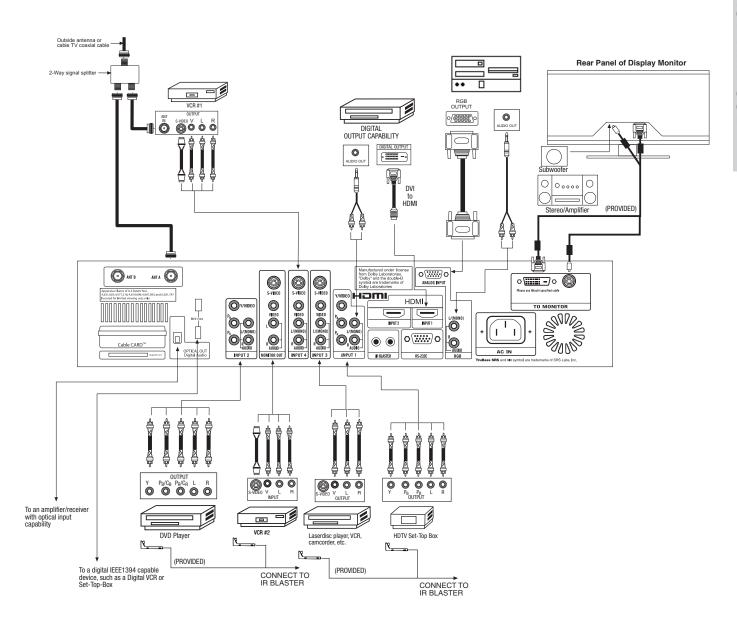
VCR BRAND						CODE
Admiral					0048	020
Adventura						.000
Aiko						027
Aiwa					0000,	003
Akai						004
America Action						027
American High						003
Asha						024
Audiovox					0037,	027
Beaumark						024
Bell & Howell Broksonic						010
Broksonic			0121,	0184,	0002,	0209
				0479,	1479,	027
CCE					0072.	027
Calix						003
Canon						003
Carver						008
Cineral						027
Citizen				0278	0037.	127
Colt						007
Craig			0037	0072.	0047.	024
Curtis Mathes	. 0035.	0041.	0060	0162.	0760.	103
Cybernex						024
Cybernex				0278.	1278.	004
Denon						004
Dynatech						000
Electrohome						003
Electrophonic						003
Emerex						003
Emerex				0184,	0002,	0209
			0121,	, 0000,	0037,	004
Fisher					0104,	004
Fuji					. 0033,	003
Funai0035						0000
GE 0035	, 0060,	0240,	0760	0807,	1035,	106
Garrard						0000
Go Video						043
GoldStar				0037,	0038,	123
Gradiente						000
HI-Q						004
Harley Davidson .						000
Harman/Kardon					0038,	008
Harwood						007
Hitachi				. 0000,	0041,	004
Hughes Network S	System	S				004
JVC					0067,	004
Jensen						004
KEC					0037,	027
KLH						007
Kenwood				0041,	0067,	003
Kodak					0035,	003
LXI						003
Lloyd's						000
Logik						007
MĒI						003
MGA						
					. 0043,	024
MGN Technology					0043,	024
MGN Technology MTC					0000	024
MGN Technology MTC					0000	024
MGN Technology MTC					0000	024
MGN Technology MTC		 		0035,	0000,	0240 0240 1270 0563
MGN Technology MTC			0000	0035,	0000, 0081, 0149,	024 024 127 0563 178
MGN Technology MTC			0000,	0035,	0000, 0081, 0149,	0240 0240 1270 0563 178 0240 0038
MGN Technology MTC			0000,	0035,	0000, 0081, 0149,	0240 0240 1270 0563 178 0240 0038
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita			0000	0035, 0039,	0000, 0081, 0149, 0081,	0240 0240 1270 0563 178 0240 0030 045
MGN Technology MTC Magnasonic. Magnavox Magnin Marantz Marta. Matsushita Memorex			0000,	0035, 0039, 0035, 0035,	0000, 0081, 0149, 0081, 0162, 0104,	0240 0240 1270 0563 178 0240 0030 0450 0209
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex		. 0454,	0000,	0035, 0039, 0035, 0035, 0037, 0039,	0000, 0081, 0149, 0081, 0162, 0104, 0240,	0244 0244 0563 178 0244 0033 045 0209 0000
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex		0454,	0000,	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237,	0240 1270 0563 178 0240 0030 0450 0209 0000 1260
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237,	0244 0244 0563 178 0244 0033 045- 0209 0000 1262
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237,	0240 0240 0563 178 0240 0033 045- 0209 0000 1263 0043
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta. Matsushita Memorex Minolta Mitsubishi Motorola		0454,	0000, 0047, 0048, , 1037	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035,	0244 0244 0563 178 0244 0033 045- 0209 0000 1263 0044 006 0044
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035,	0244 0244 1276 0563 178 0244 003 045 0209 0000 1266 0046 0046 0046
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC		0454,		0035, 0039, 0035, 0037, 0039, 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067,	0244 0244 1276 0563 178 0244 003 045- 0209 0000 1266 0044 0075 010-
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000,	0244 0244 1276 0563 178 0244 0033 045- 0000 1266 0044 0072 0104 0072
MGN Technology MTC Magnasonic. Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex.		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, ,1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067,	0244 0244 1276 0563 178 0244 0033 045- 0209 0000 1266 0044 0077 0104 003 024
MGN Technology MTC Magnasonic. Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex.		0454,	0000, 0047, 0048, 1037	0035, 0039, 0035, 0037, 0039, ,1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067,	0244 0244 1276 0563 178 0244 0033 045- 0209 0000 1266 0044 0077 0104 003 024
MGN Technology MTC Magnasonic. Magnin Magnin Marantz. Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex. Olympus Optimus		0454,	00000, 00047, 00048, 1037	0035, 0039, 0035, 0037, 0039, 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067,	0244 0244 1276 0563 178 0244 0033 0456 0045 0066 0044 0077 0106 003 0244 003
MGN Technology MTC Magnasonic. Magnin Magnin Marantz. Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex. Olympus Optimus		0454,	00000, 00047, 00048, 1037	0035, 0039, 0035, 0037, 0039, 1162,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067,	0244 0244 1276 0563 178 0244 0033 0456 0045 0066 0044 0077 0106 003 0244 003
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta. Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion	. 0104,	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037	0035, 0039, 0035, 0037, 0039, , 1162,	0000, 0000, 0081, 0149, 0081, 0162, 00104, 00240, 1237, 0043, 0035, 0000, 00067, 1162, 0479,	0244 0244 1276 0563 178 0244 0033 0456 0209 0006 0044 006 0070 000 0000 0000 0000 0
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic	. 0104	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037	0035, 0039, 0035, 0037, 0039, , 1162, 0041,	0000, 0000, 0149, 0081, 0162, 00104, 0240, 1237, 0043, 0000, 0067, 1162, 0479, 0025,	0244 0244 1277 0563 178 0244 0033 045- 0000 0000 1266 0044 0077 010- 003 0244 003 0045- 1477 0454
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta. Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic	. 0104	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037 0038, 1062, 0454 0209, 1062, 0616	0035, 0039, 0039, 0037, 0039, 1162, 0041, 00162, 1048, 0002, 1035,	00000, 0081, 0149, 0081, 0081, 0162, 0104, 0240, 1237, 0043, 00043, 00067, 1162, 0479, 00225, 1162,	0244 0244 1277 0563 178 0244 0033 0045 0040 0060 0044 0077 0100 003 0244 003 0045 0100 0100 0100 0100 0100 0100 0100
MGN Technology MTC Magnasonic. Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion. Panasonic Penney.	. 0104,	0454, 0479, 0432, 0184,	0000, 00047, 00048, 10062, 0454 0209, 1062, 0616 00035,	0035, 0037, 0039, 1162, 0041, 0041, 1048, 0002, 1035, 0035,	00000, 0081, 0149, 0162, 0104, 0240, 0037, 1162, 0479, 00225, 1162, 00240,	0244 0244 1276 0563 178 0244 0033 045- 0006 0045 0046 0077 0106 003 0048 1266 1479 00454 0145 0145 0145 0145 0145 0145 014
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Optimus Orion Panasonic Penney.	. 0104	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037 0038, 00454 0209, 1062, 0616 0035,	0035, 0039, 0037, 0039, 1162, 0041, 0062, 1038, 0037, 0038,	00000, 0081, 0149, 0162, 0104, 0240, 0035, 0000, 0067, 1162, 0479, 0225, 1162, 0240, 1035,	0244 0244 1276 0563 178 00244 0033 0456 00042 0064 0076 0076 0076 0076 0076 0076 0076
MGN Technology MTC Magnasonic Magnin Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic Penney. Pentax	. 0104,	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037 0038, 1062, 0454, 0454, 06160, 0035,	0035, 0035, 0037, 1162, 1041, 0041, 1035,	0000, 0081, 0149, 0162, 0104, 0035, 0003, 1162, 0043, 0035, 0000, 0067, 1162, 0240, 1035,	0244 0244 1276 0563 1788 0244 0033 045- 0209 00000 0046 0044 0077 0104 0033 0048 1263 1264 1264 1264 1264 1264 1264 1264 1264
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Penney. Pentax Philco	. 0104,	0454, 0479, 0432, 0184,	0000, 00047, 00048, 1037 0038, 0454, 0209, 0616 0035,	0035, 0039, 0037, 0037, 0041, 0041, 1048, 0002, 1035, 0037, 0038,	0000, 0081, 0149, 0162, 00104, 0240, 1237, 0003, 1162, 0479, 0025, 1162, 0240, 1035,	0244 0244 1276 0563 0244 0033 045- 0064 0064 0076 0076 0044 1266 0042 1479 0454 1266 0042 1479 0454 0042 1479 0044 0044 0044 0044 0044 0044 0044 0
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta. Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic Penney. Pentax Philico Philips	. 0104	0454, 0479, 0432, 0184,		0035, 0039, 0035, 0037, 0038, 0035, 0036, 0037, 0038, 0036,	0000, 0081, 0149, 0162, 0081, 0162, 0081, 0162, 0081, 0043, 0043, 0043, 0043, 0043, 1162, 0479, 0225, 1162, 0240, 1035,	0244 0244 1276 0563 178 0244 003 045 0045 006 0044 007 010 003 0244 1266 0042 123 0047 123
MGN Technology MTC Magnasonic. Magnarox Magnin Magnin Marantz Marta Matsushita Memorex Minolta Misubishi Motorola Multitech NEC Nikko Olympus Optimus Orion. Penney. Penney. Pentax Philico Philips Pilot	. 0104	0454, 0479, 0432, 0184,	0000, 00047, 00048, 1037 0038, 1062, 0454, 1062, 0454, 0035,	0035, 0039, 0037, 0039, 1162, 1048, 0041, 0002, 0002, 0035, 1035, 0037, 0038,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 1162, 0225, 1162, 0240, 1035,	0244 0244 1276 0563 178 0244 0033 045- 0209 0000 1266 0044 0077 0100 003 0048 1267 127 0045 128 0042 123 0043 0047 124 104 104 104 104 104 104 104 104 104 10
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Marta Matsushita Memorex Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Optimus Orion Panasonic Penney Pentax Philco Philips Pilote Piloteer	.0104	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037 0038, 1062, 0454 0209, 0616 0035,	0035, 0039, 0037, 0031, 0041, 0041, 0002, 1035, 0035, 0037, 0038,	0000, 0081, 0149, 0081, 0162, 00104, 0240, 1237, 00035, 0000, 0067, 1162, 0479, 0240, 1035, 1162, 0240, 1035, 1162, 0240, 1035, 1035, 1043, 1043, 1043, 1043, 1043, 1043, 1043, 1043, 1044,	0244 0244 1276 0563 178 0244 0033 003 045- 0060 0061 0072 0010- 003 0044 0073 0044 1262 0042 123 0044 0047 1263 0041 1263 0041 1263 0041 1263 0041 1263 0041 1263 0041 1263 0041 1263 0041 1263 1263 1263 1263 1263 1263 1263 126
MGN Technology MTC Magnasonic. Magnasonic. Magnin Marantz. Marta. Matsushita Memorex Minolta Mitsubishi. Motorola Multitech NEC Nikko. Noblex. Olympus Optimus Orion. Panasonic Penney. Pentax. Philico Philips Piliot Poneer Poolk Audio	. 0104,	0454, 0479, 0432, 0184,	0000, 00047, 0048, 1037 0038, 0454 0616 0035,	0035, 0039, 0035, 0037, 0039, 1162, 1038, 0041, 1038, 0002, 0035, 1035, 0037, 0038, 0035, 0618, 0035,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0035, 1162, 00479, 0025, 1162, 00240, 1035,	0244 0244 0244 0033 045 0006 0040 007 0106 0044 007 0106 0044 1266 0042 1267 1204 1204 1204 1204 1204 1204 1206 1206 1206 1206 1206 1206 1206 1206
MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polik Audio	. 0104,	0454, 0479, 0432, 0184,	00000, 00047, 00048, 10062, 0454 0209, 10626, 0035,	0035, 0039, 0035, 0037, 0039, 1162, 0041, 0002, 1048, 0002, 1035, 0037, 0038, 0035, 0618,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 0035, 0000, 0067, 1162, 0479, 015, 0240, 1035, 0240, 1035,	0244 1270 0563 178 0244 0033 045- 0209 0000 004 006 0042 007 007 004 126 123 0042 123 0042 123 0042 123 0045 126 127 128 128 128 128 128 128 128 128 128 128
MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philips Pilot Pioneer Polk Audio Profitronic Proscan	. 0104	0454, 0479, 0432, 0184,	00000, 00047, 00048, 10062, 0454, 0209, 1062, 0616, 0035,	0035, 0039, 0035, 0037, 0039, 1162, 0041, 0041, 0035, 0035, 0618,	0000, 0081, 0149, 0081, 0162, 0104, 0240, 1237, 0043, 0005, 0000, 0047, 1162, 0240, 1035, 0229, 1081, 0760, 0760,	0244 0244 1270 0563 178 0244 0033 045- 0209 0000 006 0044 0072 010 003 0048 1262 123 0044 1263 0042 123 0044 1263 0049 1263 1263 127 128 128 128 128 128 128 128 128 128 128
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan	.0104,	0454, 0479, 0432, 0184,	00000, 0047, 00048, 1037 0038, 1062, 0454, 0209, 0616 0035,	0035, 0039, 0037, 0037, 0039, 1162, 1048, 0002, 0035, 1035, 0037, 0038,	0000, 0081, 0162, 0104, 0240, 0035, 0003, 1162, 0479, 0225, 1162, 02040, 1035,	0244 127 0563 178 0244 003 003 045 0049 006 004 007 010 003 0048 126 0042 123 0045 126 0045 0045 0045 0045 0045 0045 0045 004
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan	.0104,	0454, 0479, 0432, 0184,	00000, 0047, 00048, 1037 0038, 1062, 0454, 0209, 0616 0035,	0035, 0039, 0037, 0037, 0039, 1162, 1048, 0002, 0035, 1035, 0037, 0038,	0000, 0081, 0162, 0104, 0240, 0035, 0003, 1162, 0479, 0225, 1162, 02040, 1035,	0244 127 0563 178 0244 003 003 045 0049 006 004 007 010 003 0048 126 0042 123 0045 126 0045 0045 0045 0045 0045 0045 0045 004
MGN Technology MTC Magnasonic. Magnasonic. Magnin Magnin Marantz. Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion. Penney. Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar	. 0104	0454, 0479, 0432, 0184,	00000, 00047, 1037 0038, 1062, 0454 0209, 1062, 0616 0035,	0035, 0039, 0035, 0037, 0039, 1162, 1048, 0002, 1035, 0035, 1035, 0037, 0036, 0036, 0036, 00454, 00454	0000, 0081, 0149, 0081, 0162, 01040, 1237, 0043, 0000, 0007, 1162, 0240, 1162, 1	0244 0244 1277 0563 178 0033 003 0045 0040 0060 0044 0072 0100 0044 0033 0048 1266 0042 1263 0042 1263 0044 1266 0044 1266 1267 1267 1267 1267 1267 1267 1267
MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA	.0104,	0454, 0479, 0432, 0184,	00000, 00047, 00454, 1062, 0454, 0209, 1062, 0616, 0035,	0035, 0039, 0037, 1041, 0041, 00162, 1048, 0002, 0035, 0037, 0038, 0035, 0618,	0000, 0081, 0162, 0104, 0240, 1237, 0037, 0037, 1162, 0043, 0043, 0040, 0240, 1035, 0760, 0760, 0760, 0042,	0244 1277 0563 178 0033 0033 0455 00209 0000 1266 0044 0077 010- 003 0048 1267 118 0049 0049 0049 0049 0049 0049 0049 004
MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA	.0104,	0454, 0479, 0432, 0184,	00000, 00047, 00454, 1062, 0454, 0209, 1062, 0616, 0035,	0035, 0039, 0037, 1041, 0041, 00162, 1048, 0002, 0035, 0037, 0038, 0035, 0618,	0000, 0081, 0162, 0104, 0240, 1237, 0037, 0037, 1162, 0043, 0043, 0040, 0240, 1035, 0760, 0760, 0760, 0042,	0244 1277 0563 178 0033 0033 0455 00209 0000 1266 0044 0077 010- 003 0048 1267 118 0049 0049 0049 0049 0049 0049 0049 004
MGN Technology MTC Magnasonic. Magnasonic. Magnin Magnin Marantz. Marta. Matsushita Memorex Minolta Mitsubishi. Motorola Multitech NEC Nikko Optimus Orion. Penney. Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack	0104,	0454, 0479, 0432, 0184,	00000, 00047, 00048, 1037 0038, 1062, 0454 0209, 0616 0035, 0035	0035, 0039, 0037, 0039, 1162, 1048, 0002, 0035, 0037, 0038, 0060, 0060,	0000, 0081, 0162, 0162, 0104, 0240, 1237, 0043, 0035, 0000, 0067, 1162, 0240, 1035, 0226, 0240, 1035, 0040,	0244 1276 0563 178
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philipo Pioneer Polik Audio Profitronic Profiscan Profec Pulsar Quasar RCA Radio Shack Radios	.0104,	0454, 0479. 0432, 0184, 0081,	00000, 00047, 00048, 1037 0038, 1062, 0454, 0209, 1062, 0616 0035, 0035,	0035, 0039, 0035, 0041, 0041, 0041, 0041, 0061,	0000, 0081, 0162, 0162, 01949, 0240, 1237, 0043, 0035, 0000, 00479, 00240, 1162, 0049, 1035, 00240, 1162, 1162, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 0040, 1035, 0040, 0040, 1035, 0040,	0244 1277 0563 178 0244 0033 0045 0047 006 007 006 0047 003 0047 010 0042 0042 1263 1263 1263 1263 1263 1263 1263 126
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philipo Pioneer Polik Audio Profitronic Profiscan Profec Pulsar Quasar RCA Radio Shack Radios	.0104,	0454, 0479. 0432, 0184, 0081,	00000, 00047, 00048, 1037 0038, 1062, 0454, 0209, 1062, 0616 0035, 0035,	0035, 0039, 0035, 0041, 0041, 0041, 0041, 0061,	0000, 0081, 0162, 0162, 01949, 0240, 1237, 0043, 0035, 0000, 00479, 00240, 1162, 0049, 1035, 00240, 1162, 1162, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 1035, 0040, 0040, 1035, 0040, 0040, 1035, 0040,	0244 1277 0563 178 0244 0033 0045 0047 006 007 006 0047 003 0047 010 0042 0042 1263 1263 1263 1263 1263 1263 1263 126
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic	.0104.	0454, 0479, 0432, 0184, 0081,	00000, 00047, 00048, 1037 0038, 1062, 0454, 0616 00035, 0162 0035,		0000, 0081, 0149, 0162, 00104, 0240, 0067, 1162, 029, 1162, 0240, 021, 1035, 0067, 1035, 00760, 0076	02441 1277 05663 1778 0244 0033 0042 0044 0077 0100 003 0044 0077 0100 003 0044 0077 1178 003 0045 0047 1166 008 0077 0100 003 0044 0077 1178 005 005 005 005 005 005 005 005 005 00
MGN Technology MTC Magnasonic. Magnasonic. Magnin Magnin Marantz. Marta. Matsushita Memorex Minolta Mitsubishi. Motorola Multitech NEC Nikko. Noblex. Olympus Optimus Orion. Panasonic Penney. Pentax. Philco Philips Pilot Pioneer Polk Audio Proftronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix. Radio Shack Radix. Realistic ResplayTV	. 0104,	0454, 0479, 0432, 0184, 0081,	00000, 00047, 00048, 1037 0038, 10622, 0454 0209, 1062, 0616 0035, 0035	0035, 0039, 0037, 0039, 1162, 0041, 0041, 1048, 0035, 0037, 0038, 0036, 0618	00000, 00081, 00149, 00161, 00104, 0240, 00035, 00000, 0067, 1162, 02479, 0225, 1162, 0240, 1035, 00000, 0000, 00000, 00000, 00000, 00000, 0001,	0244 0033 0045 1066 103 003 00146 1066 103 003 0016 1066 1066 1066 1066
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic ReplayTV Runco	0104.	0454, 0479, 0432, 0184, 0081,	0000, 00047, 0048, 1037 0038, 1062, 0454 0209, 1062, 0616 0035,	0035, 0039, 0037, 0039, 1162, 1048, 0002, 1035, 0037, 0038, 0037, 0038, 0037, 0036, 0041,	0000, 0081, 0149, 0162, 0104, 0240, 0067, 1162, 0240, 1035, 0225, 1162, 0240, 1035, 00760, 0760, 0760, 0760, 0000, 0000, 0000, 0614,	0244 0230 0240 0240 0240 0240 0240 0240
MGN Technology MTC Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philico Philips Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic ReplayTV Runco STS	. 0104,	0454, 0479, 0432, 0184, 0081,		0035, 0039, 0037, 0039, 1162, 1048, 0041, 0041, 0060,	0000, 0081, 0149, 0162, 0104, 0240, 0000, 0007, 1162, 0047, 0025, 1162, 0240, 1035, 0040, 0061, 0000, 0000, 0000, 0014, 0000, 0000, 0000, 0014, 0000, 0000, 0001,	02441 023 003 003 003 003 003 000 000 000 000
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philico Philips Pillot Pioneer Polik Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic ReplayTV Runco STS Samsung Sanky	. 0104,	0454, 0479, 0432, 0184, 0081,	00047, 00047, 1037 0038, 1062, 0454 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162,	0035, 0039, 0037, 0039, 1162, 1048, 0002, 0037, 0039, 1162, 1048, 0002, 0035, 1035, 0618, 0060, 0760, 0760, 0760, 0047,	0000, 0081, 0149, 0162, 0104, 0240, 0007, 1162, 0043, 0040, 00479, 00240, 1035, 0040,	02441 02241 1270 0563 0100 0100 0100 0100 0100 0100 0100 01
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philico Philips Pillot Pioneer Polik Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic ReplayTV Runco STS Samsung Sanky	. 0104,	0454, 0479, 0432, 0184, 0081,	00047, 00047, 1037 0038, 1062, 0454 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162,	0035, 0039, 0037, 0039, 1162, 1048, 0002, 0037, 0039, 1162, 1048, 0002, 0035, 1035, 0618, 0060, 0760, 0760, 0760, 0047,	0000, 0081, 0149, 0162, 0104, 0240, 0007, 1162, 0043, 0040, 00479, 00240, 1035, 0040,	02441 02241 1270 0563 0100 0100 0100 0100 0100 0100 0100 01
MGN Technology MTC Magnasonic Magnasonic Magnin Magnin Marantz Marta Marta Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Olympus Optimus Orion Panasonic Penney. Pentax Philico Philips Pillot Pioneer Polik Audio Profitronic Proscan Protec Pulsar Quasar RCA Radio Shack Radix Randex Realistic ReplayTV Runco STS Samsung Sanky	. 0104,	0454, 0479, 0432, 0184, 0081,	00047, 00047, 1037 0038, 1062, 0454 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162, 00162,	0035, 0039, 0037, 0039, 1162, 1048, 0002, 0037, 0039, 1162, 1048, 0002, 0035, 1035, 0618, 0060, 0760, 0760, 0760, 0047,	0000, 0081, 0149, 0162, 0104, 0240, 0007, 1162, 0043, 0040, 00479, 00240, 1035, 0040,	02441 02241 1270 0563 0100 0100 0100 0100 0100 0100 0100 01
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GoldStar				0144
Hamlin				0009, 0273
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Motorola		υ4 <i>7</i> 6,	1106,	02/6, 0810
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Philips				0305. 0317
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NAD						しょうし
NEC						0235
Nakamichi					0097.	0347
NEC		0100	0135	0380	0842	1298
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Zenith						0857
AUDIO BRAND					0	0857
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AUDIO BRAND Aiwa AudioSource Cambridge Sounde	works				(0857 0404 0351 0351 0351
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AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate	works				(0857 0404 0351 0351 0351 0052 0259
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Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL	works				(0857 0404 0351 0351 0351 0052 0259 0477 0477
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounch Carver Fisher Fosgate Harmon/Kardon JBL JVC	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Mikko	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Mikko	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon. JBL JVC KLH Magnavox Nikko Paramount Picture	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376 0351
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sound: Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376 0351 0056
Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376 0351 0056 0317
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sound Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui	works				(0857 0404 0351 0351 0052 0259 0477 0477 0073 0351 0325 0376 0351 0056 0317 0056
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider	works				(0857 0404 0351 0351 0351 0052 0259 0477 0477 0073 0351 0356 0376 0351 0056 0317 0325
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sound Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider Sony	works				0010,	0857 CODE 0404 0351 0351 0351 0052 0259 0477 0073 0351 0325 0376 0317 0025 0317 0025
Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sound Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider Sony	works				0010,	0857 CODE 0404 0351 0351 0351 0052 0259 0477 0073 0351 0325 0376 0317 0025 0317 0025
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Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sounde Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider Sony Soundesign Yorx	works				(0010,	0857 CODE 0404 0351 0351 0351 0052 0259 0477 0073 0351 0325 0376 0351 0356 0376 0376 0376
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Zenith AUDIO BRAND Aiwa Audio Source Cambridge Sounde Carver Fosgate Harmon/Kardon JBL JVC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider Sony Soundesign Yorx SET TOP BOX BR Panasonic Pioneer Princeton Samsung Sensory Science Sharp Sony PERSONAL VIDE	works s s s o o o reco	CORDE	ER BR	AND	0010,	0857 CODE 0404 0351 0351 0352 0259 0477 0477 0473 0351 0356 0376 0376 0376 0376 0376 0376 0376 037
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Zenith AUDIO BRAND Aiwa AudioSource Cambridge Sound Carver Fisher Fosgate Harmon/Kardon JBL JVC KLH JWC KLH Magnavox Nikko Paramount Picture RCA SSI Sansui Schneider Sony Soundesign Yorx SET TOP BOX BF Panasonic Pinneer Princeton Samsung Sensory Science Sharp Sony PERSONAL VIDE: Echostar Hughes Panasonic Philips Penasonic Philips Proscan Penasonic Philips Proscan	works s	CORDE	ER BR	AND	0010, 0010, 00113, 00113, 0014, 0614, 0614, 0639,	0857 CODE 04074 0351 0351 0351 0351 0352 0259 0477 0073 0351 0356 0376 0376 0376 0376 0376 0376 0376 037





NOTE: Cables are optional, except when specified.



TIPS ON REAR PANEL CONNECTIONS

- S-VIDEO, YPbPR, IEEE 1394 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 the AVC Center.
- 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: 4 in
 the example on page 25). Refer to your VCR operating guide for more information on line input-output connections.
- · Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-P_BP_R (Input 1 & 2) connections are provided for high performance components, such as DVD players and settop-boxes. Use these connections in place of the standard video connection if your device has this feature.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PB input.
- Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_R output to the TV's P_B input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPB inputs. (See page 54)
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR, RGB and HDMI input
 jacks.
- · Input 1 or 2 can accept HDMI signal.
- · Input 1 or 2 can accept both component and composite video signal.
- S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type.
- When using a DVI or HDMI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

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 AVC box/Display Monitor 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 45 for instructions on how to program the remote to control your VCR).

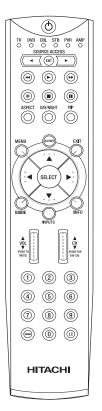
To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your PVR (see page 45 for instruction on how 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 42 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 43 for instructions on how to program the remote to control your set-top-box).

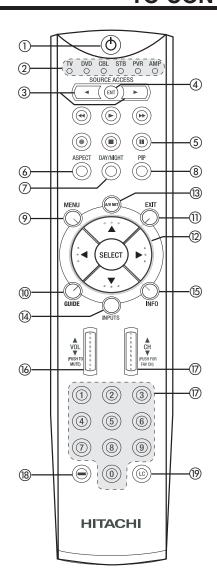
To operate your DVD player, point the remote at the remote sensor of the DVD player and select DVD by pressing the ◀ or ▶ button of the Source Access on the remote. The DVD mode indicator will blink, indicating that the remote will now control your DVD Player (see page 44 for instruction on how to program 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 46 for instructions on how to program the remote to control additional Audio/Video equipment).



NOTE: When you are in a dark room, press any button on the remote to light up the buttons. The illumination will light for a few seconds during this time and the current mode indicator will flash one time. These buttons will not appear to light if the room is too bright.





1 POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 27 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 (◀, ▶) buttons

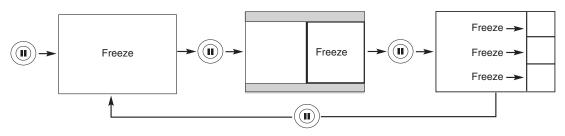
Press these buttons to select remote control mode.

(4) SOURCE ACCESS (ENT) button

Hold down this button while entering your device code to program the remote (see pages 42-49). You can also use this button in an optional Input access feature (see page 47).

(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 41).





(6) ASPECT button

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

Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options.

4:3 STANDARD Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the

left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted

area of the picture will age more rapidly than the gray areas.

4:3 EXPANDED Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from

the center towards the edges of the display area in order to fill it.

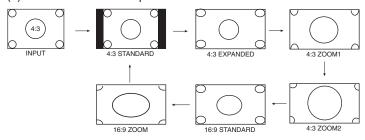
4:3 Zoom1/Zoom2 Use these aspect modes to zoom in on conventional (4:3) sources.

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

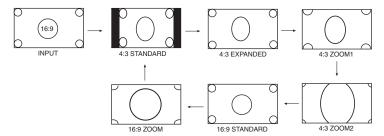
ratio.

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

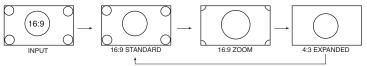
(1) NTSC/480i/480P Input



(2) 480i/480P Input



(3) 720P/1080i Input



(4) RGB (Analog Input) ASPECT DISPLAY MODE.

	RGB (Ana	log) INPUT SIGN	NAL			
	Others	SVGA/XGA(4)	VGA	480p	720p	1080i
ASPECT	X	REAL	REAL	REAL(1)	Х	Х
MODE	NORMAL	NORMAL	NORMAL	NORMAL(1)	Х	Х
AVAILABILITY	FULL	FULL	FULL	FULL(1)	FULL(2,3)	FULL(2,3)

For numbers in (), please see corresponding note below

NOTES: 1. Lack of raster can be seen in RGB (Analog) when a 480p signal is input.

- 2. AUTO ADJUST function (see page 85) is not available in 720p and 1080i input signal.
- 3. FULL aspect mode, only 95% of information can be displayed (5% is treated as overscan).
- 4. 55" Model only.
- 5. Depending on the Aspect selection, Closed Caption display may be missing.



(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 51 for settings changes).

NOTE: For automatic DAY/NIGHT picture mode settings, see page 68.

(8) PICTURE-IN-PICTURE button

See separate section on pages 39-40 for a description.

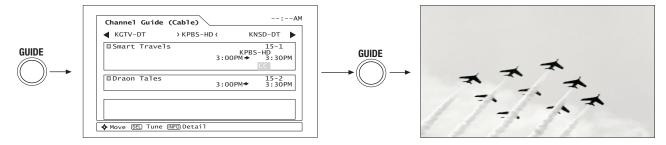
(9) MENU button

The MENU button will start the On-Screen Display.

(10) GUIDE button

Press this button to access the Channel Guide. Press the GUIDE button again to return to normal viewing.

Select CHANNEL GUIDE to display available program information. Only scanned programs that are available at the present time will show in the Channel Guide (see Auto Channel Scan on page 60).



Use the CURSOR PAD \triangle , ∇ , \triangleleft , \triangleright to highlight the channel of choice (example: KPBS-HD). Press the CURSOR PAD \triangle , ∇ , to highlight the subchannel of choice (example: 15-1).

Press the SELECT button to tune the subchannel of choice.

NOTE: The availability of Channel Guide Information will depend on the type of Antenna input (Analog, Digital) and Cable subscription.

(11) EXIT button

This button will exit all On-Screen Displays.

(12) 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.



(13) AV NET button

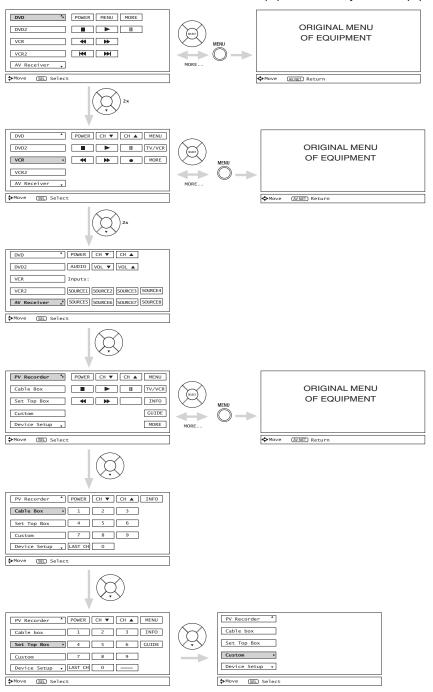
Press this button to access the Audio/Video network (AV Net) menu. The AV Net allows the user to control external components with the Plasma TV's remote control. When you press the AV NET button, the following window will pop up within the Display Monitor screen. The window will disappear after 30 seconds if you don't press any buttons.

Select Device Setup to start.

Use CURSOR PAD ▲, ▼, ◀, ▶ to navigate and SELECT to select button. The command on the button is passed through the IR mouse and onto the AUDIO/VIDEO equipment. These on-screen buttons are called "Soft Keys".

Customize your Audio/Video equipment list and soft keys by selecting the Custom options and following the instructions of the AV NET learning wizard (see page 32).

This window shows the available Audio/Video equipment soft keys. The equipment list will scroll up or down.

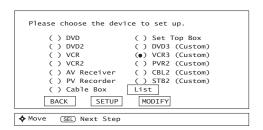


- 1. Devices will not be available until Device Setup is completed (see pages 22-24).
- 2. The "Custom" option will not be available until the Custom device Setup is learned and completed. After completion, the "Custom" tag will be replaced with the device tag (see page 32).
- 3. The Custom option only accepts one device at a time. The second Custom device setup will replace the first device.



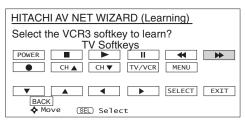
AV NET LEARNING WIZARD

This function of the AV NET makes it more expandable because it allows the user to use equipment that is not supported by the pre-code library, listed on page 24. For example, after programming your equipment to the AV NET and the soft keys do not work, the user just has to follow the steps below. The AV NET Learning Wizard will transfer any remote button IR code of your equipment to the soft keys of your AV NET. If all remote button transfers are successful, the user can now control their equipment by using the Plasma TV remote control.



 Press A/V NET button on the remote contr 	O	ı
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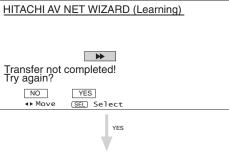
- 2. Use the CURSOR PAD to select DEVICE SETUP, press the SELECT button.
- 3. Use the CURSOR PAD/SELECT button to choose CUSTOM option (Ex. VCR3).
- 4. Use the CURSOR PAD to select Setup, press the SELECT button.



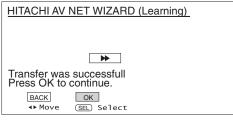
1. Select TV Softkeys to learn, press the SELECT button.



1. Press and hold the ▶▶ button of the VCR remote control while pointing directly at the learning AV NET sensor of the AVC at a distance of 1 to 2 meters.



1. Select OK to continue.



- NOTES: 1. It is very important to point the equipment's remote control directly close (about 12 inches) to the LEARNING AV NET sensor of the AVC (see pages 9-10) while trying to transfer the desired remote control button to the AV NET.
 - 2. To access the Menu function of a specific equipment, select the "MENU" soft key on OSD, then press the MENU button of the Plasma TV remote control. In order to use CURSOR PAD and EXIT button of the Plasma TV remote control, "arrows, select, and EXIT" button must be learned. Then the menu of the programmed equipment can be controlled with the Plasma TV remote control.



(14) 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.

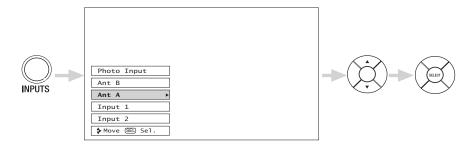
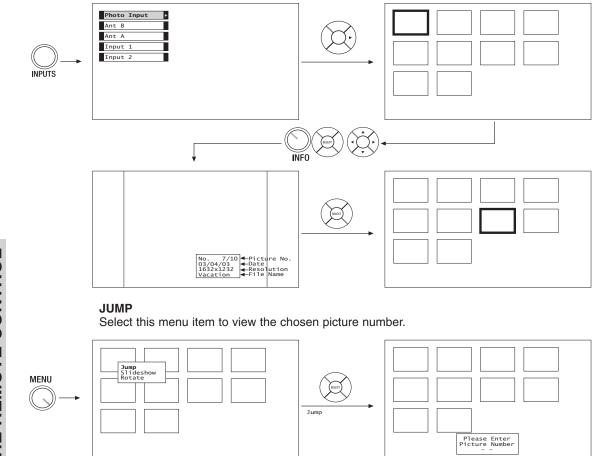


Photo Input	Select to access your pictures from a digital camera connected to the Photo Input in the front panel of the AVC (see page 34).
Ant B	Select to choose Antenna B.
Ant A	Select to choose Antenna A.
Input 1	Select to choose Input 1 for Video 1.
Input 2	Select to choose Input 2 for Video 2.
Input 3	Select to choose Input 3 for Video 3.
Input 4	Select to choose Input 4 for Video 4.
Input 5	Select to choose Input 5 for Video 5.
RGB	Select to choose for RGB input (see pages 78-87).
IEEE 1394	Select to choose for IEEE 1394 Input (see page 36).



PHOTO INPUT

This feature is useful for viewing digital still pictures from your digital camera using the Photo Input in the front panel of the TV.



- Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.
- The maximum number of digital Photos that can be displayed is 999.

 Press INFO button to show Picture Numbers in Thumbnail view, plus other information in individual photos.

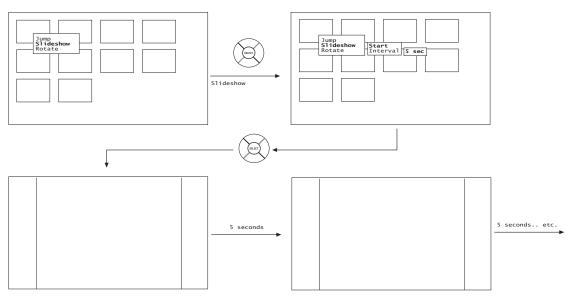
 Digital photos recorded on a DVD-RAM disc may not work with this Photo Input. 3.
- Certain types of digital cameras may not work with this Photo Input. 5.
- Digital cameras with low battery power may not properly display your photos in this input.

 The screen may show "Input device not detected" if the digital camera's large capacity memory is fully loaded. Please wait 1 or 2 minutes before checking your Photo Input connections.
- 8. The screen may show "Input device not detected" due to slow access time on some digital cameras. Please wait 1 or 2 minutes before checking your Photo Input connections.



SLIDESHOW

Select this menu item to start a slideshow of the Photos in the Digital Camera. Time interval selections can be set from 5, 10 and 30 seconds.



Use CURSOR PAD ▲, ▼ to highlight Slideshow item.

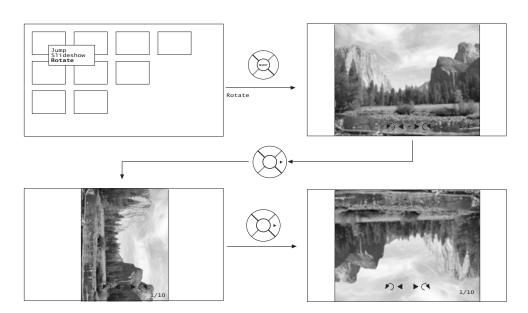
While interval is highlighted, press SELECT to change interval time from 5, 10 and 30 seconds. Each press will change interval time from the three mentioned choices.

Press SELECT to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume, or press SELECT again to continue the slideshow.

Press EXIT to exit the slideshow.

ROTATE

Select this menu item to rotate selected photos either clockwise (CURSOR PAD ▶) and counterclockwise (CURSOR PAD ◄). Rotate menu item is also available in THUMBNAIL view.

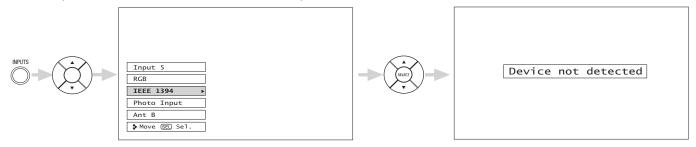


- 1. Automatic contrast reduction also applies during SLIDESHOW, then press any button to continue.
- Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a 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.

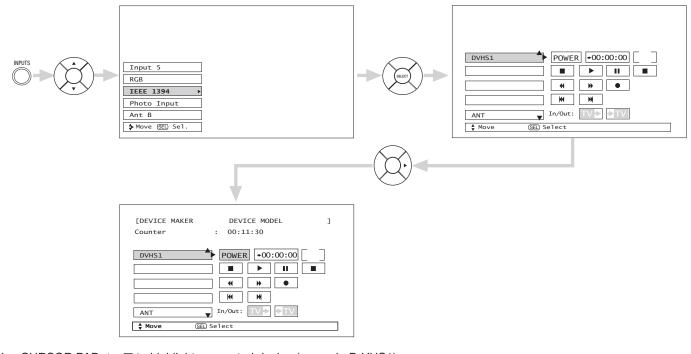


IEEE1394 Use this function to control your devices with digital interface capability. Press the INPUTS button, CURSOR PAD and SELECT button to select IEEE 1394.

(When an IEEE1394 device is not connected)



(When an IEEE1394 device is connected)



Use CURSOR PAD ▲ , ▼ to highlight connected device (example D-VHS1). Use CURSOR PAD ▶ to select connected device (example D-VHS1).

Use CURSOR PAD cursors to highlight POWER.

Press the SELECT button to power on the device.

Use CURSOR PAD cursors to select D-VHS operation.

Press down on the CURSOR PAD to enable the selected operation.

Use CURSOR PAD cursors to highlight the TV IN/OUT operation.

Press down on CURSOR PAD to select: TV IN is DVHS

TV OUT is ANT A

- 1. The digital device will be automatically recognized if properly connected.
- 2. Four (4) IEEE1394 devices can be listed on the menu, but only 1 device at a time can be used. If a fifth device is connected, it will replace the first device on the menu list.
- 3. This TV's IEEE1394 connection is not compatible with a DV camcorder (Digital Video Camcorder) or a PC.
- 4. The On-Screen-Display will not disappear until the EXIT button is pressed.
- 5. 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.
- 6. TV IN/OUT functions are not available when DVHS is in playback or recording.

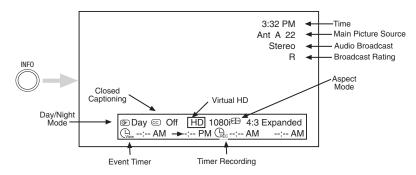
HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV



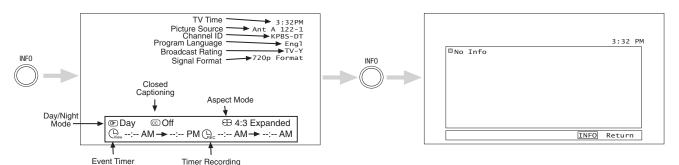
(15) INFO button

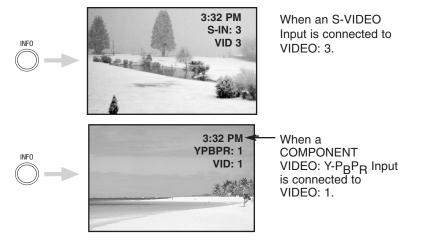
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.

ANALOG CHANNELS



DIGITAL CHANNELS





NOTES:

- 1. The Sleep Timer info will show momentarily after releasing INFO button.
- 2. Press the INFO button again or the EXIT button to return to normal viewing.



HOW TO USE THE REMOTE TO CONTROL YOUR PLASMA TV

(16) 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).



Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 75).

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.

(T) 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 (\blacktriangle or \blacktriangledown) 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 (\blacktriangle) or CHANNEL WHEEL down (\blacktriangledown).

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.



(18) (-) 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) LAST CHANNEL (LC) button

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

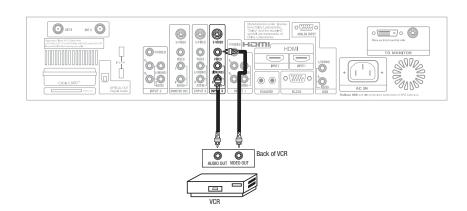
PICTURE-IN-PICTURE (PIP)

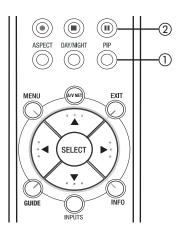


Your HITACHI Plasma TV incorporates Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each.

ANT A input can be viewed as both the main picture and the sub-picture simultaneously. ANT B can only be viewed as a main picture. To select between main picture and PIP sub-picture tuning, use the CURSOR PAD on the remote. The green highlighted channel display will move with every press of the CURSOR PAD (◀, ▶).

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 above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, INPUT:1, INPUT:2, INPUT:4, or INPUT:5). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, INPUT:1, INPUT:2, INPUT:4 or INPUT:5).

(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 (▲, ▼) to move the sub-picture. This feature is not available with a 1080i component input or Digital signal. Please refer to the PICTURE-IN-PICTURE MODES Table (see page 40).

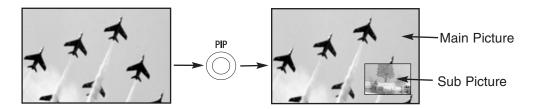


- **NOTES:** 1. Digital Channels cannot be viewed as a sub-picture.
 - 2. PIP MODE Picture-in-Picture is only available with a 1080i component or digital signal.
 - 3. Press the CURSOR PAD $(\blacktriangleleft, \blacktriangleright)$ to enable the sub-picture sound.
 - 4. Sub-picture channel availability depends on the channel list.



PIP MODE PICTURE-IN-PICTURE

This feature is only available with a 1080i component input or Digital 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 sub-picture 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 sub-pictures or Thumbnail channels.



NOTE: Selecting individual sub-pictures while in Surf mode is not available.

PICTURE-IN-PICTURE (PIP) MODES

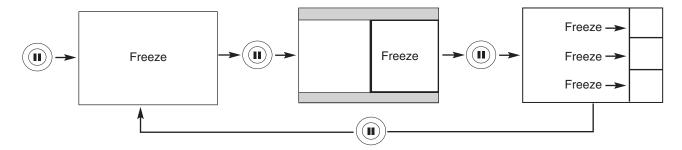
(/ = -						
PIP Mode	Sub Main	NTSC	480i	480p	720p	1080i
POP	NTSC	Yes	Yes	-	-	Yes
	480i	Yes	Yes	-	-	Yes
PIP 4x3	1080i	Yes	Yes	-	-	-
PIP 16x9	1080i	Yes	Yes	-	-	Yes
SPLIT	NTSC	Yes	Yes	Yes	Yes	Yes
	480i	Yes	Yes	Yes	Yes	Yes
	480p	Yes	Yes	Yes	Yes	Yes
	720p	Yes	Yes	Yes	Yes	Yes
	1080i	Yes	Yes	Yes	Yes	Yes
12 Pix	-	Ant A/B	-	_	-	-

PICTURE-IN-PICTURE (PIP)



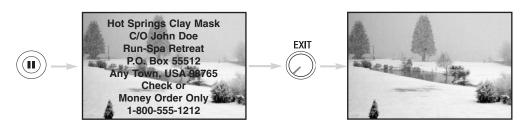
2 PAUSE button

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).



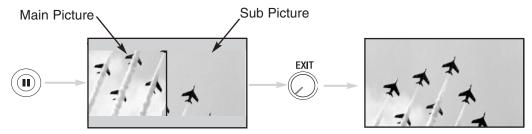
MAIN FREEZE

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.



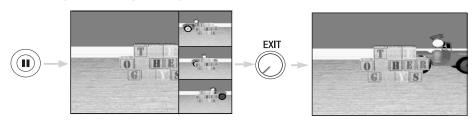
SPLIT FREEZE

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.



- NOTES: 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.
 - 3. Strobe Freeze is not available in 480p/720p/1080i inputs.



HOW TO USE THE REMOTE TO CONTROL 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 48-49 for pre-codes).

- 1. Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- 3. To switch to Cable (CBL) pre-coded mode, use the SOURCE ACCESS buttons (◀, ▶) 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 48-49. 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.

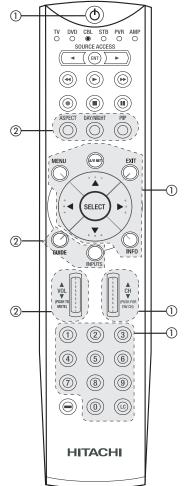
NOTES:

- 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 remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 1) PRECODED CABLE BOX buttons

These buttons transmit the chosen precoded cable codes.

(2) EXCLUSIVE TV buttons

These buttons are for operating the TV.



MY CABLE BOX CODE IS:_____

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.

HOW TO USE THE REMOTE TO CONTROL SET-TOP-BOX/SATELLITE RECEIVER FUNCTIONS



Operating the precoded function for your set-top-box/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 48-49 for pre-codes).

- 1. Turn ON your set-top-box/satellite systems.
- 2. Aim the remote control at the front of your set-top-box/satellite systems.
- To switch to set-top-box/satellite (STB) pre-coded mode, use the SOURCE ACCESS buttons (◀, ▶) 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 set-top-box/satellite receiver as shown on page 48-49. 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-top-box/satellite receiver does not turn off, try a different four digit preset code.
- 6. The remote will now control your set-top-box/satellite receiver.

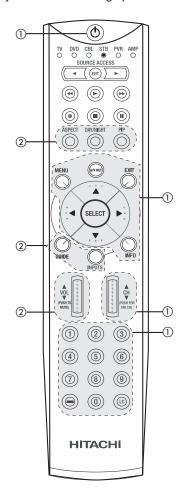
NOTES:

- If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-topbox/satellite receiver code has not been precoded into the remote.
- In the unlikely event that your set-top-box/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 remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- (1) PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons

These buttons transmit the chosen pre-coded set-top-box/satellite codes.

2 EXCLUSIVE TV buttons

These buttons are for operating the TV.



MY SATELLITE RECEIVER/STB 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.



HOW TO USE THE REMOTE TO CONTROL 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 48-49 for pre-codes).

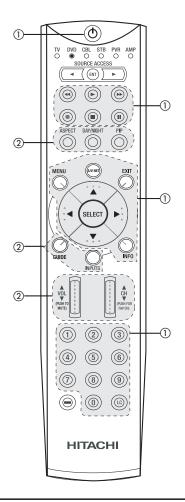
- 1. Turn ON your DVD player.
- 2. Aim the remote control at the front of your DVD player.
- 3. To switch to DVD pre-coded mode, use the SOURCE ACCESS buttons (◀, ▶) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 48-49. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different four digit preset code.
- 6. The remote will now control your DVD player.
- 7. You will need to set the display type of your DVD player to 16:9 widescreen.

NOTES:

- If your DVD player cannot be operated after performing the above procedures, your DVD player's 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.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 1 PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

(2) **EXCLUSIVE TV Buttons**These buttons are for operating the TV.



MY DVD PLAYER CODE IS:_____

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

HOW TO USE THE REMOTE TO CONTROL 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 48-49 for pre-codes).

- 1. Turn ON your VCR/PVR.
- 2. Aim the remote control at the front of your VCR/PVR.
- To switch to VCR/PVR pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) 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 VCR/PVR, as shown on pages 48-49. 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.

NOTES:

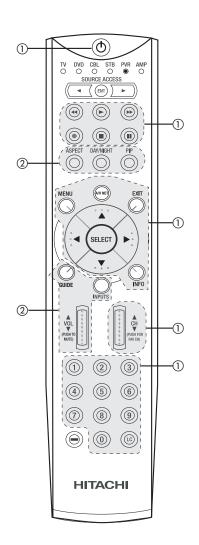
- If your PVR cannot be operated after performing the above procedures, your PVR's code has not been precoded into the remote.
- In the unlikely event that your PVR cannot be operated after performing the above procedures, please consult your PVR operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 4. VCR precode library is included in the PVR mode. Default device for this mode is Hitachi VCR.
- INFO, GUIDE and LC (Last Channel) buttons are for PVR devices, not for VCR.

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.



HOW TO USE THE REMOTE TO CONTROL 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 48-49 for pre-codes).

- 1. Turn ON your Audio component you wish to control with the Remote.
- 2. Aim the remote control at the front of your Audio component.
- 3. To switch to Audio (AMP) component pre-coded mode, use the SOURCE ACCESS buttons (◀, ▶) 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 48-49. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different four digit preset code.
- 6. The remote will now control your Audio component.
- 7. Repeat steps 1 6 if you wish to program the remote to control another Audio component.

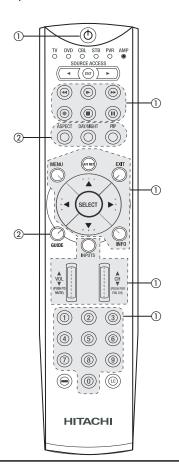
NOTES:

- If your Audio component cannot be operated after performing the above procedures, your Audio component's 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 equipment operating guide.
- The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- CD precode library is included in the AMP mode. Default device for this mode is Hitachi Audio/Video Receiver (AVR/AMP).
- INPUT, GUIDE, Channel (up/down), Volume (up/down) and REC button are not for CD devices.
- 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 EQUIPMENT CODE IS:	
CD	
AMP/RCVR	

NOTES: 1. The REC (Record) button only applies to some precoded amplifier/receiver codes.

2. Refer to instruction manual of the Audio equipment for operation of the buttons exclusively for the Audio equipment.

HOW TO USE THE REMOTE "ENT" BUTTON TO ACCESS THE SPECIFIED INPUT OF THE PLASMA TV



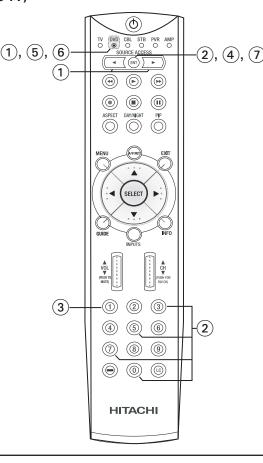
INPUT ACCESS

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 (◄, ►) 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 48-49.
- 3. Then enter the assigned input number (1-5) that the device is related to.
- 4. Release ENTER (ENT) button.
- 5. If done correctly, the device LED indicator will flash 3 times to confirm proper setup.
- 6. The remote will now control the desired device.
- 7. Pressing the ENTER (ENT) button will now access the video input (1-5) of the desired device.

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

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



NOTES: 1. This feature is optional.

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



PVR/VCR, CABLE, SATELLITE, DVD AND AUDIO CODES FOR REMOTE CONTROL

	CODE
ABS	
Admiral	
Adventura	
Aiko	
Akai	0000, 0037, 0307
Alienware	
America Action American High	
Asha	
Audiovox	0037 0278
Beaumark	
Bell & Howell	
Broksonic	
CCE	
Calix	,
Canon	
Carver	
Cineral	0278
Citizen	0278, 0037
Colt	0072
Craig	0037, 0072,
Curtis Mathes	
CyberPower	
Cybernex	
Daewoo	
Dell	
Denon	
Durabrand	0039, 0038
Dynatech	
Electrohome	
Electrophonic	
Emerex	
Emerson 0037	
0043, 0209, 0208, 0212,	
Fisher	0479, 0301, 1393
Fuji	0033 0035
Funai	
GE 0035, 0060,	
Garrard	
Gateway	
Go Video	0432, 0526
GoldStar	0037 0038
Gradiente	
	0000, 0008
	0000, 0008
HP	0000, 0008 0047 1972
HP	0000, 0008 0047 1972 0000
HP	
HP Harley Davidson Harman/Kardon Harwood	0000, 0008 0047 1972 0000 0038, 0081 0072
HP	
HP	0000, 0008 0047 1972 0000 038, 0081 0072 0046
HP	0000, 0008 0047 0000 038, 0081 0072 0046 1972
HP	0000, 0008 0047 1972 0000 0038, 0081 0072 0046 1972 1972 0041, 0042, 0105 1972 ems0042
HP	0000, 0008 0047 1972 0000 0038, 0081 0072 0046 1972 1972 0041, 0042, 0105 1972 ems0042
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi O000, Howard Computers Hughes Network Systi	
HP	
HP	
HP	
HP Harley Davidson	
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi 0000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak	
HP. Harley Davidson Harman/Kardon Harwood Headquarter Hedett Packard Hitachi 0000, Howard Computers Hughes Network Systi iBuy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI	
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi O000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG	
HP	
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi 0000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI	
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi O000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI MGA	
HP	
HP. Harley Davidson Harman/Kardon Harwood Headquarter Headquarter Hitachi 0000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI MGA MGN Technology MTC	
HP	
HP. Harley Davidson Harman/Kardon Harwood Headquarter Headquarter Hitachi 0000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI MGA MGN Technology MTC	
HP. Harley Davidson Harman/Kardon Harwood Headquarter Headquarter Hewlett Packard Hitachi 0000, Howard Computers Hughes Network Systi iBuy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox 0035, 0039, 0593 Magnin	
HP Harley Davidson Harman/Kardon Harwood Headquarter Hewlett Packard Hitachi O000, Howard Computers Hughes Network Systi Buy Power JVC Jensen KEC KLH Kenwood Kodak LG LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox 0035, 10039, 0593	

Matsushita			
Modia Contor PC	0035	0162	1162
	. 0000	, 0102	1972
Memorex 0035,	0162	0037	00/2
0039, 0047, 0240,	0102,	0104	0040,
0046, 0307, 0479	1027	1162	1262
Microsoft	, 1037	, 1102,	1072
Mind			1070
Mind			
Minolta			
Mitsubishi	0061,	0043,	0067
Motorola			
Multitech		0000,	0072
NEC 0038,			
Nikko			0037
Noblex			0240
Northgate			
Olympus			0035
Optimus 0593,	1062,	0162,	0037,
0048, 0104, 0432	, 1048	, 1162,	1262
Optonica			
Orion 0184,	0209.	0002.	0479
Panasonic 0162,	1062.	0035.	0616.
1162, 1262	,	,	,
Penney 0035,	0037	0240	0042
Pentax		0042	0105
Philco 0035,	0209	0479	0561
Philips	0203,	0473,	0501
	1001	1101	0010,
Pilot			
Pioneer			
Polk Audio			
Profitronic			0240
Proscan			
Protec			
Pulsar			
Quarter			0046
Quartz			0046
Quasar	. 0035	0162	, 1162
RCA 0060,			
0106,	0202,	0761,	0880
Radio Shack		0000,	1037
Radix			0037
Randex			0037
Realistic 0035,	0037.	0048.	0047.
0000, 0104,	0046	0062	0066
ReplayTV		0614	0010
Runco			0039
Runco			0039
Runco		 	0039
Runco		0240,	0039 0042 0432
Runco	0045,	0240,	0039 0042 0432 0048
Runco		0240, 0039, 0067,	0039 0042 0432 0048 0209
Runco		0240, 0039, 0067, 1479,	0039 0042 0432 0048 0209, 0271
Runco STS Samsung Sanky Sansui 0041, Sanyo 0047	0000, 0479, 0240,	0240, 0039, 0067, 1479, 0104,	0039 0042 0432 0048 0209, 0271 0046
Runco STS Samsung Sanky Sansui 0041, Sanyo Scott	0045, 0000, 0479, 0240, 0184,	0240, 0039, 0067, 1479, 0104,	0039 0042 0432 0048 0209, 0271 0046 0121,
Runco STS Samsung Sanky Sansui 0041, Sanyo Scott	0000, 0479, 0240, 0184, 0043,	0240, 0039, 0067, 1479, 0104, 0045,	0039 0042 0432 0048 0209, 0271 0046 0121,
Runco STS	0000, 0479, 0240, 0184, 0043, 0047,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000,	. 0039 . 0042 . 0432 . 0048 . 0209, . 0271 . 0046 . 0121, . 0212 . 0042,
Runco STS Samsung Sanky Sansui		0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	. 0039 . 0042 . 0432 . 0048 . 0209, . 0271 . 0046 . 0121, . 0212 . 0042, . 0105
Runco STS Samsung Sanky Sansui	0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	. 0039 . 0042 . 0432 . 0048 . 0209, . 0271 . 0046 . 0121, . 0212 . 0042, . 0105 . 0045
Runco STS Samsung Sanky Sansui	0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	. 0039 . 0042 . 0432 . 0048 . 0209, . 0271 . 0046 . 0121, . 0212 . 0042, . 0105 . 0045
Runco STS Samsung Sanky Sansui O041, Sanyo Scott Sears 0035, 0037, 0104, 1237, Semp Sharp Shintom	0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062
Runco STS Samsung Sanky Sansui	0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062
Runco STS Samsung Sanky Sansui O041, Sanyo Scott Sears 0035, 0037, 0104, 1237, Semp Sharp Shintom	0045, 0040, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066,	. 0039 . 0042 . 0432 . 0048 . 0209, . 0271 . 0046 . 0121, . 0212 . 0042, . 0105 . 0045 . 0062 . 0072 . 0240
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062 0072
Runco STS Samsung Sanky Sansui 0041, Sanyo Sears 0035, 0037, 0104, 1237, Semp Sharp Shintom Shogun	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062 0072 0240 0072
Runco STS Samsung Sanky Sansui	0000, 0479, 0240, 0184, 0047, 0046, 0048,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 0848,	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062 0072 0240 0072 0616 0000,
Runco STS Samsung Sanky Sansui	00045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0048,	0240, 0039, 0067, 1479, 0104, 0210, 0000, 0066, 0848, 0614, 0032, 1032,	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0062 0072 0240 0072 0616 0000, 1972
Runco STS Samsung Sanky Sansui	00045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035,	0240, 0039, 0067, 1479, 0104, 0210, 0000, 0066, 0848, 0614, 0032, 1032, 0081,	0039 0042 0432 0048 0209, 0271 0046 0121, 0212 0042, 0105 0045 0062 0072 0240 0072 0616 0000, 1972 0000,
Runco STS Samsung Sanky Sansui	00045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0048, 0035, 0636, 0035, 0043,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 0848, 1032, 1032, 0081, 0593,	0039 0042 00432 0048 0209, 0271 0046 0121, 0105 0045 0072 0240 0072 0240 0072 0166 0000, 1972 0000,
Runco STS Samsung Sanky Sansui	0045, 	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 	0039 0042 00482 00488 0209, 0271 0046 0121, 0042, 0105 0045 0072 0240 0072 0616 0000, 1593 1593
Runco STS Samsung Sansui	0045, 0000, 0479, 0240, 00184, 0043, 0047, 0046, 	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0066, 0848, 1032, 1032, 0081, 00593, 0593,	0039 0042 00482 0094 0271 0046 0121, 0042, 0105 0042, 0072 0616 0000, 1972 0000, 1593 1593
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0048, 0035, 0636, 0035, 0043,	0240, 0039, 0067, 1479, 0104, 0210, 0000, 0066, 0848, 032, 1032, 0081, 0593, 0593,	0039 0042 00432 0048 00209, 0271 0046 0121, 0105 0045 0062 0072 0240 0072 0040, 1593 1593 1593 1972 0208
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035, 0043,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0666. 0614, 0593, 0593, 0593, 0240,	0039 0042 0432 0048 0209, 0271 0046 0121, 0105 0062 0240 0072 0616 00000, 1593 1593 1972 0208 1972
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035, 0043,	0240, 0039, 0067, 1479, 0104, 0045, 0848, 	0039 0042 0432 0048 0209, 0271 0046 0121, 0105 0042, 0105 0072 0240 0072 0000, 1593 1593 1593 1972 0208 1972 0041
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0047, 0046, 0048, 0035, 0636, 0003,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0066, 	0039 0042 0048 0209, 0271 0046 0121, 0042, 0105 0042 0072 0616 0000, 1972 0018 1593 1593 1972 0208 0204 00000 00000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
Runco STS Samsung Sansung Sansui	0045, 0000, 0479, 0240, 00184, 0043, 0047, 0046, 	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0060, 00848, 1032, 0081, 00593, 0593, 0240,	0039 0042 00482 00488 0209, 0271 0046 0121, 0042, 0105 0042, 0072 0616 0000, 1972 0000, 1972 0208 1972 0208 1972 0041 0041
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 00184, 0043, 0047, 0046, 0035, 0636, 0035, 0000,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, , 0848, , 0614, 0032, 1032, 0081, 0593, 0290, 0240, 0035, 0035, 0035,	0039 0042 00432 00488 0209, 0271 0046 0121, 0212 0042, 0072 0240 00072 0000, 1593 1972 0208 1972 0041 0041 0041
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035, 0043, 0000,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0066, 0614, 0032, 0081, 0593, 0593, 0240, 0035, 0035,	0039 0042 0048 0209, 0271 0046 0121, 0105 0062 0240 0072 0240 0000, 1593 1593 1972 0041 0041 0041 0041
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035, 0040, 0000,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0000, 0066, 	0039 0042 0048 0209, 0271 0046 0121, 0105 0062 0212 0072 0240 0072 0072 0000, 1593 1593 1972 0041 0041 0041 0041 0045
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 0184, 0043, 0047, 0046, 0035, 0636, 0035, 0035, 0035, 0035, 0035, 0047,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0066, 	0039 0042 0048 0209, 0271 0046 0121, 0045 0062 0072 0616 0000, 1572 0208 1593 1972 0041 0041 0041 0041 0041 0037 0066,
Runco STS Samsung Sanky Sansui	0045, 0000, 0479, 0240, 00184, 0047, 0046, 0035, 0636, 0035, 0035, 0030, 0000,	0240, 0039, 0067, 1479, 0104, 0045, 0210, 0066, 0848, 0614, 0032, 1032, 0081, 0593, 0593, 0240, 0035, 0035, 0036, 0036, 0036,	0039 0042 0048 0209, 0271 0046 0121, 0042, 0105 0042, 0105 0042, 0105 0042, 0105 0072 00616 0000, 1593 1593 1972 0208 1972 0041 0041 0041 0041 0051 0061

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Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente.	0744,	0591, 0717, 0699, 0715, 0869,	1085 0675 0591 0676 0675 0815 0769 1073 0783 1075
Denon Dual Emerson Enterprise Fisher Funai GE GPX. Gateway Go Video Gradiente. Greenhill	0744,	0591, 0717, 0699, 0715, 0869,	1085 0675 0591 0675 0815 0769 1073 0783 1075 0651
Denon Dual Emerson Enterprise Fisher Funai GE GPX. Gateway Go Video Gradiente. Greenhill	0744,	0591, 0717, 0699, 0715, 0869,	1085 0675 0591 0675 0815 0769 1073 0783 1075 0651
Denon Dual . Emerson . Enterprise Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon .	0744,	0717, 0699, 0715, 0869,	1085 0675 0676 0676 0815 0769 1073 0783 1075 0651 0717 0705
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video		0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0676 0815 0769 1073 0783 1075 0651 0705 0702
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker .		0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0676 0815 0769 1073 0783 1075 0705 0702 0695
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hitker IRT	0744, 0833,	0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0676 0815 0769 1073 0783 1075 0705 0705 0705 0695 0672
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial	. 0522, 0744, . 0833, . 0573,	1068, 0591, 0717, 0699, 0715, 0869, 	1085 0675 0591 0670 0675 0815 0769 1073 0651 0705 0702 0695 0672 0783 0717
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra	. 0522, 0744, . 0833, 	1068, 0591, 0717, 0699, 0715, 0869, 	1085 0675 0591 0670 0675 0815 0769 1073 0651 0705 0702 0695 0672 0783 0717
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker .	. 0522, 0744, . 0833, . 0573,	0717, 0699, 0715, 0869, 0664,	108591 0676 0591 0676 0815 0768 1073 0783 1075 0705 0705 0702 0702 0702 0783 07707 0702 0702 0702 0702 0702 0702 07
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0744, 0833, 0573,	1068, 0591, 0717, 0699, 0715, 0869,	1085 0675 0591 0670 0815 0769 1073 0783 1075 0651 0702 0692 0792 0792 0672 0672
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC 0623	. 0522, 0744, . 0833, . 0573,	1068, 0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0670 0675 0815 0768 0768 0717 0705 0702 0695 0672 0783 0717 0717 0627 0702
Denon Dual . Emerson Enterprise . Fisher Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH .	0744, 0833, 0573,	1068, 0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0670 0675 0815 0768 0768 0717 0705 0702 0702 0702 0702 0702 0702 070
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hitker IRT Initial Integra Hiteker JBL JVC SCASSA LH Kawasaki	0744, 0833, 0573, 0573,	1068, 0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0670 0670 0670 0670 0670 0769 0717 0700 0690 0672 0702 0702 0702 0702 0702 0702 070
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood .	0744, 0833, 0573,	1068, 0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	1085 0675 0591 0670 0675 0676 0676 07683 1075 0651 0717 0705 0672 0783 0717 0627 0702 0790 0702 0702 0702 0702 0702 07
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591, 0717, 0699, 0869, 0664, 0867, 0790,	1085 0675 0591 0676 0815 0769 1073 0783 1075 0702 0702 0699 0672 0702 1901 1020 0534 0651
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591, 0717, 0699, 0715, 0869, 0664,	1085 0675 0591 0676 0815 0769 1073 0783 1075 0651 0702 0702 1901 1020 0792 0792 0793 0793
Denon Dual Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC Mawasaki Kenwood Koss Lasonic Lite-On.	0744, 0833, 0573, 0573,	1068, 0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	1085 0675 0591 0676 0815 0768 1073 0783 0717 0705 0702 0702 0702 0702 0702 0702 070
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503	0744, 0833, 0573, 0573,	1068, 0591,	1085 0675 0591 0676 0815 0768 1073 0783 0765 1075 0702 0702 0702 0702 0702 0702 0702 0
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz .	0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0676 0815 0768 1073 0783 1075 0702 0702 0695 0772 0702 0702 0702 0702 0702 0703 0703
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz . Memorex .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0769 0768 11075 0768 10775 0651 0717 0705 0672 0783 0717 0792 0792 0792 0792 0793 0651 1075 0795 1058 0717 0795 0795 0795 0795 0795 0795 0795 079
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790, 0490,	1085 0675 0591 0768 11075 0768 11075 0651 0717 0702 0702 0792 0792 0792 0792 0792 079
Denon Dual . Emerson Enterprise Fisher Funai . GE . GPX . Gateway Go Video Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz . Memorex . Microsoft . Mintek .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0760 1076 0717 0705 0707 0709 0702 0709 0717 0627 079 0534 0678 1058 1976 0539 0698 0698 0790 0534 0698 0698 0698 0698 0698 0698 0698 0698
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 . KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 . Marantz . Memorex . Microsoft . Mintek . Mitsubishi .	0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0790 11075 0705 0717 0705 0702 0792 0792 0793 1095 1976 0538 0695 0522 0798 1976 0538 1521
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz . Memorex . Microsoft . Mintek . Mitsubishi . Nesa .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0706 0815 0768 0768 0717 0702 0695 0672 0702 0695 0702 0702 0695 0702 0702 0702 0702 0702 0702 0702 070
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video . Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz . Memorex . Microsoft . Mitsubishi . Nesa . Norcent .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0769 0818 0768 11075 0651 0717 0702 0699 0672 0783 0717 0627 0627 0792 0792 0792 0793 0651 0798 0534 0651 0798 0798 0798 0798 0798 0798 0798 0798
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video Gradiente . Greenhill . Grundig . Harman/Kardon . Hitachi . Hiteker . IRT . Initial . Initial . Integra . Hiteker . JBL . JVC . 0623 KLH . Kawasaki . Kenwood . Koss . Lasonic . Lite-On . Magnavox . 0503 Marantz . Memorex . Microsoft . Mitsubishi . Nesa . Norcent . Onkyo .	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0591 1075 0676 0768 11075 0651 0717 0705 0651 0717 0627 0702 0790 1020 0790 1058 1976 0651 0798 1521 0798 0622 0790 0790 0790 0790 0790 0790 0790 07
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0591 1075 0676 0768 11075 0651 0717 0705 0651 0717 0627 0790 0534 1058 1078 0533 1521 0717 0639
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0706 076 0815 0768 1075 0768 1077 0709 0702 0709 0702 0790 0534 0695 1076 0539 1056 1976 0538 1521 0717 0872 0838 1521 0717
Denon Dual . Emerson . Enterprise . Fisher . Funai . GE . GPX . Gateway . Go Video	0522, 0744, 0833, 0573, 0558, 0717,	1068, 0591,	1085 0675 0591 0706 076 0815 0768 1075 0768 1077 0709 0702 0709 0702 0790 0534 0695 1076 0539 1056 1976 0538 1521 0717 0872 0838 1521 0717

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ABC 0003, 0008, 0017 Allegro Americast Archer Bell & Howel Bell South Cabletenna Cableview Century		0013, 0153, 0153, 	0315 0899 . 022 0797 .0014 0899 0022 0022
ABC 0003, 0008, 0017 Allegro Americast Artronix Archer Bell & Howel Bell South Cabletenna Cableview Century Critizen Citizen	0011,	0013, 0153, 0153, 0153,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315
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ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Contec Contec Contec Contec Contec Contec Contec	0011,	0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 0022 0797 0014 0899 0022 0153 0315 0883 0031 0040 0019
ABC 0003, 0008, 0017 Allegro Americast Archer Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Controlics Contec Coolmax		0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0385 0883 0031 0040 0019 0883
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Contec Coolmax Digi Digi		(00013, 0153,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883 0637
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell South Cabletenna Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics Contec Coolmax Digi Director	. 022,	0153, 0153, 0153, 0153,	0315 0899 . 022 0014 . 0899 0022 0153 0315 0883 0031 0040 0040 00883 0637
ABC 0003, 0008, 0017 Allegro Americast Archer Bell & Howel Bell & Howel Cabletenna Cabletenna Cableview Century ClearMax ClearMax Clearmaster Colour Voice Coolmax Digi Digi Director Dumont Emerson	0011,	00013, 0153, 0153, 0153, 0153,	0315 0315 0319 022 0797 0014 0899 0022 0153 0883 0031 0040 0019 0883 0476 0637 0797
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics Contec Coolmax Digi Director Dumont Emerson Everquest	. 022,	(00013, 0153, 0153, 0153, 0153, 0025, 0025, 00015, 000	0315 0899 022 0797 0014 0899 0022 0022 0153 0315 0883 0031 0040 0040 0019 0883 0637 0476 0637 0797
ABC	. 022,	0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 0022 0797 0014 0899 0022 0153 0315 0883 0031 0040 0040 0637 0647 0640 0400
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Coolour Voice Contec Coolmax Digi Director Dumont Emerson Everquest Focus Garrard Garrard	. 022,	(00013, 0153,	03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153 03153
ABC		(00013, 0153,	0315 0899 022 0797 0014 0899 0022 0022 0153 0315 0883 0031 0040 0019 0883 0637 0797 0040 0400 0153 0011,
ABC	. 0011,	(00013, 0153,	0315 0899 022 0797 0014 0899 0022 0022 0153 0315 0883 0637 0476 0637 0797 0040 0153 0797 0011 0810
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell & Howel Bell & Howel Gabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Contronics Contronics Contronics Contronics Cora Colour Voice Cora Colour Voice Cora Colour Voice Cora Colour Voice Contronics Controlics Control	. 0476,	(00013, 0153, 0153, 0153, 0153, 00015, 00015, 00015, 00003, 0276, 00040, 0040,	0315 0899 022 0797 0022 0022 0153 0883 0031 0040 0040 0637 0797 0040 0400 0153 0797
ABC 0003, 0008, 0017 Allegro Americast Artronix Archer Bell & Howel Bell & Howel Bell & Howel Cabletenna Cabletenna Cabletenna Cabletenna Calleview ClearMax ClearMax ClearMax Clearmaster Colour Voice Contronics Contronics Contronics Contronics Contronics Contronics Commont Emerson Emerson Ewerquest Focus Garrard Gemini General Instrument GoldStar Goodmind	. 022,	(00013, 0153,	03153 03153
ABC 0003, 0008, 0017 Allegro Americast Archer Bell & Howel Bell & Howel Gableview Cableview Century ClearMax ClearMax ClearMax Clearmaster Colour Voice Coolmax Digi Digi Director Dumont Emerson Everquest Focus Garrard General Instrument GoldStar Goodmind Hamlin 0009 Hitachi	. 0011,	(00013, 0153,	0315 0899 022 0797 0014 0899 0022 0153 0315 0883 0031 0040 0019 0406 0406 0406 0406 0406 0406 0406 040
ABC	. 0011,	(00013, 0153,	0315 0899 0022 0797 0014 0899 0022 0022 0153 0315 0883 0031 0040 0019 0476 0637 0797 0041 0400 0153 00797 0011 0144 0797 0273 0011
ABC 0003, 0008, 0017 Allegro Americast Artonix Archer Bell & Howel Bell & Howel Bell & Howel Gabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Controlics Control	. 0011,	(00013, 0153,	0315 0899 0022 0797 0022 0022 0153 0315 0040 0019 0040 0040 0040 0040 0019 0011, 0014 0797 0023 0015 0014 0019
ABC 0003, 0008, 0017 Allegro Americast Antronix Archer Bell & Howel Bell & Howel Bell & Howel Gabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Contronics Contronics Contronics Contronics Contronics Core Colour Voice Contronics Controlics	. 0011,	(00013, 0153,	0315 0883 0022 0797 0022 0022 0153 0315 0040 0019 0083 0637 0797 0011, 00144 0797 0273 00114 0315 0014, 0810
ABC 0003, 0008, 0017 Allegro Americast Artonix Archer Bell & Howel Bell & Howel Bell & Howel Gabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Contronics Controlics Control	. 0011, 	(00013, 0153, 0153, 00153, 00153, 00153, 00153, 00153, 00154, 00154, 00154, 004760, 00476, 00476, 00476, 00476, 00476, 00476, 00476, 00476, 00476	0315 0899 022 0797 0014 0899 0022 0153 0315 0883 0031 0040 0406 0406 0406 0406 0406 0406 040

THE REMOTE CONTROL

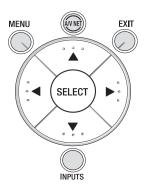
PVR/VCR, CABLE, SATELLITE, DVD AND AUDIO CODES FOR REMOTE CONTROL

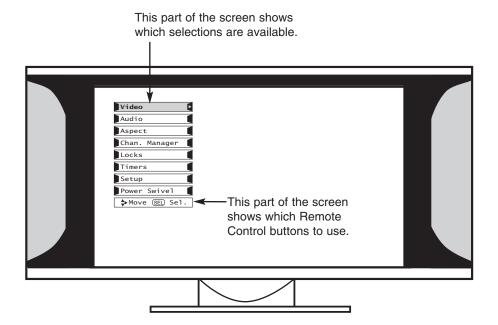


NSC0063	GOI	Soundesign 0078, 0211
Novaplex	General Instrument 0869, 0547, 0554	Technics
Oak	Gradiente	Toshiba
Optimus	HTS0775	Victor
Pace	Hitachi	Wards 0013, 0078, 0211
Panasonic 0000, 0021, 0107	homecable0238	Yamaha 0354, 0133
Panther	Hughes Network Systems 1142,	
Paragon	0749, 1749, 1442, 1443, 1444	RECEIVER BRAND (Amplifier) CODE
Philips	Hytek	ADC0531
Pioneer 0023, 0025, 0031, 0153,	IQ0210	Aiwa 1405, 0121, 0158, 0189, 0405
	IQ Prism	Anam
Popular Mechanics	Innova	Audiotronic
Pulsar	JVC	Bose
RCA0021	Janeil	Capetronic
RadioShack 0015, 0315, 0797, 0883	Legend	Carver
Recoton	Macom	Casio
Regal	Magnavox 0724, 0722	Clarinette
Rembrandt0011	Memorex 0724, 0269	Coby
Runco	Mitsubishi 0749	Compaq1136
SL Marx	Motorola	Curtis Mathes
Samsung	Netsat	Dell
Scientific Atlanta0877, 0008,	Next Level	Denon
	Norsat	Fisher
Signal	Pace	Garrard
Signature	Panasonic 0247, 0701, 0152	Glory Horse
Sony	Paysat	Harman/Kardon 0891, 0110, 0189
Sprucer	Philips 1142, 0749, 0724, 1076,	Hewlett Packard
Starcom		Hitachi
Stargate	Pico	Integra
Starquest	Proscan	JBL0110
Supercable	RCA	JVC
Supermax	Radioshack	KLH
TV86	Realistic	Kenwood 1313, 1570, 1569,
Tandy	SKY	LXI
TeleCaption	STS	Linn
Teleview	Samsung	Lloyd's
Timeless	Sony	MCS
Tocom	Star Choice	Magnavox 1189, 1269, 0189, 0195,
Torx	Star Trak 0180, 0421, 0547	0391, 0531
Toshiba	Strong	Marantz 1189, 0039, 0189, 1269
Tristar	Tivo 1142, 1442, 1443, 1444	Mitsubishi
Tusa0015	Toshiba0749, 1749, 0790,	Modulaire0195
Unika0022, 0153		Musicmagic
Universal 0022, 0153, 0191	1054, 1285, 1286, 1287, 1289	Nakamichi 0097
V2	Town & Country	Onkyo 0135, 0842
ViewMaster	Uniden 0724, 0722, 0052, 0074,	Optimus 1023, 0042, 0080, 0177,
Viewstar		
Vision	Zenith 0856, 1856, 0061, 0064	
Vortex View	AMBUIEER RRANK CORE	Panasonic 1518, 0039, 0309, 0367
Zenith 0000, 0054, 0525, 0899	AMPLIFIER BRANDCODE	Penney
Zentek	Aiwa	Philips 1189, 1269, 0189, 0391, 1120
CATELLITE DRAND (Cot Ton Boy)	Bose	Pioneer
SATELLITE BRAND (Set-Top-Box)	Carver	
CODE AlphaStar0772	Denon	Polk Audio
Amway	Durabrand	Quasar
Astro Industries	GE	RCA
BSR	Harman/Kardon	
Cable Innovations	JVC0331	Radio Shack
Capetronic	Left Coast	Realistic0181, 0195
Century	Lenoxx1561	Rio
Channel Master0018, 0212	Linn	Sansui
Chapparral 0053, 0209, 0216	Luxman 0165	Sanyo
Conifer	Magnavox 0269	Scott 0163, 0322
Crossdigital	Marantz 0269, 0321, 0892	Sharp0186
Curtis Mathes	NEC	Sharper Image
DX Antenna	Nakamichi	Sherwood 0491, 0502
DirecTV 0392, 0566, 0639, 1639, 1142,	Optimus	Sonic Blue
0247, 0749, 1749, 0724, 0819,	Panasonic	Sony
1856, 1076, 1109, 0099, 1052,	Parasound	
Dish Network System 1005, 0775, 1170	Philips	Soundesign
Dish Network System 1005, 0775, 1170	Pioneer	Stereophonics
DishPro	Polk Audio	Sunfire
Echostar	Realistic	Technics 1308, 1518, 0039, 0309
	Sansui	Thorens
Expressvu	Shure	Toshiba
GE	Sony	Victor
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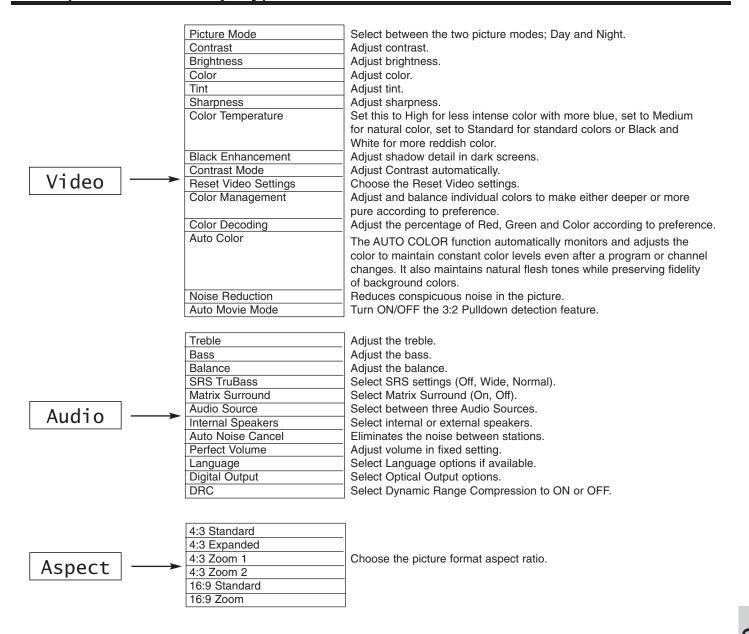
Wards0014, 0080, 0158,	0190
Yamaha 0176, 0186,	
Yorx	
Zenith	
Zeriitir	0657
AUDIO BRANDC	ODE
Aiwa0010,	
AudioSource	
Cambridge Soundworks	
Carver	
Fisher	0052
Fosgate	
Harmon/Kardon	
JBL	0477
JVC	
KLH	
Magnavox	0325
Nikko	
Paramount Pictures 0317,	0351
RCA	
SSI	
Sansui	
Schneider	0376
Sony	0576
Soundesign	
Yorx	0376
SET TOP BOX BRAND C	
Panasonic	
Pioneer	
Princeton 0113,	0295
Samsung	
Sensory Science	
Sharp	
Sony	0639
PERSONAL VIDEO RECORDER	
BRANDC	
Panasonic	
Philips	0618
ReplayTV0614,	0616
SonicBlue	
Sony	
Tivo	0636

- 1. Press MENU on the remote control to display the different features on your HITACHI Plasma TV.
- 2. Use the CURSOR PAD to navigate to a different menu item.
- 3. Press EXIT on the remote control to quickly exit from a menu.
- 4. Press the A/V NET button on the remote control to access the AV Network menu to control external components.

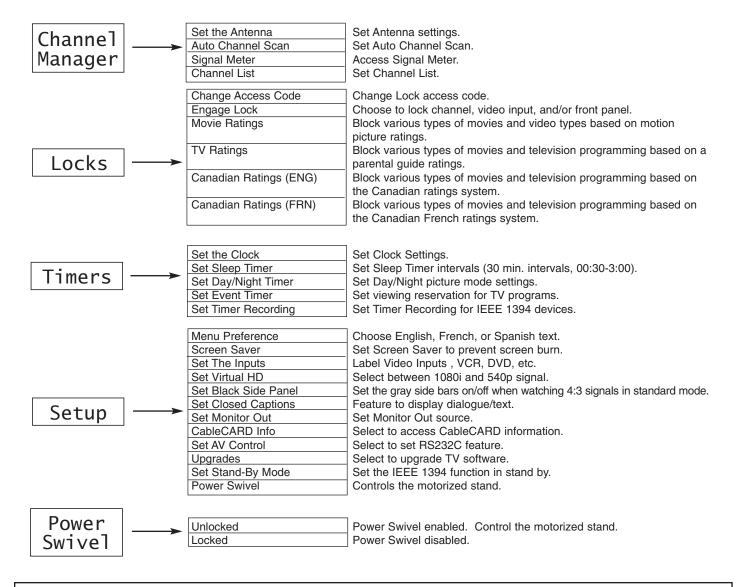




OSD (On-Screen Display)



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



NOTES:

- 1. The Signal Meter feature of the Channel Manager OSD is only available for Digital signals.
- 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 Audio Video Control Center (AVC).

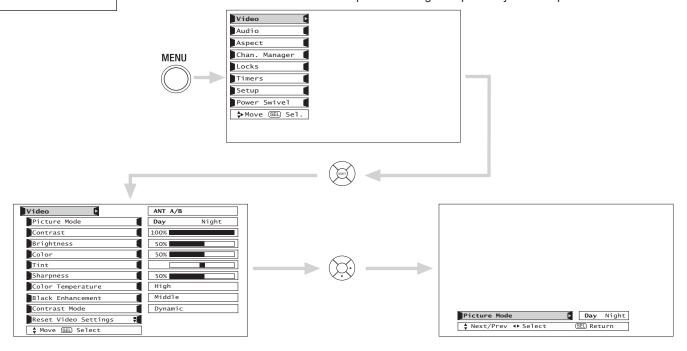
VIDEO

Video

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

Picture Mode

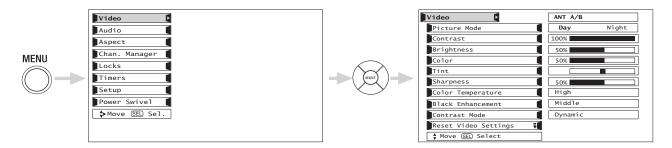
Use this function to choose from automatic picture settings to optimize your TV's performance.



Use CURSOR PAD ◀ or ▶ to highlight and select Picture Mode settings.

Function	42" Da	ay 55"	Night	Reset
Contrast	100%	100%	91%	Reset the video
Brightness	50%	50%	53%	menu settings on
Color	50%	50%	25%	current input to the
Tint	50%	50%	50%	Day or Night
Sharpness	50%	50%	40%	conditions depending
Color Temperature	High	50%	Standard	on the selected
Black Enhancement	Middle	Low	Low	VIDEO mode.
Contrast Mode	Dynamic	Dynamic	Normal]
Auto Color	Off	Off	Off]
Noise Reduction	Off	Low	Off	
Color Management (Set User Colors)	Off	Off	Off	
Auto Movie Mode	Off	Off	On	1
(TV/Cinema Detection)				

Press EXIT to quit menu or select PICTURE MODE to return to previous menu.



Use the CURSOR PAD ▲ or ▼ to highlight the function to be adjusted.

Press down on CURSOR PAD to select the function settings.

Press the CURSOR PAD ◀ or ▶ to adjust the function.

Press MENU to return to main menu.

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.

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

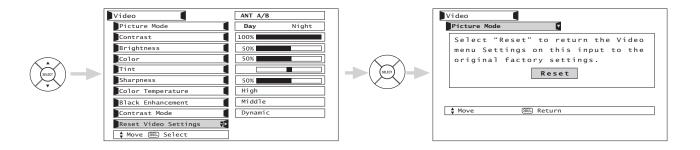
Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.

- NOTES: 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.

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.

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.



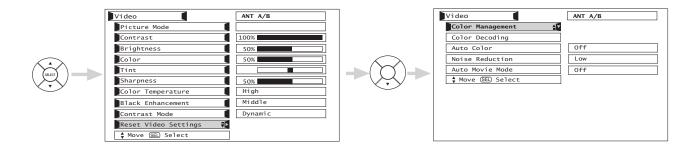
Use CURSOR PAD to highlight functions.

Press the SELECT button to select Reset Video Settings.

Use the CURSOR PAD ▼ to access other video settings.

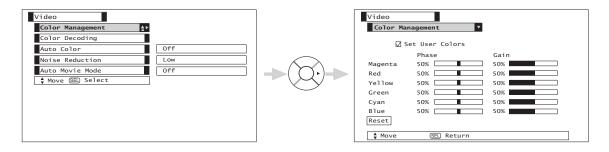
You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If RESET is selected, only the selected Input will reset to the initial conditions as explained above.

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



Color Management

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



Use the CURSOR PAD to highlight function.

Press the SELECT button to select User Colors setting. When the function has a "\" in the box, it is ON.

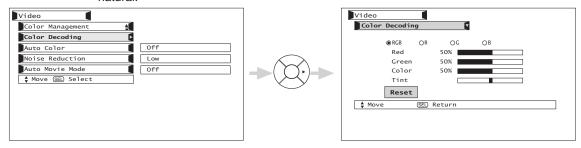
Press the CURSOR PAD ◀, ▶, ▼, ▲, to highlight and adjust individual colors.

Use the CURSOR PAD to highlight and select "Reset" to return all colors to default settings.

NOTE: When the Set User Colors box is not checked , the listed colors will be grayed out.

Color Decoding

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



Use CURSOR PAD to highlight function.

Press down to select from 4 menu items.

Press CURSOR PAD ◀, ▶, ▼, ▲, to highlight and adjust Red, Green, Color and Tint. Use CURSOR PAD to highlight and select "Reset" to return all settings to default.

NOTE: Color Decoding settings are independently stored in each of the 4 Color Temperature settings.

Auto Color

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

NOTE: When using Component or DVI-HDTV input, Auto Color will not be available (grayed out).

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 turns 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.

NOTES: 1. When using Progressive Scan Component or HDMI OR DVI input (Ex. 480p, 720p), Auto Movie Mode will not be available (grayed out). Please see table below for additional information.

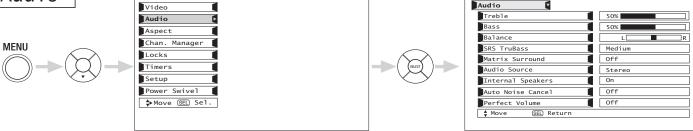
	ANT A/B, VIDEO, 480i	480p/720p/1080i
55"	AVAILABLE	GRAYED OUT
42"	AVAILABLE	GRAYED OUT

2. All Video settings are independent of each other based on it's input (ANT A/B, Input 1~5, Photo Input).

AUDIO

Audio

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



Press CURSOR PAD ▲, ▼, to select menu item.

Press CURSOR PAD ◀ or ▶ to adjust the function.

Press EXIT to guit 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.

Balance

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

SRS(O)

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.

NOTES:

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

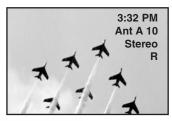
Matrix Surround

The Matrix Surround features the spacious sound effects of a stadium that can be turned ON or OFF.

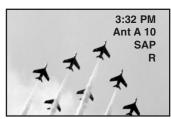
Audio Source

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or 2nd Audio Prog (SAP) which may be a secondary language, weather report, etc. The sources received will be displayed at the top right edge of the TV. The source you select will be displayed above the sources received. See example below for each selection when both stereo and second audio are received (monaural is always received).

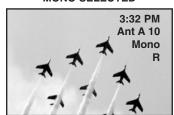
STEREO SELECTED



SAP SELECTED



MONO SELECTED



Internal Speakers

This function is useful when setting up the external speakers. If you prefer to use only speakers from a separate stereo system, turn this feature OFF. When set to OFF, the Plasma TV speakers and the sub-woofer output are OFF. Also, set to OFF, if you prefer to use only your head-phones.

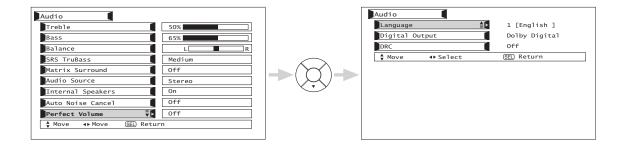
Auto Noise Cancel

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.

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



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).

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).

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

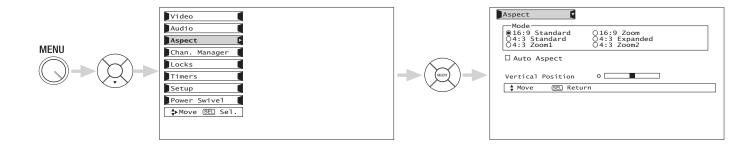
DRC

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 ◀, ▶ to select the chosen options.

NOTE: These functions are only available when viewing digital programs.

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.

Press CURSOR PAD ▲, ▼, to select menu item.

Press down on CURSOR PAD to select. A "\" in the box indicates that the feature is ON.

NOTES:

- 1. The Auto Aspect function is recommended on an input signal with VIDEO ID.
- 2. The Auto Aspect function is best used on composite video, S-Video, and 480i component signals.
- 3. See page 22 for Aspect Mode availability.

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 center is toward top of screen).

Press CURSOR PAD ▲, ▼, to select menu item.

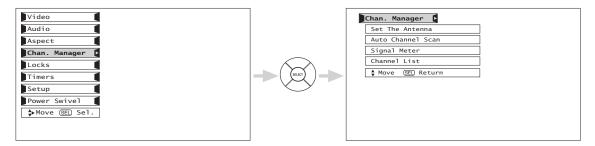
Press CURSOR PAD ◀ or ▶ to adjust the function.

Press 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.

Chan. Manager

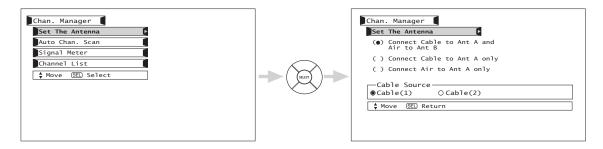
Select Channel Manager to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.



Press CURSOR PAD ▲, ▼ to highlight function, the press the SELECT button to select.

Set The Antenna

This feature will select Antenna options.

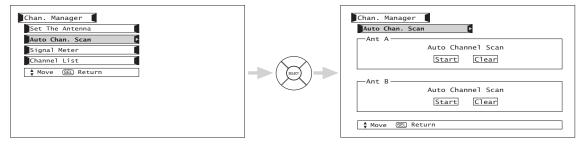


Press CURSOR PAD ▲, ▼ to highlight function, the press the SELECT button to select.

NOTE: When a CableCARD is installed, antenna settings will be set automatically to "Connect Cable to Ant A only".

Auto Channel Scan

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



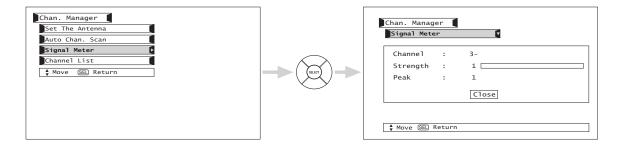
Press CURSOR PAD \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright to highlight Ant A or Ant B. Press CURSOR PAD \blacktriangleleft , \blacktriangleright to highlight the Start or Clear option. Press the SELECT button to start Auto Channel Scan.

NOTE: 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.

CHANNEL MANAGER

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.

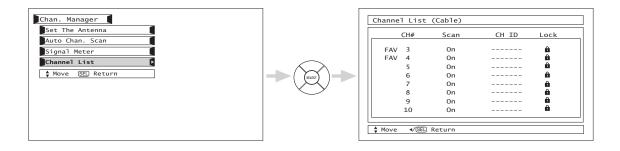


Use the CURSOR PAD and the SELECT button to highlight and select "close" to exit.

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

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.



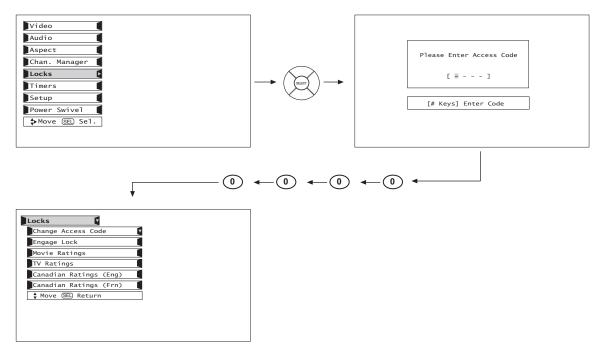
Use the CURSOR PAD to navigate the Channel List. Press the CURSOR PAD $(\blacktriangle, \blacktriangledown)$ to select On or Off on the Scan column. Press the EXIT button to return to normal viewing.

NOTE: When a CableCARD is installed, the Channel List will be dependent on channels agreed upon by you and your cable operator.

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 ▼ to highlight function and then press the SELECT button. To change the access code number, select Change Access Code. Enter a new four digit number.

Select CHANGE ACCESS CODE to change the factory preset code (0000) to your preference.

When ENGAGE LOCK is selected, SET CHANNEL LOCK, SET INPUT 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 SET INPUT LOCK is turned on, the picture and sound for all video inputs and the picture and sound for channels 3, 4 will be blocked out.

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

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. Picture-in-Picture will also be blocked automatically (see page 63).

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 64).

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 65-66).

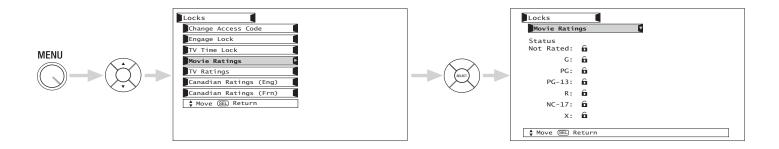
If you forget your access code, use the factory code 7777 to erase your key number. This will reset the access code number back to the factory preset 0000.

Press EXIT to quit the menu.

NOTE: If MOVIE/TV Ratings Lock function settings are ON, SURF will be deactivated.

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 ▼ to select the MOVIE RATING category that you want to block.

Press SELECT to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17, and X) will be blocked.

Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.

Motion Picture Ratings Chart

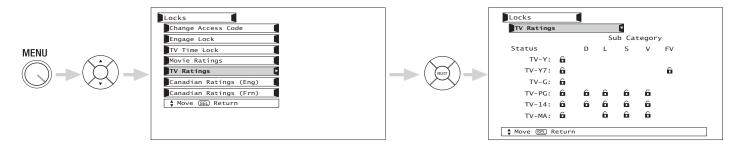
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and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

NOTES:

- 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 (NR)" 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 Projection Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the Locks feature, you will not be able to tune to that channel.

TV Ratings

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



Use the CURSOR PAD \blacktriangle or \blacktriangledown to highlight the category that you want to block. Press select to block the TV RATINGS that you have selected.

Press EXIT to quit the menu or select TV RATINGS to return to the previous menu.

TV Parental Guide Ratings Chart

N/A	None.
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.

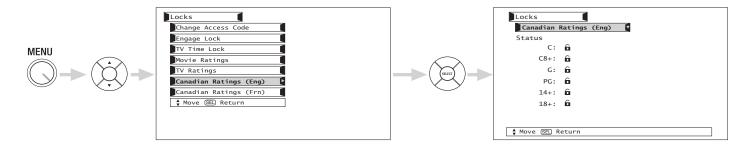
NOTES:

- If you Block TV-14D, you will still permit TV MA programs; If you block TV-14DV, 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.
- 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 Projection 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.



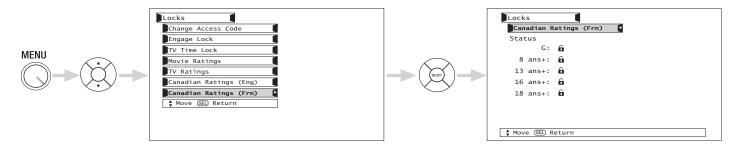
Use the CURSOR PAD ▲ or ▼ to select the CANADIAN RATINGS (Eng) category that you want to block. Press SELECT to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked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

Canadian Ratings English Chart

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.	

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 ▼ to highlight the category that you want to block.

Press SELECT to set 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 automatically blocked.

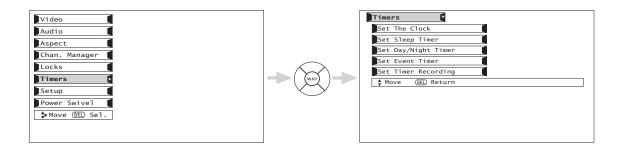
Press EXIT to quit menu or select the CURSOR PAD ◀ to return to the previous menu.

Canadian Ratings French Chart

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

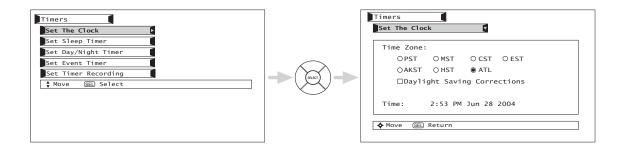
Timers

Select Timers to set your Clock, Sleep Timer, Event Timer and Day/Night Timer Recordings.



Set The Clock

The Clock must be adjusted before you can use the "Set Event Timer" or Day/Night Timer" feature.



Use the CURSOR PAD \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright to highlight the chosen Time Zone settings. Press the SELECT button to select.

If you observe daylight savings, use CURSOR PAD to highlight "Daylight Saving Correction" and press the SELECT button to select.

Use the CURSOR PAD ▲, ▼, ◄, ▶ to highlight the current time (hour and minute), AM or PM, Month, Day, and Year.

Use the CURSOR PAD ▲, ▼ to adjust settings.

Press the SELECT button to set the Time and Date.

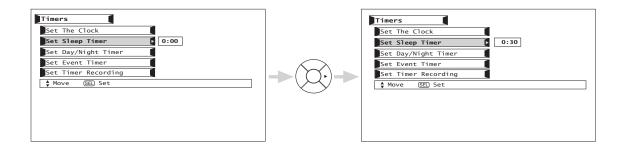
Press EXIT to quit the menu.

NOTES:

When "Daylight Saving Correction" is checked "\scriv", the TV will automatically calculate the clock adjustment for Daylight Saving.

Set Sleep Timer

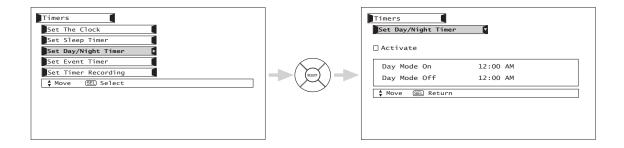
Select this feature to set your Sleep Timer from 30 minutes to 3 hours (30 minute increments).



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.



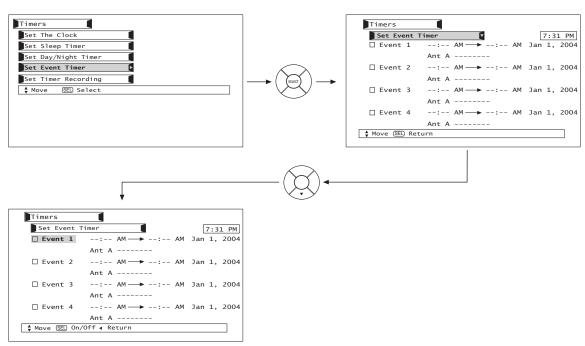
Use the CURSOR PADS and the SELECT button to activate the Day/Night Timer. Use the CURSOR PADS to select Day Mode On and to set it's timer.

Use the CURSOR PADS to select Day Mode Off and to set it's timer.

Set Event Timer

This function will automatically operate the TV viewing reservation of a program. If the clock is not set, you can not use this function and the screen below will appear. The message on the screen will disappear after 3 seconds, then the screen automatically goes to the clock setup mode (see page 67).





Use CURSOR PAD ▲, ▼ to highlight Event 1, Event 2, Event 3, Event 4 and then press the SELECT button to select.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select START TIME Hour/Minute.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select START TIME AM/PM.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select FINISH TIME Hour/Minute.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select FINISH TIME AM/PM.

Use CURSOR PAD ▶ to highlight the MONTH.

Use CURSOR PAD ▲ to select a MONTH or CURSOR PAD ▼ to select Daily, Weekly - Sunday to Monday. Use CURSOR PAD ◀ to return to MONTH.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select the DAY of the MONTH.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select the YEAR.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select Ant A or Ant B.

Use CURSOR PAD \blacktriangleright , \blacktriangle , \blacktriangledown or NUMBER buttons to set the channel the TV will tune into.

A " $\sqrt{}$ " in the box means it is enabled.

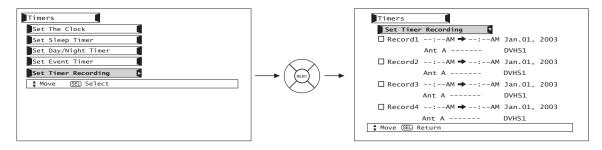
NOTE:

- 1. When the INFO button is pressed, the Event Timer Icon will only display the current date ON/OFF timer.
- 2. The Off Timer will only activate if the TV was turned on by the On Timer and no channel selection was made after this time. If you change the channel after the On Timer has been activated, the Off Timer will deactivate.
- 3. If no remote control button is pressed after viewing reservation is activated, the TV will automatically turn off after three hours. Therefore, do not Set Event Timer for more than three hours if you do not plan to control your television with the remote control.



Do not use your TV as a deterrent when away from home by using the On and Off Timers. For safety, the TV should be turned off when you are away from home.

Set Timer Recording Select this feature to set and record digital channels using your device connected to the IEEE 1394 jacks (ex. D-VHS).



Use CURSOR PAD ▲, ▼ to highlight Record 1, Record 2, Record 3 and then press CURSOR PAD to select.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select START TIME Hour/Minute.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select START TIME AM/PM.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select FINISH TIME Hour/Minute.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select FINISH TIME AM/PM.

Use CURSOR PAD ▶ to highlight the MONTH.

Use CURSOR PAD ▲ to select a MONTH or CURSOR PAD ▼ to select Daily, Weekly - Sunday to Monday. Use CURSOR PAD ▲ to return to MONTH.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select the DAY of the MONTH.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select the YEAR.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select ANT C channel # to be recorded.

Use CURSOR PAD ▶, ▲, ▼ to highlight and select 1394 Device to be used.

Press the SELECT button to return and highlight Record 1.

A " $\sqrt{}$ " in the box means it is enabled.

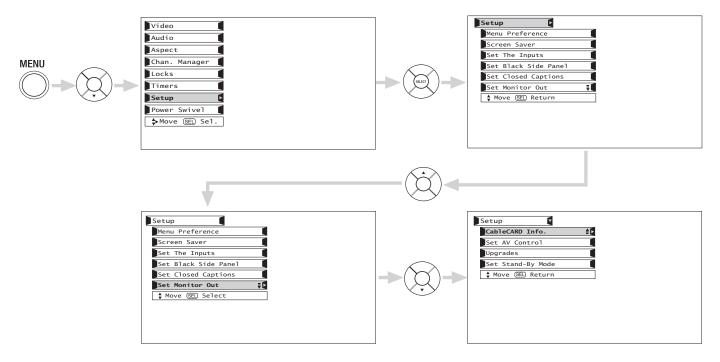
NOTES:

- 1. Set the Time and connect the IEEE1394 devices before using this feature.
- The Timer Recording has priority over the Event Timer. If the Timer Recording is set at the same time as the Event Timer or overlaps with each other, the TV will only perform the function of the Timer Recording.

SETUP

Setup

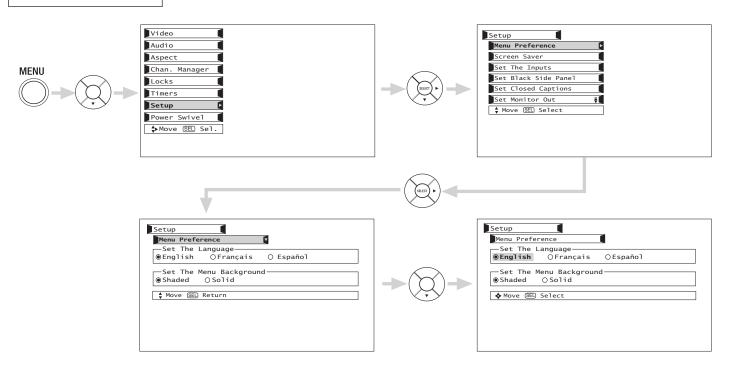
Select SETUP when setting up your TV for the first time. Use the CURSOR PAD \blacktriangle or \blacktriangledown on the remote to highlight the function desired.



Use CURSOR PAD $(\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright)$ to select the sub-menu of your choice. Press the SELECT button to select.

Menu Preference

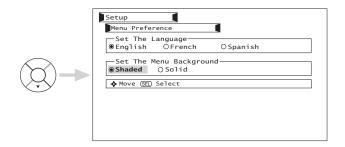
This feature will allow you to select any one of three different languages for all on-screen displays.



Use CURSOR PAD ◀, ▶ to highlight the language of your choice. Press SELECT to select the highlighted language. Press EXIT to quit the menu.

Menu Background

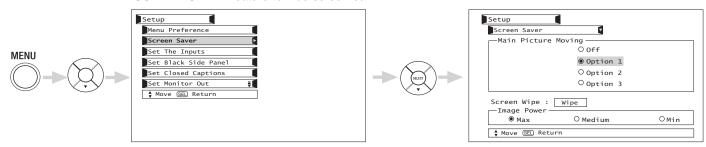
This function allows you to choose from two menu backgrounds.



Use CURSOR PAD ◀, ▶ to highlight SET THE MENU BACKGROUND (shaded or solid), and the SELECT button to select the setting. Press EXIT to quit the menu.

Select SOLID and background is visible (no picture can be seen behind menu screen), select SHADED and a light background is visible.

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 ▲ , ▼ to highlight Screen Saver's Main Picture Moving options. Press down on CURSOR PAD to select and EXIT to quit.

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.

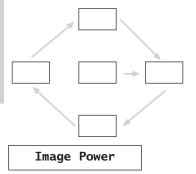
Option 3

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

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. Press the EXIT button to return to normal viewing.

Screen Saver Picture's Movement

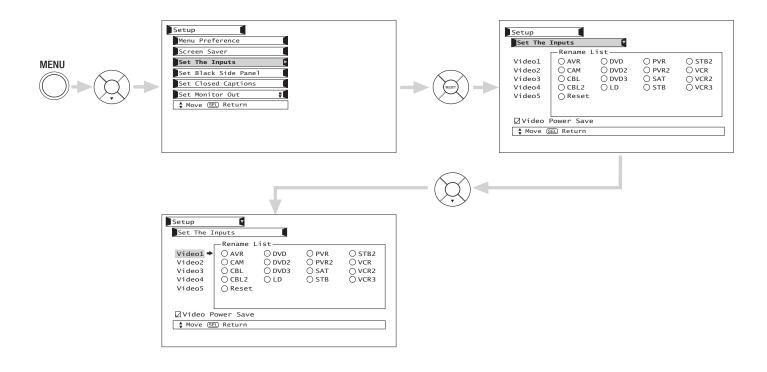


This function allows you to choose Power Consumption reduction.

SETUP

Set The Inputs

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



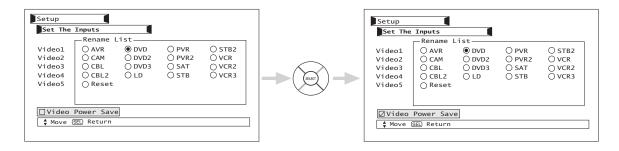
Press CURSOR PAD ▲, ▼ to highlight the name of the video inputs. Press the SELECT button to select desired input name.

Select RESET to set video names to original factory preset condition.

NOTE: The video input name will be displayed only when video input is displayed as main picture.

Video Power Save

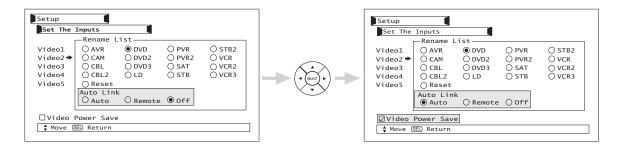
Use this feature to reduce power consumption for video input when there is no video input signal. In RGB mode, this feature will always be on.



Press CURSOR PAD ▼ to highlight VIDEO POWER SAVE. Press the SELECT button to select.

Video 2 Auto Link

Use this function to automatically turn the TV on and tune to Video 2 when it detects a video signal to input 2.



Use CURSOR PAD ▲, ▼, ◄, ▶ then press the SELECT button to change AUTO LINK setting.

When AUTO is selected, the TV will turn on and switch to Video2 automatically, when the Video2 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player, or DVD player.

When REMOTE is selected, the TV will turn on and switch to Video2 automatically when the Video2 input device is turned on (VCR, laserdisc, or DVD) and any of the buttons on your remote control is pressed.

Select Off to disable this function.

Press EXIT to quit the menu.

NOTES: 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 Black Side Panel

The BLACK SIDE PANEL function turns the gray side bars on/off when watching 4:3 signals in Standard mode.

Setting Signal	Off	On	Auto 1	Auto 2	Recomended Aspect
NTSC/480i/480p Aspect: 4:3 standard	Gray	Black	Gray	Gray	4x3 Expanded
1080i (4x3 source) Aspect: 16:9 standard	Black	Black	Gray	Gray	4x3 Expanded
1080i (4x3 source with logo on corner Aspect: 16:9 standard	Black	Black	Black	Gray	4x3 Expanded

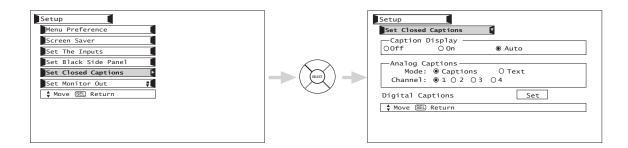
NOTES:

- 1. To prevent screen burn when watching 4:3 signal, turn off the BLACK SIDE PANEL. It is recommended to watch 4:3 signal with gray side bar.
- 2. Depending on received signals, some images and Closed Caption displays may be missing when the Black Side Panel is set to Auto 1 or Auto 2.

SETUP

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



Caption Display: On/Off will turn the CC display on or off.

Auto will turn the CC display on when Mute/Soft Mute is on.

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 **CC** program.

CHANNEL: 1 is used for the primary language (usually English).

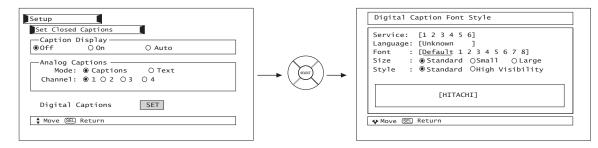
2 is sometimes used for a second language (may vary by region).

3 is sometimes used for a third language (may vary by region).

4 is sometimes used for a fourth language (may vary by region).

Use the CURSOR PAD \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright to highlight the function to change then press the SELECT button to select the function. Press EXIT to quit menu or the CURSOR PAD \blacktriangleleft to return to previous menu.

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 \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright to highlight desired Digital Captions feature.

Press the SELECT button to select desired feature.

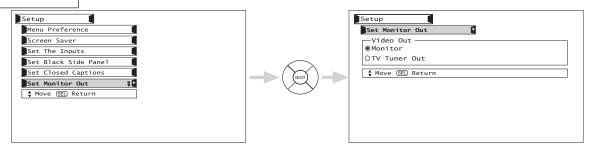
Press EXIT to guit menu or the CURSOR PAD ◀ to return to previous menu.

NOTES:

- 1. Depending on the source, some types of digital closed captions may 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 (ANT A, ANT B, VID1-VID5) to a VCR or other A/V device.

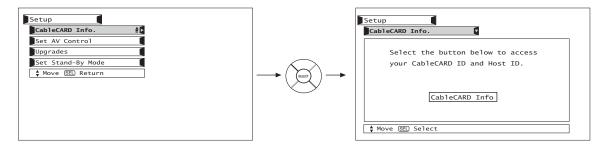
TV Tuner Out- Select TV Tuner Out to output the audio and video signals of the last watched Antenna Source (ANT A, ANT B).

Use CURSOR PAD ▲, ▼ to highlight the function to change then press the SELECT button to select the function.

Press EXIT to guit menu or CURSOR PAD ◀ to return to previous menu.

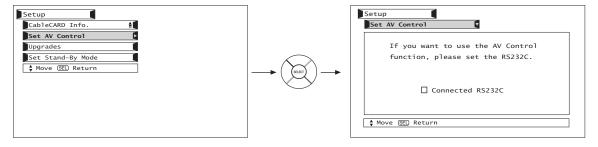
CableCARD Info

Select this feature to access your CableCARD ID and HOST ID. Please have this information ready when you call your cable operator (see also page 13).



Set AV Control

This feature will select the AV Control feature. Set this feature if you want to control some of the TV functions from an external home control system.



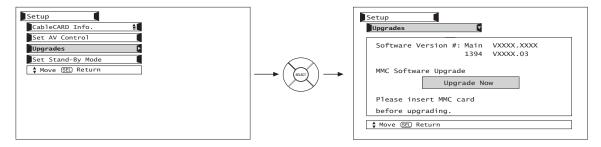
Use the CURSOR PADS and the SELECT button to check the Connected RS232C box.

NOTE: For use with third party home Audio/Video control systems which are commercially available. Please see your dealer regarding these "non Hitachi" home control systems.

SETUP

Upgrades

It 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.



Insert MMC card, then press the CURSOR PAD ▲, ▼ to highlight "Upgrade Now". Press the SELECT button to select and start upgrading.

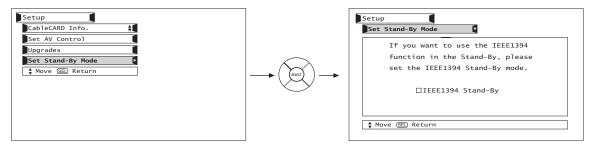
procedure.

NOTE:

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

Set Stand-By Mode

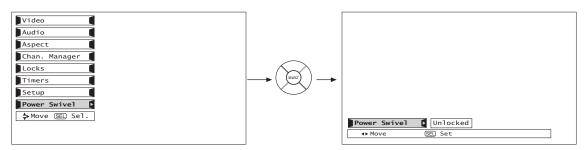
This function sets the IEEE1394 in Stand-By Mode to ON or OFF. Certain digital devices have a power save feature, in which the device automatically powers OFF when not in use (sleep mode). Only by setting the IEEE1394 function in Stand-By mode to ON, will the TV be able to control a device that is in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



NOTE: By turning ON the IEEE1394 function, your TV set will no longer be set for power saving Stand-By mode. The IEEE1394 Stand-By function must be set to OFF to return your TV set to the 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 optional for the 55" model.



Exit OSD menu system before controlling the motorized stand.

Use CURSOR PAD ▶ to rotate the TV to the right.

Use CURSOR PAD ◀ to rotate the TV to the left.

Release the CURSOR PAD to stop rotation.

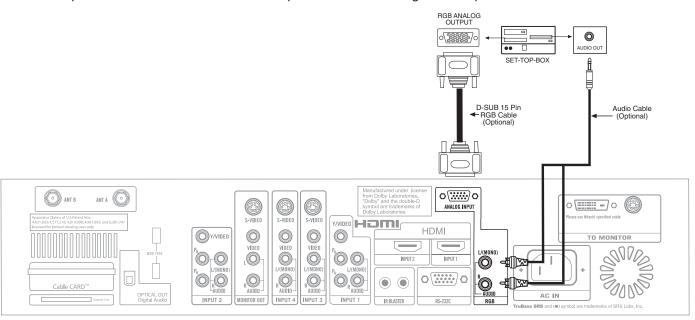
NOTES:

- 1. The Power Swivel has a maximum turning radius of 30° (left and right).
- 2. Do not place any objects on the path of the monitor when using the power swivel feature.
- 3. Before using the power swivel feature, 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.



IMPORTANT: TURN OFF THE AVC BOX, THE DISPLAY MONITOR AND THE EXTERNAL COMPONENT BEFORE CONNECTING OR DISCONNECTING ANY CABLES.

AVC rear panel connection to an external component with an analog RGB output.



This Plasma Television can automatically detect and display the signal format below.

RGB input signal.
 This Plasma Television can accept the following signal formats.

Recommended Signal List

	Signal Mode			
Na			Vertical	Horizontal
No.	Signal Name	Resolution	Frequency (Hz)	Frequency (kHz)
1	VESA	640 x 400	70.09	31.47
2	VGA	640 x 480	59.94	31.47
3		640 x 480	72.81	37.86
4		640 x 480	75.00	37.50
5		800 x 600	56.25	35.16
6		800 x 600	60.32	37.88
7	VESA	800 x 600	72.19	48.08
8		800 x 600	75.00	46.88
9		1024 x 768	60.00	48.36
10		1024 x 768	70.07	56.48
11		1024 x 768	75.03	60.02
12		1280 x 1024	60.02	63.98
13		1280 x 1024	75.03	79.98
14	1080i	1080	59.94	33.72
15	720p	720	59.94	44.96
16	480p	480	59.94	31.47

NOTE: 1. Dots correspond to the true resolution in Real Mode of aspect ratio, when you select VGA 640 x 480 signal from the table above. (One dot corresponds to one pixel). In addition, XGA (1024 x 768) and SVGA (800 x 600) for 55".

Always reset AUTO ADJUST feature when setting new display setting or when changing to a new computer (see page 85).

RGB ON SCREEN DISPLAY



- 2. The new setting (horizontal position, vertical position, clock, and phase) of the signal will be stored. The monitor can store up to 13 settings in addition to the 15 pre-set signal timing. Any additional new settings (more than 15) will over-write the first user's setting, second setting and so on.
- 3. Operation in RGB mode in relation to TV functions are shown below.

No.	Item	Operation
1	Video Control	Contrast and brightness work separately, however, other picture controls
		are not available.
2	AV Net	Available.
3	Audio Settings	Not available.
4	Closed Caption	Not available.
5	Clock	Clock indication is shown.
6	Monitor Out	Both picture and audio are not available.
7	Lock	Not available.
8	Auto Link	Not Available.



- 4. Other signal formats may not be displayed correctly. Use AUTO ADJUST to automatically adjust the horizontal position, vertical position, clock, and phase. We recommend you use a signal, which has more than 50% of amplitude of white area at each corner of the picture, when performing Auto Adjustment. It may not work correctly with dark picture (see page 85).
- 5. Input signal level.

SYNC	TTL level H/V separate signal
RGB INPUT	0.7Vpp/1.0Vpp

NOTE: Interlaced signal is not available.

6. RGB input signal will not appear at all when receiving a signal which is not supported by this product. If the setting is wrong, the Display Monitor will display:

NO SYNC. SIGNAL

INVALID SCAN FREQ.

Without sync

POWER SAVING mode will come on after 10 seconds.

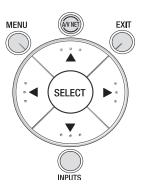
Either horizontal or vertical frequency is inappropriate or out of range.

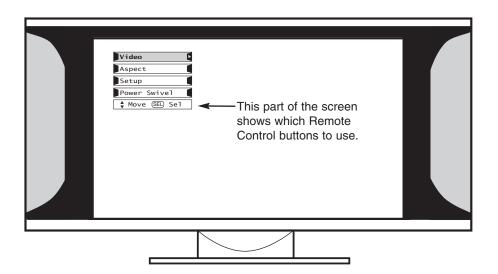
INVALID SCAN FREQ. will disappear after 60 seconds.

- **NOTE:** 1. If the Display Monitor cannot display a signal, please try AUTO ADJUST to display the signal. This is used to initialize the MultiScan Converter.
 - 2. Not all signals have AUTO ADJUST feature (see page 85).
 - 3. Set-Top-Box and DVD player input signal does not have AUTO ADJUST feature.

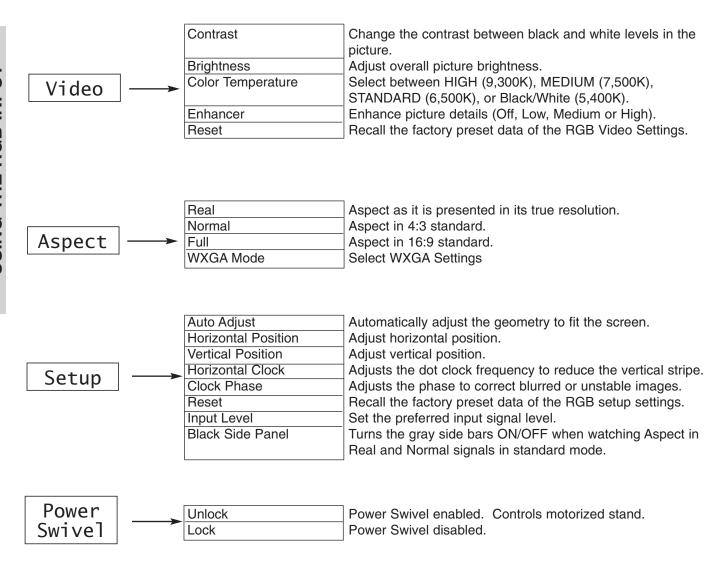


- 1. Press the INPUTS button, then use the CURSOR PAD and SELECT button on the remote control to display the different features in RGB MODE.
- 2. Press EXIT on the remote control to quickly exit from a menu.









RGB ON SCREEN DISPLAY



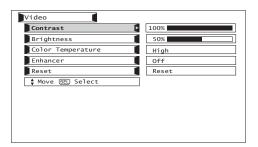
VIDEO ADJUSTMENTS

The following adjustments are independent of the TV mode:

- •Press MENU in RGB mode for on screen display.
- •Press CURSOR PAD ▲ or ▼ to highlight the item to be adjusted.
- •Press SELECT to select the highlighted item.

CONTRAST

This feature allows you to adjust the contrast in RGB mode.



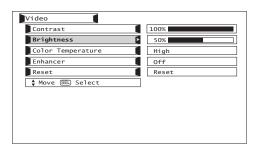
Use CURSOR PAD ◀ or ▶ to adjust contrast. Press MENU button to return to RGB MODE MENU and EXIT to quit.

NOTES:

- 1. Contrast can be set up to 110% if CURSOR PAD ▶ is pressed and held for more than 3 seconds.
- 2. See TV contrast feature for additional information regarding contrast.

BRIGHTNESS

This feature allows you to adjust brightness in RGB Mode.

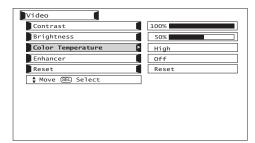


Use CURSOR PAD ◀ or ▶ to adjust brightness.

Press MENU button to return to RGB MODE MENU and EXIT to quit.

COLOR TEMPERATURE

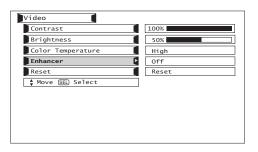
Use the CURSOR PAD ◀ or ▶ to change the COLOR TEMPERATURE. Set to HIGH for a cooler picture with more blue (1,200K), set to MEDIUM for more natural color (9,300K), or set to STANDARD for accurate color (6,500K), or Black/White (5,400K).





ENHANCER

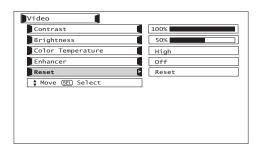
Enhances the picture detail.



Use CURSOR PAD ◀ or ▶ to set ENHANCER Off, Low, Medium or High. Press SELECT button to ACCEPT and EXIT to quit.

RESET

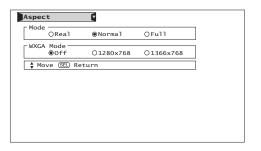
Set CONTRAST, BRIGHTNESS, COLOR TEMPERATURE, and ENHANCER to factory preset condition.



Use CURSOR PAD ◀ or ▶ to highlight Reset. Press the SELECT button to RESET to factory preset settings.

ASPECT

Use this function to select the picture format aspect ratio while using RGB input.



Use CURSOR PAD to highlight chosen selections. Press SELECT button to set and EXIT button to quit.

Recommendation

Input Signal	Mode	WXGA Mode
XGA	Normal	Off
WXGA (1280x768)	Full	1280x768
WXGA (1366x768)	Full	1366x768

RGB ASPECT DISPLAY MODE.

	RGB (Ana	log) INPUT SIGN	NAL			
	Others	SVGA/XGA(4)	VGA	480p	720p	1080i
ASPECT	Х	REAL	REAL	REAL(1)	Х	Х
MODE	NORMAL	NORMAL	NORMAL	NORMAL(1)	Х	Х
AVAILABILITY	FULL	FULL	FULL	FULL(1)	FULL(2,3)	FULL(2,3)

For numbers in (), please see corresponding note below.

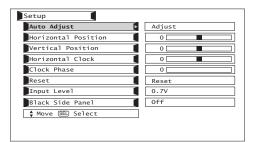
NOTES: 1. Lack of raster can be seen in RGB when a 480p signal is input.

- 2. AUTO ADJUST function (see page 85) is not available in 720p, 1080i, and 480p input signal.
- 3. FULL aspect mode, only 95% of information can be displayed (5% is treated as overscan).
- 4. 55" Model only.



AUTO ADJUST

HORIZONTAL POSITION, VERTICAL POSITION, HORIZONTAL CLOCK and CLOCK PHASE for current RGB format are adjusted automatically.



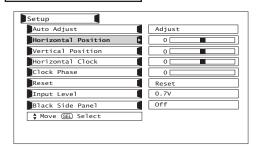
Use CURSOR PAD ◀, ▶ cursors to highlight adjust. Press SELECT to select AUTO ADJUST.

NOTES: Press SELECT to AUTO ADJUST the RGB mode.

- The other functions do not operate while AUTO ADJUST is in progress.
- Allow the Plasma TV to warm up for 20 minutes before performing AUTO ADJUST.
- Select a bright image for display while AUTO ADJUST takes place.
- If AUTO ADJUST terminates unsuccessfully, try AUTO ADJUST again. If AUTO ADJUST fails several times in succession, try using manual adjustment to adjust Vertical Frequency, Aspect Ratio, Timing Frequency and Picture.
- Always reset AUTO ADJUST when setting new display setting or when changing to a new external component.

H POSITION

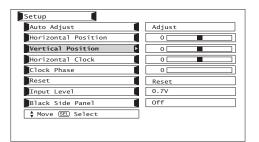
This feature allows you to adjust the horizontal position of the display.



Use CURSOR PAD ◀, ▶ to adjust the horizontal position. Press the MENU button to return to previous menu item. Press EXIT to quit.

V POSITION

This feature allows you to adjust the vertical position in RGB mode.



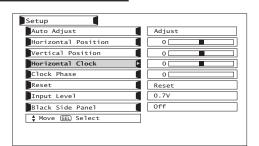
Use CURSOR PAD ◀, ▶ to adjust the vertical position.

Press MENU button to return to previous menu item. Press EXIT to quit.



HORIZONTAL CLOCK

Adjusts the pixel clock frequency to reduce the vertical stripe.



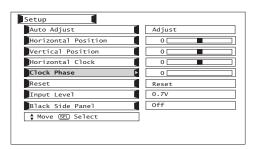
Use CURSOR PAD ◀, ▶ to adjust the horizontal clock. Press the MENU button to return to previous menu. Press EXIT to quit.

NOTE:

Due to varying signal content, you may see vertical or horizontal lines bend occasionally in RGB mode. However, this phenomenon is not a defect. It's caused by a lack of picture content due to under-scanning in RGB mode.

CLOCK PHASE

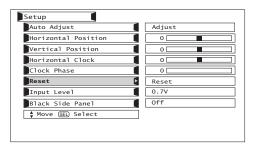
Adjusts the phase to correct blurred or unstable images.



Use CURSOR PAD \blacktriangleleft , \blacktriangleright to adjust the clock phase. Press the MENU button to return to previous menu item. Press EXIT to quit.

RESET

Set HORIZONTAL POSITION, VERTICAL POSITION, HORIZONTAL CLOCK and CLOCK PHASE to factory preset, for current RGB format.

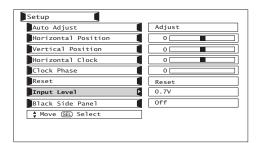


Use CURSOR PAD ◀, ▶ to highlight Reset.
Press the SELECT button to RESET to factory preset settings.



INPUT LEVEL

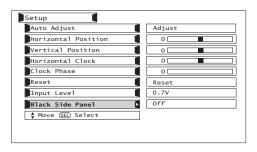
Select the Input Level voltage between 0.7V and 1.0V.



Use CURSOR PAD ◀, ▶ to select between 0.7V and 1.0V depending on the amount of brightness in the picture.

BLACK SIDE PANEL

The BLACK SIDE PANEL function turns the gray side bars ON/OFF when watching Aspect in Real and Normal signals in Standard Mode.

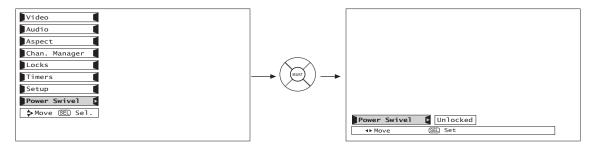


Press the SELECT button to select BLACK SIDE PANEL ON/OFF.

NOTE: To prevent the plasma phosphor from burning when watching Aspect in Real and Normal signal, turn off the BLACK SIDE PANEL. It is recommended to watch 4:3 signal with gray side bar.

POWER SWIVEL

This feature controls the motorized stand. It allows the customer to turn the plasma display left or right using the remote control.



Exit OSD menu system before controlling the motorized stand.

Use CURSOR PAD ▶ to rotate the TV to the right.

Use CURSOR PAD ◀ to rotate the TV to the left.

Release the CURSOR PAD to stop rotation.

NOTES:

- 1. The Power Swivel has a maximum turning radius of 30° (left and right).
- 2. Do not place any objects on the path of the monitor when using the power swivel feature.
- 3. Before using the power swivel feature, 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.



CARE OF YOUR HITACHI PLASMA DISPLAY AND YOUR REMOTE CONTROL

DO

Dust the screen and frame with a cleaning cloth from the accessories pack.

Clean the screen and frame 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 (AVC Center/Display Monitor) 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 physical 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 remote control unit to fail.

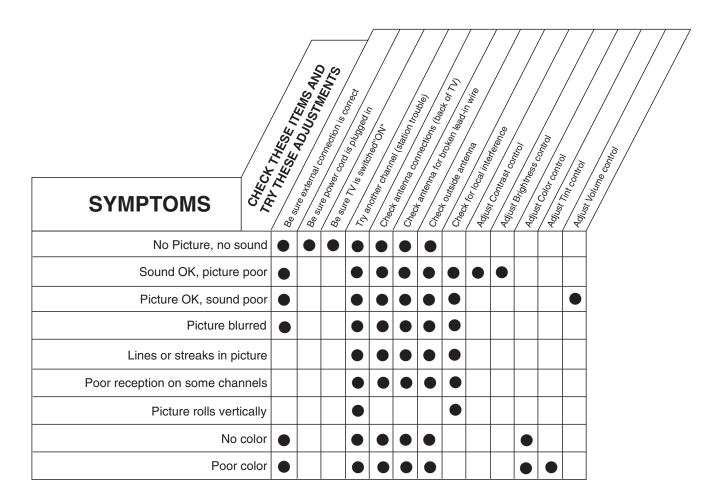
When the batteries run down, remote control operation will become erratic or become unresponsive. Replace the old batteries with two new "AA" size batteries. Do not use an old battery with a new battery.

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



	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: 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 monitor has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this monitor causes a problem to Radio receivers, then take the following steps: Keep the monitor away from Radio. Adjust Radio antennas in order for the monitor not to receive interference. The antenna cable of Radio should be kept away from the monitor. Use a coaxial cable for antenna. You can check if this monitor influences Radio receivers by turning off all other equipment other than the monitor. If you find a problem receiving Radio when using the monitor, check the instructions mentioned above.
The display image appears scrolling diagonal. Text displayed across the screen appears vertically streaked, with the characters in vertical columns blurred.	Adjust the horizontal clock and clock phase. (Adjust the horizontal clock first, the clock phase next.) (RGB input)
Text displayed across the screen appears blurred. A fine pattern flickers when displayed on the screen.	Adjust the clock phase for the clearest viewing. (RGB input)
Vertical stripes appear, depending on the screen contents.	The plasma display panel is lighting the phosphors by the discharge of internal radiation. Depending on the screen contents, in rare cases this may cause vertical stripes to appear because of failure to light. Please note that this is not a malfunction.
Coarse horizontal stripes appear in FULL display.	Adjusting the clock phase will reduce the horizontal stripes. (RGB input)
The display dims to make the picture invisible during special playback of a VCR (FF, REW).	This condition may occur when the unit is connected to a VCR with component output, such as 480i, but it is not a failure. But when it occurs, switch to composite output or S1 (S2) output).





PLUG and PLAY



This Plasma Television complies with VESA DDC2B specifications, Plug & Play is a system with computer, peripherals (including monitors) and operating system. It works when the monitor is connected to a DDC ready computer that is running an operating system software that is capable for the plug & play.

When a Plug and Play PC is powered on, it sends a command to the Monitor requesting identification. The Monitor sends back a string of data including its characteristics.



TRADEMARK ACKNOWLEDGMENT

DDC[™] is a trademark of Video Electronics Standard Association.

IBM PC/AT and VGA are registered trademarks of International Business Machines Corporation of the U.S.A.

Apple and Macintosh are registered trademarks of Apple Computer, Inc.

VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.

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.

Notes on Closed Caption:

This Plasma Television receiver will display television closed captioning, (CC 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.

Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this declaration, contact:

Hitachi America, LTD. Home Electronics Division 900 Hitachi Way Chula Vista, CA 91914-3556 Tel. 1-800-448-2244 (1-800-HITACHI)

ATTN: CUSTOMER RELATIONS

USEFUL INFO



Features:

- New Easy-to-Use On-Screen Menu Control (3 Language)
- New AV Network System Control

Control up to 4 components with one remote 2 IR Mouse cables included

Control Codes Stored in AV Control Center

- Two Tuner Split Screen except RGB modes.
- Illuminated and Preprogrammed Remote Control
- Power Management: ON/OFF via signal detection
- Menu Control Keys accessible from AV Control Center
- Picture Enhancement
- Input Signal Identification
- CableCARD compatible Contact your local cable operator for more information
- HDMI (High Deifinition Multimedia Interface)(High Bandwidth Digital Content Protection V1.1 Compatible)
- Photo Input (for your digital camera)

Video:

- 1366 x 768 Display Resolution (55")
- 1024 x 1024 Display Resolution (42")
- ALiS (Alternate Lighting of Surfaces Technology) (42")
- e-ALis (extended-ALis) (55")
- High-Contrast Pure-Color Glass Shield
- Wide Viewing Angle: More than 160°
- 4 Color Temperature Presets: Black/White-5400K, Standard-6500K, Medium-9300K, High-1200K.
- 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)
- Computer Display: VGA, (SVGA, XGA, SXGA-scaled) (42", 55")

Inputs:

Outputs:

	outs.
•	Power Input AC 120V, 60Hz
•	Power Consumption
	- Refer to rear panel at the back of the Plasma
	Monitor and AVC Center
•	Antenna input impedance75 Ohm
•	Channel coverage
	VHF-Band
	UHF-Band
	CATV Mid Band
	Super BandJ-W
	Hyper BandW+1 - W+28
	Ultra Band
•	Video1.0Vp-p, 75 Ohm
•	S-Video
	Luminance (Y)1.0Vp-p, 75 Ohm
	Chrominance (C)0.286Vp-p, 75 Ohm
•	Component Video
	Luminance (Y)1.0Vp-p, 75 Ohm
	Chrominance (P _B /P _R)0.7Vp-p, 75 Ohm
•	Audio input Impedance47k Ohm
•	Average input level
	- · · · · · · · · · · · · · · · · · · ·

Audio470mVrms, 1k Ohm

Optical Out (Digital Audio)1 Optical Connector

Audio:

- MTS Stereo/SAP
- TruBass and Matrix Surround
- 10W+10W
- Soft Mute (50% and 100%)

Supplied Accessories:

- Remote Control
- **Batteries**
- 9' Monitor Connection Cable
- 6' AC Cable (2)
- Subwoofer Cable
- IR Mouse Cable (2)

Optional Accessories:

55" Table Top Stand (TTS55)

INPUTS/OUTPUTS

•	Inputs:	RGB, VIDEO 1-5
•	Wideband Component Y, Pb,Pr	2
•	RGB: Analog Input	1
•	Composite Video	5
•	S-Video	3
•	Antenna (RF) Inputs	2
•	Audio Output	1
•	Monitor Output	1
•	Headphone Output	1
•	Subwoofer Output	
•	HDMI	
•	Photo Input	1
•	IEEE 1394	2

SF	PECIFICATIONS	
•	Multi-Scanning:	24-109kHz (h), 50-85Hz (v)
•	Pixel Pitch	0.90(horiz.) x 0.90(vert.) mm (55")
•	Pixel Pitch	0.90(horiz.) x 0.51(vert.) mm (42")
•	FCC class:	B for Consumer Use
•	Power Requireme	ents:

55"

DIMENSIONS

		42	55
•	Width	40 9/16"	48
•	Height	25 1/16"	28 1/8
•	Depth	3 3/4"	4 1/8
•	Weight	86 lbs.	108 lbs

Audio Video Control Center

•	Width16 15/16"
•	Height3 3/8"
•	Depth
•	Weight

HDTV Monitors display HDTV when combined with an HDTV Tuner and Source. All specifications, weights, and dimensions are subject to change without prior Please access www.hitachi.com/tv for detailed specifications and dimensions for custom installations.

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

¹ Screen mode availability varies by input format



HITACHI



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 guide.

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

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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:

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



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