

LCD TELEVISION AVC (Audio Video Control Center) & LCD Display Monitor

Operating Guide for 32HDL51

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	21 mar. 1997





IMPORTANT SAFETY INSTRUCTIONS

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD TELEVISION

Our reputation has been built on the quality, performance, and ease of service of HITACHI LCD 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 LCD 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 LCD television, LCD television consists of AVC center and display Monitor.

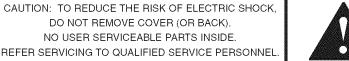


CAUTION

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

- WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
 - THE LCD 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 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 TELEVISION IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE 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 TELEVISION TO 50Hz, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

This television receiver will display television closed captioning, (CC or), in accordance with NOTE: 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 LCD television and call your authorized dealer or service center.

IMPORTANT SAFETY INSTRUCTIONS



Read before operating equipment

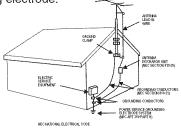
Follow all warnings and instructions marked on this television.

- Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding 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.
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- 17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of 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.

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

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

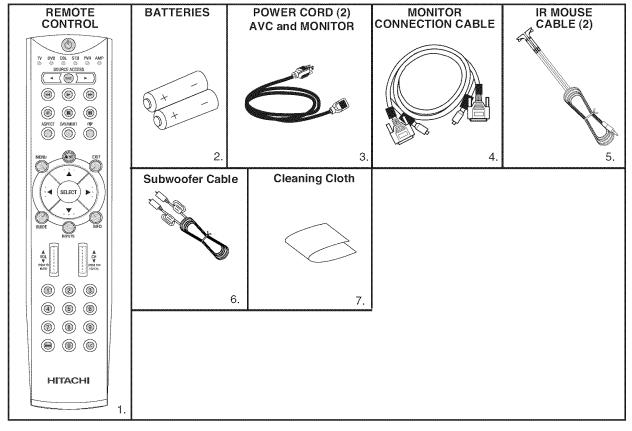
PUBLIC VIEWING OF COPYRIGHTED MATERIAL

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.

6. Sub Woofer Cable (P# VZ11701).

7. Cleaning Cloth (P# MS00931).

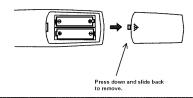
- 1. Remote Control Unit CLU-3841WL (P# HL02061) or CLU-3843WL (P# HL02063).
- 2. Two "AA" size, 1.5V batteries (P# FQ00021).
- 3. Power Cord: 32"

 LCD Monitor EV01841

 AVC EV01841
- Monitor Connection Cable (P# EW07883).
- 5. Two IR Mouse cables (P# EY01641).

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.



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

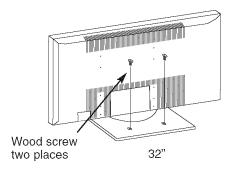
HOW TO SETUP YOUR NEW HITACHI LCD TELEVISION



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

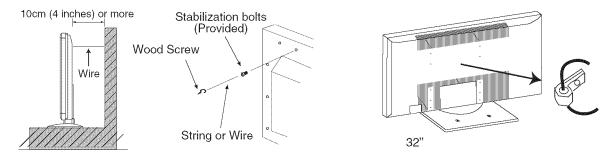
Securing to a table-top

- 1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the LCD Display stand as shown below.
- 2. Using commercially available wood screws, secure the set firmly in position.
- 3. Leave some space around the unit for proper operation of the power swivel stand.



Securing to a wall

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

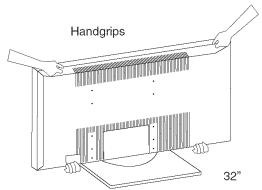


NOTES:

- 1. Do not block the ventilation holes of the LCD Display monitor or the AVC center. Blocking the ventilation holes might cause fire or defect
- The LCD television has two AC cords, one on the AVC center and the other on the LCD Display monitor. In case of an abnormal symptom, unplug both AC cords.

Caution when moving the main unit

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and bottom frame on both sides of the 32" for stability, as shown below.



ANTENNA

Unless your LCD 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.

When installing your LCD TV against a wall, keep it at least 10 cm (4 inches) from the wall.



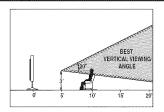
HOW TO SET UP YOUR NEW HITACHI LCD TELEVISION

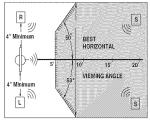
VIEWING

The major benefit of the HITACHI LCD 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.





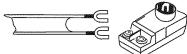
IMPORTANT NOTES

	MPORTANT NOTES				
No.	Items	Notes			
1	Arching sound from LCD display monitor's panel.	A buzzing sound might be heard when the LCD display monitor is turned on in a very quiet room. This is due to the LCD 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 LCD display monitor's panel that might affect other infrared controlling equipment.			
3	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.			
4	LCD Surface	The LCD panel is made from glass. Heavy shock on the front panel might damage it.			
5	Transportation	When the LCD 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 LCD 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.			
6	Granular spots	When a screen is seen at point-blank range, a random fine grain may be visible to a dark part.			
7	Black dots and Bright Points	Black dots and Bright points may appear on the LCD screen. This is a structural property of the LCD panel and is not a defect.			
8	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.			
9	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.			
10	Caution on prolonged storage	Storing the LCD television for a period of more than 2 to 3 months without use might cause an unstable picture when the set is turned on.			
11	Operating	Operating altitude: 800 to 1,114hPa (6,194ft to -2,484ft). Operating temperature: 41°F to 95°F. Avoid operating the LCD TV below 41°F LCD response speed may slow down when operating at these temperatures. This is a normal operating characteristic of the LCD monitor.			
12	Storage	Storage Altitude: 300 to 1,114hPa (31,912ft to -2,484ft). Storage temperature: 5°F to 140°F.			
13	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).



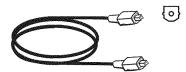
IR Mouse Cable (Provided)

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.



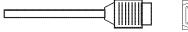
Subwoofer Cable (Provided)

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.



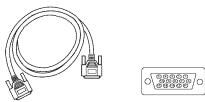
"F" Type 75-Ohm Coaxial Antenna Connector

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.



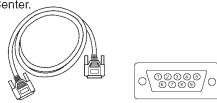
D-SUB MINI 15-Pin Cable

This cable is used to connect a computer output to the ANALOG input located on the rear panel of the AVC Center. The resolution should be set correctly to display the signal on the LCD 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.



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USB Cable

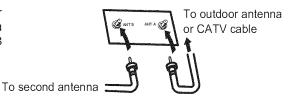
This cable is used to connect your digital camera to the Photo Input in the front of the AVC.



ANTENNA CONNECTIONS TO REAR PANEL JACKS

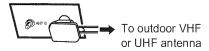
VHF (75-Ohm) antenna/CATV (Cable TV)

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.



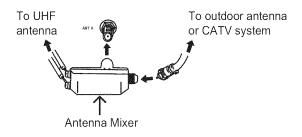
VHF (300-Ohm) antenna/UHF antenna

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.



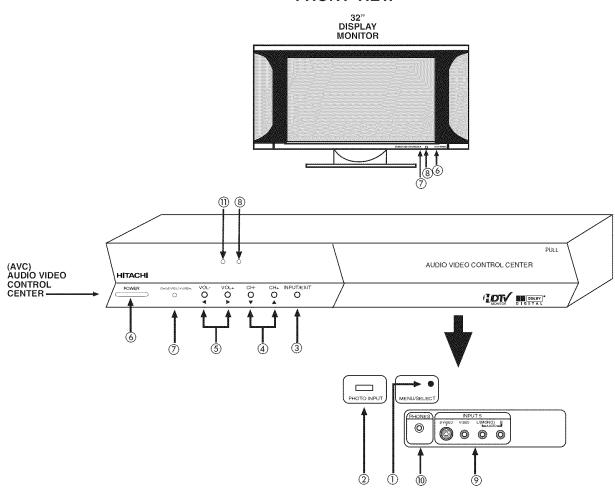
When both VHF and UHF antennas are connected

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

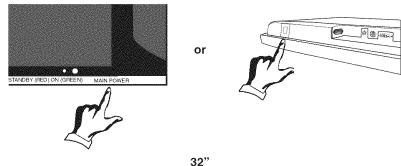
Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.



(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 LCD TV is now ready for remote on/off operation.

Indicating Lamp	Power Status	Operating
Off	Off	When the main power switch is set
4334 4334 4334 4334 4334 4334 4334 433		OFF.
Lights Red	Off	When the main power switch on the display
era dura de	(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
600	(Power Saving)	and AVC Center power is ON, with no signal
15 CL		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.

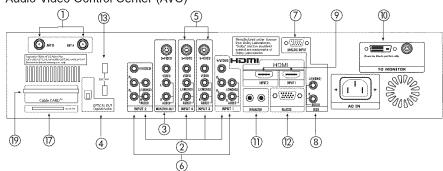
(11) LEARNING AV NET Sensor

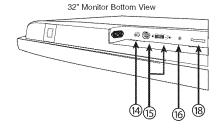
Point your equipment's remote control at this area while using the AV NET Learning Wizard.

- NOTES: 1. Your HITACHI LCD 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.



Audio Video Control Center (AVC)





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.

NOTES:

- 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.

- 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_R 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_R 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 54).
- 5. 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 LCD 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.

(17) 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

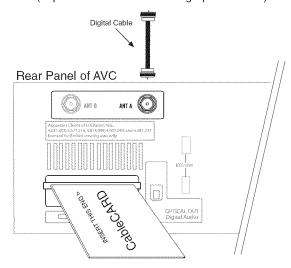
Connects to the Power Swivel Table Top Stand.



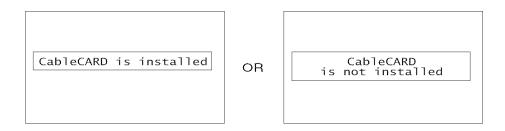
(19) CableCARD Slot

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.

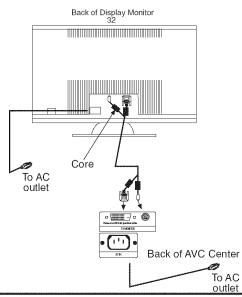
NOTES: 1. A digital cable subscription is required.

- 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 LCD DISPLAY MONITOR TO AVC BOX

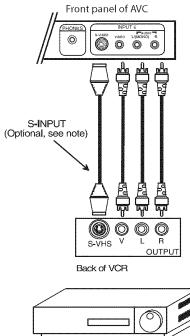
- 1. From the owner's accessory you will find the Monitor Connector cable.
- 2. Firmly, and securely insert the Monitor Connection Cable to the rear panel of the AVC box "TO MONITOR" connectors.
- 3. Insert the other ends of the Monitor Connection Cable to the display monitor rear panel "FROM AVC" connectors.

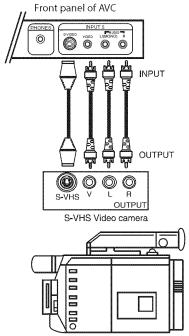


NOTE: The Display Monitor and the AVC Center have their own AC Power. Both AC cords must be completely plugged in to the AVC Center and the display monitor, then plug them in to the AC outlets.

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.

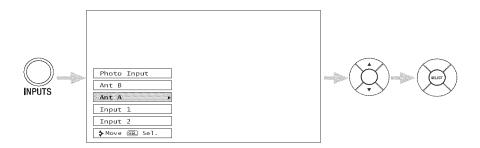


The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your LCD TV is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

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.

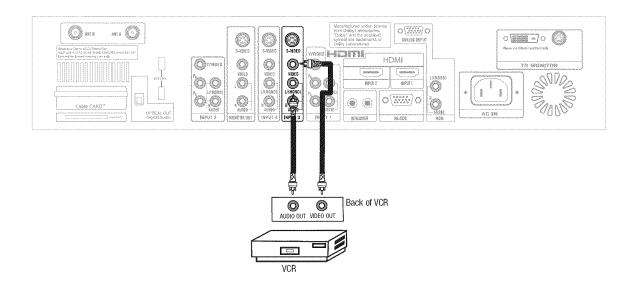
Before Operating External Video Source

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

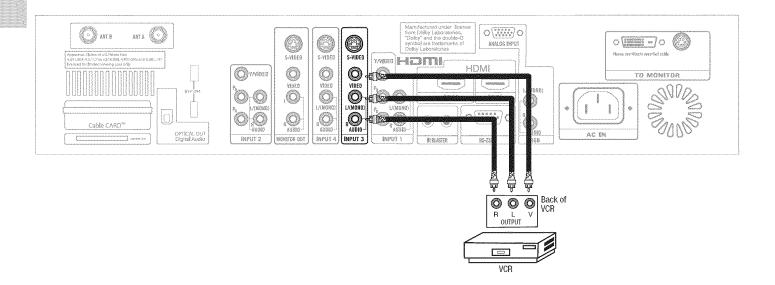
- Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the AVC Center below.
- 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- 3. Press the INPUTS button, then select INPUT 3 from 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.
- 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.

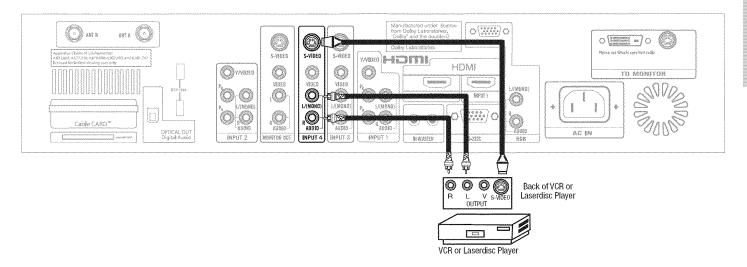


- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 4 in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



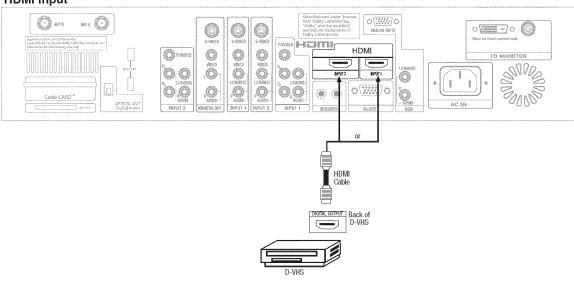
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 4 in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



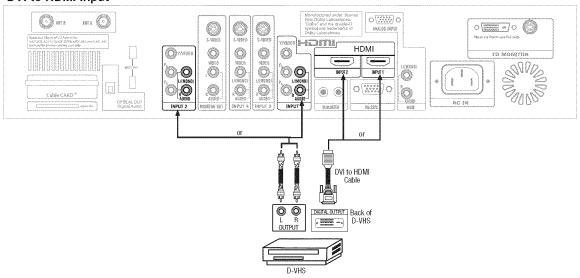
CONNECTING A COMPONENT SOURCE WITH HDMI or DVI CAPABILITY TO INPUT 1 or INPUT 2

- 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.
- 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.
- 3. With DVI output, connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack.
- 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

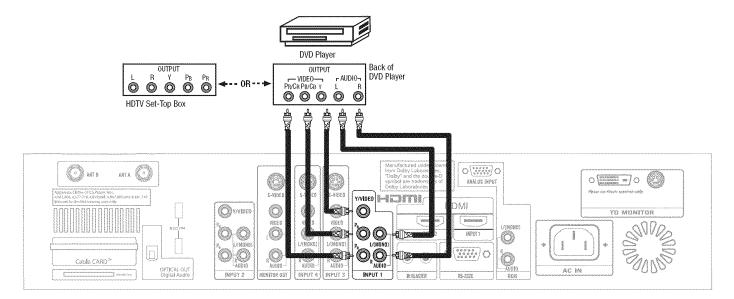


- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. The HDMI input on INPUT 1 or 2 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). 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.
- 6. 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.

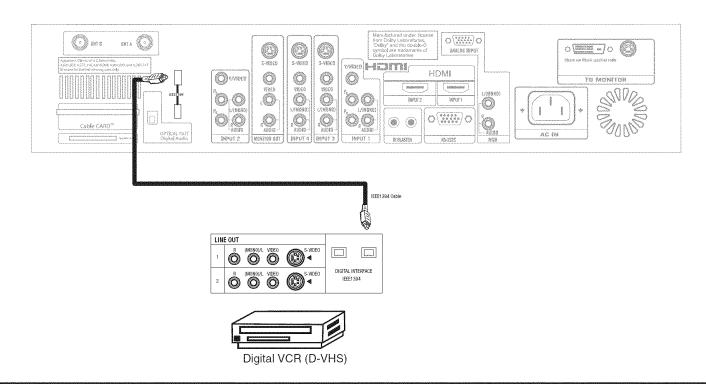


- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- 2. See page 26 for tips on REAR PANEL CONNECTIONS.



CONNECTING A COMPONENT SOURCE WITH DIGITAL INTERFACE CAPABILITY TO IEEE1394 TERMINALS

- 1. 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 LCD 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).



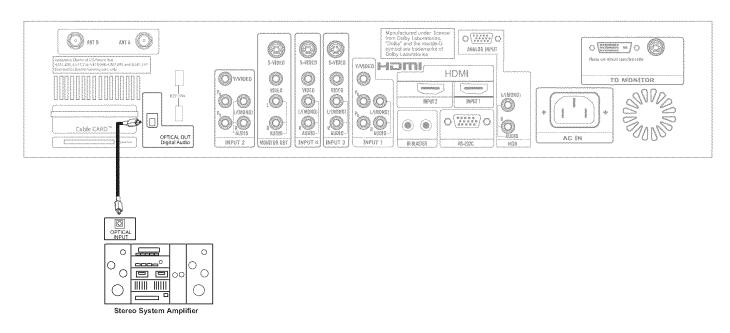
- 1. This LCD TV's IEEE1394 connection is not compatible with a DV camcorder (Digital Video camcorder) and a PC.
- 2. With IEEE1394 connection, video and audio will be received by the TV. It will enable you to control the D-VHS from the TV IEEE1394 menu (see page 36).
- 3. The IEEE1394 interface contains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

CONNECTING EXTERNAL AUDIO/VIDEO DEVICES

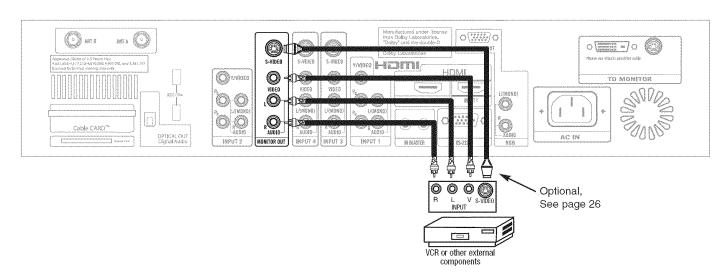


CONNECTING EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the LCD 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 LCD 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.



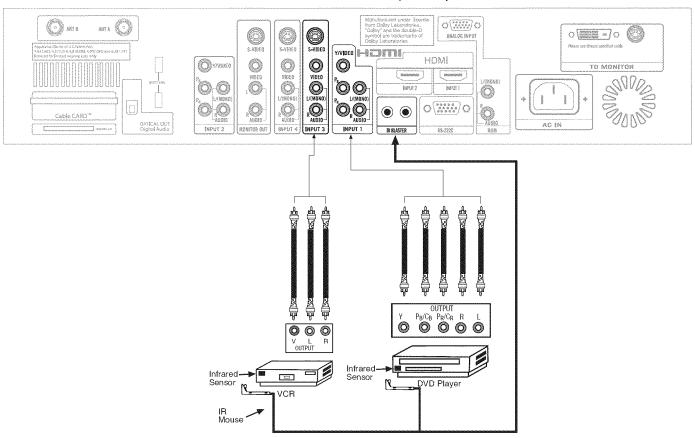


Your Hitachi LCD Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your Hitachi LCD TV Remote Control. You can use your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

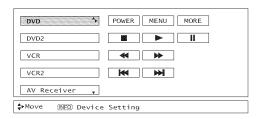
The LCD Television AVC Center has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the LCD Television with up to four components. Please see the following example of an AV Network setup between your Hitachi LCD Television and external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

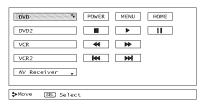


- 1. The AVC Center has two IR BLASTER outputs which can control up to a total of four external components.
- 2. The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work.
- 3. The correct codes must be entered for each of the Audio/Video components for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





 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.
- 3. 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.



1. Select EXIT to quit.

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



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

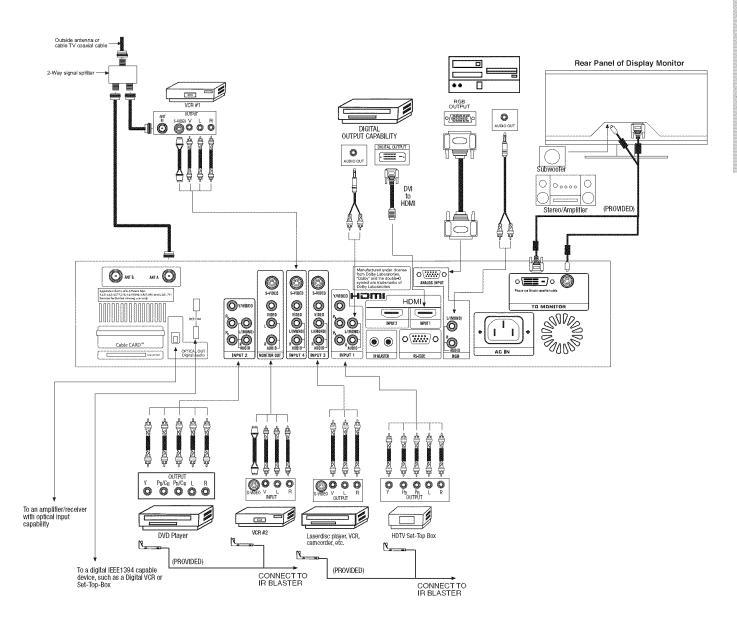
VCR BRAND	0048,	וטסי
Admirál		020
Adventura		.000
Aiko Akai Akai Akai America Action American High Asha Audiovox Beaumark Beil & Howell Eroksonic		027
Alwa		003
America Action		004
American High		027
Acha		000
Audiovov	0037	027
Resumark		027
Roll & Howell		010
Brokeonic	0121 0184 0002	റാവാ
Di oltocino	0479 1479	027
CGE		027
Calix		003
Canon		003
Carver		008
Citizen		127
Colt		007
Craig	0037, 0072, 0047,	024
Curtis Mathes 0035,	0041, 0060, 0162, 0760,	103
Cybernex		024
Daewoo		004
Denon		004
Electronome		003
Electrophonic		003
Emerex		003
Enlerson		0208
Eichar	0121, 0000, 0037,	004
Enii		004
Funai		003
Electronome Electronomic Emerex Emerson Fisher Fuji GE	0240, 0760, 0807, 1095	106
Garrard	······	000
Go Video		043
0-1404	0007 0000	
Gradiente		000
HI-Q		004
Harley Davidson		000
Harman/Kardon		008
Harwood		007
Hitachi		004
Hughes Network Systems	\$	004
JVČ		004
Jensen		004
KEC		027
KLH		007.
Kenwood		003
Kodak		003
LXI		003
Lloyd's		000
Logik		007
MEI		003
MGA	0043,	024
MGA		024 024
MGA		024 024 024
MGA		024 024 024 127
MGA		024 024 024 127 0563
MGA . MGN Technology MTC Magnasonic Magnavox		024 024 024 127 0563 178
MGA		024 024 024 127 0563 178 024
Golostar Gradlente HI-Q HI-Q Harley Davidson Harman/Kardon Harman/Kardon Harwood Hitlachi Hughes Network System: JVC Jensen KEC KLH Kenwood Kodak LXI Loyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Mariantz		024 024 024 127 0563 178 024 003
MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta		024 024 127 0563 178 024 003
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Marta. Matsushita Memorex		003 045 0209
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MartaMatsushita Memorex		003 045 0209
Marta Marta Memorex Minolta		003 045 0209 0000 126 004
Marta. Matsushita Memorex Minoita Mitsubishi. Motorola Muttlech NEC NEC	0035, 0162, 0047, 0037, 0104, 0454,0048, 0039, 0240, 0479, 1037, 1162, 1237, 0043, 0035, 0000,	003 045 0209 0000 126 004 006 004 007 010
Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko		003 045 0209 0000 126 004 006 007 010 003
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Marta. Matsushita Matsushita Memorex Minolta Mitsubishi Motorola Multitech NIEC Nikko Noblex Olympus Optimus Orton Orton Panasonic		003 045 0208 0000 126 004 006 004 007 010 003 024 003 126 147 0454
Marta. Matsushita Memorex Minoita Misubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic		003 045 0209 0000 126 004 007 010 003 024 003 0048 126 147 0454 126
Marta. Matsushita Memorex Minoita Mitsubishi. Motorola Multitech NEC Nikko. Noblex. Olympus Optimus Optimus Orion. Panasonic Penney.		003 045 0209 0000 126 004 007 010 003 024 003 0048 126 147 045 126 0042
Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Ortion Panasonic Penney.		003 045 00209 0000 126 004 007 010 003 024 003 0048 126 147 0454 126 0042 123
Marta. Matsushita Memorex Minoita Missubishi. Motorola Mutittech NEC Nikko. Noblex Olympus Optimus Orion. Panasonic Penney. Pentax		003 045 00209 0000 126 004 007 010 003 024 003 0048 126 147 0454 126 0042 123 004
Marta. Matsushita Mamorex Memorex Minolta Mitsubishi Motorola Multitech NEC Nilkko Noblex Olympus Optimus Optimus Orion Panasonic Penney Pentax Philico		003 0045 00209 00006 126 004 006 007 010 003 024 003 024 126 147 045 126 0042 123 004
Marta. Matsushita Memorex Minoita Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic Penney. Pentax Philips		003 003 045 0209 0006 126 004 007 010 003 024 003 024 126 0042 128 004 129 129 120 120 121 121 121 121 121 121 121 121
Marta. Matsushita Matsushita Memorex Minoita Mitsubishi Motorola Mutitiech NEC Nikko Olympus Optimus Optimus Orion Panasonic Pentax Philico Philips Piliot		003 045 0209 0000 126, 004, 006 004, 007, 010 003 024, 003 0048 126, 147 0454 126, 004, 147 004, 004, 004, 004, 004, 004, 004, 00
Marta. Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Optimus Pennay Pennay Pentax Philico Philips Pilot.	0035, 0162, 0047, 0037, 0104, 0454,0048, 0039, 0240, 0479, 1037, 1162, 1237, 0043, 0035, 0035, 0030, 0038, 0041, 0067, 0422, 0454, 1048, 1162, 0184, 0209, 0002, 0479, 1062, 0035, 0035, 0225, 0616, 1035, 1162, 0035, 0037, 0240, 0038, 1035, 0035, 0209, 0081, 0035, 0618, 1081, 1081, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0035, 0618, 0	003 045 0209 0000 126 004 006 004 007 010 003 024 003 004 126 126 0042 123 004 047 118 003 004
Marta. Matsushita Memorex Minoita Mitsubishi Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Optimus Orion Panasonic Penney. Pentax Philico Philips Pilot Polik Audio		003 045 0209 0000 126 004 007 010 003 004 126 0042 123 004 129 004 118 003 006 008
Marta. Matsushita Matsushita Memorex Minolta Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Optimus Orion Panasonic Penney Pentax Philico Philips Pilot Ploneer Polik Audio, Porfitronic		003 045 0209 0000 126 004 007 010 003 003 004 126 004 123 004 123 004 118 004 047 118 004 047 047 047 047 047 047 047 047 047
Marta. Matsushita Memorex Minoita Mitsubishi Motorola Multitech NEC Nikko Noblex Olympus Optimus Orion Panasonic Penney Pentax Philico Philips Pilot Pilot Pilot Porscan Polk Audio Profitronic Proscan		003 045 0209 0000 126 004 004 004 003 024 003 0048 126 147 045 123 004 047 118 003 006 004 010 004 118 003 004 004 004 004 004 004 003 004 004
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AUDIO BRAND Aiwa AudioSource Cambridge Soundworks Carver Fisher Fosgate Harmorr/Kardon JBL JVC KLH Magnavox Nikko Paramount Pictures RCA SSI Sansui Schneider Sony				0010,	040 035 035 035 005 047 047 037 037 035 037 031 032 037 057
AUDIO BRAND Alwa AudioSource Cambridge Soundworks Carver Fisher Fosgate Hammon/Kardon JBL JVC KLH Magnavox Nikko Paramount Pictures RCA SSI Sansul Schneider				0010,	040 035 035 035 005 047 047 037 037 035 037 031 032 037 057
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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 P_B input
 and the components R-Y output to the TV's P_B input.
- Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_B output to the TV's P_B input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_B 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 LCD 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 LCD 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).

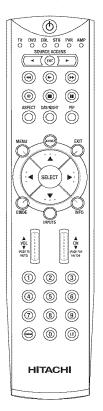
To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your PVR (see page 45 for instruction on how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

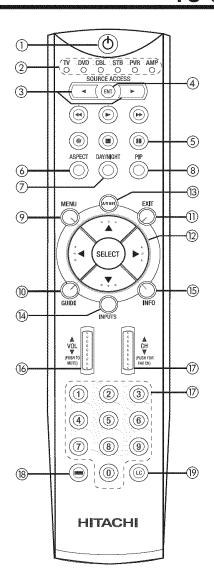
To operate your DVD player, point the remote at the remote sensor of the DVD player and select DVD by pressing the ◀ or ▶ button of the Source Access on the remote. The DVD mode indicator will blink, indicating that the remote will now control your DVD Player (see page 44 for instruction on how to program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

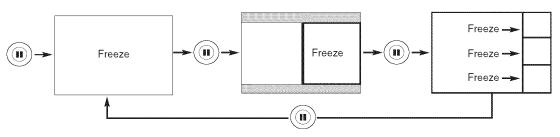
Press these buttons to select remote control mode.

(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.

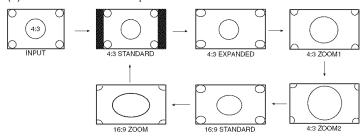
4:3 Zoom1/Zoom2 Use these aspect modes to zoom in on conventional (4:3) sources.

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

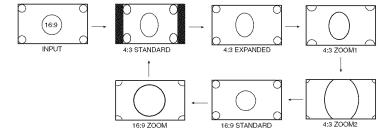
ratio

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

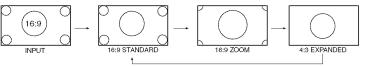
(1) NTSC/480i/480P Input



(2) 480i/480P Input



(3) 720P/1080i Input



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

	RGB (Analog) INPUT SIGNAL					
	Others	SVGA/XGA	VGA	480p	720p	1080i
ASPECT	Х	REAL	REAL	REAL(1)	X	X
MODE	NORMAL	NORMAL	NORMAL	NORMAL(1)	X	X
AVAILABILITY	FULL	FULL	FULL	FULL(1)	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. 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 39-41 for a description.

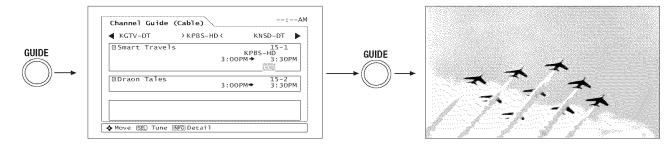
(9) MENU button

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

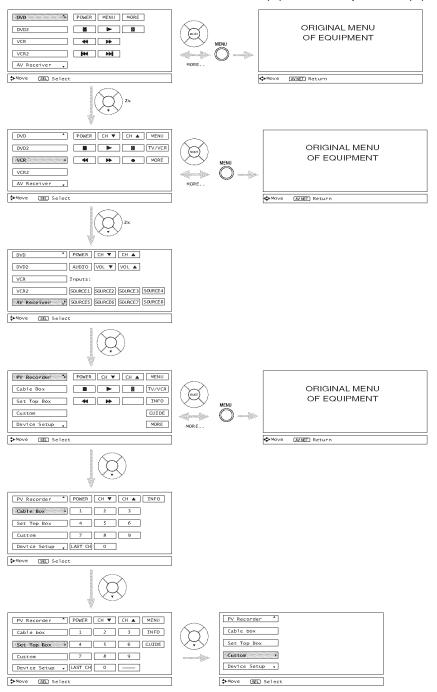
Press this button to access the Audio/Video network (AV Net) menu. The AV Net allows the user to control external components with the LCD TV's remote control. When you press the AV NET button, the following window will pop up within the Display Monitor screen. The window will disappear after 30 seconds 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.

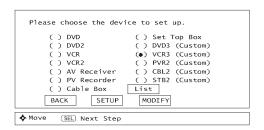


- 1. Devices will not be available until Device Setup is completed (see pages 22-24).
- 2. The "Custom" option will not be available until the Custom device Setup is learned and completed. After completion, the "Custom" tag will be replaced with the device tag (see page 32).
- 3. The Custom option only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

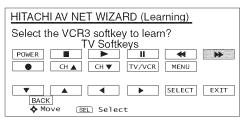


AV NET LEARNING WIZARD

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 LCD TV remote control.



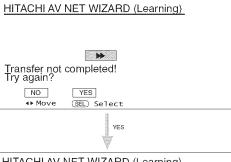
- 1. Press A/V NET button on the remote control.
- 2. Use the CURSOR PAD to select DEVICE SETUP, press the SELECT button.
- 3. Use the CURSOR PAD/SELECT button to choose CUSTOM option (Ex. VCR3).
- 4. Use the CURSOR PAD to select Setup, press the SELECT button.



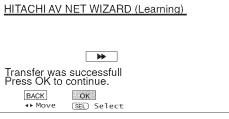
1. Select TV Softkeys to learn, press the SELECT button.



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 LCD TV remote control. In order to use CURSOR PAD and EXIT button of the LCD TV remote control, "arrows, select, and EXIT" button must be learned. Then the menu of the programmed equipment can be controlled with the LCD 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.

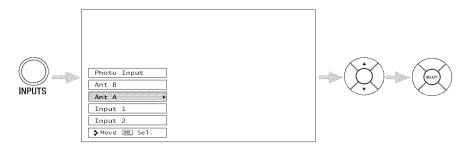
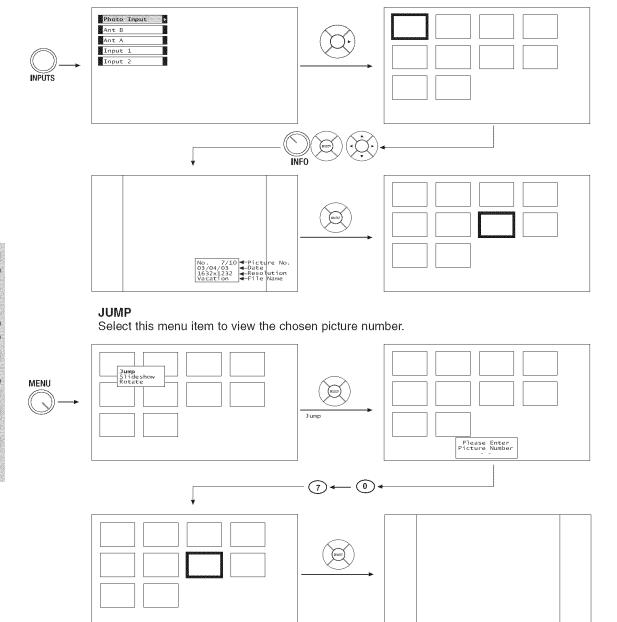


Photo Input	Select to access your pictures from a digital camera connected to the Photo Input in the front panel of the AVC (see page 34).
Ant B	Select to choose Antenna B.
Ant A	Select to choose Antenna A.
Input 1	Select to choose Input 1 for Video 1.
Input 2	Select to choose Input 2 for Video 2.
Input 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 AVC.



- 1.
- 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. 2. 3.
- Digital photos recorded on a DVD-RAM disc may not work with this Photo Input.
- 4.
- Certain types of digital cameras may not work with this Photo Input.

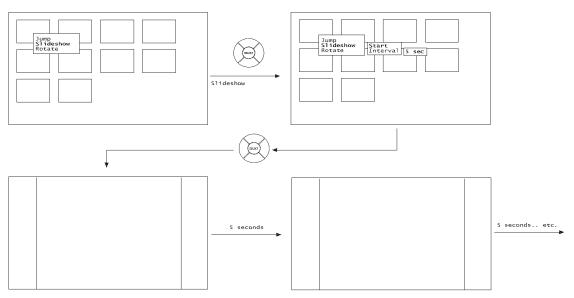
 Digital cameras with low battery power may not properly display your photos in this input. 5.
- 6.
- The screen may show "Input device not detected" if the digital camera's large capacity memory is fully loaded. Please wait 1 or 2 minutes before checking your Photo Input connections.

 The screen may show "Input device not detected" id ue 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.

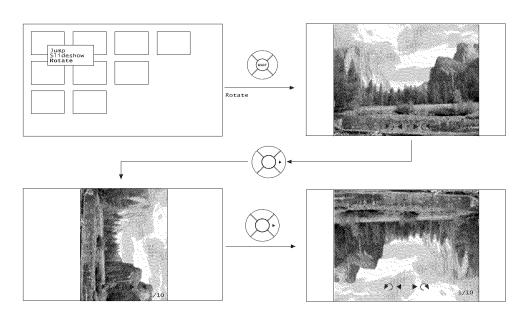
While interval is highlighted, press SELECT to change interval time from 5, 10 and 30 seconds. Each press will change interval time from the three mentioned choices.

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.

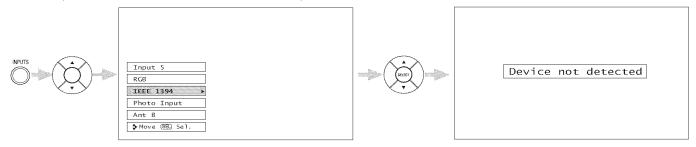


- Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed on a main directory with a "dcim" file name format.
- 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.

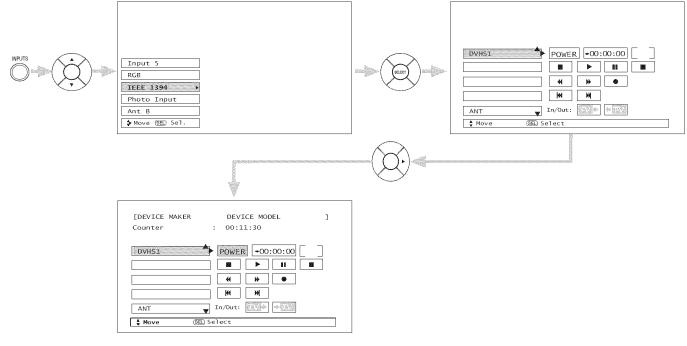


IEEE1394 Use this function to control your devices with digital interface capability. Press the INPUTS button, CURSOR PAD and SELECT button to select IEEE 1394.

(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.

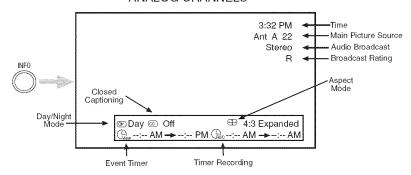
HOW TO USE THE REMOTE TO CONTROL YOUR LCD TV



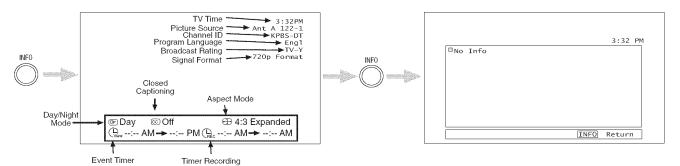
(15) INFO button

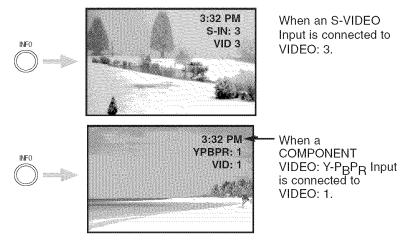
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.

ANALOG CHANNELS



DIGITAL CHANNELS





NOTES:

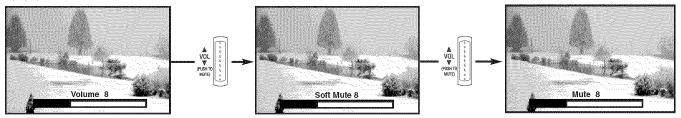
- 1. The Sleep Timer info will show momentarily after releasing INFO button.
- 2. Press the INFO button again or the EXIT button to return to normal viewing.



(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 (**\(\Lambda \)**).



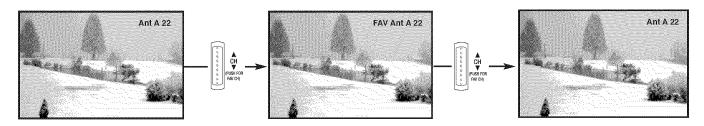
Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 75).

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.

(17) CHANNEL (CH) WHEEL/CHANNEL SELECTOR buttons

The CHANNEL wheel or the CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL WHEEL (▲ or ▼) to select the desired channel. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels. Enter "0" first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. For Digital Channels, use the CHANNEL SELECTOR buttons with the (-) DASH button. Channel selection may also be performed by CHANNEL WHEEL up (▲) or CHANNEL WHEEL down (▼).

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



(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.

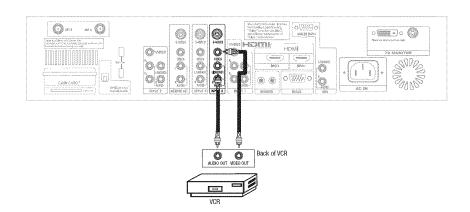
PICTURE-IN-PICTURE (PIP)

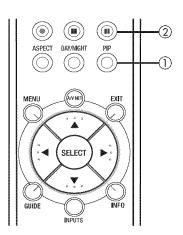


Your HITACHI LCD TV incorporates Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each.

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 (\blacktriangleleft , \blacktriangleright).

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).

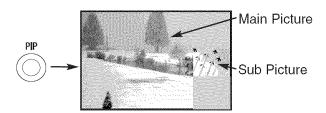
When installing a CableCARD, connect your coaxial cable to ANT A (see page 13). ANT B will not be available while using a CableCARD.

(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).



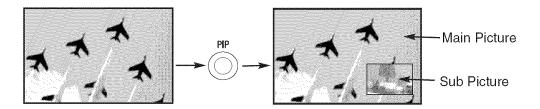
NOTES: 1. Digital Channels cannot be viewed as a sub-picture.

- 2. PIP MODE Picture-in-Picture is only available with a 1080i component or digital signal.
- 3. Press the CURSOR PAD (◀, ▶) 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 Pictures or Thumbnail channels.



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

PICTURE-IN-PICTURE (PIP) MODES

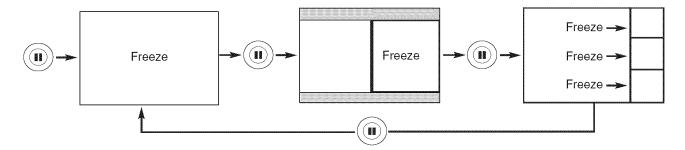
THOUSE IN THOUSE (THI) MIGDLE						
PIP Mode	Sub Main	NTSC	480i	480p	720p	1080i
POP	NTSC	Yes	Yes	-	-	Yes
	480i	Yes	Yes		-	Yes
PIP 4x3	1080i	Yes	Yes	-	-	-
PIP 16x9	1080i	Yes	Yes	-	-	Yes
SPLIT	NTSC	Yes	Yes	Yes	Yes	Yes
	480i	Yes	Yes	Yes	Yes	Yes
	480p	Yes	Yes	Yes	Yes	Yes
	720p	Yes	Yes	Yes	Yes	Yes
	1080i	Yes	Yes	Yes	Yes	Yes
12 Pix		Ant A/B	-	-	-	-

PICTURE-IN-PICTURE (PIP)



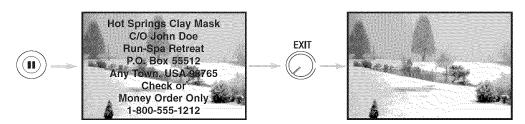
2 PAUSE button

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).



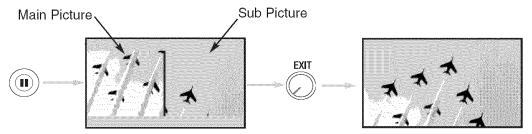
MAIN FREEZE

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.



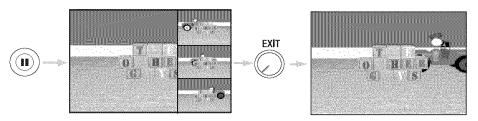
SPLIT FREEZE

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.
- 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.
- 5. The remote will now control your Cable box.

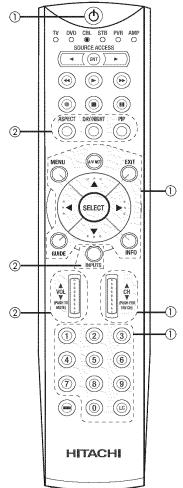
NOTES:

- 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.
- 3. 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.

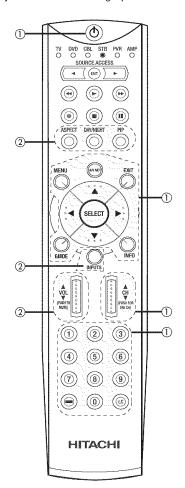
NOTES:

- 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.

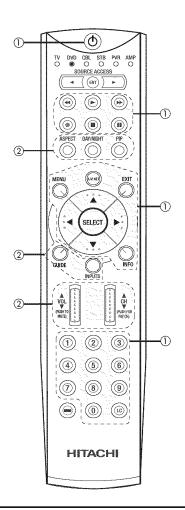
NOTES:

- If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
- 2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 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.
- 3. 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:

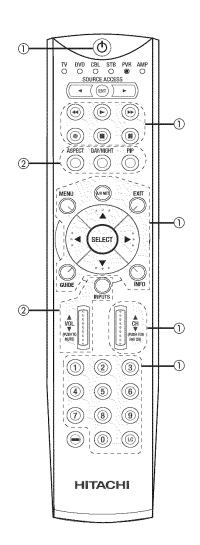
- 1. If your PVR cannot be operated after performing the above procedures, your PVR's code has not been precoded into the remote.
- In the unlikely event that your PVR cannot be operated after performing the above procedures, please consult your PVR operating guide.
- 3. The remote control will remember 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

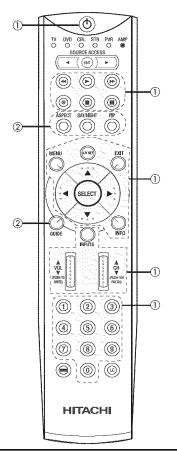
Operating the precoded function for your Audio component.

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 LCD TV



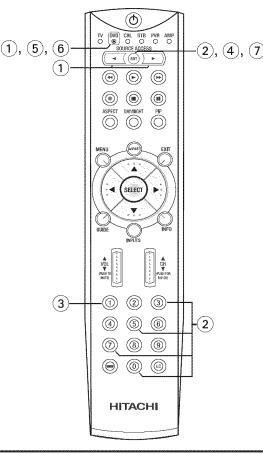
INPUT ACCESS

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.
- 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

VCR BRAND		CODE
ABS		
Admiral		
Adventura		
Aiko		
Aiwa		
Akai		
America Action		
American High		
Asha		
Audiovox		
Beaumark		0240
Bell & Howell		
Broksonic		0121, 0184,
CCE	0002,	0209, 0479
Calix		
Canon		
Carver		
Cineral		0278
Citizen		0278, 0037
Colt		
Craig		0037, 0072,
Curtis Mathes	0047,	0240, 0271
Curtis Mathes		
CyberPower		
Cybernex		
Daewoo	0278.	0045, 0561
Dell		
Denon		0042
Durabrand		
Dynatech		
Electrohome		
Electrophonic		
Emerex		
0043, 0209,	, 0104 0002	0278 0061
0208, 0212,	0479.	0561. 1593
Fisher		
Fuji		0033, 0035
Funai		0000, 1593
Garrard		
Go Video		
GoldStar		
Gradiente		
HI-Q		
HP		
Harley Davidson		0000
Harman/Kardon		
Harwood		
Headquarter		1070
Hitachi 0000,	0041	0042 0105
Howard Computers	0041,	1972
Hughes Network Syst	ems.	0042
iBuy Power		1972
JVĆ	0067,	0041, 0008
Jensen		
KEC		
KLH		
Kenwood		
Kodak		
LXI		
Lloyd's		
Logik		
MEI		0035
MGA	0043,	0240, 0061
MGN Technology		0240
MTC		
Magnasonic Magnavox0035,	 0004	0563 0000
0039, 0593	vud I,	voos, vuu,
Magnin		0240
Marantz		0081, 0035
h 4		0007

//ateuchita		0035	0162	1162
Лаtsushita Леdia Center F Летогех	PC	. 0000	0102	1972
Nemarev	0035	0162	0037	0048
0030 0047	0000,	0000	0104	0040,
. 0039, 0047, 0046, 0307	0240,	1027	1160	1262
1. 0040, 0307	, 0473	, 1037	1102	1070
Aicrosoft Aind				1972
/linolta				
/litsubishi		0061,	0043	, 0067
Motorola			0035	, 0048
Multitech NEC			0000	, 0072
NEC	. 0038,	, 0041,	0067	, 0104
Nikko				
Noblex				. 0240
Vorthgate				. 1972
Olympus				. 0035
Olympus Optimus	0593,	1062,	0162,	0037,
0048, 0104	, 0432	. 1048.	1162	1262
Optonica				. 0062
Orion	0184	0209	0002	0479
Orion	0162	1062	0035	0616
	o.o <u>.</u> ,		1162	1262
Penney	0035	0037	0240	0042
	0000,	0007,	0240,	0042,
antar			0040	0105
Pentax Philco	0025		0.470	0504
niico	. 0035,	, 0209,	0479	, 0561
Philips		0081,	0035,	0618,
		. 1081,	1181	, 0062
Pilot				. 0037
Pioneer				. 0067
Polk Audio				. 0081
Profitronic				. 0240
roscan		. 0060,	0202	0761
Protec				. 0072
Pulsar				. 0039
Quarter				
Quartz				. 0046
Quasar		0035	0162	1162
RCA	0060	0240	0042	0105
	0106	0202	0761	0.880
Radio Shack .	. 0100,	, 0202,	0000	1037
Radix			0000	, 1037
Randex				. 0037
Realistic	0035,	0037,	0048,	0047,
0000, ReplayTV	, 0104,	, 0046,	0062	, 0066
ReplayTV			0614	, 0616
Runco				. 0039
STS				. 0042
Samsung		. 0045,	0240	0432
Sanky			0039	0048
Sansui		0000,	0067,	0209,
Sanky Sansui Sanyo	. 0041,	0479,	1479	0271
Sanvo	. 0047	0240.	0104	0046
Scott		0184	0045	0121
		0043	0210	0212
 Sears 0035,	0037	0047	0000	0042
0104,	1237	0046	0000,	0105
оточ, Semp				
Sharp		0049	0040	വാഹ
Shintom				
Shogun				
Singer				
Sonic Blue				
Sony		0035,	0032,	0000,
	. 0033,	, 0636,	1032	, 1972
Sylvania		0035,	0081,	0000,
		. 0043,	0593	1593
Symphonic		. 0000	0593	1593
Systemax				. 1972
MK			0240	0208
agar Systems				1972
atung				
eac			0000	0041
echnics			0035	0169
eknika		 	UU3E	, 5102 1027
Thomas		. 0000,	0000	, 00 <i>01</i> 1000
homas		0040	0000	4500
ivo		. 0618,	0636	1503
oshiba		0045,	0043,	0066,
	0210,	0212,	0366,	0845,

Totevision		. 0037,	1070
Touch Unitech			0240
Vector			0045
Vector Research			0038
Video Concepts		0045,	0061
Videomagic			
Videosonic			
Viewsonic Wards 0060, 0062,			
0081, 0240, 0000,	0033,	0072	0212
White Westinghouse		0072.	0209
XR-1000	. 0072	0000,	0035
Yamaha			
ZT Group			1972
Zenith 0039,	0000,	0209,	1470
DVD BRAND			
AMW			0872
Allama			0641
Allegro	0717	0755	0008 0794
	0797.	1004.	1020
1056, 1061	, 1100,	1915,	1937
Audiovox		0790,	1072
Axion			1072
Blaupunkt Blue Parade			0/1/
Brooksonic			057
CAVS			1057
CineVision			
Classic			1917
Coby			
Curtis Mathes		4000	1087
CyberHome	. 0816,	1023,	1024
DVD2000 Daewoo		0784	0705
	. 0833.	0869.	1918
Denon		0490,	0634
D 1			
Dual		0591,	0675
Emerson Enterprise		0591,	0675 0591
Emerson Enterprise Fisher	 	0591,	0675 0591 0670
Emerson		0591,	0675 0591 0670 0675
Emerson	. 0522	0591, 0717, 0699,	0675 0591 0670 0675 0815
Emerson	. 0522	0591, 0717, 0699,	0675 0591 0670 0675 0815
Emerson		0591, 0717, 0699, 	0675 0591 0675 0675 0815 0769 1073
Emerson		0591, 0717, 0699, 0715, 0869,	0675 0591 0675 0675 0815 0769 1073 0783
Emerson	. 0522, 0744, . 0833,	0591, 0717, 0699, 0715, 0869,	0675 0591 0675 0675 0815 0769 1073 0783 1075
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill	. 0522, 0744, . 0833,	0591, 0717, 0699, 0715, 0869,	0675 0591 0676 0675 0815 0769 1073 0783 1075 0651
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente. Greenhill Grundig Harman/Kardon	. 0522, 0744, . 0833,	0591, 0717, 0699, 0715, 0869,	0675 0591 0676 0675 0815 0769 1073 0783 1075 0651 0705
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente. Greenhill Grundig Harman/Kardon Hitachi	. 0522, 0744, . 0833,	0591, 0717, 0699, 0715, 0869,	0675 0591 0670 0675 0815 0769 1073 0783 1075 0651 0705 0702 0695
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker	. 0522, 0744, . 0833, . 0573,	0591, 0717, 0699, 0715, 0869, 	0675 0591 0676 0675 0815 0769 1073 0783 1075 0651 0717 0705 0695 0672
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker	. 0522, 0744, . 0833, . 0573,	0591, 0717, 0699, 0715, 0869, 	0678 0591 0676 0678 0769 1073 0783 1075 0705 0702 0698 0672 0783
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT	. 0522, 0744, . 0833, . 0573,	0591, 0717, 0699, 0715, 0869, 	0675 0591 0676 0815 0769 1073 0783 1075 0717 0705 0702 0695 0672 0783
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra	0744, 0833, . 0573,	0717, 0699, 0715, 0869, 	0675 0591 0670 0675 0815 0769 1073 0783 1075 0705 0702 0695 0672 0783 0717 0627
Emerson Enterprise Fisher Funai GE GPX Gateway Go Video Gradiente. Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JBL	. 0522, 0744, . 0833, . 0573,	0717, 0699, 0715, 0869, 0664,	0675 0591 0670 0675 0815 0769 1073 0651 0705 0672 0783 0717 0627 0627 0702
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC 0623	. 0522, 0744, . 0833, . 0573,	0717, 0699, 0715, 0869, 0664,	0675 0591 0670 0675 0815 0768 1073 0671 0705 0672 0672 0702 0702 0702 0702
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC 0623 KLH	0522, 0744, 0833, 0573, 0558, 0717,	0591, 	0675 0591 0670 0675 0815 0768 1073 0671 0705 0672 0702 0702 0702 0702 0702 1901
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC 0623 KLH Kawasaki	0522, 0744, 0833, 0573,	0591, 0717, 0699, 0715, 0869, 0664,	0675 0591 0677 0815 0768 0768 0765 0707 0651 0707 0672 0702 0702 0702 0702 0702 0702
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JBL JVC KLH Kawasaki Kenwood	0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	0675 0591 0677 0815 0768 0768 07078 0707 0707 0702 0702 0773 0672 0773 0672 0790 0790 0534
Emerson Enterprise Fisher 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	0522, 0744, 0833, 0573, 0558, 0717,	0591, 	0675 0591 0677 0675 0811 1075 0651 0702 0702 0702 0702 0702 0702 0702 070
Emerson Enterprise Fisher 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	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	0675 0591 0677 0675 0768 1073 0783 1075 0651 0710 0702 0695 0672 0702 0702 0702 0702 0702 0702 0702
Emerson Enterprise Fisher Fisher Funai GE GPX Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hiteker IRT Initial Integra Hiteker JUC 0623 KLH Kawasaki Kenwood Koss Lasonic Lite-On Magnavox 0503	0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0490,	0675 0591 0676 0815 0768 1073 0783 1075 0702 0702 0702 0702 0702 0702 0702 0
Emerson Enterprise Fisher 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 Litte-On Magnavox 0503 Marantz	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0790, 0490,	0675 0591 0676 0815 0768 1073 0783 1075 0702 0702 0702 0702 0702 0702 0702 0
Emerson Enterprise Fisher 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 Litte-On Magnavox 0503 Marantz Memorex	0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	0675 0591 0670 0670 0815 0768 1073 0783 1075 0702 0695 0702 0695 0702 0702 1901 1020 0790 0534 0651 0798 1026 0798 1036 1036 1036 1036 1036 1036 1036 1036
Emerson Enterprise Fisher 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 Marantz Memorex Microsoft	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790,	0675 0591 0676 0676 0815 0769 1073 0783 0765 1075 0702 0702 0702 0702 1020 0790 1020 0790 1058 1058 1058 1058 1058 1058 1058 105
Emerson Enterprise Fisher 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 Marantz Memorex Microsoft Mintek Mitsubishi	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790, 0490,	0675 0591 0676 0815 0769 1073 0783 1075 0702 0702 0702 0702 0702 0702 0792 0792
Emerson Enterprise Fisher 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 Litte-On Magnavox Microsoft Mintek Mitsubishi Nesa	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0790, 0490,	0675 0591 0676 0815 0768 1073 0783 1075 0702 0702 0702 0702 0702 0702 0702 0
Emerson Enterprise Fisher 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 Microsoft Mintek Mitsubishi Nesa Norcent	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0790, 0490, 0717, 0521,	0675 0591 0670 0670 0815 0768 1073 0783 1075 0702 0702 0702 0702 0702 0702 0790 0534 0651 0798 0539 0522 0839 0522 0839 0717 0872
Emerson Enterprise Fisher 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 Microsoft Mintek Mitsubishi Nesa Norcent Onkyo	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790, 0717, 0521, 1003, 0627,	0675 0591 0676 0676 0815 0768 1073 0763 0651 0717 0702 0792 0792 0792 0792 0793 053 1058 1976 053 053 1976 053 053 1976 053 053 053 053 053 053 053 053 053 053
Emerson Enterprise Fisher 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 Microsoft Mintek Mitsubishi Nesa Norcent	0522, 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790, 0490, 0717, 0521, 1003, 0627,	0675 0591 0670 0670 0815 0769 1073 0783 1075 0702 0702 0702 0790 1020 0790 1020 0534 1058 1058 1058 1058 1058 1058 1058 1058
Emerson Enterprise Fisher 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 Marantz Memorex Microsoft Mintek Mitsubishi Nesa Norcent Onkyo Oritron	0522 0744, 0833, 0573, 0558, 0717,	0591, 0717, 0699, 0715, 0869, 0664, 0867, 0790, 0490, 1914, 1003, 0627,	0675 0591 0676 0676 0815 0769 1073 0702 0702 0702 0702 0792 0793 0651 0796 0534 0651 0797 0653 0798 1076 0798 1076 0798 1076 1079 1087 1087 1087 1087 1087 1087 1087 1087

Philips				
Pioneer				
Polaroid			1061,	1086
Polk Audio				
Proscan				
Qwestar				0651
RCA		0522,	0571,	0717,
		0790,	0822,	1974
Recco				
Rio				
Rotel				
Rowa				0823
Sampo			0698,	0752
Samsung			0490,	0573,
		0820,	0744,	1075
Sansui Sanyo				0695
Semp				
Sharp				
Shinsonic			0533,	0839
Sonic Blue				0869
Sony				0533
Sylvania				
Symphonic				
TYT				
Teac				
Technics				
Theta Digital .				
Tivo		0500		. 1996
Toshiba		0503,	1000	1045,
Tue alasz				
Tredex				
US Logic				
Urban Concept Venturer				
XBox				
Yamaha		0490	0545	0522
Zenith		0430,	0040,	0000
CABLE BRAN ABC 0003,	D	0011,	(0013,	CODE 0014, 0017
CABLE BRAN ABC 0003, 	D	0011,	(0013, 0153,	OODE 0014, 0017 0315
CABLE BRAN ABC 0003, Allegro	D	0011,	0013, 0153,	0014, 0017 0015 0899
CABLE BRAN ABC 0003, Allegro Americast Antronix	D	0011,	(0013, 0153,	00 DE 0014, 0017 0315 0899 . 022
CABLE BRAN ABC	D	0011,	0013, 0153, 0153,	0014, 0017 0315 0899 . 022
CABLE BRAN ABC 0003, Allegro Americast Antronix Archer Bell & Howel	D	0011,	0013, 0153, 0153,	0014, 0017 0315 0899 . 022 0797
CABLE BRAN ABC 0003, Allegro Americast Antronix Archer Bell & Howel Bell South	D 0008,	0011,	0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899
CABLE BRAN ABC	D 0008,	0011,	0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022
CABLE BRAN ABC	D 0008,	. 022,	0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022
CABLE BRAN ABC	D	0011,	0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0022
CABLE BRAN ABC 0003, Allegro Americast Antronix Archer Bell & Howel Bell South Cabletenna Cableview Century Citizen	D 0008,	0011,	0153, 0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0022 0153
CABLE BRAN ABC	D 0008,	0011,	0153, 0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0022 0153 0315 0883
CABLE BRAN ABC 0003, Allegro Americast Antronix Archer Bell & Howel Bell South Cabletenna Cableview Century Citizen ClearMax Clearmaster	D 0008,		0153, 0153, 0153,	0014, 0017, 0315, 0899, . 022, 0797, .0014, 0899, 0022, 0153, 0315, 0883, 0883,
CABLE BRAN ABC	D		0013, 0153, 0153, 0153, 0153,	0014, 0017, 0315, 0899, . 022, 0797, .0014, 0899, 0022, 0153, 0315, 0883, 0883,
CABLE BRAN ABC	D	. 022,	0153, 0153, 0153, 0153, 0153,	0014, 0017, 0315, 0899, . 022, 0797, .0014, 0899, 0022, 0153, 0315, 0883, 0883, 0031, 0040
CABLE BRAN ABC	D	. 022,	0153, 0153, 0153, 0153, 0153,	0014, 0017, 0315, 0899, .022, 0797, .0014, 0899, 0022, 0022, 0153, 0315, 0883, 0883, 0031, 0040, 0019
CABLE BRAN ABC	D	0011,	0153, 0153, 0153, 0153,	CODE 0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883
CABLE BRAN ABC	D	.0011,	0013, 0153, 0153, 0153,	CODE 0014, 0017 0315 0899 0022 0153 0315 0883 0031 0040 0049 0883 0637
CABLE BRAN ABC	D	. 022,	0153, 0153, 0153, 0153,	0014, 0017 0315 0899 . 022 0014 0022 0153 0315 0883 0031 0040 0040 0883 0637
CABLE BRAN ABC	D	0011,	0153, 0153, 0153, 0153,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0022 0023 00315 0883 0031 0040 0083 0637 0476 0637
CABLE BRAN ABC	D	0011,	0153, 0153, 0153, 0153,	CODE 0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 08031 0040 0019 0883 0637 0797
CABLE BRAN ABC	D	. 022,	00013, 0153, 0153, 0153, 0025,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0052 0052 0055 0883 0637 0476 6637 0476 0637 0040
CABLE BRAN ABC	D	. 0011,	0153, 0153, 0153, 0153, 0025,	0014, 0017 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0040 0040 0040 0040 0040 004
CABLE BRAN ABC	D	0011,	0153, 0153, 0153, 0153, 0153,	CODE 0014, 0017 0017 0040 00153
CABLE BRAN ABC	D	0011,		CODE 0014, 0017 0017 0017 0017 0017 0017 0017 001
CABLE BRAN ABC	D	0011,	00013, 0153, 0153, 0153, 00153, 00025, 0015, 0015, 00015,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0831 0040 0019 0883 0637 0797 0040 0153 0797 0011,
CABLE BRAN ABC	D	0011, 022,	000153, 0153, 0153, 0153, 00153, 00025, 00015, 00015, 0003, 00276,	0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0883 0637 0476 0637 0476 0400 0153 0797 0041, 0810
CABLE BRAN ABC	D	0011,	(00013,	CODE 0014, 0017 0011, 0014 0014 0010 0014 0010 0014 0015 0014 0019 0014 0010 0019 00114 0010 0014 0010 0010
CABLE BRAN ABC	D	0011,	(00013,	CODE 0014, 0017 0011, 0014 0014 0010 0014 0010 0014 0015 0014 0019 0014 0010 0019 00114 0010 0014 0010 0010
CABLE BRAN ABC	D	0011,		CODE 0014, 0017 0017 0011, 0810, 0797 00273
CABLE BRAN ABC	D	0011,		CODE 0014, 0017 0017 0011, 0810, 0797 00273
CABLE BRAN ABC	D	0011, . 022, . 0476, . 0020,	00013, 0153, 0153, 0153, 00153, 00025, 00015, 0003, 0276, 00040, 0034,	CODE 0014, 0017 0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0831 0040 0019 0883 0637 0797 0041, 0810 0144 0797 0273 0011, 0810 0011 0315
CABLE BRAN ABC	D 0008, 0009, 0003, 0003,	0011, 	(00013,	CODE 0014, 0017 0011, 0014, 0017 0011, 00114 0797 0014, 00114 0797 0011, 00114 0797 0011, 00115 0014, 00114 0015
CABLE BRAN ABC	D	0011, 		CODE 0014, 0017 0014, 0017 0014, 0017 0014, 0017 0014, 0011 0015 0014, 0011, 0014, 0014, 0019 0014, 0019 0014, 0019 0014, 0019 0014,

 Movie Time
 0063

 Multivision
 0012

THE REMOTE CONTRO

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



NOO			
			0000
NSC			
Novaplex			
Oak			
Optimus			0021
Pace		0237,	1877
Panasonic	0000.	0021.	0107
Panther			
Paragon			
Philips		0305	0317
Pioneer 0023,	0005	0000,	MES
	0025,	0031,	1077
Popular Mechanics			
Pulsar			
Quasar			
RCA			0021
RadioShack0015,	0315,	0797,	0883
Recoton			0400
Regal			
Rembrandt			
Runco			
SL Marx			
Samsung			
Scientific Atlanta		0877,	0008,
	0017,	0477,	18//
Signal			
Signature			
Sony			1006
Sprucer			0021
Starcom			
Stargate			
Starquest			
Supercable			
Supermax			
TFC			
Tandy			
TeleCaption			
Teleview			
Timeless			
Tocom		0012,	0013
Torx			0003
Toshiba			0000
Tristar			VOOG
Tristar			
Tusa			0015
Tusa		0022,	0015 0153
Tusa. Unika Universal	0022,	 0022, 0153,	0015 0153 0191
Tusa. Unika Universal V2	0022,	0022, 0153,	0015 0153 0191 0883
Tusa. Unika. Universal. V2 ViewMaster	0022,	0022, 0153,	0015 0153 0191 0883 0883
Tusa. Unika Universal V2 ViewMaster Viewstar	0022,	0022, 0153, 0063,	0015 0153 0191 0883 0883 0258
TusaUnikaUniversalV2ViewMasterViewstarVisionVision	0022,	0022, 0153, 	0015 0153 0191 0883 0883 0258 0883
Tusa. Unika. Universal V2 ViewMaster Viewstar. Vision Vortex View.	0022,	0022, 0153, 0063,	0015 0153 0191 0883 0883 0258 0883
Tusa. Unika. Universal V2 ViewMaster Viewstar. Vision Vortex View Zenith Unika.	0022,	0022, 0153, 0153, 0063,	0015 0153 0191 0883 0883 0258 0883 0883 0899
Tusa. Unika. Universal V2 ViewMaster Viewstar. Vision Vortex View.	0022,	0022, 0153, 0153, 0063,	0015 0153 0191 0883 0883 0258 0883 0883 0899
Tusa. Unika Universal V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000,	0022,	0022, 0153, 0153, 0063, 0063,	0015 0153 0191 0883 0883 0258 0883 0883 0899 0400
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith	0022,	0022, 0153, 0153, 0063, 0063,	0015 0153 0191 0883 0883 0258 0883 0883 0899 0400
Tusa	0022, 0054,	0022, 0153, 0063, 0525, 	0015 0153 0191 0883 0883 0258 0883 0899 0400
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar.	0022, 0054,	0022, 0153, 0063, 0525, 	0015 0153 0191 0883 0883 0258 0883 0899 0400 x)
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision Vortex View. Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar. Anway.	0022, 0054,	0022, 0153, 0063, 0525, 	0015 0153 0191 0883 0883 0258 0883 0899 0400 x)
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar.	0022, 0054,	0022, 0153, 0063, 0525, 	0015 0153 0191 0883 0883 0258 0883 0899 0400 x)
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Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries.	0022, 0054, (Set-T	0022, 0153, 0063, 0525, op-Bo	0015 0153 0191 0883 0883 0258 0883 0899 0400 x) 0772 0075 0095
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations	0022, 0054,	0022, 0153, 0063, 0525, op-Bo	0015 0153 0191 0883 0883 0258 0883 0899 0400 x) 0772 0075 0095 0095
Tusa. Unika. Universal. V2. ViewMaster Viewstar. Vision. Vortex View Zenith. O000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations Capetronic.	0022, 0054, (Set-T	0022, 0153, 0063, 0525, 0043,	0015 0153 0191 0883 0258 0883 0883 0899 0400 x)
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith	0022, 0054, (Set-T	0022, 0153, 0063, 0525, 00 p-Bo	0015 0153 0191 0883 0883 0258 0883 0883 0899 0400 x) 0772 0075 0095 0095 0095 0095 0095 0095
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries. BSR Cable Innovations. Capetronic. Century. Channel Master.	0022, 0054, (Set-T		0015 0153 0191 0883 0883 0258 0883 0899 0400 x) 0772 0075 0095 0095 0554 0095 0856 0212
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View Zenith0000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR. Cable Innovations Capetronic. Century Channel Master. Chapparral	0022, 0054, (Set-T	0022, 0153, 0063, 0525, 009-Bo	0015 0153 0191 0883 0883 0883 0899 0400 772 0075 0095 0554 0095 0554 0212 0216
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith. O000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR. Cable Innovations Capetronic Century Channel Master. Chapparral Conifer.	0022, 0054, (Set-T	0022, 0153, 0063, 0525, 0043, 0018, 0209,	0015 0153 0191 0883 0258 0883 0899 0400 x) 0772 0095 0095 0095 0854 0095 0856 0861 0004
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations Capetronic Century Channel Master. Chapparral Conifer. Crossdigital	0022, 0054, (Set-T	0022, 0153, 0063, 0525, 00043, 0018, 0209,	0015 0153 0191 0883 0258 0883 0258 0883 0899 0400 x) 0772 0075 0095 0095 0095 0212 0216 0004 1109
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith	0022, 0054, (Set-T	0022 0153, 0063, 0525, 0043, 0018, 0209,	0015 0153 0191 0883 0883 0258 0883 0889 0400 0772 0075 0095 0095 0095 0212 0216 0004 0004 0000 1109 0016
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith	0022, 0054, (Set-T	0022 0153, 0063, 0525, 009-Bo	0015 0153 0191 0883 0883 0258 0883 0899 0400 0772 0075 0095 0095 0095 0212 0216 0004 1109 0041
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View Zenith 2enith 0000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries. BSR. Cable Innovations. Capetronic. Century. Channel Master. Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566,	0022, 0054, (Set-T	0022 0153, 0063, 0525, 0043, 0018, 0209,	0015 0153 0191 0883 0258 0883 0258 0883 0899 0400 0772 0075 0095 0095 0095 0216 0004 1109 0041 11142,
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Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations Capetronic Century Channel Master Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566, 0247, 0749, 1856, 1076,	0022, 0054, (Set-T 0053, 1749, 1109,	0022, 0153, 0063, 0525, 00043, 0018, 0209, 1639, 0724, 0009,	0015 0153 0191 0883 0883 0258 0883 0899 0400 x)
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations Capetronic Century Channel Master. Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566, 0247, 0749, 1856, 1076, 1053, 1054,	0022, 0054, (Set-T 0053, 1749, 1109, 1442,		0015 0153 0191 0883 0883 0258 0883 0899 0400 0772 0075 0095 0554 0095 0212 0206 1109 061 0041 1149 1082 1444
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith	0022, 0054, (Set-T 0053, 0639, 1749, 1109, 1442, 1005,	0022 0153, 0063, 0525, 00943, 0018, 0209, 0724, 00099, 0724, 0099, 0775,	0015 0153 0191 0883 0883 0258 0883 0899 0400 0772 0075 0095 0095 0095 0212 0216 0004 1109 0041 1142, 0819, 1052, 1444 1170
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View. Zenith	0022, 0054, (Set-T 0053, 0639, 1749, 1109, 1442, 1005,	0022 0153, 0063, 0525, 00943, 0018, 0209, 0724, 00099, 0724, 0099, 0775,	0015 0153 0191 0883 0883 0258 0883 0899 0400 0772 0075 0095 0095 0095 0212 0216 0004 1109 0041 1142, 0819, 1052, 1444 1170
Tusa. Unika. Universal. V2 ViewMaster Viewstar. Vision. Vortex View Zenith. O000, Zentek. SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR. Cable Innovations Capetronic. Century. Channel Master. Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566, 0247, 0749, 1856, 1076, 1053, 1054, Dish Network System DishPro	0022, 0054, (Set-T 0053, 0639, 1749, 1109, 1442, 1005,	0022 0153, 0063, 0525, 009-Bo 0043, 0018, 0209, 0724, 0099, 1443, 0075, 1005,	0015 0153 0191 0883 0883 0258 0883 0899 0400 x) 0772 0095 0095 0095 0216 0004 1109 0041 1142, 0819, 1052, 1444 1170 0775
Tusa. Unika Universal V2 ViewMaster Viewstar. Vision. Vortex View Zenith. O000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR. Cable Innovations Capetronic Century. Channel Master. Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566, 0247, 0749, 1856, 1076, 1053, 1054, Dish Network System DishPro Drake.	0022, 0054, (Set-T 0053, 1749, 1109, 1442, 1005, 0018,	0022, 0153,	0015 0153 0191 0883 0258 0883 0258 0883 0899 0400 0772 0075 0095 0095 0554 0095 0216 0004 1109 0041 1142, 0819, 1052, 1444 0775 0245
Tusa. Unika Universal V2 V2 ViewMaster Viewstar. Vision. Vortex View Zenith 0000, Zentek SATELLITE BRAND CODE AlphaStar. Amway. Astro Industries BSR Cable Innovations Capetronic Century Channel Master. Chapparral Conifer. Crossdigital Curtis Mathes DX Antenna. DirecTV 0392, 0566, 0247, 0749, 1856, 1076, 1053, 1054, Dish Network System Dirake. Echostar.	0022, 0054, (Set-T 0053, 1749, 1109, 1442, 1005, 0018,	0022 0153, 0063, 0525, 009-Bo 0043, 0209, 1639, 0724, 0099, 1443, 0775, 1005, 0064, 0775,	0015 0153 0191 0883 0288 0883 0258 0883 0899 0400 0772 0075 0095 0095 0095 0216 0004 1109 .061 1142, 041 1141, 1052, 1444 1170 0775 0745 0755 00148,
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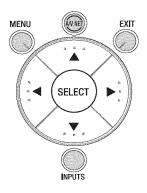
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Philips 1142, 0749, 072	4, 1076,
	6,0099
Pico	0075
Proscan 039	2 0566
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Radioshack	9 0554
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Strong	21, 0547 0421 l3, 1444 9, 0790, 2, 1053, 37, 1289 0547
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Strong	21, 0547 0421 43, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074,
Strong	21, 0547 0421 43, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074,
Strong Fivo	21, 0547 0421 !3, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 61, 0064
Strong Fivo	21, 0547 0421 43, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 61, 0064 CODE
Strong Fivo	21, 0547 0421 l3, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 61, 0064 CODE
Strong Fivo	21, 0547 0421 l3, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 61, 0064 CODE
Strong Tivo	21, 0547 0421 13, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 10, 0554 i1, 0064 0406 0406 0406
Strong Tivo	21, 0547 0421 13, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 i1, 0064 0406 0406 0406 0406
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Strong Fivo	21, 0547 0421 l3, 1444 9, 0790, 2, 1053, 87, 1289 0547 2, 0074, 70, 0554 51, 0064 0466 0466 0269 0300
Strong Fivo	21, 0547 . 0421 13, 1444 19, 0790, 2, 1053, 37, 1289 . 0547 2, 0074, 0, 0554 61, 0064 . CODE
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Strong Fivo	21, 0547 . 0421 13, 1444 9, 0790, 2, 1053, 37, 1289 . 0547 2, 0074, 70, 0554 61, 0064 . CODE 0406 0269 0300
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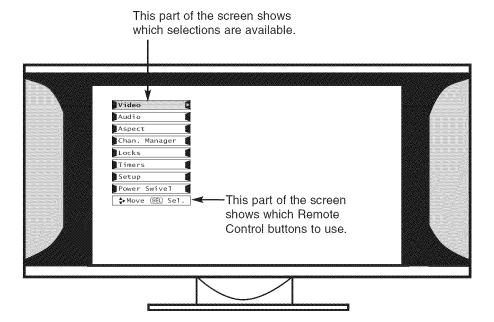
Sony 0815, 0689, 0220

Soundesign			. 0078,	021
Technics			0308,	052
Toshiba				035
/ictor Wards		0012	0070	000
Yamaha		. 0013,	0076,	043
ramana			0004,	010
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Sose		0639,	1229,	125
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Coby				126
Compag				113
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	0027,	0042,	0186,	023
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Musicmagic				
Nakamichi				009
Onkvo			0135.	084
Optimus	1023.	0042.	.0800	0177
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	0670,	0738,	0801,	107
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Polk Audio	0150,	0244,	0551,	018
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Quasar				000
RCA				003
		1023,	1254,	003)800
		1023, 0531,	1254, 1074,	0080 160
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Radio Shack . Realistic		1023, 0531,	1254, 1074, 0181,	0080 160 126 019
Radio Shack . Realistic Rio		1023, 0531, 	1254, 1074, 0181,	0080 160 126 019 138
Radio Shack . Realistic Rio Sansui		1023, 0531,	1254, 1074, 0181,	0080 160 126 019 138 018
Radio Shack . Realistic Rio Sansui Sanyo		1023, 0531,	1254, 1074, 0181, 0801,	0080 160 126 019 138 018 125
Radio Shack . Realistic Rio Sansui Sanyo Scott		1023, 0531,	1254, 1074, 0181, 0801, 0163,	0080 160 126 019 138 018 125 032
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharp		1023,	1254, 1074, 0181, 0801, 0163,	0080 160 126 019 138 018 125 032 018
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image		1023, 0531,	1254, 1074, 0181, 0801, 0163, 	0080 160 126 019 138 018 125 032 018 126
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue		1023, 0531,	1254, 1074, 0181, 0801, 0163, 0491,	0080 160 126 019 138 018 125 032 018 126 050 138
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue		1023, 0531,	1254, 1074, 0181, 0801, 0163, 0491,	0080 160 126 019 138 018 125 032 018 126 050 138
Radio Shack . Realistic Rio Sansui Sanyo Soott Sharper Image Sherwood Sonic Blue Sony	1058,	1023, 0531, 1441, 1349,	1254, 1074, 0181, 0801, 0163, 0491, 1759, 1406,	0080 160 126 019 138 018 125 032 018 126 050 138 0158
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue Sony	1058,	1023, 0531, 1441, 1349,	1254, 1074, 0181, 0801, 0163, 0491, 1759, 1406,	0080 160 126 019 138 018 125 032 018 126 050 138 0158 144 067
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue Sony	1058, 0474,	1023, 0531, 1441, 1349,	1254, 1074, 0181, 0801, 0163, 0491, 1759, 1406, 	0080 160 126 019 138 018 125 032 018 126 050 138 0158 144 067 102
Radio Shack . Realistic Rio Sansui Scott Sharp Sharper Image Sherwood Sonic Blue Soundesign Stereophonics Sunfire	1058, 0474,	1023, 0531, 1441, 1349,	1254, 1074, 0181, 0801, 0163, 0491, 1759, 1406, 	0080 160 126 019 138 018 125 032 018 126 050 138 0158 144 067 102 131
Radio Shack . Realistic . Rio Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue . Sonic Blue . Soundesign Stereophonics . Sunfire	1058, 0474,	1023, 0531, 1441, 1349,	1254, 1074, 0181, 0801, 0163, 1759, 1406, 	0080 160 126 019 138 018 125 032 018 126 050 138 0158 144 067 102 131 107
Radio Shack . Realistic . Rio Rio Sansui Sanyo Sharper Image Sharper Image Shonic Blue . Sonic Blue . Soundesign . Stereophonics Sunfire Feac	1058, 0474,	1023, 0531, 1441, 1349, 1518,	1254, 1074, 0181, 0801, 0163, 0491, 1759, 1406, 0463, 0039,	0080 160 126 019 138 018 125 032 018 126 050 138 0158 144 067 102 131 107 030
Radio Shack . Realistic . Rio Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue Sony Soundesign Stereophonics Stereophonics Feac	1058, 0474, 1308,	1023, 0531, 	1254, 1074, 0181, 0801, 0163, 1759, 1406, 0463, 0039,	0080 160 126 019 138 018 125 032 018 126 050 138 00158 144 067 102 131 107 030 118
Radio Shack . Realistic Rio Sansui Sanyo Scott Sharper Image Sherwood Sonic Blue	1058, 0474,	1023, 0531, 1441, 1349, 1518,	1254, 1074, 0181, 0801, 0163, 1759, 1406, 0463, 0039,	0080 160 126 019 138 018 125 032 018 126 050 138 00158 144 067 102 131 107 030 118 157

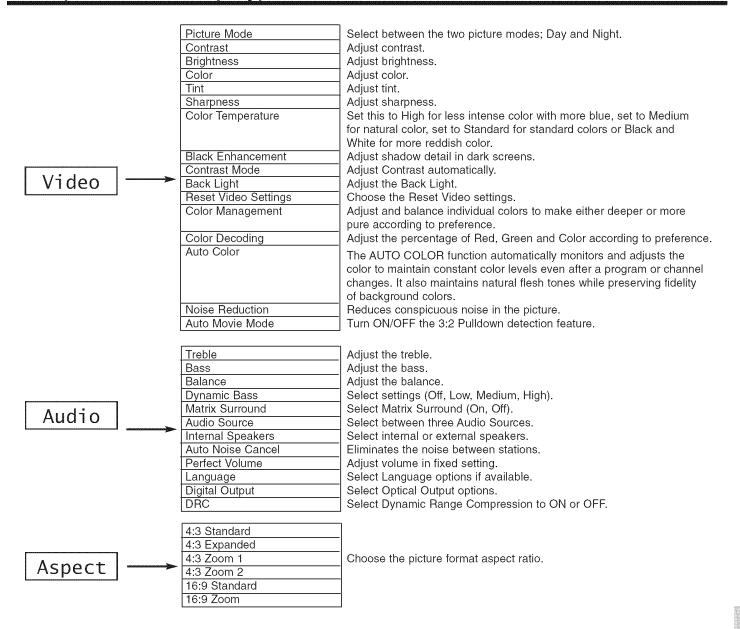
Wards0014, 0080, 0158,	0189
Yamaha 0176, 0186,	
Yorx	0195
Zenith	
Zeriiur	0037
AUDIO BRAND	ODE
Aiwa 0010	0159
Aiwa0010, AudioSource	0351
Cambridge Soundworks	0351
Carver	
Fisher	
Fosgate	
Harmon/Kardon	
JBL	04//
JVC	
KLH	
Magnavox	
Nikko	0376
Paramount Pictures0317,	0351
RCA	
SSI	0317
Sansui	0325
Schneider	0376
Sony	0576
Soundesign	
Yorx	
SET TOP BOX BRAND C	
Panasonic	1120
Pioneer	1010
Princeton 0113,	0295
Samsung	1190
Sensory Science	
Sharp	
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BRAND	
Panasonic	
Philips	0610
PoplovTV 2044	0010
ReplayTV0614,	
SonicBlue	
Sony	0636
Tivo	0636

- 1. Press MENU on the remote control to display the different features on your HITACHI LCD 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.

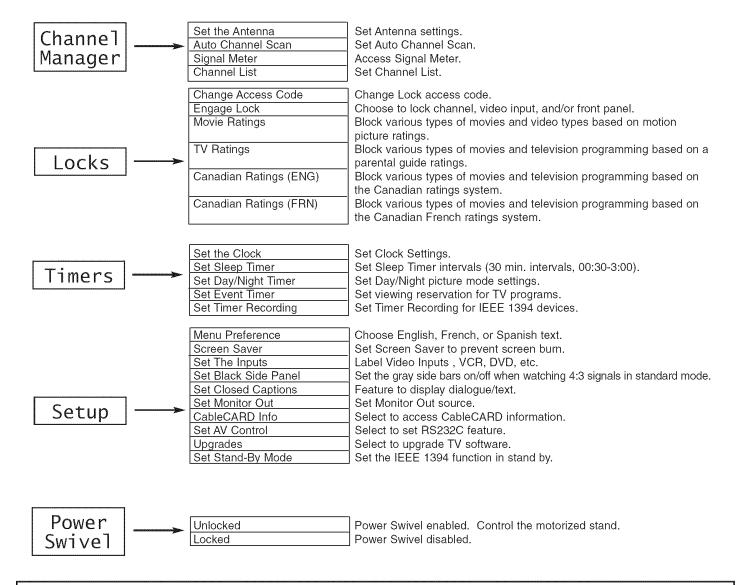




OSD (On-Screen Display)



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



NOTES:

- 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).

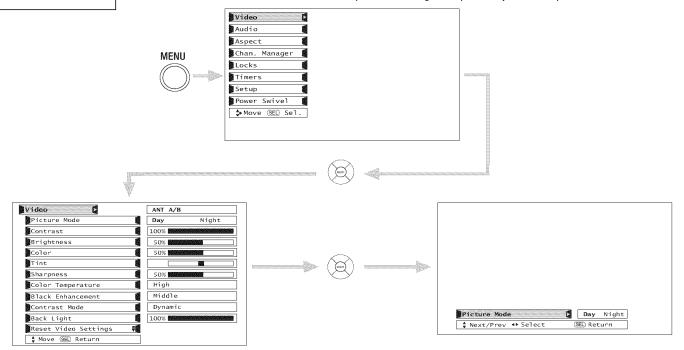
VIDEO

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

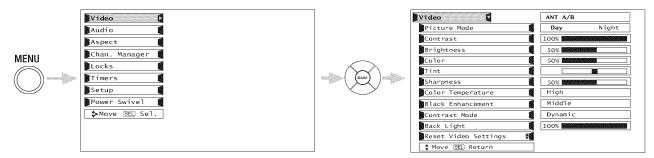
Use this function to choose from automatic picture settings to optimize your TV's performance.



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

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

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.

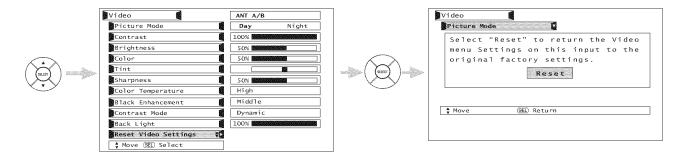
Contrast Mode

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.

Back Light

Use this function to adjust the amount of Back Light.

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.



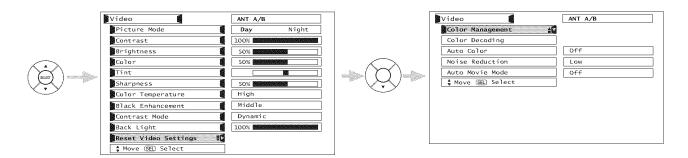
Use CURSOR PAD to highlight functions.

Press the SELECT button to select Reset Video Settings.

Use the CURSOR PAD ▼ to access other video settings.

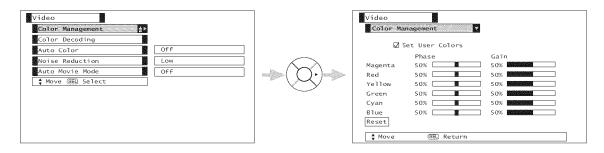
You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If RESET is selected, only the selected Input will reset to the initial conditions as explained above.

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.

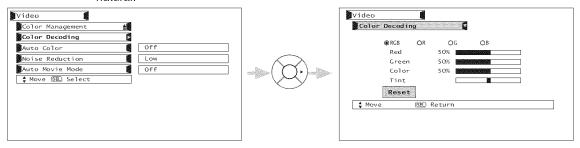
Press the CURSOR PAD ◀, ▶, ▼, ▲, to highlight and adjust individual colors.

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.

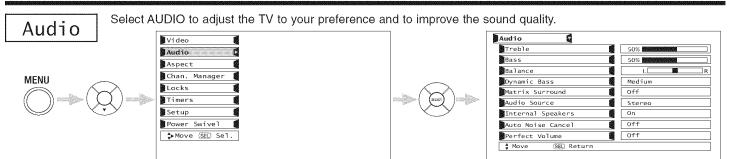
When Auto Movie Mode is turned ON from the VIDEO menu, your Hitachi LCD Television will activate the circuitry for this special feature to improve video performance when watching film based sources.

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
32"	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



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

Press CURSOR PAD ◀ or ▶ to adjust the function.

Press EXIT to quit the MENU, or select Audio to return to the main menu.

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

Treble

This function controls the high frequency audio to all speakers.

Bass

This function controls the low frequency audio to all speakers.

Balance

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

Dynamic Bass

This function complements and enhances bass performance.

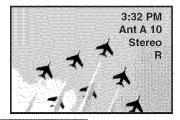
Matrix Surround

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

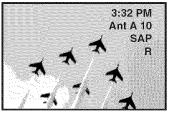
Audio Source

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 LCD TV speakers and the sub-woofer output are OFF. Also, set to OFF, if you prefer to use only your head-phones.

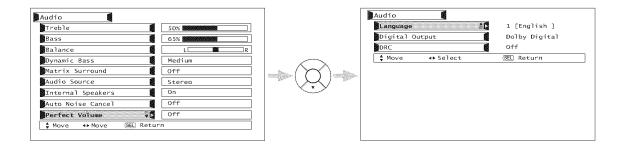
Auto Noise Cancel

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.

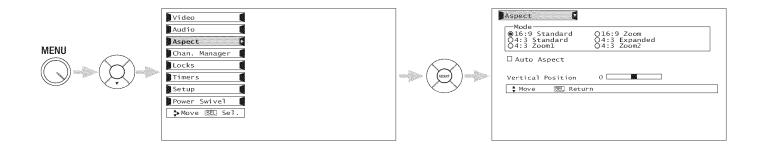
DRC

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 the Select button 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 29 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.

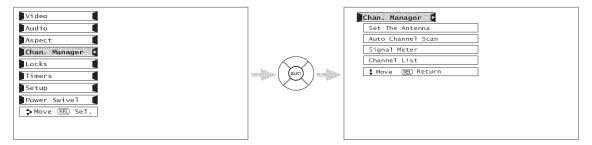
Press CURSOR PAD ◀ or ▶ to adjust the function.

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

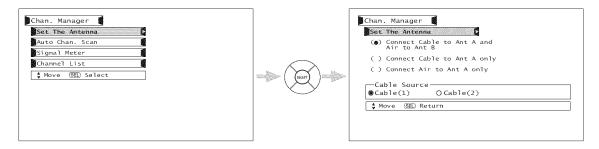
Select Channel Manager to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.



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

Set The Antenna

This feature will select Antenna options.

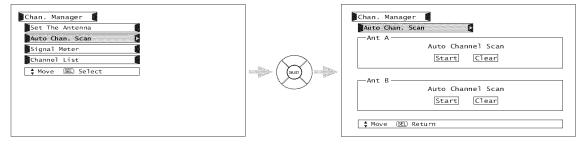


Press CURSOR PAD ▲, ▼ to highlight function, the press the SELECT button to select.

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 ▲, ▼, ◀, ▶ to highlight Ant A or Ant B.

Press CURSOR PAD ◀, ▶ to highlight the Start or Clear option.

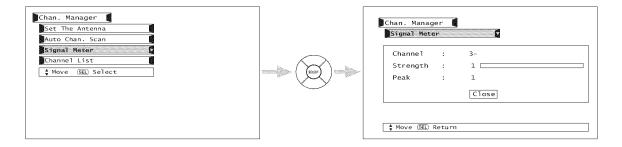
Press the SELECT button to start Auto Channel Scan.

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.

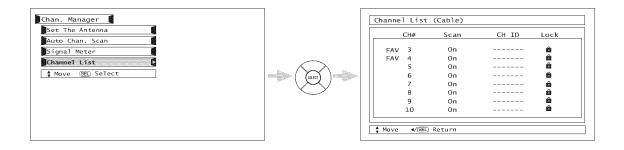


Use the CURSOR PAD and the SELECT button to highlight and select "close" to exit.

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.



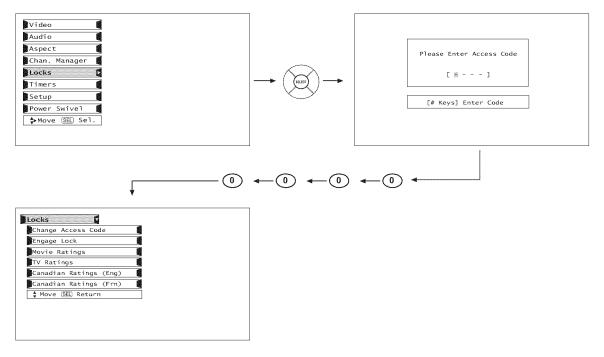
Use the CURSOR PAD to navigate the Channel List. Press the CURSOR PAD (\blacktriangle , \blacktriangledown) to select On or Off on the Scan column. Press the EXIT button to return to normal viewing.

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.

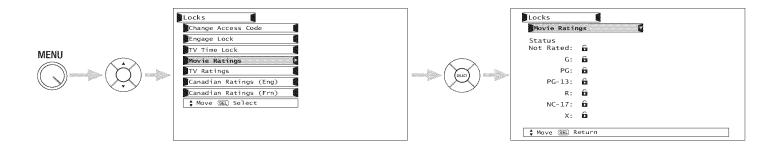
Press EXIT to quit the menu.

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

62

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

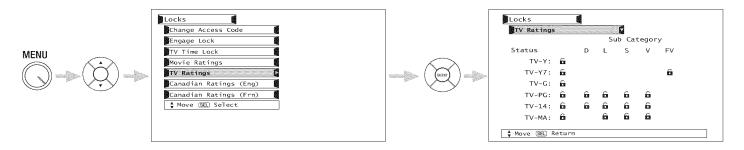
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	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 LCD Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the Locks feature, you will not be able to tune to that channel.

TV Ratings

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



Use the CURSOR PAD ▲ or ▼ to highlight the category that you want to block. Press select to block the TV RATINGS that you have selected. Press EXIT to guit 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.

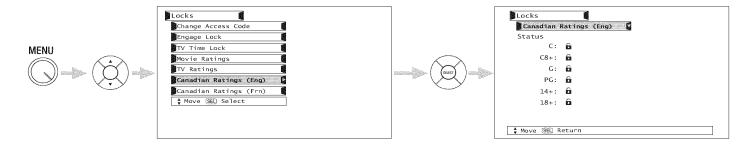
NOTES:

- 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.
- 2. TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.
- 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the LCD 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.



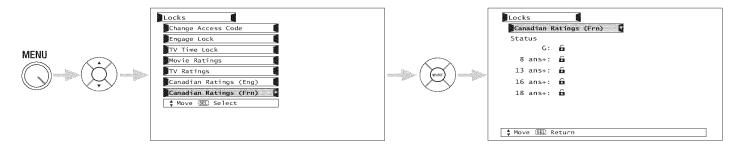
Use the CURSOR PAD ▲ or ▼ to select the CANADIAN RATINGS (Eng) category that you want to block. Press SELECT to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically. Press EXIT to guit 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.
	Adult - Violence Guidelines: May contain violence integral to the development of the

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.

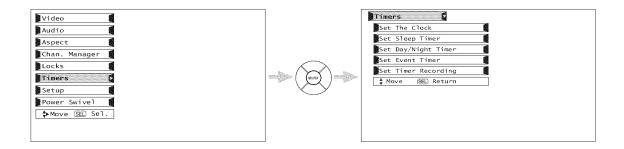
Press EXIT to quit menu or select the CURSOR PAD ◀ to return to the previous menu.

Canadian Ratings French Chart

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

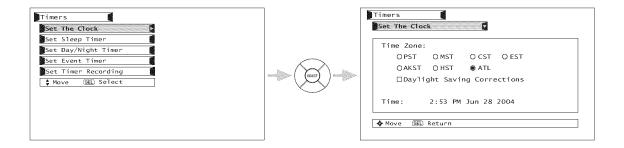
Timers

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 , \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.

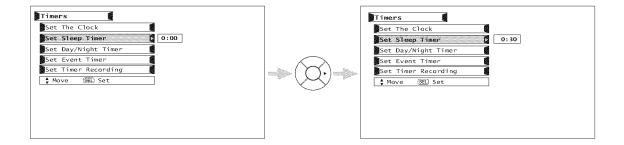
Press EXIT to guit the menu.

NOTES:

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

Set Sleep Timer

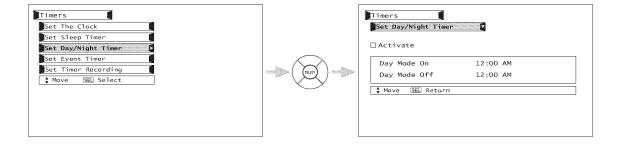
Select this feature to set your Sleep Timer from 30 minutes to 3 hours (30 minute increments).



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.

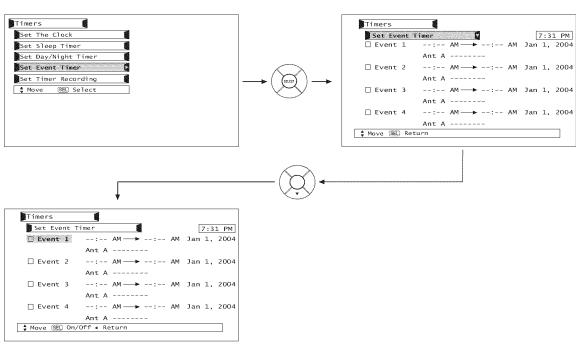


Use the CURSOR PADS and the SELECT button to activate the Day/Night Timer. Use the CURSOR PADS to select Day Mode On and to set it's timer. Use the CURSOR PADS to select Day Mode Off and to set it's timer.

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 ▶, ▲, ▼ or NUMBER buttons to set the channel the TV will tune into.

A " \checkmark " in the box means it is enabled.

NOTE:

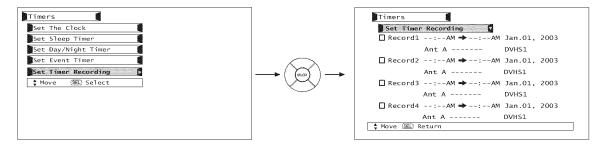
- 1. When the INFO button is pressed, the Event Timer Icon will only display the current date ON/OFF timer.
- The Off Timer will only activate if the TV was turned on by the On Timer and no channel selection was made after this time. If you change the channel after the On Timer has been activated, the 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.

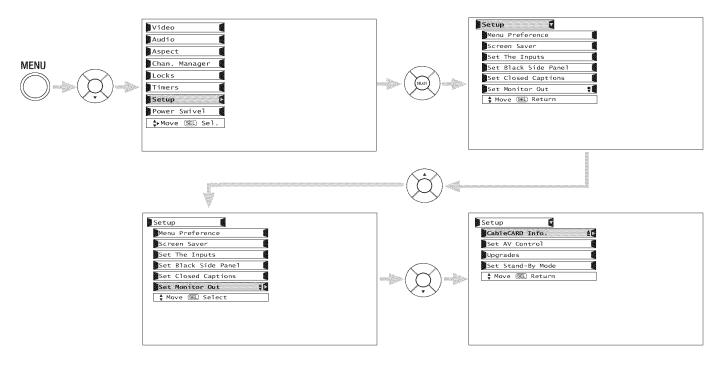
NOTES:

- 1. Set the Time and connect the IEEE1394 devices before using this feature.
- 2. 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

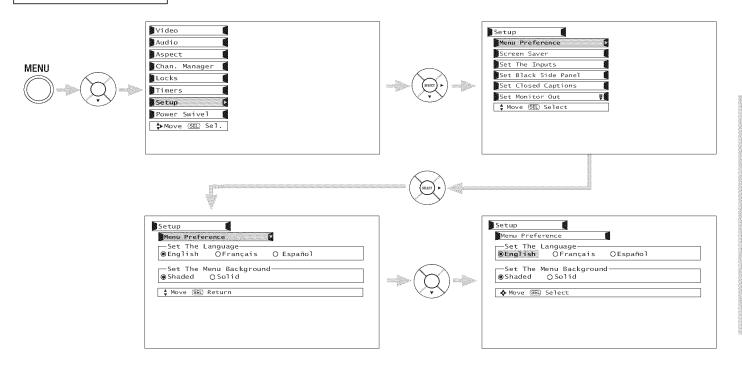
Select SETUP when setting up your TV for the first time. Use the CURSOR PAD ▲ or ▼ on the remote to highlight the function desired.



Use CURSOR PAD (▲,▼, ◄,▶)to select the sub-menu of your choice. Press the SELECT button to select.

Menu Preference

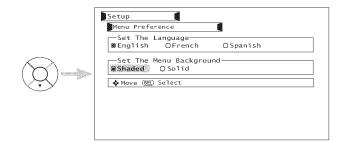
This feature will allow you to select any one of three different languages for all on-screen displays.



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

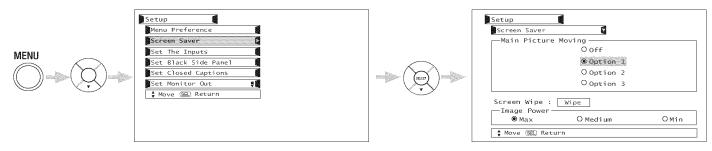
This function allows you to choose from two menu backgrounds.



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 LCD 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.

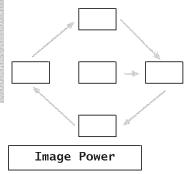
Option 3

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

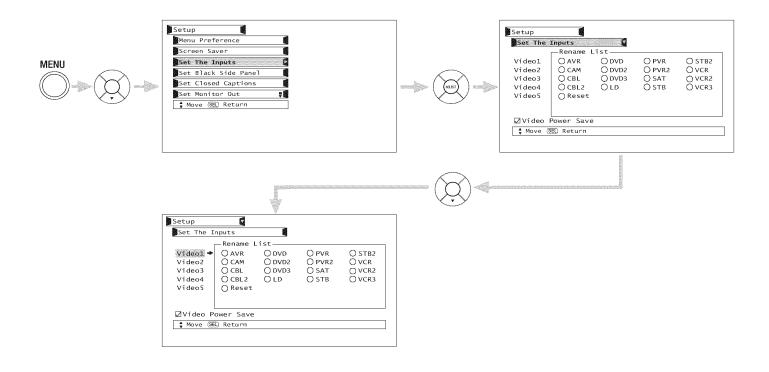


This function allows you to choose Power Consumption reduction.

SETUP

Set The Inputs

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



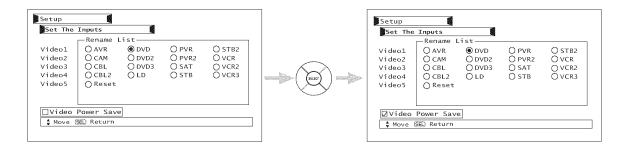
Press CURSOR PAD ▲, ▼ to highlight the name of the video inputs. Press the SELECT button to select desired input name.

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

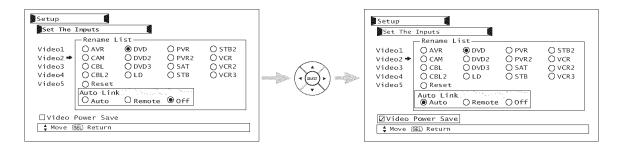
Use this feature to reduce power consumption for video input when there is no video input signal. In RGB mode, this feature will always be on.



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 guit the menu.

NOTES: 1.

- 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

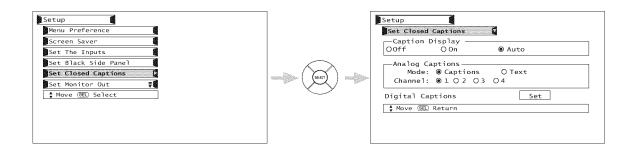
NOTES:

- 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 co 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).

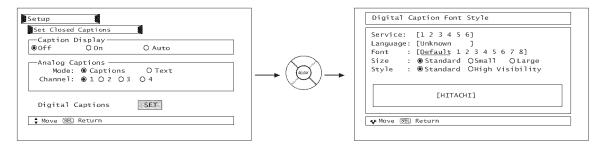
2 is sometimes used for a second language (may vary by region).

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 ▲, ▼, ◀, ▶ to highlight the function to change then press the SELECT button to select the function. Press EXIT to quit menu or the CURSOR PAD ◀ 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 ▲, ▼, ◀, ▶ to highlight desired Digital Captions feature.

Press the SELECT button to select desired feature.

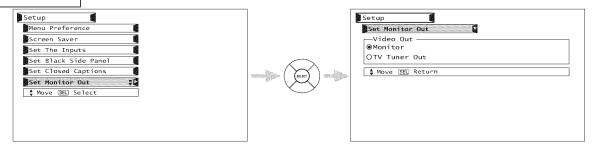
Press EXIT to quit menu or the CURSOR PAD ◀ to return to previous menu.

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.

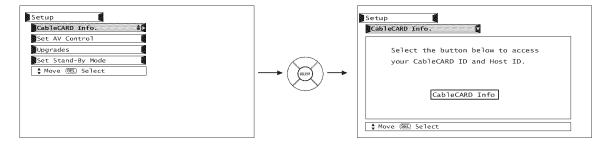
TV Tuner Out- Select TV Tuner Out to output the audio and video signals of the last watched Antenna Source (ANT A, ANT B).

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

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

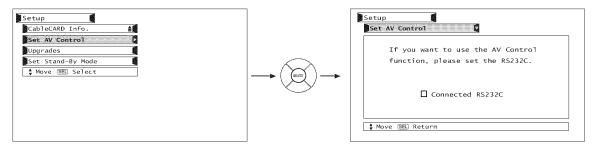
CableCARD Info

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.



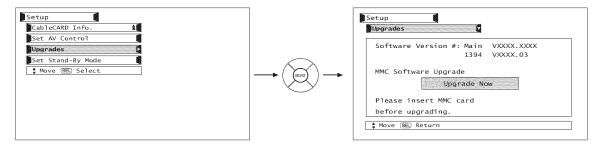
Use the CURSOR PADS and the SELECT button to check the Connected RS232C box.

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.



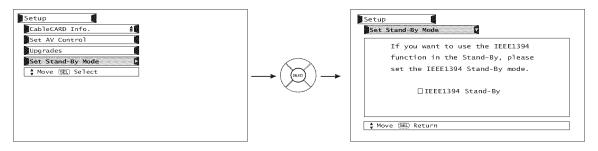
Insert MMC card, then press the CURSOR PAD ▲, ▼ to highlight "Upgrade Now". Press the SELECT button to select and start upgrading.

NOTE: Any por

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

Set Stand-By Mode

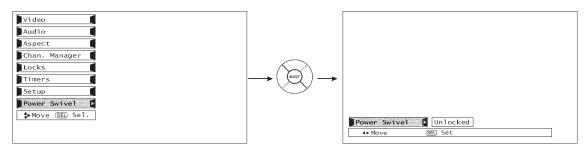
This function sets the IEEE1394 in Stand-By Mode to ON or OFF. Certain digital devices have a power save feature, in which the device automatically powers OFF when not in use (sleep mode). Only by setting the IEEE1394 function in Stand-By mode to ON, will the TV be able to control a device that is in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

Release the CURSOR PAD to stop rotation.

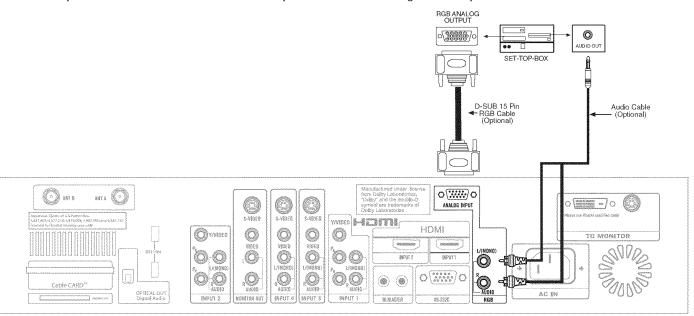
NOTES:

- 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 LCD Television can automatically detect and display the signal format below.

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

Recommended Signal List

	Signal Mode			ова и поточно по поточно по
No.			Vertical	Horizontal
	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).

2. 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.

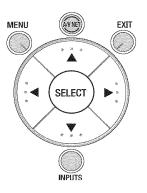
Either horizontal or vertical frequency is inappropriate or out of range.

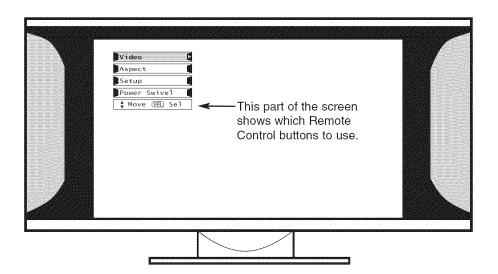
INVALID SCAN FREQ. will disappear after 60 seconds.

- **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.

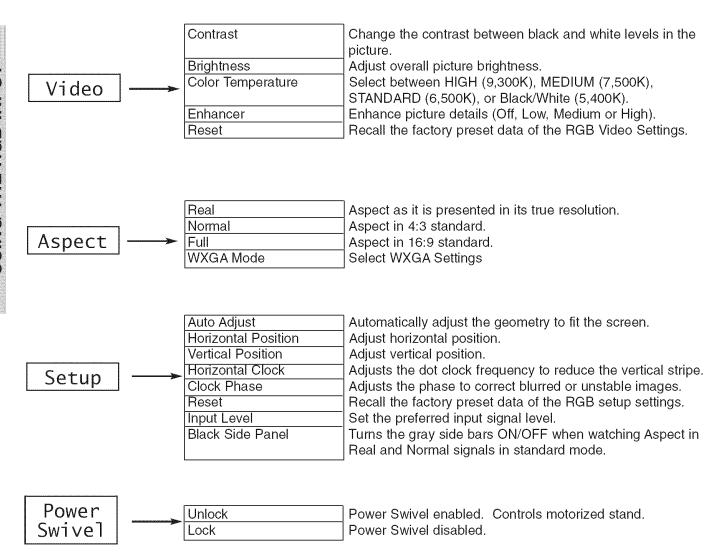


- 1. Press the INPUTS button, then use the CURSOR PAD and SELECT button on the remote control to display the different features in RGB MODE.
- 2. Press EXIT on the remote control to quickly exit from a menu.









RGB ON SCREEN DISPLAY



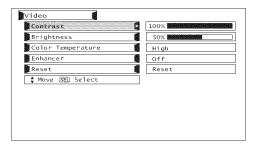
VIDEO ADJUSTMENTS

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.



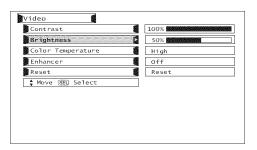
Use CURSOR PAD ◀ or ▶ to adjust contrast. Press MENU button to return to RGB MODE MENU and EXIT to quit.

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.

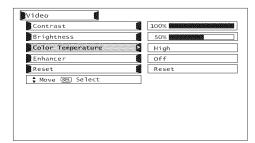


Use CURSOR PAD ◀ or ▶ to adjust brightness.

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

COLOR TEMPERATURE

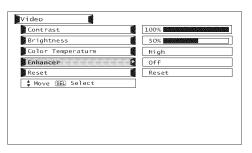
Use the CURSOR PAD ◀ or ▶ to change the COLOR TEMPERATURE. Set to HIGH for a cooler picture with more blue (1,200K), set to MEDIUM for more natural color (9,300K), or set to STANDARD for accurate color (6,500K), or Black/White (5,400K).





ENHANCER

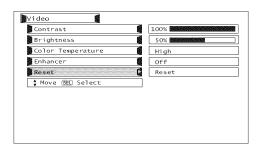
Enhances the picture detail.



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

RESET

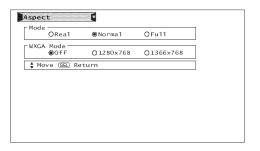
Set CONTRAST, BRIGHTNESS, COLOR TEMPERATURE, and ENHANCER to factory preset condition.



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 (Analog) INPUT SIGNAL					
	Others	SVGA/XGA	VGA	480p	720p	1080i
ASPECT	X	REAL	REAL	REAL(1)	X	X
MODE	NORMAL	NORMAL	NORMAL	NORMAL(1)	Х	X
AVAILABILITY	FULL	FULL	FULL	FULL(1)	FULL(2,3)	FULL(2,3)

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

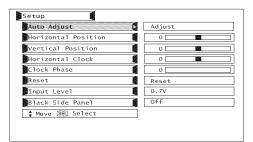
NOTES: 1. Lack of raster can be seen in RGB when a 480p signal is input.

- 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).



AUTO ADJUST

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



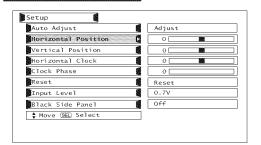
Use CURSOR PAD ◀, ▶ cursors to highlight adjust. Press SELECT to select AUTO ADJUST.

NOTES: Press SELECT to AUTO ADJUST the RGB mode.

- The other functions do not operate while AUTO ADJUST is in progress.
- Allow the LCD 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

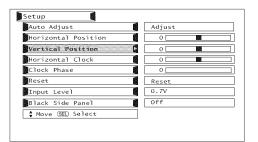
This feature allows you to adjust the horizontal position of the display.



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.



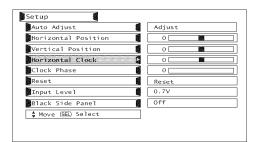
Use CURSOR PAD ◀, ▶ to adjust the vertical position.

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.

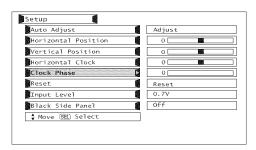


Use CURSOR PAD ◀, ▶ to adjust the horizontal clock. Press the MENU button to return to previous menu. Press EXIT to quit.

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

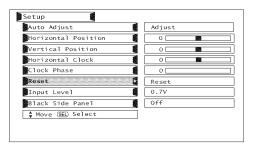
Adjusts the phase to correct blurred or unstable images.



Use CURSOR PAD ◀, ▶ 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.

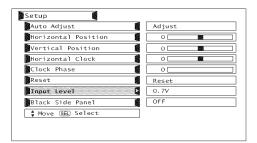


Use CURSOR PAD ◀, ▶ to highlight Reset.
Press the SELECT button to RESET to factory preset settings.



INPUT LEVEL

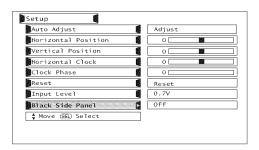
Select the Input Level voltage between 0.7V and 1.0V.



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

BLACK SIDE PANEL

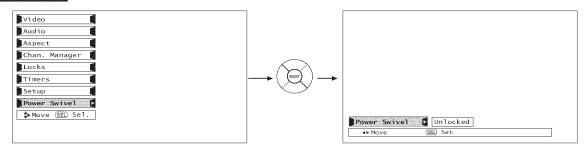
The BLACK SIDE PANEL function turns the gray side bars ON/OFF when watching Aspect in Real and Normal signals in Standard Mode.



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

POWER SWIVEL

This feature controls the motorized stand. It allows the customer to turn the LCD 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.

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 LCD 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 LCD Television away from extreme heat, humidity, and extremely dusty places.

Remove the plug (AVC Center/Display Monitor) from the wall outlet if your LCD 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 LCD 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.

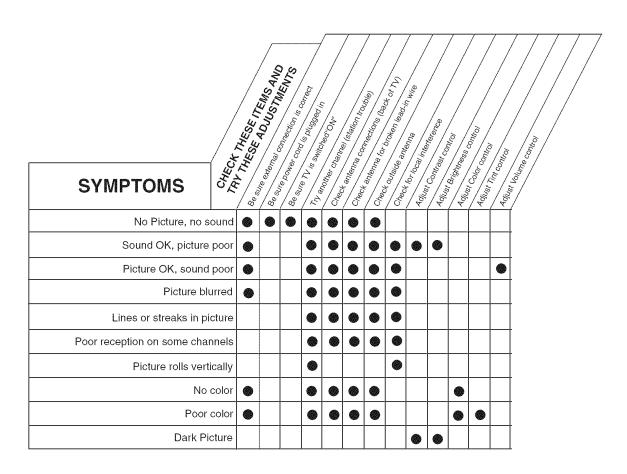
Exposing the screen to direct sunlight for a long period of time or heat may cause damage to the LCD screen.



• 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.

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





HITACHI Liquid Crystal Display incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.

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

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

This protective technology should provide for years of lasting entertainment from your HITACHI Liquid Crystal Display.

PLUG and PLAY



This LCD 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 LCD Television receiver will display television closed captioning, (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 (32")
- High-Contrast Pure-Color Glass Shield
- Wide Viewing Angle: More than 170°
- 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) (32")

Inputs:

	Power Input
	Power Consumption - Refer to rear panel at the back of the LCD
	Monitor and AVC Center
	Antenna input impedance
•	Channel coverage
	UHF-Band
	CATV Mid Band
	A-I
	Super BandJ-W
	Hyper Band
	Video
	S-Video
	Luminance (Y)1.0Vp-p, 75 Ohm
	Chrominance (C)0.286Vp-p, 75 Ohm
•	Component Video
	Luminance (Y)
	Chrominance (P _B /P _R) 0.7Vp-p, 75 Ohm
	Audio input Impedance47k Ohm
	Audio input Impedance
	Audio input Impedance47k Ohm
*	Audio input Impedance47k Ohm Average input level470mVrms RGB0.7Vp-p, 75 Ohm

Audio470mVrms, 1k Ohm Optical Out (Digital Audio)1 Optical Connector

Audio:

- MTS Stereo/SAP
- Dynamic Bass 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)

INPUTS/OUTPUTS

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

SPECIFICATIONS

Multi-Scanning:	24-109kHz (h), 50-85Hz (v)
Pixel Pitch0.5	I(horiz.) x 0.51(vert.) mm (32")
FCC class:	B for Consumer Use
Power Requirements:	108-132V, 60Hz

DIMENSIONS

		32
	Width	30 3/4"
	Height	17 3/4"
•	Depth	2 1/16"
	Weight	86 lbs.

Audio Video Control Center

	Width16	15	/16"
	Height	3	3/8"
8	Depth	9	1/2"
	Weight	9.5	lbs.

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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¹ Screen mode availability varies by input format



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



Hitachi Canada, LTD. Digital Media Division

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

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

Monday - Friday EST 9:00am - 7:00pm Saturday EST 9:00am - 5:00pm

Look for your French Manual on the outside of the box. If the manual is missing, call

1-800-HITACHI (1-800-448-2244)

for a copy.

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

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

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

La version française de votre manual se trouve à l'extérieur de la boîte. Si le manuel est manquant, coposez le

> 1-800-HITACHI (1-800-448-2244)

pour obenir votre copie.

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