HITACHI
Inspire the Next

LCD Flat Panel TELEVISION

Operating Guide for 37HLX99

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

ENERGY STAR

TV GUIDE

ULTRAVISION

Director's Series

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.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this LCD television.
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding

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.
15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
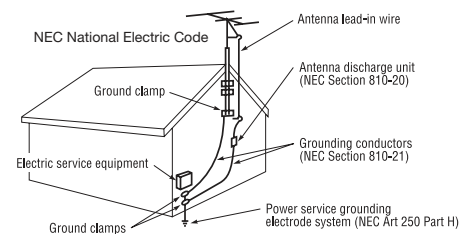
Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-44 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Important Safety Instructions

Power source

This LCD television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet. The power cord is used as the disconnect device and shall remain readily operable.

To prevent electric shock, do not use the LCD 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 LCD television to 50 Hz, direct current, or anything other than the specified voltage.

Caution

Never remove the back cover of the LCD television 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.

Caution

Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by **HITACHI** could void the user's warranty.

Warning

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The 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.
- This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

Public viewing of copyrighted material

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company.

Note

- There are no user serviceable parts inside the LCD television.
- Model and serial numbers are indicated on back side and right side of the LCD television (page 78).

Lead/Mercury Notice

(Hg) This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp 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 **www.eRecycle.org** (in California), the Electronic Industries Alliance at **www.eiae.org** (in the US) or the Electronic Product Stewardship Canada at **www.epsc.ca** (in Canada).
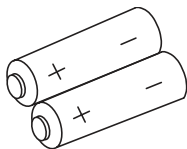**FOR MORE INFORMATION, CALL 1-800-HITACHI.**

Accessories

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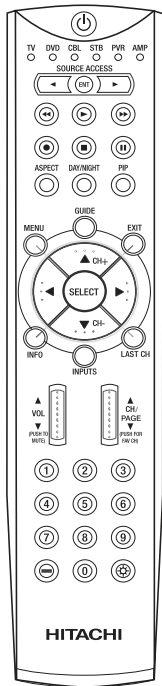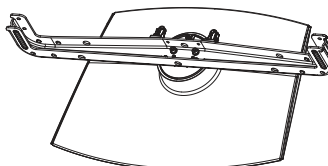
❶ Remote Control

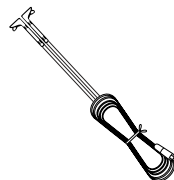❷ Two "AA" size, 1.5V batteries

❸ Power Cord

❻ Power Swivel Cable

❹ Table Top Stand

❺ 2 IR Blaster Cables

❼ 1 Ferrite Core (see page 14)

Note: Please visit our website for optional accessories.

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

⚠ *CAUTION:*   1. *Ceiling mounting is not recommended. Mounting the panel on the ceiling does not provide adequate ventilation for the electronics or proper support for the front glass panel. This LCD television product is designed for a maximum tilting angle of 45 degrees from vertical.*
   2. *This stand for use only with Hitachi **37HLX99**. Use with other apparatus is capable of resulting in instability causing possible injury.*

❶ Remote Control Unit CLU-3861WL (Part No. HL02069).
❷ Two "AA" size, 1.5V batteries (P# FQ00021).
❸ Power Cord (P# EV01841).
❹ Table Top Stand (P# QJ02673).

❺ Two IR Blaster cables (P# EY01641).
❻ Power Swivel Cable (P# EW08432).
❼ 1 Ferrite Core (P#2169513).

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

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

BOTTOM VIEW (Remote Control)

Press down and slide back to remove.
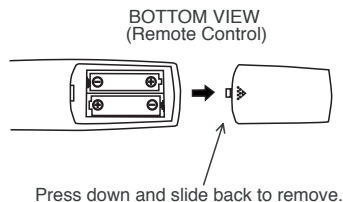
⚠ *CAUTION: Do not insert batteries with the '+'and '-' polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.*

How To Set Up Your New Hitachi LCD Television

To take measures to prevent the LCD Television from tipping over and prevent possible injury it is important to mount the unit in a stable and flat surface.
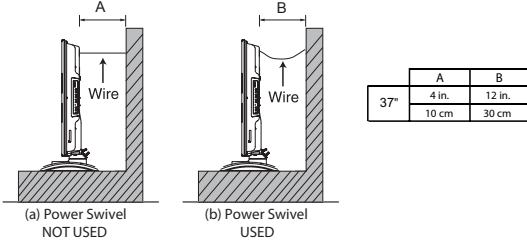
Securing to a table-top
1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the LCD TV stand as shown below.
2. Using commercially available wood screws, secure the set firmly in position.

Wire

Wood screw
two places
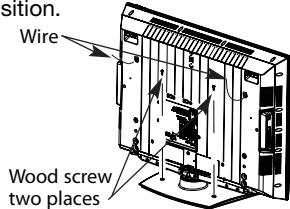
Securing to a Wall
1. Keep the LCD television 4 inches away from the wall except when mounted using the wall mount bracket.
2. Secure the television to the wall as shown.

A   B

Wire   Wire

	A	B
37"	4 in.	12 in.
	10 cm	30 cm

(a) Power Swivel
NOT USED

(b) Power Swivel
USED

* Please adjust the wire length to avoid touching the wall when turning the TV.

NOTES: 1. *Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause fire or defect.*

2. *In case of an abnormal symptom, unplug the AC cord.*

3. *If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.*

4. *Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (for example their hands, head or face, etc.) against the edge of the unit and cause personal injury.*

5. *If the Power Swivel feature will not be used, the LCD television should be secured to the wall as shown in fig. (a).*

6. *If the Power Swivel feature will be used, the LCD television should be secured to the wall as shown in fig. (b).*

Caution when moving the main unit
As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and base on both sides of the Television for stability. When moving the Television, lift the handles and the botttom frame as shown below.
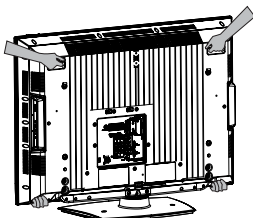
37"

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. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the wall. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

30 cm (12 inches)

10 cm (4 inches)   10 cm (4 inches)
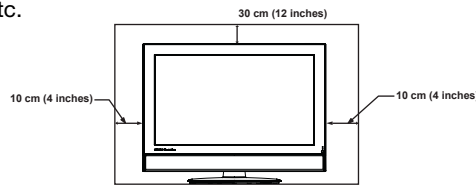
CONNECT POWER SWIVEL CABLE
Connect one end of cable (Arrow mark facing left) to the swivel slot of the LCD Rear Panel. Connect the other end (Arrow mark facing front)to the swivel slot of the Table Top Stand.
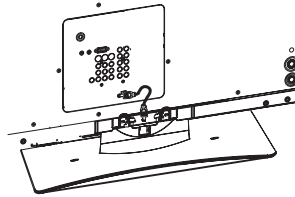
TURNING RADIUS
The maximum turning radius is 30° (left and right). Do not place any objects on the path of the monitor when using the power swivel feature.

C

D
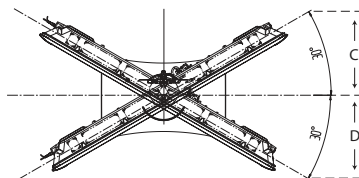
	C	D
37"	10.59 in.	13.93 in.
	27 cm	36 cm

How to set up your new HITACHI LCD Television

SETTING FOR WALL MOUNTING

STEP (1) :

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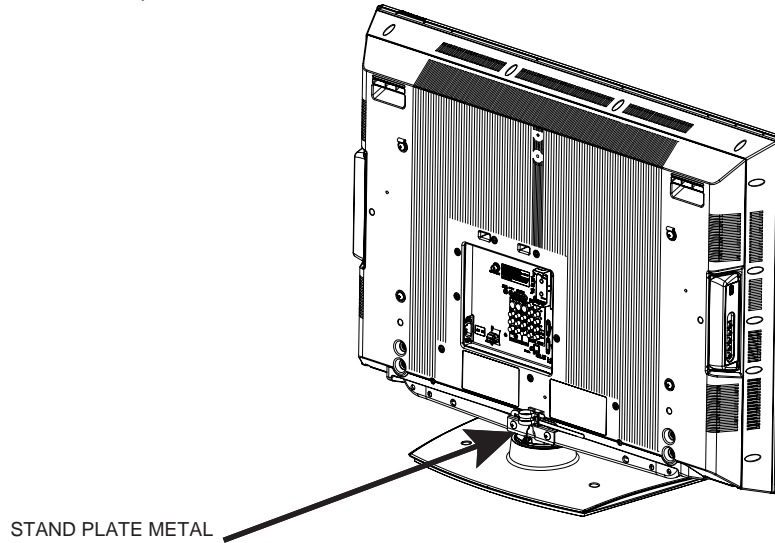
STAND PLATE METAL

STEP (2):

Please remove the 3 screws and the STAND PLATE metal from the TV, then put back only the screw to the back cover. Now the 4 screws that holds the TV STAND can be remove to separate the TV from the STAND BASE.

4 SCREWS

PLACE BACK
THIS SCREW

3 SCREWS   STAND PLATE METAL

TV STAND BASE
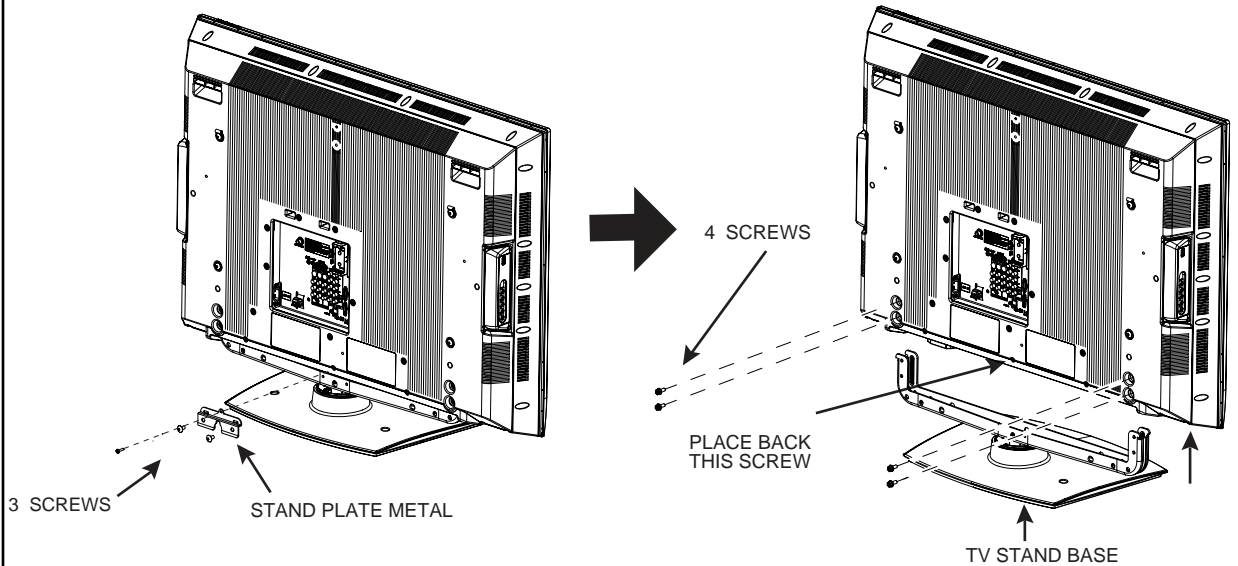
NOTE: *Use the specified WALL MOUNT base for the LCD TV depending on the size of your TV. Please access our web site at: www.hitachi.us/tv for recommended accessories for your tv.*

How to set up your new HITACHI LCD Television

VIEWING

The reccomended viewing horizontal and vertical angles for this LCD TV is 160°.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.
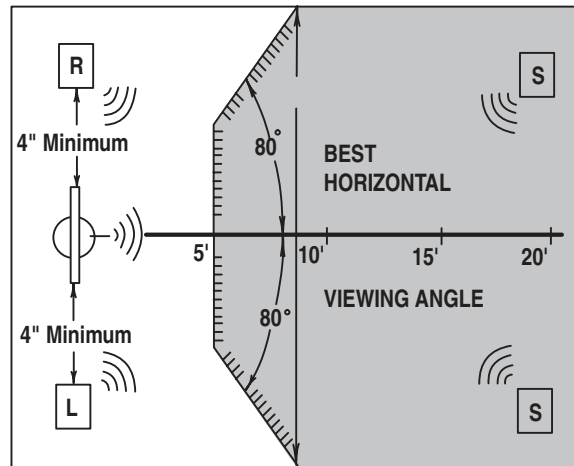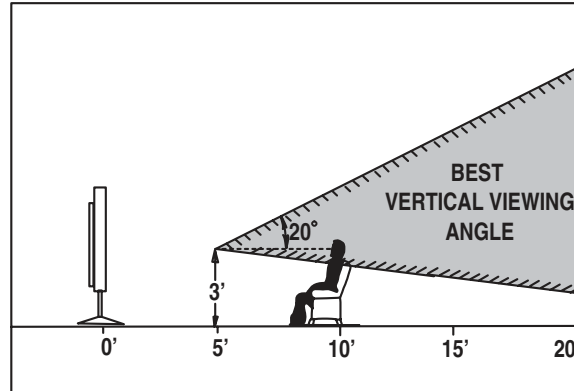
ANTENNA CONNECTIONS TO REAR JACK PANEL

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

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

VHF (300-Ohm) antenna/UHF antenna

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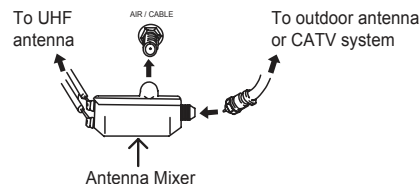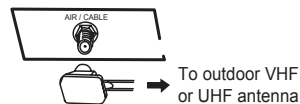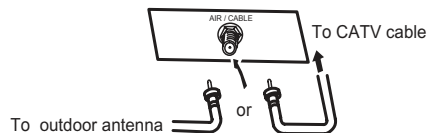
When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.

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

Hook-up Cables and Connectors

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

300-Ohm Twin Lead Cable
This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).
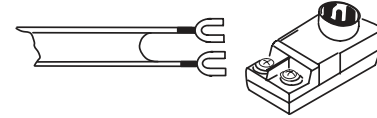
A/V Cable
Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and side control panel.

"F" Type 75-Ohm Coaxial Antenna
For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

S-Video (Super Video) Cable
This connector is used on camcorders, VCRs and laser-disc players with an S-Video feature in place of the standard video cable to produce a high quality picture.
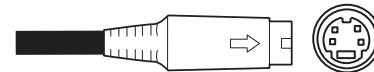
Optical Cable
This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.
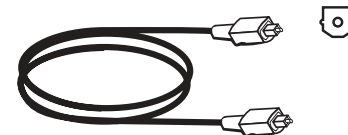
HDMI Cable
This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection to the TV's **HDMI** input.
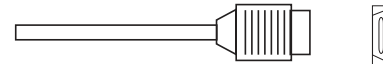
Stereo Cable (3.8mm plug to 3.5mm plug)
Used on all standard video and audio cable which connect to inputs and outputs located on the rear jack panel and side control panel.

AUDIO OUT
3.8mm
STEREO
MINI-PLUG

2
RCA TYPE
PLUGS
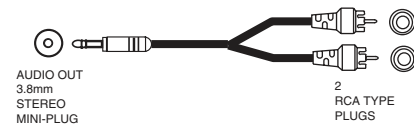
USB Cable
This cable is used to connect your digital camera to the Photo Input in the side of the LCD television.

IR Blaster Cable (Provided)
Connect the IR Blaster to the IR output of your LCD Television when using other devices. You must place the IR blaster in front of the corresponding IR window of your cable box or VCR. This connection allows your TV to control your cable box or VCR.
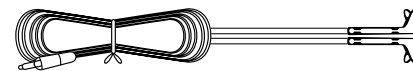
Power Swivel Cable (Provided)
This cable is used to connect the swivel stand to the rear panel of the LCD Television.

Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your HITACHI LCD TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), set-top-boxes, satellite receivers, and VCRs. The remote control must be programmed to control the chosen device. Please see pages 23-40 for a complete description of all features and programming of the Remote Control.

POWER BUTTON
(TV, DVD, CBL, STB, PVR/VCR, AMP/CD)
Turns the selected device on and off.

MODE INDICATOR
Turns on or blinks to show remote control mode when the SOURCE ACCESS buttons are pressed.

SOURCE ACCESS BUTTONS
(TV, DVD, CBL, STB, PVR/VCR, AMP/CD)
Changes the mode of the Universal Remote Control to control the device selected.

ASPECT BUTTON
(TV)
Changes the aspect ratio of the TV.

DAY/NIGHT
(TV)
Toggles picture mode settings between DAY and NIGHT mode.

MENU BUTTON
(TV, DVD, CBL, STB, PVR/VCR)
Accesses the OSD menu system.

CURSOR PAD/SELECT BUTTON
(TV, DVD, CBL, STB, PVR/VCR)
The Cursor Pad is used as a cursor to navigate through the OSD and INPUT menu systems. The Select button is used to Select/Activate highlighted menu items.

CURSOR UP & DOWN /CH + & CH - BUTTON
(TV, CBL, STB, VCR)
The CH+ or CH- is used to change channels up or down. The Cursor UP or DOWN to navigate through the OSD and INPUT menu systems.

INFO BUTTON
(TV, STB, CBL, PVR)
Displays various information on the screen, such as channel information.

VOLUME WHEEL
(TV, AMP/CD)
Scroll up and down to adjust the audio level of your TV. Push down on the wheel to mute.

NUMERIC BUTTONS
(TV, DVD, CBL, STB, PVR/VCR, AMP/CD)
Used to manually enter the TV channel, and used for numeric entry when navigating through the OSD, INPUTS .

(-) BUTTON
(TV,STB)
The (-) button is used when the remote is in Set-Top-Box (STB) mode or when the TV uses a digital input.

DVD/VCR CONTROL BUTTONS
(DVD, PVR/VCR, AMP/CD)
Controls the functions of your VCR, DVD and audio devices.

PAUSE BUTTON
(TV,PVR/VCR, DVD, AMP/CD)
Press to show and change the Freeze mode of the TV. Also used to pause other devices when the remote is in DVD, PVR/VCR, or AMP/CD mode.

PIP CONTROL BUTTONS
(TV)
Press to show and change the Picture-in-Picture mode.

GUIDE BUTTON
(TV, STB, CBL, PVR)
Accesses the TV Guide On Screen™ system (see page 49) of the TV or the program guide of other devices.

EXIT BUTTON
(TV, CBL, STB, PVR/VCR)
Exits out of the OSD, INPUTS or AV NET menu systems if their menu is displayed.

LAST CHANNEL BUTTON
(TV, CBL, STB, PVR)
Switches between the current and last channel viewed.

INPUTS BUTTON
(TV, AMP)
Accesses the INPUTS menu system.

CHANNEL WHEEL
(TV, CBL, STB, PVR/VCR, AMP/CD)
Scroll up or down to change channel. Push down on the wheel to access (FAV) Favorite Channel mode. (Favorite channel is only available for TV mode.)

LIGHT BUTTON
Press to use the back light feature. Can also be used to change backlight mode.

LEGEND

TV – Television   **PVR –** Video Recorder/Player
CBL – Cable Box   **DVD –** Digital Video Disc Player
STB – Set-Top-Box   **AMP –** Audio Amplifier

NOTES: 1. **The TV's remote control sensor is located on the right lower portion of the TV screen. To control TV functions, please point the remote control directly at the remote control sensor for best results.**
     2. **VCR precode is included in the PVR mode.**
     3. **CD precode is included in the AMP mode.**
     4. **Pressing the Light button will illuminate the backlight for 8 seconds.**

Front/Side Panel Controls

First time use
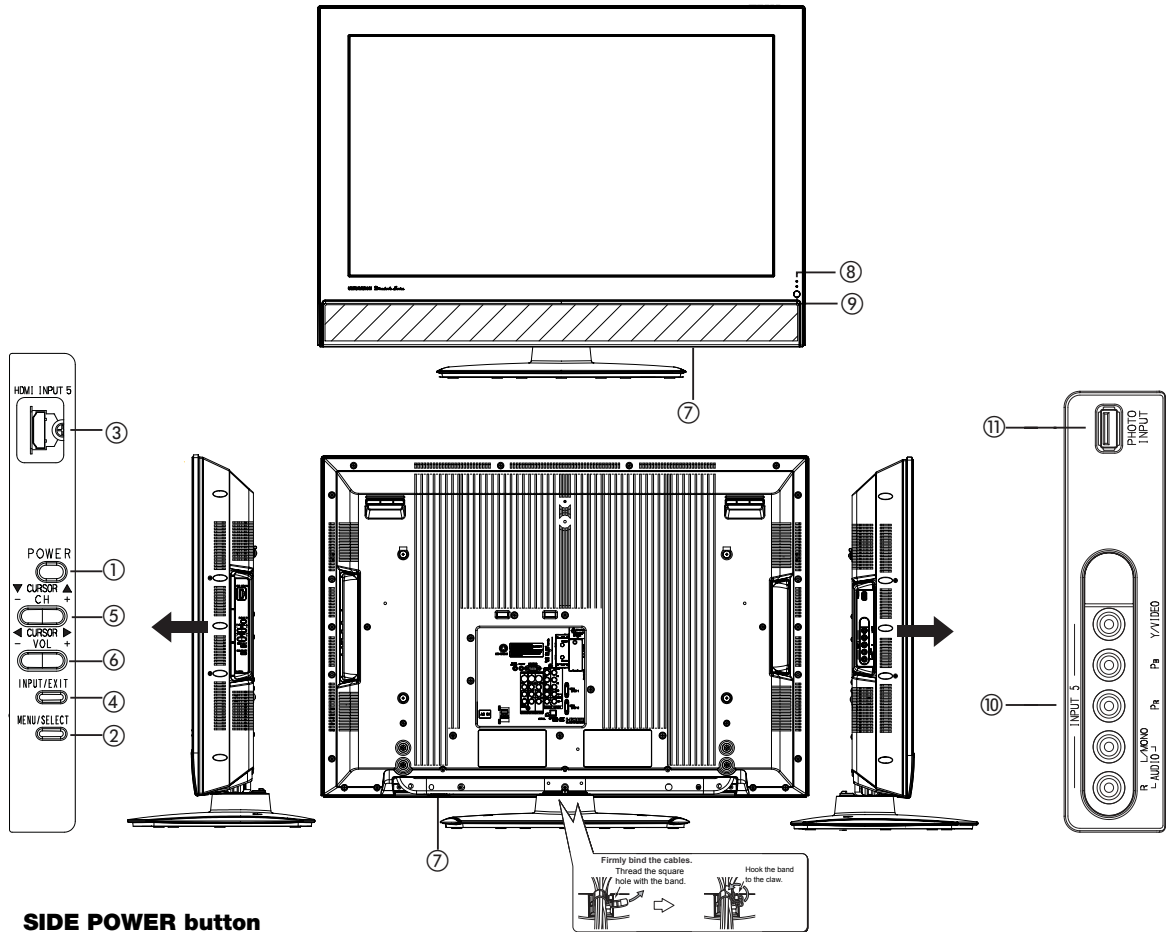
① **SIDE POWER button**
Press this button to turn the LCD Television ON/OFF. It can also be turned ON/OFF by remote control. The "MAIN POWER" button must be at stand-by mode.

② **MENU/SELECT button**
This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

③ **SIDE HDMI INPUT (5)**
Use the side HDMI input for extrenal devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection (see page 15 for reference).

④ **INPUT/EXIT button**
Press this button to access the INPUT menu. Press again to exit the MENU mode.

⑤ **CHANNEL selector**
Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

⑥ **VOLUME level**
Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◄) and right (►) buttons when in MENU mode.

⑦ **POWER button**
Television MAIN POWER button
This power button is for the complete system, and must be turned ON/OFF manually. It is recommended to leave the "MAIN POWER" to ON condition (lights red) for stand-by mode.
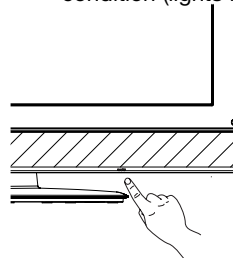
The Main Power button is located on the underside of the bottom, under the label "MAIN POWER".

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

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Front/Side Panel Controls

⑧ **POWER light indicator**

To turn the TV ON, press the main power switch located on the lower right side of the TV. A red stand-by indicator lamp located on the lower right of the front bezel will illuminate. The LCD TV is now ready for remote ON/OFF operation.

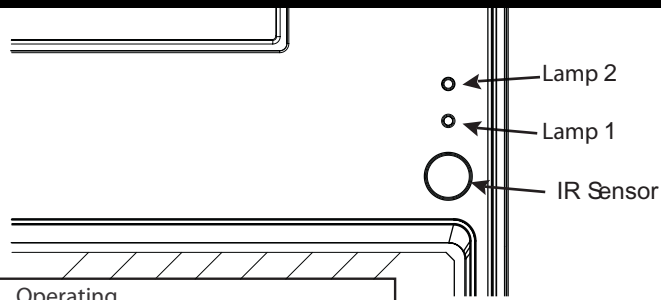Lamp 2
Lamp 1
IR Sensor

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

⑨ **REMOTE CONTROL sensor**

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

⑨ **IR OUT sensor**

Point your equipment's remote control at this area. The IR will pass through the IR Blaster cables to your equipment.

⑩ **SIDE INPUT JACKS (for INPUT:5)**

INPUT 5 provide Y-PBPR jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for this input.

⑪ **PHOTO INPUT**

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

NOTE:
1. *Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_B input and the components R-Y output to the TV's P_R input.*
2. *Your component outputs may be labeled Y-$C_B C_R$. In this case, connect the component C_B output to the TV's P_B input and the component C_R output to the TV's P_R input.*
3. *It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-$P_B P_R$ inputs (see page 43).*
4. ***INPUT 3***, ***INPUT 4*** *and **INPUT 5 (Y/VIDEO)** can be used for composite video and component video input.*

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

Rear Panel Connections

① **Antenna Input**
To switch between Cable and Air input, go to the Channel Manager option to change the signal source CABLE or AIR (see page 52).

② **Audio/Video Inputs 1, 2, 3 and 4**
By using the INPUTS button, the CURSOR PAD (▲ and ▼), and the SELECT button or CURSOR PAD ▶ of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

③ **MONITOR OUT & HI-FI AUDIO OUT**
These jacks provide fixed and variable audio and video signals (CABLE/AIR or INPUTS)
which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to Input 3,4 and 5, and HDMI inputs will not have monitor output.

④ **Optical Out (Digital Audio)**
This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

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

⑤ **S-VIDEO Inputs 1 and 2**
Inputs 1 and 2 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

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

⑥ **HDMI 1, 2 & 5(High Definition Multimedia Interface)**
ABOUT HDMI – **HDMI** is the next-generation all digital interface for consumer electronics. **HDMI** enables the secure distribution of uncompressed high-definition video and 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, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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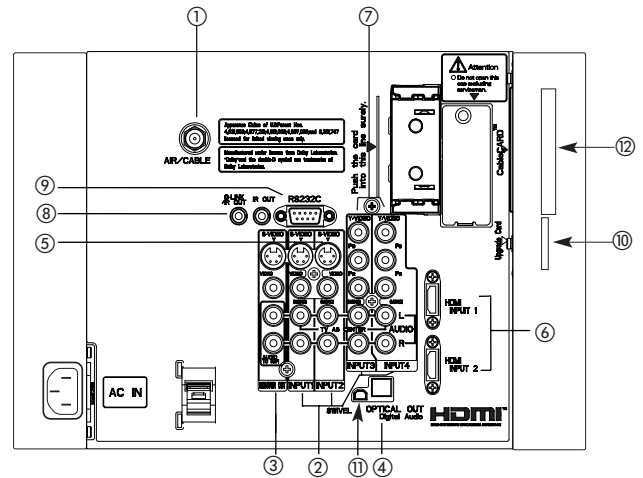
> *NOTE:* 1. *The HDMI input is not intended for use with personal computers.*
> 2. *Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.*

⑦ **Component: Y-PBPR Inputs**
INPUTS 3 and **4** provide Y-PBPR jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

> *NOTE:* 1. *Do not connect composite VIDEO and S-VIDEO to INPUT 1 or 2 at the same time. S-VIDEO has priority over VIDEO input.*
> 2. *Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input.*
> 3. *Your component outputs may be labeled Y-CBCR. In this case, connect the component CB output to the TV's PB input and the component CR output to the TV's PR input.*
> 4. *It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs (see page 43).*
> 5. *To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks and HDMI Input.*
> 6. *INPUT 3 , 4 and 5 (Y/VIDEO) can be used for composite video and component video input.*

⑧ **IR Out / G-Link**
This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). This connection will allow you to control the external components with your LCD Television's remote control .
(For reference see pages 16).

⑨ **For FACTORY use only.**

Rear Panel Connections

⑩ **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.

⑪ **Power Swivel Connector**

Connects to the Power Swivel Table Top Stand.

⑫ **CableCARD Slot**

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

1. Connect a coaxial cable to cable terminal of the Rear Panel Jacks.
2. Insert the CableCARD into the slot (Top of card should be facing towards you as shown below). Completely insert the card until the back end aligns with the line as shown.
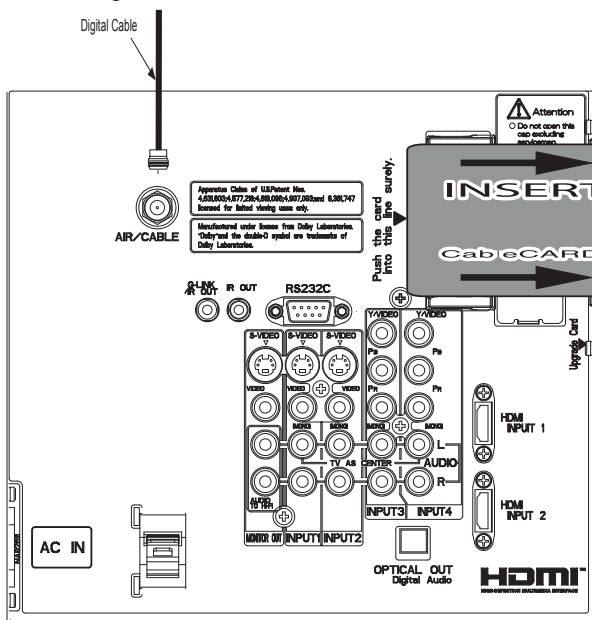
NOTE: 1. *A digital cable subscription is required.*
2. *Do not insert a PCMCIA card into the CableCARD slot.*

If the CableCARD is properly installed or removed, the TV will display the following respective screens.

CableCARD is installed

OR

CableCARD is not installed
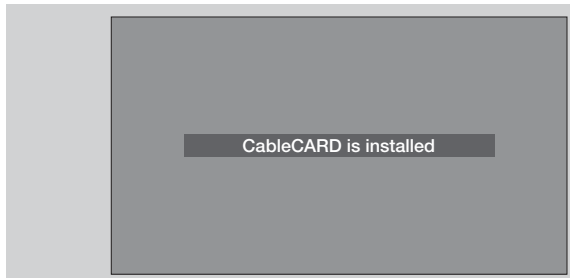
After the CableCARD is installed, wait until the second screen below appears.

Acquiring Data.
Please wait.

In order to start cable service for this device, please contact your cable provider

CableCARD(tm): 123-456-789-1
Host: 123-456-789-1
Data: 123-456-789-1

Unit Address: 123-456-789-1

Press EXIT to return
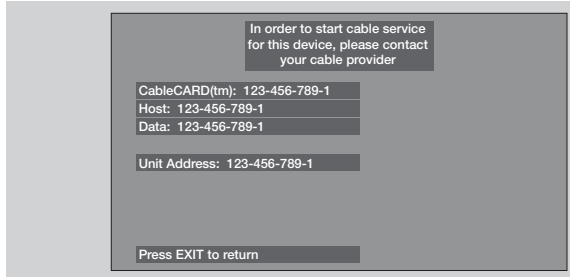
Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service (refer to page 67 for more information).

Connecting External Video Sources

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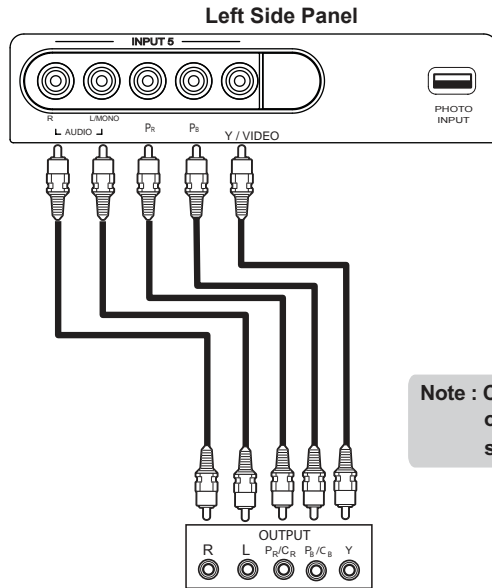
Left Side Panel

Left Side Panel

INPUT 5

R L/MONO P$_R$ P$_B$ Y / VIDEO
AUDIO

PHOTO INPUT

Note : Connection cables will depend on the external device specification.

OUTPUT
R L P$_R$/C$_R$ P$_B$/C$_B$ Y

OUTPUT
R L V

Video Game

COMPONENT OUTPUT CAPABILITY DVD , Set Top Box, Video Game Console.

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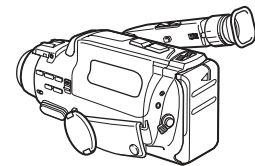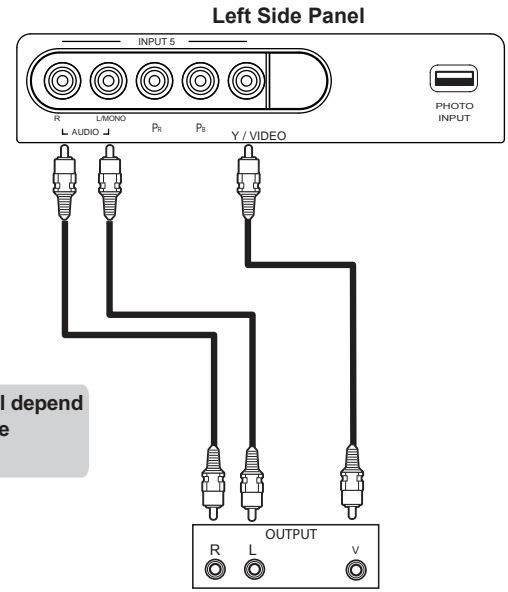
NOTE: 1. *Completely insert connection cord plugs when connecting to left side panel jacks. If you do not, the played back picture may be abnormal.*

Left Side Panel

INPUT 5

R L/MONO P$_R$ P$_B$ Y / VIDEO
AUDIO
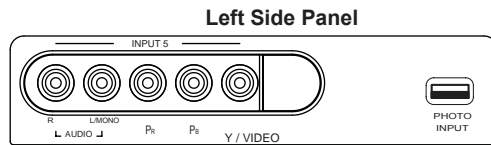
PHOTO INPUT

Ferrite Core Instructions:

1. Wrap once the USB cable on the ferrite core near the Photo Input as shown.

2. Fold and close the ferrite core while being careful not to pinch the cable.

Ferrite Core

USB Cable

Digital Camera
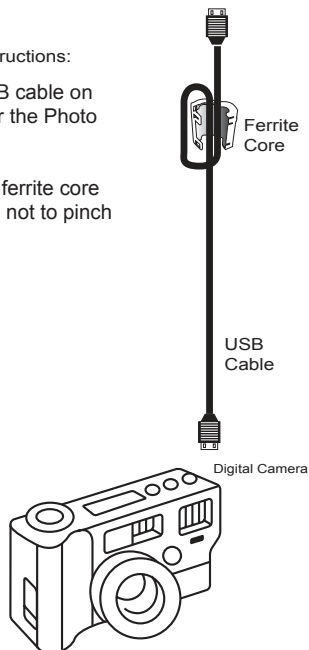
Connecting External Video Sources

The RIGHT SIDE panel jacks are provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, Set Top Box , Video Game as shown in the following examples (When connecting DVI signal it will need to connect the audio output into the Left Side Input jacks) :

A) Connecting HDMI signal.

Right Side Panel
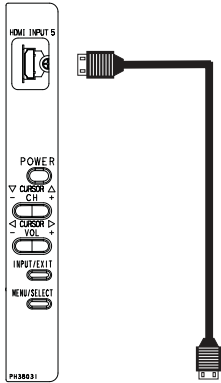
B) Connecting DVI signal.

Right Side Panel   **Left Side Panel**

Note : Connection cables will depend on the external device specification.

DVI to HDMI Cable

HDMI DIGITAL OUTPUT CAPABILITY
DVD , Set Top Box,
Video Game Console.
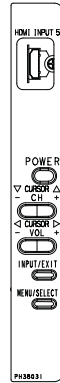
DVI DIGITAL OUTPUT CAPABILITY
DVD , Set Top Box,
Video Game Console.
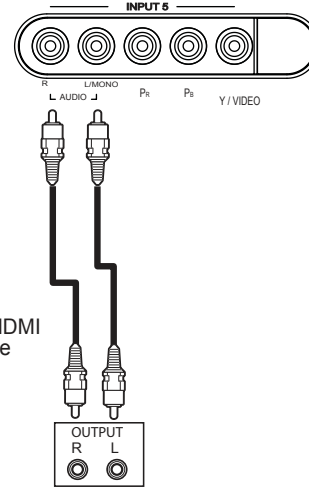
Back of
HDTV Set-Top-Box or
DVD Player

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

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your 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 (▲ and ▼) to select the Input of your choice. Then press the SELECT button or the CURSOR PAD ▶ to confirm your choice (see page 26).

INPUTS

SELECT

| Input 5 |
| Photo Input |
| Air /Cable |
| Input 1 |
| Input 2 |
| ↕ Move [SEL] Sel. |

Rear Panel Connections

Outside Antenna
or
Cable TV coaxial cable

2-Way signal splitter

VCR #1

DIGITAL
OUTPUT CAPABILITY

ANT
IN   OUTPUT
S-VIDEO V   L   R

AUDIO OUT   DIGITAL OUTPUT

DVI
to
HDMI

Optional

Attention
Do not open this
cap excluding
serviceman.

CableCARD™

Apparatus Claims of U.S.Patent Nos.
4,831,603;4,577,216;4,819,098;4,907,093;and 6,381,747
licensed for limited viewing uses only.

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

AIR/CABLE

Push the card
into this line surely.

Upgrade Card

G-LINK
/IR OUT   IR OUT   RS232C

Y/VIDEO   Y/VIDEO

S-VIDEO   S-VIDEO   S-VIDEO

PB   PB

VIDEO   VIDEO   VIDEO

PR   PR

[MONO]   [MONO]   [MONO]   [MONO]   L

HDMI
INPUT 1

TV AS CENTER   AUDIO

R

AUDIO
TO HIFI

INPUT3   INPUT4

HDMI
INPUT 2

AC IN

MONITOR OUT INPUT1 INPUT2

SWIVEL   OPTICAL OUT
Digital Audio

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

HDMI
to
HDMI

OUTPUT
Y   PB/CB PR/CR L   R

S-VIDEO V   L   R
INPUT

S-VIDEO V   L   R
OUTPUT

Y   PB   PR   L   R
OUTPUT

HDMI OUTPUT

Optional

DVD Player

VCR #2

Laserdisc player, VCR,
camcorder, etc.

HDTV Set-Top Box

HDMI DIGITAL
OUTPUT CAPABILITY

(PROVIDED)

CONNECT TO
G-LINK/IR OUT

(PROVIDED)

CONNECT TO
IR OUT

NOTE: Cables are optional, except when specified.

Tips on Rear Panel Connections

- S-VIDEO, Y-$P_B P_R$, or HDMI connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.

- If your device has only one audio output (mono sound), connect it to the left audio jack on (L/(MONO)) the Rear Panel.

- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.

- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 16). Refer to your VCR operating guide for more information on line input-output connections.

- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.

- COMPONENT: Y-$P_B P_R$ (Input 3, 4 & 5) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.

- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_B input and the components R-Y output to the TV's P_R input.

- Your component outputs may be labeled Y-$C_B C_R$. In this case, connect the components C_B output to the TV's P_B input and the components C_R output to the TV's P_R input.

- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-$P_B P_R$ inputs. (See page 43)

- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-$P_B P_R$, and HDMI input jacks.

- Input 1 , 2 or 5 can accept HDMI signal.

- S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type.

- When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

INSTALLATION RECOMMENDATION:
1. Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television.
2. Connecting the television directly to the Audio /Video output of a Set-Top-Box will assure a more normal picture.

Connecting External Video Sources

First time use

CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO INPUT1 – INPUT5

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel to the right.

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

3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.

4. Press the INPUTS button, then select INPUT 2 from the INPUTS menu to view the program from the VCR or laserdisc player.

5. Select CABLE or AIR from the INPUTS menu to return to the last channel tuned.

NOTE: 1. *Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. *A single VCR can be used for VCR #1 and VCR #2 (see page 16) but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.*
3. *When INPUT 3 , 4 or 5 are used, it is necessary to connect the video output of the device to the Y/VIDEO input jack of the TV (For INPUT 5 please see page 14 for reference).*

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

1. Connect the cable from the S-VIDEO OUT of the S-VHS VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the Rear Panel to the right.

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

3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.

4. Press the INPUTS button, then select INPUT 1 from the INPUTS menu to view the program from the VCR or laserdisc player.

5. Select CABLE or AIR from the INPUTS menu to return to the last channel tuned.

NOTE: 1. *Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. *A single VCR can be used for VCR #1 and VCR #2 (see page 16), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.*

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Connecting External Video Sources

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

1. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown on the Rear panel below.

2. With DVI output, connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack as shown on the Rear Panel below.

3. With DVI output, connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack as shown on the Rear Panel below.

4. Press the INPUTS button, then select INPUTS 1, 2 or 5 to view the program from the HDTV set top box or DVD player.

5. Select CABLE or AIR from the INPUTS menu to return to the last channel viewed.

NOTE:
1. *Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. *The HDMI input on INPUT 1 , 2 and 5 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.*
3. *HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.*
4. *The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.*
5. *When using a DVI to HDMI cable, connect the Audio Out L and R cables at the same INPUT (1 , 2 or 5) as your HDMI INPUT(1 , 2 or 5). (For INPUT 5 please see page 15 for reference).*

HDMI input
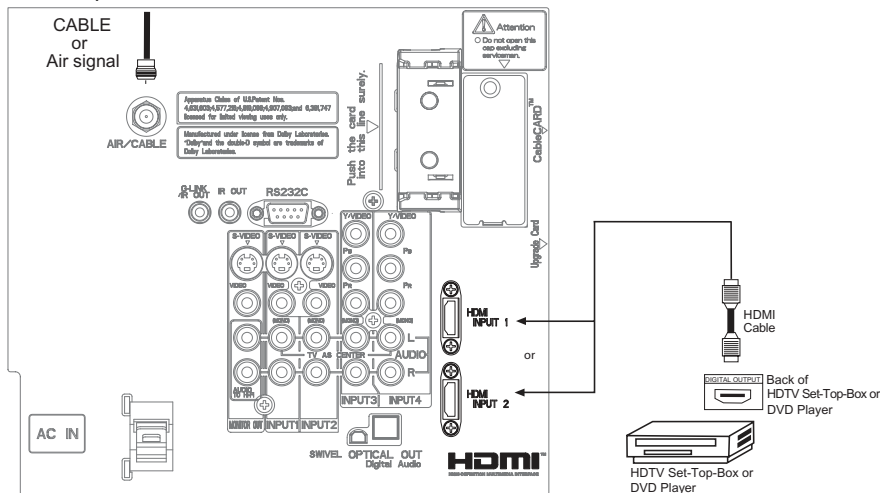
DVI to HDMI Input
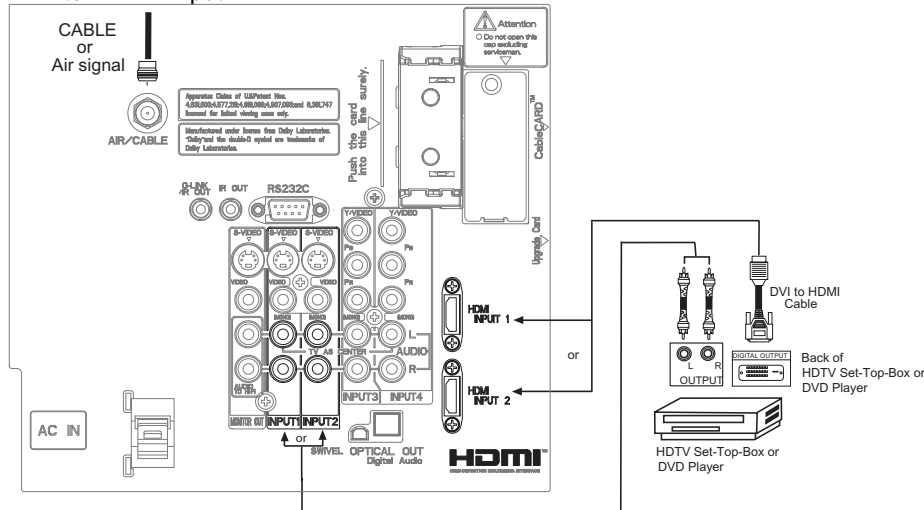
Connecting External Audio/Video Devices

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

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the Rear panel below.

2. Connect the cable from the P_B/C_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.

3. Connect the cable from the P_R/C_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.

4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.

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 4 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box.

7. Select CABLE or AIR to return to the last channel tuned.

NOTE: 1. *Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. *See page 17 for tips on REAR PANEL CONNECTIONS.*

(For INPUT 5 please see page 14 for reference).
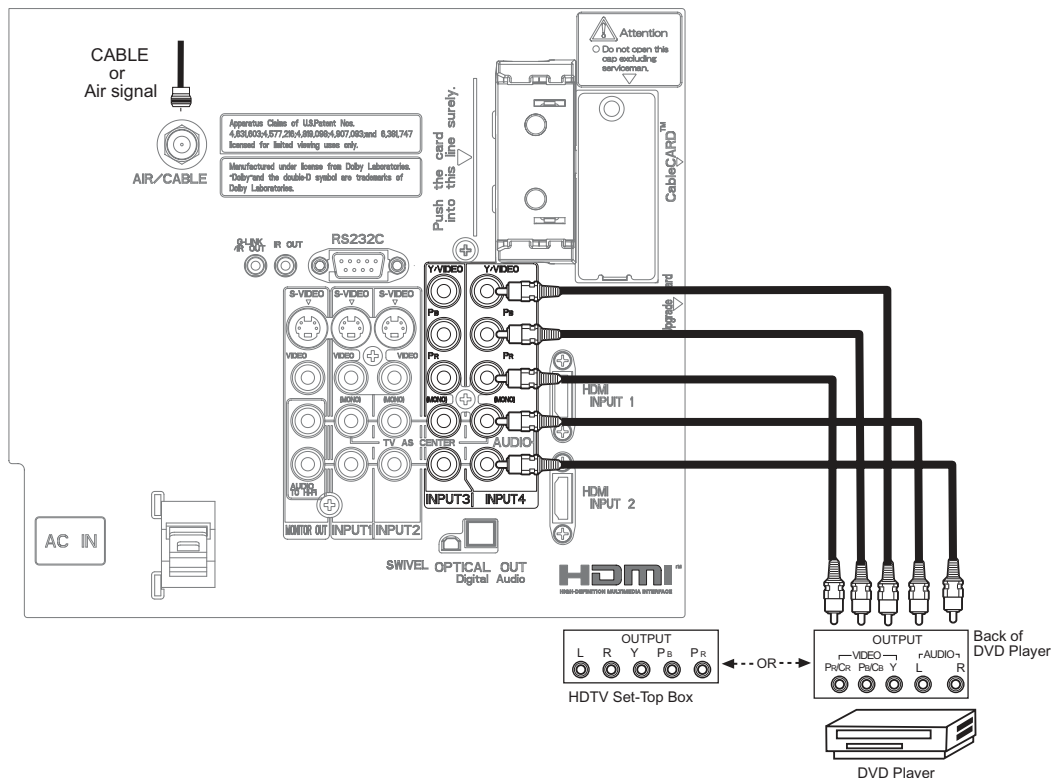
Connecting External Audio/Video Devices

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

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel on the right.

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

3. Press the INPUTS button, then select INPUT 2 from the INPUTS menu to view the program from the VCR or the laserdisc player.

4. Select CABLE or AIR from the INPUTS menu to return to the previous channel.
   (For INPUT 5 please see page 14 for reference).
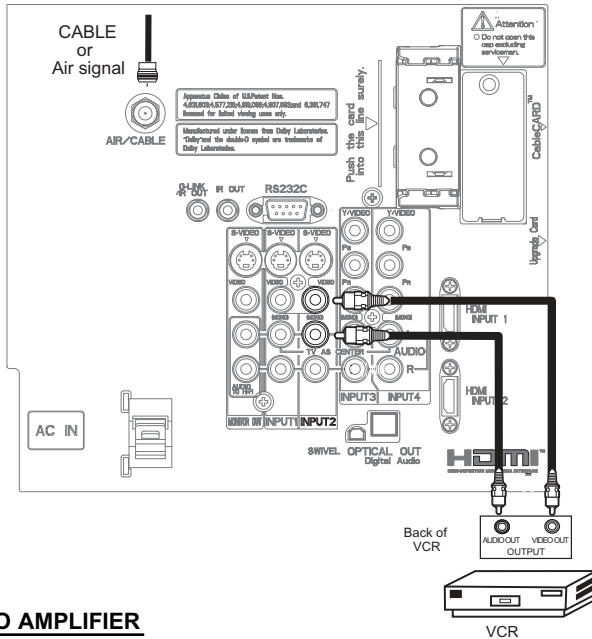
CONNECTING OPTICAL OUT TO AN EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the LCD TV to an external audio amplifier, connect the system as shown on the right. The "OPTICALOUT" from the Rear Panel 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.

1. Connect an optical cable from the Optical out to the Optical input of a separate Stereo System Amplifier as shown on the Rear Panel on the right.
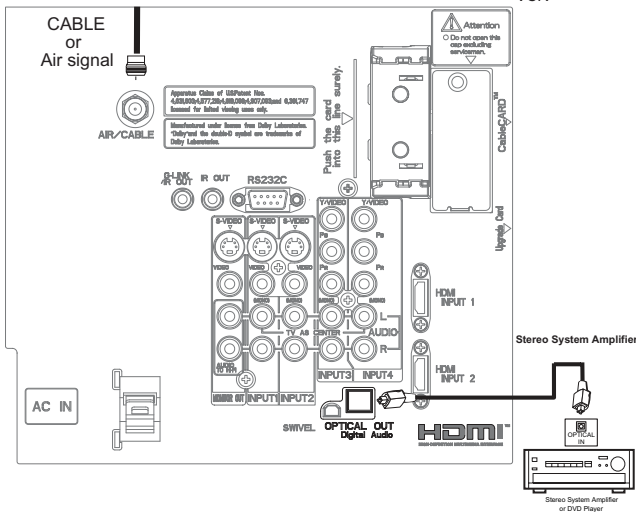
CONNECTING MONITOR OUT

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

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

   Connecting Video:
   Connect the cable from the VIDEO INPUT of the VCR to the VIDEO out jack on the TV Rear Panel.

2. Connect the cable from the AUDIO IN R of the VCR to the OUTPUT (AUDIO/R) jack on the TV Rear Panel.

3. Connect the cable from the AUDIO IN L of the VCR to the OUTPUT (AUDIO/L) jack on the TV Rear Panel.
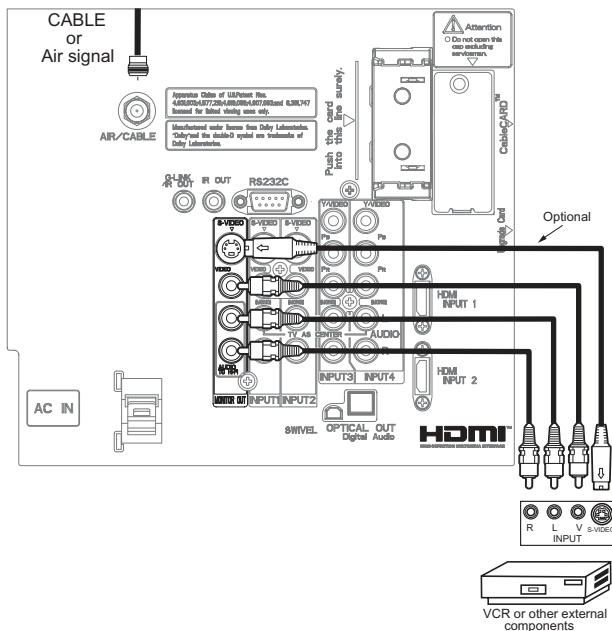
NOTE: *When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority.*

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Connecting External Video Sources

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

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

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

1. Connect your external Audio/Video components to the Rear Panel shown below.

2. Connect the IR Blaster cable to the IR OUT/G-LINK output terminal of the Rear Panel.

3. Place the IR Blaster in front of the infrared sensor of the external components you want to control.
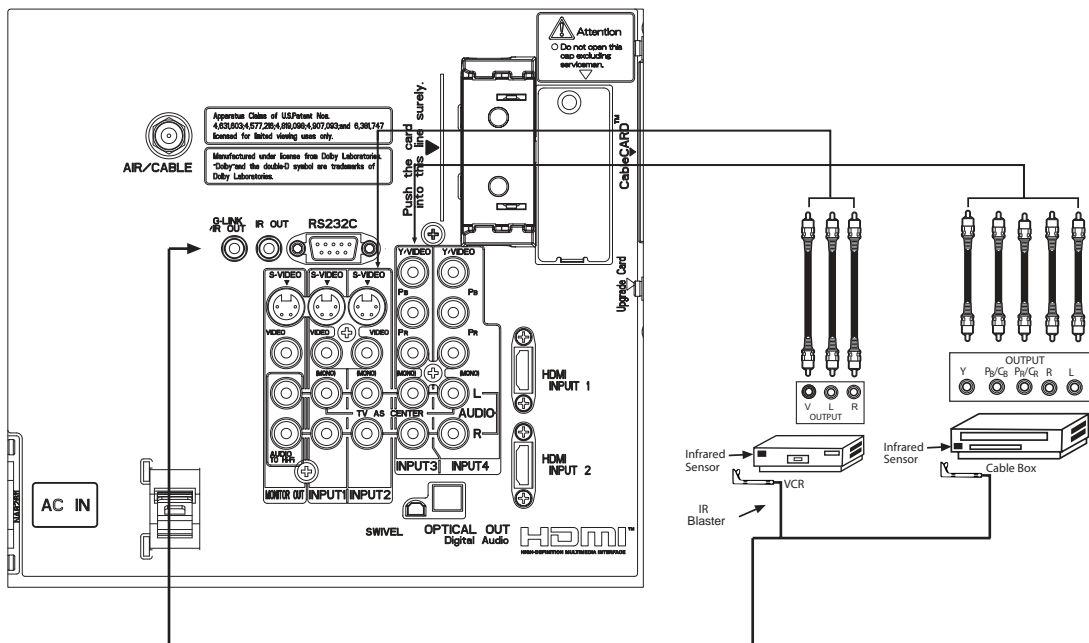
4. To access the TV Guide On-Screen™ system, press the MENU button.

5. Use the CURSOR PAD ▼ or channel scroll down to highlight TV GUIDE ON SCREEN.

6. Press the SELECT or CURSOR PAD ▶ button to select.

7. Follow the Setup procedure on pages 49-51.
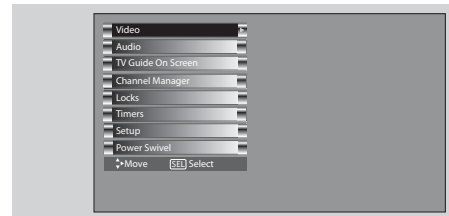
NOTE: G-LINK connections are available on both IR OUT terminals.

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 television and select the TV by pressing the ◄ or ► button of the Source Access on the remote. The TV mode indicator will blink, indicating that the remote will now control your television.

To operate your VCR, point the remote at the remote sensor of the VCR and select PVR by pressing the ◄ or ► button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your VCR (see page 36 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 36 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 33 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 34 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 35 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 37 for instructions on how to program the remote to control additional Audio/Video equipment).

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

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

MANUAL MODE (Default mode)
In Manual mode, the illumination will only work when the LIGHT button is pressed. When the LIGHT button is pressed, the illumination will last for 8 seconds. During the illumina-tion, if the LIGHT button is pressed, the illumination will turn off.

CHANGING LIGHTING MODES (Automatic to Manual/Manual to Automatic)
1.   *Place the Remote Control in TV Mode by using the SOURCE ACCESS ◄ and ► buttons. The TV mode indicator will blink 3 times to confirm the remote control mode.*
2.   *Press and hold the LIGHT button for 10 seconds. After releasing the LIGHT button, the TV mode indicator will blink 3 times to confirm the mode switch.*

NOTE: **When you press any remote control button, the buttons will light up. The illumination will last a few seconds during this time. The buttons will appear illuminated if the room is dark.**
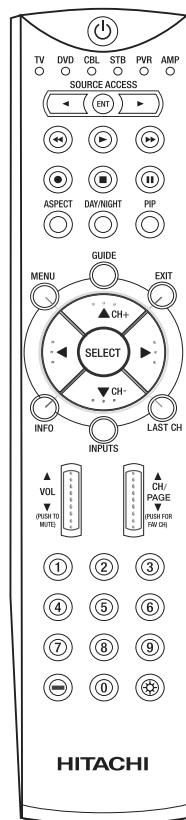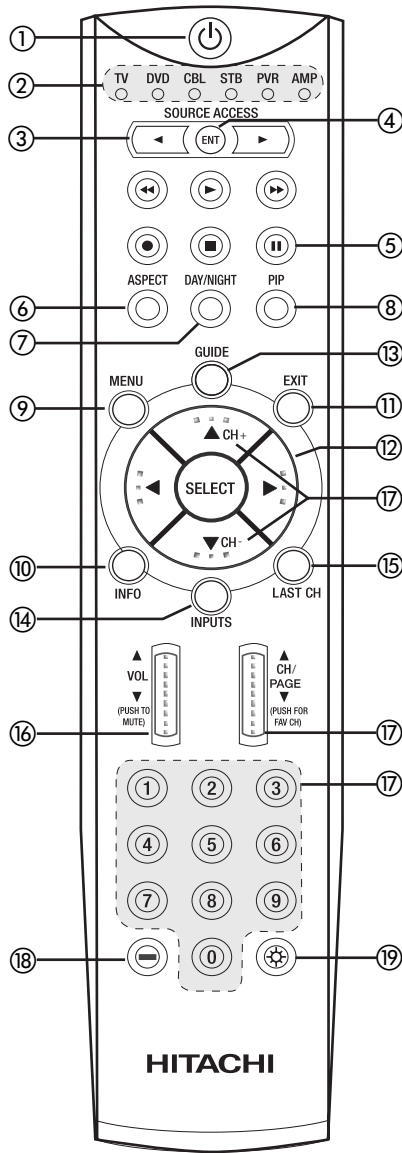
The Remote Control

① **POWER button**
Press this button to turn the TV set on or off when the remote is in TV mode. (See page 23 for instructions on how to set the remote control to TV mode.)

② **MODE Indicator**
Turns on or blinks to show remote control mode.

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

④ **SOURCE ACCESS (ENT) button**
Hold down this button while entering your device code to program the remote (see pages 33-38). You can also use this button in an optional Input access feature (see page 38).

⑤ **PAUSE button**
Press the PAUSE button to freeze the picture. Press the EXIT button to return the picture to motion. Press the PAUSEbutton repeatedly to cycle through the three different freeze modes (see page 32).

Freeze

Freeze

Freeze

Freeze

Freeze
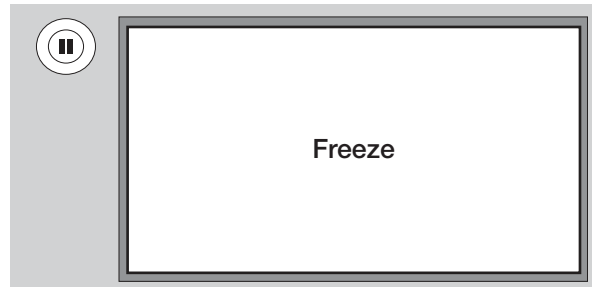
How to Use the Remote to Control Your TV

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.

4:3 ZOOM1/ZOOM2
Use these aspect modes to zoom in on conventional (4:3) sources.

16:9 STANDARD 1
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 95% of the size.

16:9 STANDARD 2
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 100% of the size.

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.

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

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

Note: Please see Appendix A on page 88.

IMAGE INPUT → 4:3 STANDARD → 4:3 EXPANDED → 4:3 ZOOM1

16:9 ZOOM ← 16:9 STANDARD**1** ← 4:3 ZOOM2
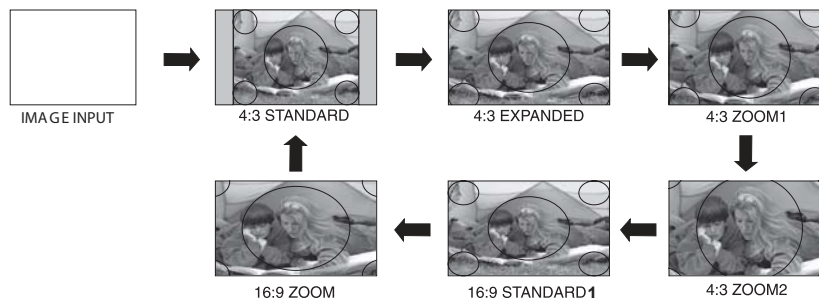
• **Antenna-Digital Channel (4:3)**
• **S-Video/Video 4:3/Letter Input (Auto Aspect: On)**
• **HDMI-480i/480p 4:3/Letter Input (Auto Aspect: On)**
• **Component-480i/480p 4:3/Letter Input (Auto Aspect: On)**

Note: Please see Appendix A on page 88.

IMAGE INPUT → 4:3 STANDARD → 4:3 EXPANDED

4:3 ZOOM2 ← 4:3 ZOOM1
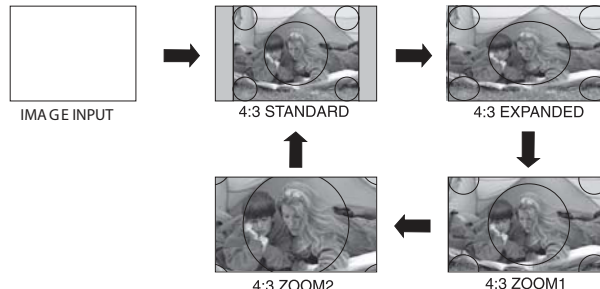
• **S-Video/Video 16:9 Input (Auto Aspect: On)**
• **HDMI-480i/480p 16:9 Input (Auto Aspect: On)**
• **Component-480i/480p 16:9 Input (Auto Aspect: On)**

Note: Please see Appendix A on page 88.

IMAGE INPUT → 16:9 STANDARD**1** → 16:9 ZOOM
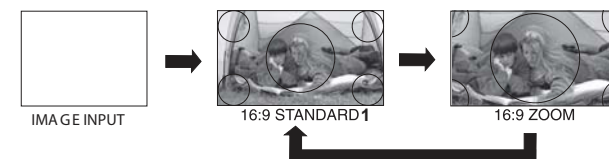
• **Antenna-Digital Channel (16:9)**
• **HDMI-720p/1080i Input**
• **Component-720p/1080i Input**

Note: Please see Appendix A on page 88.

IMAGE INPUT → 16:9 STANDARD**1** → 16:9 STANDARD**2**
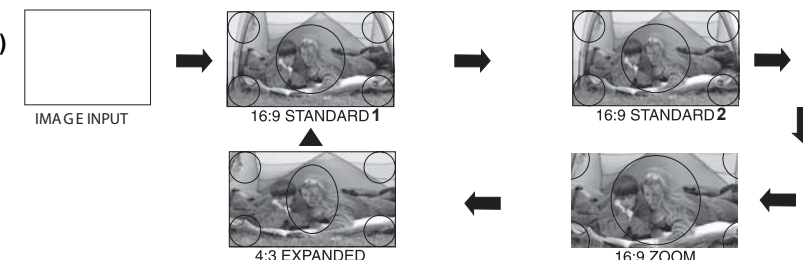
4:3 EXPANDED ← 16:9 ZOOM

NOTE: 1. The Aspect Style in all five video inputs have independent Aspect Style setting.
2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also page 46).
3. When displaying 16:9 STANDARD 2 it may appear lines at the edge of the picture this is normal operation of the TV.

The Remote Control

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How to Use the Remote to Control Your TV

⑦ **DAY/NIGHT button**
Press this button to toggle between Day(Normal), Day(Dynamic) and Night picture mode settings. Select Day modes for day time viewing with more brightness and contrast to compete with room light. Select Night for nighttime viewing with less brightness and contrast for a more detailed picture (see page 43 for settings changes).

NOTE: *For automatic DAY/NIGHT picture mode settings, see page 61.*

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⑧ **PICTURE-IN-PICTURE button**
See separate section on pages 30-31 for a description.

⑨ **MENU button**
The MENU button will start the On-Screen Display.

⑩ **INFO button**
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.

ANALOG CHANNELS

Program Information
Program Run Time

INFO

Show Name   Air   8
3:00PM- ▶3:30PM   KXYZ-HD
ST   TV-G   480i   3:17PM

Main Picture Source and channel indication
Broadcast channel identification
Clock

Audio Broadcast   Broadcast Rating   Picture Format

Auto   STEREO

Closed Caption setting   Audio Source Selection

DIGITAL CHANNELS

Digital Closed Caption
This icon will appear only when receiving a Digital Broadcast with Closed Captioning.

Program Information
Program Run Time

INFO

Show Name   Air   15-1
3:00PM- ▶3:30PM   ALT U.S.   KPBS-HD
ST   TV-G   DTvCC   1080i   3:17PM

Main Picture Source and channel indication
Broadcast channel identification
Clock

Audio Broadcast   Broadcast Rating   Alternate Rating   Picture Format

Program Desctiption
(Press INFO again for a more detailed description)

Auto

Closed Caption setting

When an S-VIDEO Input is connected to INPUT 1

INFO

S-IN: 1

480i   3:17PM

Auto

NOTE: 1.   *The Sleep Timer info will show momentarily after releasing INFO button.*
      2.   *The Aspect setting will not be shown if the channel is locked.*

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

INFO

Input Signal Format

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 **GUIDE button**
Press this button to access the TV Guide On Screen™ interactive display (see page 49). Press this button to access the Channel Guide of the (CBL), and (SAT/STB) while in (CBL)(SAT/STB) mode.

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.

INPUTS

SELECT

Input 5
Photo Input
Air / Cable
Input 1
Input 2
Move   SEL Sel.
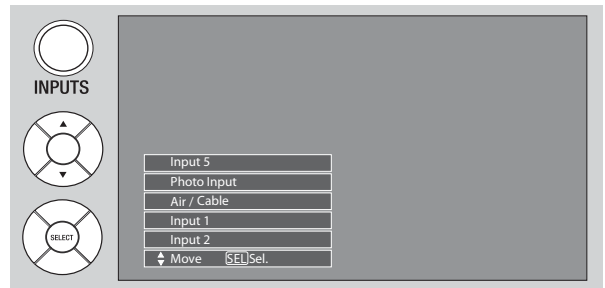
INPUT 1	Select to choose INPUT 1.
INPUT 2	Select to choose INPUT 2.
INPUT 3	Select to choose INPUT 3.
INPUT 4	Select to choose INPUT 4.
INPUT 5	Select to choose INPUT 5.
AIR / CABLE	Select between Cable or Air signal.
PHOTO INPUT	Select to access your pictures from a digital camera, USB memory or memory card USB drive connected to the Photo Input in the side panel of the TV (see pages 27-28).

PHOTO INPUT

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

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

   Input 5
   Photo Input
   Air / Cable
   Input 1
   Input 2
   ⬍ Move   SEL Sel.
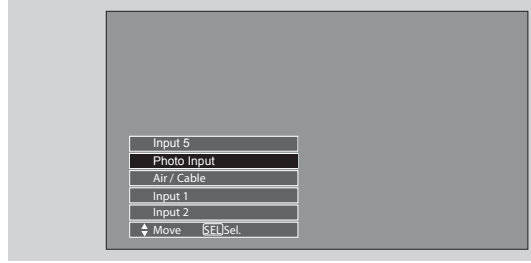
2. Press the CURSOR PAD ◀ or ▶ to access the next or previous photo.

   ◄► Next   SEL Thumbnail   [0-9] Jump

3. Press the SELECT button to view THUMBNAIL.
4. Use the CURSOR PAD buttons ▲, ▼, ◀ or ▶ and the SELECT button to navigate and select individual chosen photos.
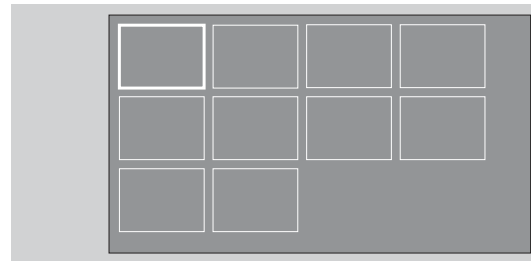
5. Press the picture number to jump from picture to picture.

   Please Enter
   Picture Number

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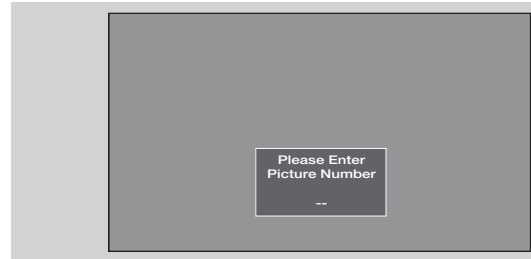
6. Press the INFO button to access PHOTO Input menu and to view Photo information.
7. Press the CURSOR PAD ▲ or ▼ and the SELECT button to navigate and select the PHOTO Input menu.

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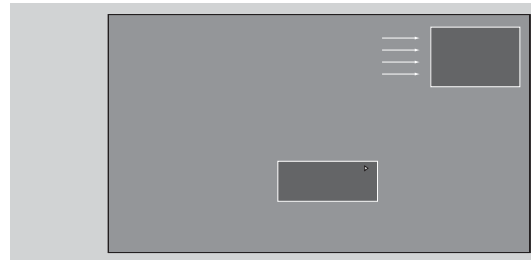
NOTES:
1. *Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.*
2. *The maximum number of digital Photos that can be displayed is 999.*
3. *Press INFO button to show Picture Numbers in Thumbnail view, plus other information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

ROTATE

Select this menu item to rotate selected photos either clockwise (CURSORPAD ▶) and counterclockwise (CURSOR PAD ◀).
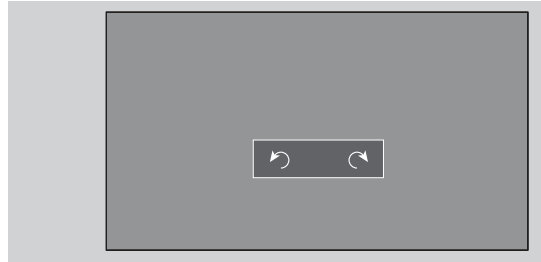
SLIDESHOW

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

DEVICE

Select this menu item to select the Photo Input Device Drive when using a USB Drive device. Use the CURSOR PAD ◀ or ▶ to select Device Drive. Press the INFO button to highlight a device, then press the SELECT button or CURSOR PAD ▶ to access it. Use the CURSORPAD ◀ or ▶ to the device to read.
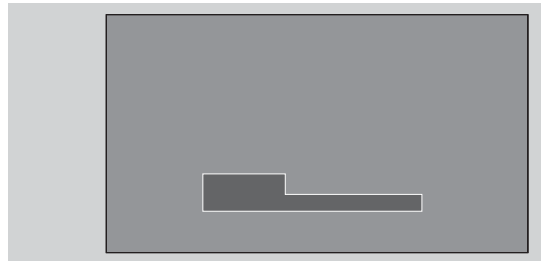
NOTES:
1. Automatic contrast reduction also applies during SLIDESHOW, then press any button to continue.
2. Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st four characters: Letters; 5th to 8th: Non duplicated numbers from 0001 to 9999. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: Non-duplicated numbers from 0001 to 9999 4th to 8th: Letters. The sub directory then should be placed on a main directory with a "dcim" file name format.
3. Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).
4. This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.

⑮ **LAST CHANNEL (LAST CH) button**
Press this button to toggle between the current and last channel viewed.

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 (▲).

Volume 8

▲
VOL
▼
(PUSH TO MUTE)

Soft Mute 8

▲
VOL
▼
(PUSH TO MUTE)

Mute 8
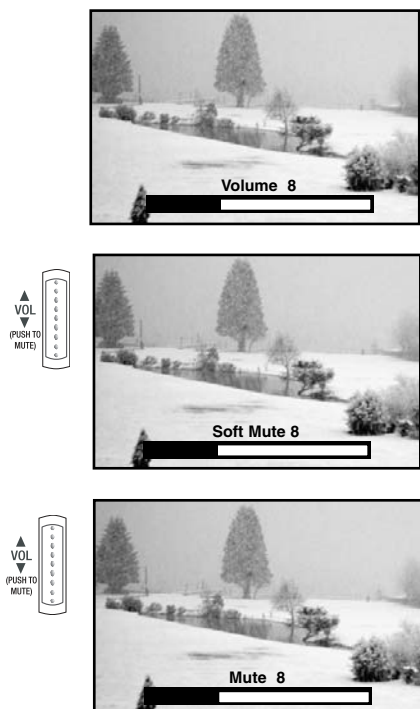
Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 65).

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 (▲) , CHANNEL WHEEL down (▼) or CURSOR up (▲ CH+)& Cursor down (▼ CH-).

When using the Cursor up or down (▲ CH+ or ▼CH-) to change channel it will operate same as the CHANNEL WHEEL except for the (FAV) channel setting. The cursor up or down can only change channels ; but to activate the (FAV) channels it has to be activated from the CHANNEL WHEEL only.

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

Cable   22

▲
CH/
PAGE
▼
(PUSH FOR FAV CH)

FAV Cable   22

▲
CH/
PAGE
▼
(PUSH FOR FAV CH)

Cable   22
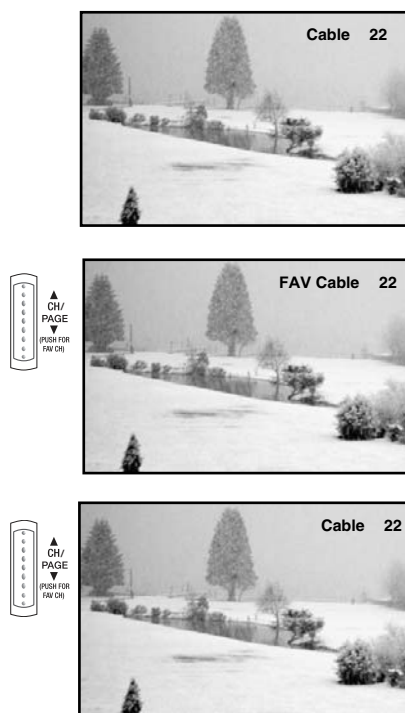
⑱ **(-) DASH button**
Use the (-) DASHbutton with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1).

⑲ **BACKLIGHT button**
Press this button to light up and illuminate the buttons of the remote control.

The Remote Control

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Picture-in-Picture (PIP)

Your HITACHI LCD TV incorporates one Tuner technology designed for improved viewing enjoyment. This feature allows you to view Digital Channels and Video inputs on both the main picture and sub picture simultaneously, with separate control.
When a Digital channel is viewed in the main picture, the Digital or Analog channel can not be viewed in the sub picture. Please see table for PIP availability.

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

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

Use connection at right to view VCR program as a sub-picture while viewing another program as main picture (CABLE/AIR Digital channel).
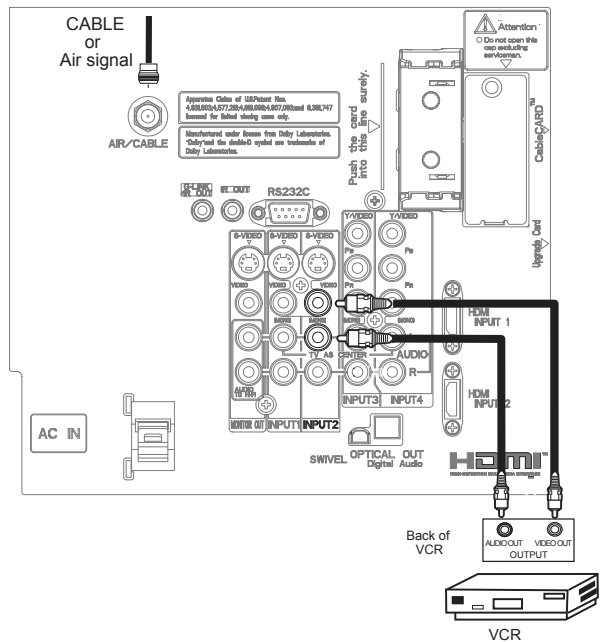
① **PIP button**
   Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, or SPLIT), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the three different modes.

SPLIT MODE PICTURE-IN-PICTURE
Split Mode PIP displays the main picture and sub-picture evenly on the screen.

Main Picture   Sub Picture

POP MODE PICTURE-IN-PICTURE
POP Mode PIP displays the sub-picture outside of the main picture. Use the CURSOR PAD (▲ or ▼) to move the sub-picture. This feature is not available with a 1080i/720p signal. Please refer to the PICTURE-IN-PICTURE MODES Table (see page 31).
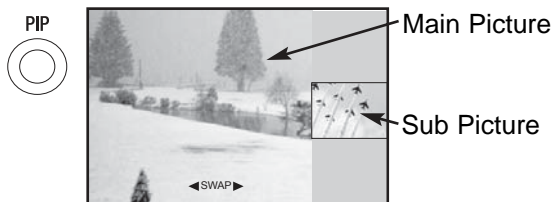
Main Picture

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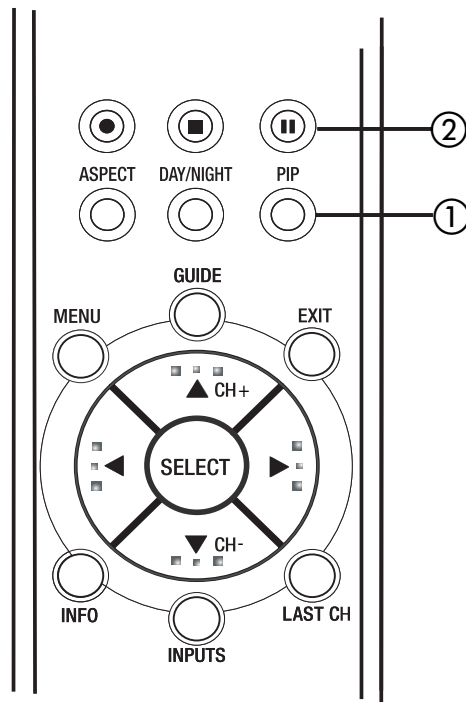
NOTE :   1.   Press the CURSOR PAD (◄ or ►) to enable the sub-picture sound.

PIP MODE PICTURE-IN-PICTURE
Select CABLE/AIR or INPUT 1~5 from the INPUTS menu. Select a channel that has a 1080i/720p signal.

PIP Specifications Table

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

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

The Remote Control

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).

Freeze

Freeze

Freeze →
Freeze →
Freeze →
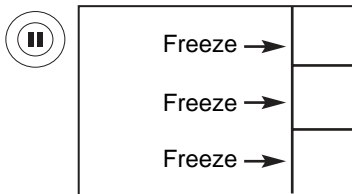
MAIN FREEZE

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.

Hot Springs Clay Mask
C/O John Doe
Run-Spa Retreat
P.O. Box 55512
Any Town, USA 98765
Check or
Money Order Only
1-800-555-1212

EXIT

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.

Main Picture   Sub Picture
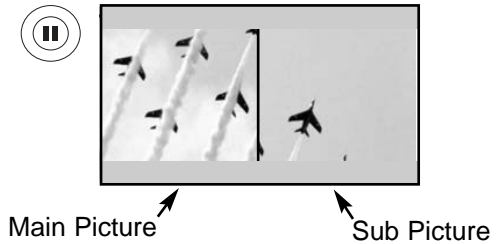
EXIT

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.

EXIT

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

The Remote Control for Cable Box Functions

Operating the precoded function for your cable box.

This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer to pages 39-40 for pre-codes).

1. Turn ON your cable box.

2. Aim the remote control at the front of your cable box.

3. To switch to Cable (CBL) pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.

4. Hold down the ENT button on the remote and enter the four digit preset code that matches your cable box as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.

5. Aim the remote at the cable box and press the POWER button. The remote will turn off your cable box when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different four digit preset code.

6. The remote will now control your Cable box.

NOTE: 1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
2. In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① **PRECODED CABLE BOX buttons**
These buttons transmit the chosen precoded cable codes.

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

The Remote Control

MY CABLE BOX CODE IS: _____

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

The Remote Control

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 39-40 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 (◄ or ►) on the remote control to position the LED light to the corresponding selection.

4. Hold down the ENT button on the remote and enter the four digit preset code that matches your set-top-box/satellite receiver as shown on page 39-40. 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 POWERbutton. 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.

NOTE: 1. *If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/satellite receiver code has not been precoded into the remote.*
2. *In the unlikely event that your set-top-box/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.*
3. *The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.*

① **PRECODED 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.
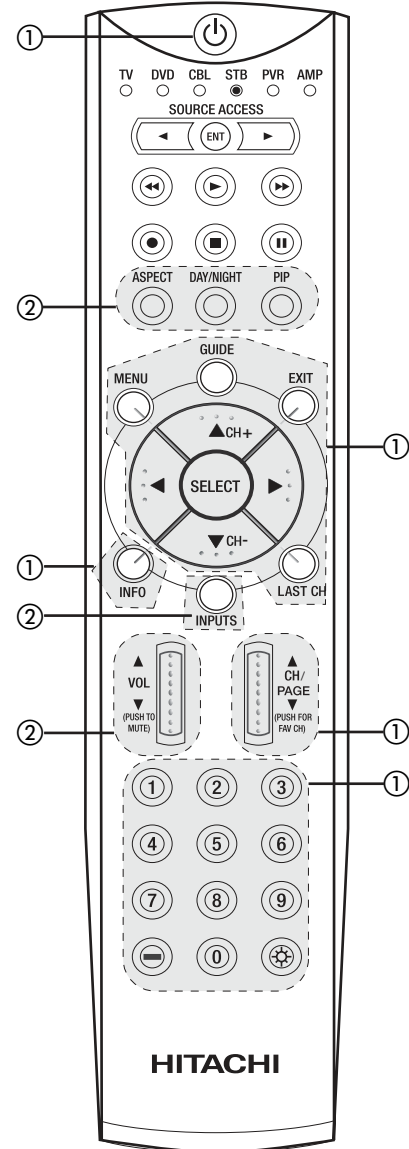
**MY Satellite RECEIVER/
SET-TOP-BOX CODE IS:** _____

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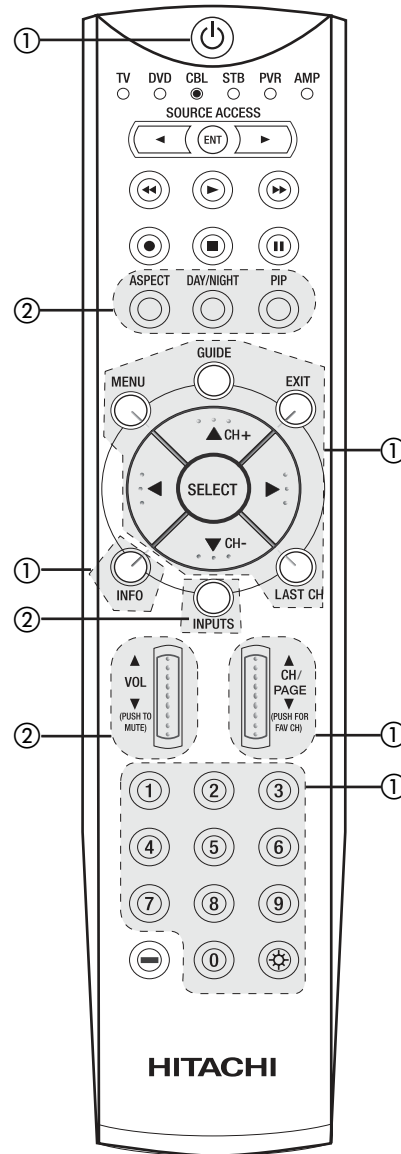
The Remote Control for DVD Functions

Operating the precoded function for your DVD player.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to pages 39-40 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 (◄ or ►) on the remote control to position the LED light to the corresponding selection.

4.   Hold down the ENT button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.

5.   Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different four digit preset code.

6.   The remote will now control your DVD player.

7.   You will need to set the display type of your DVD player to 16:9 widescreen.

NOTE: *1. If your DVD player cannot be operated after performing the above procedures, your DVD player code has not been precoded into the remote.*
   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.
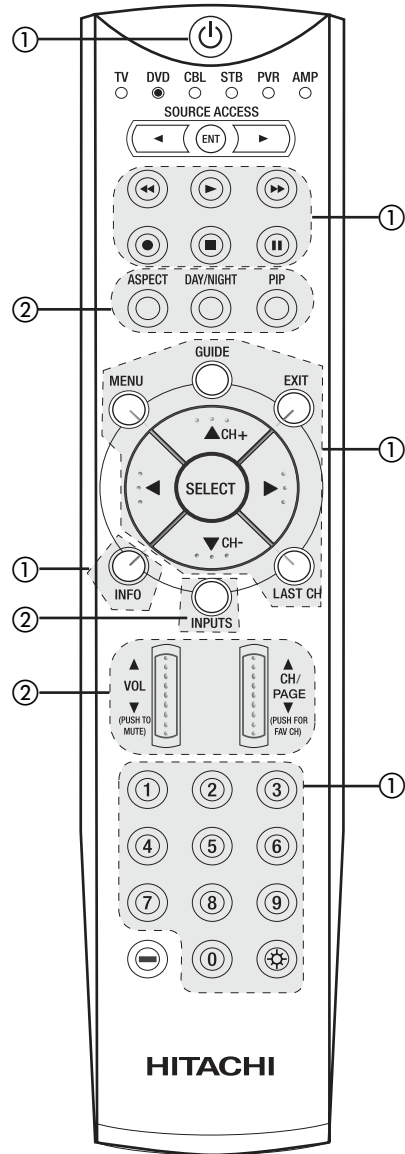
MY DVD PLAYER CODE IS: _____

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

The Remote for VCR/PVR Functions

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

This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 39-40 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 (◄ or ►) on the remote control to position the LED light to the corresponding selection.

4. Hold down the ENT button on the remote and enter the four digit preset code that matches your VCR/PVR, as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.

5. Aim the remote at the VCR/PVR and press the POWER button. The remote will turn off your PVR when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your VCR/PVR. If the VCR/PVR does not turn off, try a different four digit preset code.

6. The remote will now control your VCR/PVR.

> *NOTE:* *1. If your VCR/PVR cannot be operated after performing the above procedures, your VCR/PVR code has not been precoded into the remote.*
> *2. In the unlikely event that your VCR/PVR cannot be operated after performing the above procedures, please consult your VCR/PVR operating guide.*
> *3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.*

① **PRECODED VCR/PVR Buttons**
These buttons transmit the chosen precoded VCR/PVR codes.

② **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.
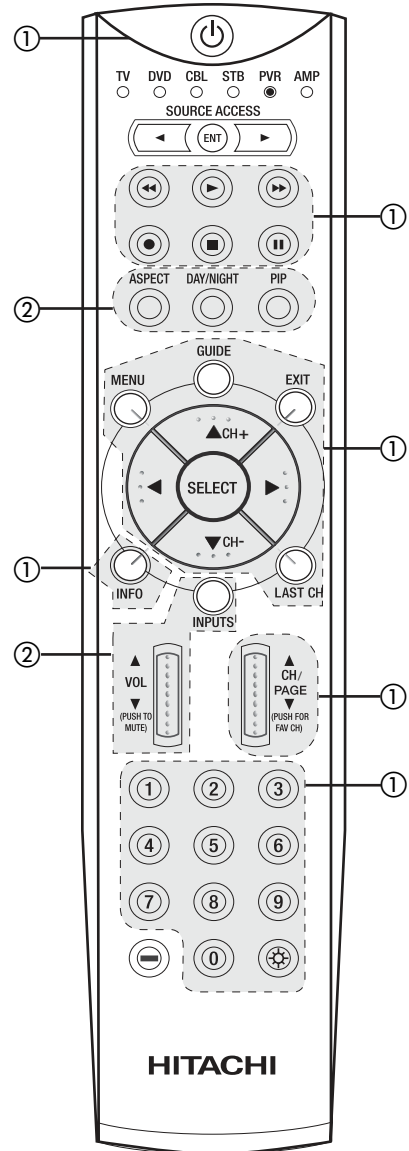
MY VCR/PVR CODE IS: _____

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

The Remote Control for Additional Audio Equipment

Operating the precoded function for your Audio component.

This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to pages 39-40 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 (◄ or ►) on the remote control to position the LED light to the corresponding selection.

4. Hold down the ENT button on the remote and enter the four digit preset code that matches your Audio component, as shown on pages 39-40. 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 POWERbutton. The remote will turn off your Audio component when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different four digit preset code.

6. The remote will now control your Audio component.

7. Repeat steps 1 - 6 if you wish to program the remote to control another Audio component.

NOTE: 1. *If your Audio component cannot be operated after performing the above procedures, your Audio component code has not been precoded into the remote.*
2. *In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio component operating guide.*
3. *The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.*

① **PRECODED AUDIO Buttons**
These buttons transmit the chosen precoded Audio component codes.

② **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.
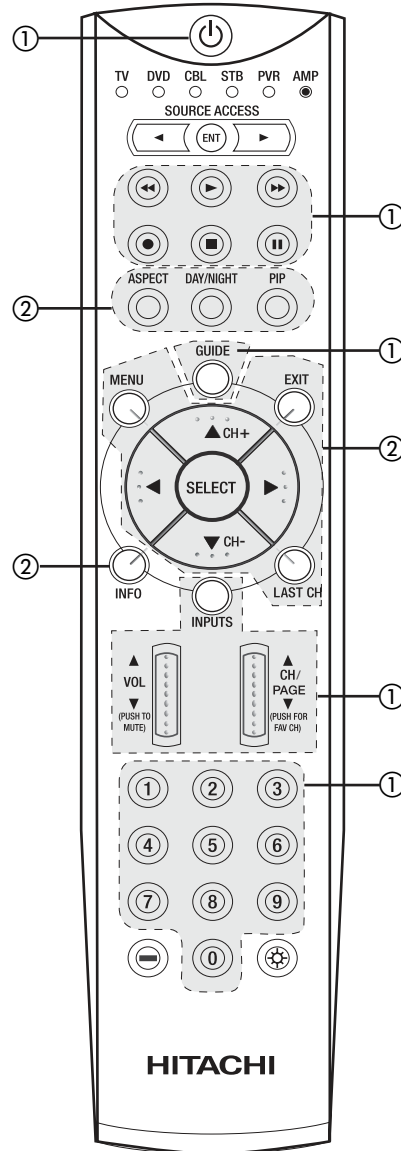
MY AUDIO COMPONENT CODE IS: _____

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

How to Use the ENT Button

INPUT ACCESS

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

1. Select the desired device mode (DVD, CBL, STB, PVR, or AMP) by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to the corresponding selection.

2. Hold down the ENTER (ENT) button on the remote and enter the four digit preset code that matches your device as shown on pages 39-40.

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)

(1) Select DVD mode by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to DVD.

(2) Hold down the ENTER (ENT) button and press the numbers 0, 5, 7 and 3.

(3) Then press the number 1 for the assigned input number of the DVD player.

(4) Release ENTER (ENT) button.

(5) If done correctly, the device LED indicator will flash 3 times to confirm proper setup.

(6) The remote will now control the DVD player.

(7) Press the ENTER (ENT) button to instantly access the video input of your DVD on Input 1.
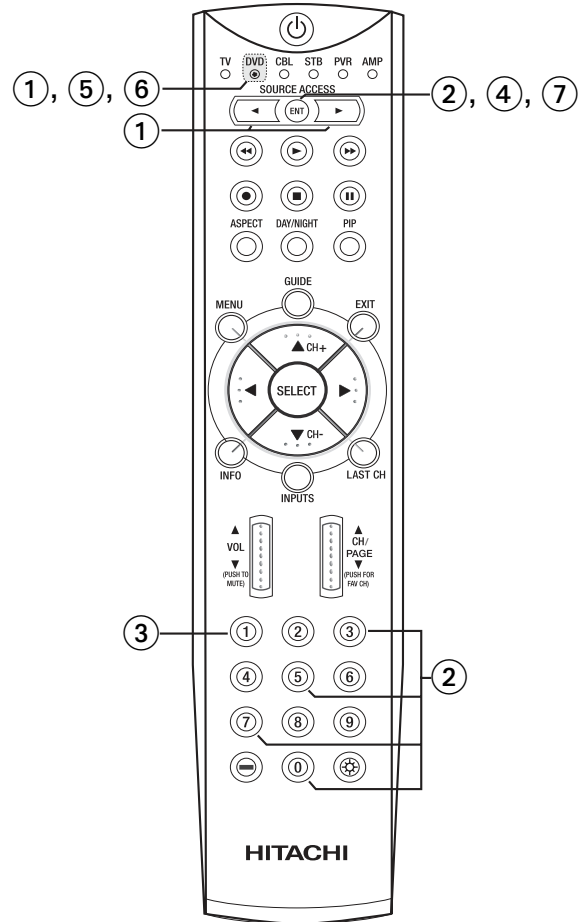
NOTE: 1. *This feature is optional*
2. *Assigned input numbers can be used more than once if applicable.*

Remote Control Codes

VCR BRAND ....CODE
ABS 1972
Admiral 0048, 0209
Adventura 0000
Aiko 0278
Aiwa 0000, 0037, 0307
Akai 0041, 0061, 0106
Alienware 1972
America Action 0278
American High 0035
Asha 0240
Audiovox.................0037, 0278
Beaumark 0240
Bell & Howell 0104
Broksonic...............0121, 0184,
    ....0002, 0209, 0479
CCE 0072, 0278
Calix 0037
Canon 0035
Carver 0081
Cineral 0278
Citizen....................0278, 0037
Colt 0072
Craig 0037, 0072,
    ....0047, 0240, 0271
Curtis Mathes 0035, 0041,
    ....0060, 0162
CyberPower 1972
Cybernex 0240
Daewoo 0278, 0045, 0561
Dell 1972
Denon 0042
Durabrand...............0039, 0038
Dynatech 0000
Electrohome 0037
Electrophonic 0037
Emerex 0032
Emerson0037, 0184, 000, 0121,
    0043, 0209, 0002, 0278, 0061,
    ..0208, 0212, 0479, 0561, 1593
Fisher 0104, 0047, 0066
Fuji 0033, 0035
Funai.......................0000, 1593
GE 0035, 0060, 0240,
    ....0202, 0761
Garrard 0000
Gateway 1972
Go Video 0432, 0526
GoldStar 0037, 0038
Gradiente 0000, 0008
HI-Q 0047
HP......................................1972
Harley Davidson 0000
Harman/Kardon 0038, 0081
Harwood 0072
Headquarter 0046
Hewlett Packard 1972
Hitachi 0000, 0041, 0042, 0105
Howard Computers............1972
Hughes Network Systems 0042
iBuy Power 1972
JVC...............0067, 0041, 0008
Jensen 0041
KEC 0037, 0278
KLH...................................0072
Kenwood 0041, 0067, 0038
Kodak 0035, 0037
LG.....................................0037
LXI 0037
Lloyd's 0000, 0208
Logik 0072
MEI 0035
MGA 0043, 0240, 0061
MGN Technology 0240
MTC 0000, 0208
Magnasonic 0593
Magnavox 0035, 0081, 0563,
0000, 0039, 0593
Magnin 0240
Marantz..................0081, 0035

Marta 0037
Matsushita 0035, 0162, 1162
Media Center PC 1972
Memorex 0035, 0162, 0037,
    ....0048, 0039, 0047, 0240,
    ....0000, 0104, 0209, 0046,
    ..0307, 0479, 1037, 1162, 1262
Microsoft 1972
Mind 1972
Minolta 0042, 0105
Mitsubishi 0061, 0043, 0067
Motorola 0035, 0048
Multitech 0000, 0072
NEC 0038, 0041, 0067, 0104
Nikko.................................0037
Noblex 0240
Northgate 1972
Olympus 0035
Optimus 0593, 1062, 0162,
    ....0037, 0048, 0104, 0432,
    ....1048, 1162, 1262
Optonica 0062
Orion....0184, 0209, 0002, 0479
Panasonic 0162, 1062, 0035,
    ....0616, 1162, 1262
Penney0035, 0037, 0240, 0042,
   0038
Pentax 0042, 0105
Philco ..0035, 0209, 0479, 0561
Philips 0081, 0035, 0618,
    ....1081, 1181, 0062
Pilot..................................0037
Pioneer 0067
Polk Audio.........................0081
Profitronic 0240
Proscan 0060, 0202, 0761
Protec 0072
Pulsar 0039
Quarter 0046
Quartz..............................0046
Quasar 0035, 0162, 1162
RCA....0060, 0240, 0042, 0105,
    ....0106, 0202, 0761, 0880
Radio Shack 0000, 1037
Radix 0037
Randex. 0037
Realistic........0035, 0037, 0048,
    ....0047, 0000, 0104, 0046,
    ....0062, 0066
ReplayTV 0614, 0616
Runco 0039
STS...................................0042
Samsung 0045, 0240, 0432
Sanky 0039, 0048
Sansui.........0000, 0067, 0209,
    ....0041, 0479, 1479, 0271
Sanyo ..0047, 0240, 0104, 0046
Scott 0184, 0045, 0121,
    ....0043, 0210, 0212
Sears..0035, 0037, 0047, 0000,
    0042, 0104, 1237, 0046, 0066,
   0105
Semp. 0045
Sharp 0048, 0848, 0062
Shintom 0072
Shogun 0240
Singer 0072
Sonic Blue 0614, 0616
Sony 0035, 0032, 0000,
    ....0033, 0636, 1032, 1972
Sylvania........0035, 0081, 0000,
    ....0043, 0593, 1593
Symphonic 0000, 0593, 1593
Systemax 1972
TMK 0240, 0208
Tagar Systems 1972
Tatung..............................0041
Teac 0000, 0041
Technics 0035, 0162
Teknika 0000, 0035, 0037

Thomas.............................0000
Tivo...............0618, 0636, 1503
Toshiba 0045, 0043, 0066,
    ....0210, 0212, 0366, 0845,
    ....1008, 1145, 1503, 1972
Totevision 0037, 0240
Touch 1972
Unitech 0240
Vector 0045
Vector Research 0038
Video Concepts 0045, 0061
Videomagic 0037
Videosonic 0240
Viewsonic 1972
Wards 0060, 0062, 0035, 0048,
    ....0047, 0081, 0240, 0000,
    ....0042, 0072, 0212
White Westinghouse.................
    ....0072, 0209
XR-1000 ....0072, 0000, 0035
Yamaha 0038
ZT Group 1972
Zenith 0039, 0000, 0209, 0033,
    ....0479, 1479

DVD BRAND ....CODE
AMW..................................0872
Aiwa 0641
Allegro 0869
Apex Digital ..0672, 0717, 0755,
    0794, 0796, 0797, 1004, 1020,
    ..1056, 1061, 1100, 1915, 1937
Audiovox.................0790, 1072
Axion.................................1072
Blaupunkt 0717
Blue Parade 0571
Brooksonic 0695
CAVS 1057
CineVision 0876, 0869
Classic 1917
Coby 1086
Curtis Mathes 1087
CyberHome ..0816, 1023, 1024
DVD2000 0521
Daewoo 0784, 0705,
    ....0833, 0869, 1918
Denon 0490, 0634
Dual 1068, 1085
Emerson 0591, 0675
Enterprise 0591
Fisher 0670
Funai.................................0675
GE 0522, 0717, 0815
GPX 0699, 0769
Gateway 1073
Go Video 0744, 0715, 0783,
    ....0833, 0869, 1075
Gradiente 0651
Greenhill 0717
Grundig.............................0705
Harman/Kardon 0702
Hitachi 0573, 0664, 0695
Hiteker 0672
IRT 0783
Initial 0717
Integra 0627
Hiteker 0672
JBL 0702
JVC......0623, 0558, 0867, 1901
KLH 0717, 0790, 1020
Kawasaki 0790
Kenwood.................0490, 0534
Koss 0651
Lasonic 0798
Lite-On 1058
Magnavox 0503, 0675,
    ....1914, 1976
Marantz..............................0539
Memorex...........................0695
Microsoft 0522

Mintek 0717, 0839
Mitsubishi 0521, 1521
Nesa 0717
Norcent 1003, 0872
Onkyo 0627, 0503
Oritron..............................0651
Panasonic 0490
Philco 0790
Philips..0503, 0539, 0646, 0854
Pioneer 0525, 0571, 1902
Polaroid 1061, 1086
Polk Audio.........................0539
Proscan 0522
Qwestar 0651
RCA.............0522, 0571, 0717,
    ....0790, 0822, 1974
Recco 0698
Rio 0869
Rotel 0623
Rowa 0823
Sampo 0698, 0752
Samsung 0490, 0573,
    ....0820, 0744, 1075
Sansui................................0695
Sanyo 0670, 0695, 0873
Semp 0503
Sharp 0630, 0752
Shinsonic 0533, 0839
Sonic Blue 0869
Sony 0533
Sylvania 0675
Symphonic 0675
TYT....................................0705
Teac 0790
Technics 0490
Theta Digital 0571
Tivo....................................1996
Toshiba 0503, 0695, 1045,
    ....1988, 1996, 2006
Tredex 0799, 0803
US Logic............................0839
Urban Concepts 0503
Venturer 0790
XBox 0522
Yamaha 0490, 0545, 0539
Zenith 0591, 0503, 0869

CABLE BRAND.............CODE
ABC 0003, 0008, 0011, 0013,
    ....0014, 0017
Allegro 0153, 0315
Americast 0899
Antronix 022
Archer.............022, 0153, 0797
Bell & Howel 0014
Bell South 0899
Cabletenna 0022
Cableview 0022
Century 0153
Citizen....................0153, 0315
ClearMax 0883
Clearmaster 0883
Colour Voice 0025, 0031
Comtronics 0040
Contec 0019
Coolmax 0883
Digi 0637
Director 0476
Dumont 0637
Emerson 0797
Everquest 0015, 0040
Focus 0400
Garrard 0153
Gemini 0015, 0797
General Instrument 0003, 0011,
    ....0476, 0276, 0810
GoldStar 0040, 0144
Goodmind 0797
Hamlin 0009, 0020, 0034, 0273
Hitachi................................0011

Remote Control Codes

The Remote Control

Jasco 0015, 0153, 0315
Jerrold .... 0003, 0011, 0012, 0014, 0015, 0024, 0276, 0476, ...0810
Memorex 0000
Motorola ...... 0276, 0476, 0810, ...1106, 1254, 1376
Movie Time 0063
Multivision 0012
NSC 0063
Novaplex..........0618
Oak 0019
Optimus 0021
Pace 0237, 1877
Panasonic......0000, 0021, 0107
Panther 0637
Paragon 0000
Philips..........0305, 0317
Pioneer0023, 0025, 0031, 0153, ...0144, 0533, 0877, 1877
Popular Mechanics..........0400
Pulsar 0000
Quasar..........0000
RCA 0021
RadioShack..0015, 0315, 0797, ...0883
Recoton 0400
Regal..........0020, 0273, 0279
Rembrandt..........0011
Runco 0000
SL Marx 0040
Samsung..........0040, 0144
Scientific Atlanta ....0877, 0008, ...0017, 0477, 1877
Signal..........0015, 0040
Signature 0011
Sony 1006
Sprucer..........0021
Starcom..........0003, 0015
Stargate........0015, 0040, 0797
Starquest..........0015
Supercable..........0276
Supermax..........0883
TFC..........0310
TV86..........0063
Tandy..........0258
TeleCaption..........0221
Teleview..........0040
Timeless..........0040
Tocom..........0012, 0013
Torx..........0003
Toshiba..........0000
Tristar..........0883
Tusa..........0015
Unika..........0022, 0153
Universal......0022, 0153, 0191
V2..........0883
ViewMaster..........0883
Viewstar..........0063, 0258
Vision..........0883
Vortex View..........0883
Zenith..0000, 0054, 0525, 0899
Zentek..........0400

SATELLITE BRAND (Set-Top-Box)..............CODE
AlphaStar..........0772
Amway..........0043, 0075
Astro Industries..........0095
BSR..........0095
Cable Innovations..........0554
Capetronic..........0095
Century..........0856
Channel Master......0018, 0212
Chapparral....0053, 0209, 0216
Conifer..........0004
Crossdigital..........1109
Curtis Mathes..........061
DX Antenna..........0041
DirecTV........0392, 0566, 0639,

..........1639, 1142, 0247, 0749, ...1749, 0724, 0819, 1856, ...1076, 1109, 0099, 1052, ..1053, 1054, 1442, 1443, 1444
Dish Network System......1005, 0775, 1170
DishPro..........1005, 0775
Drake..........0018, 0064, 0245
Echostar......1005, 0775, 0148, ...0269, 0280, 1170
Expressvu..........0775
GE..........0566
GOI..........0775
General Instrument..........0869, ...0547, 0554
Gradiente..........0856
HTS..........0775
Hitachi..........0819
homecable..........0238
Hughes Network Systems 1142, ..0749, 1749, 1442, 1443, 1444
Hytek..........0095
IQ..........0210
IQ Prism..........0210
Innova..........0099
Intersat..........0043
JVC..........0775, 1170
Janeil..........0152
Legend..........0269
Macom..........0018, 0061
Magnavox..........0724, 0722
Memorex..........0724, 0269
Mitsubishi..........0749
Motorola..........0869
Netsat..........0099
Next Level..........0869
Norsat..........0004
Pace..........0455
Panasonic......0247, 0701, 0152
Paysat..........0724
Philips 1142, 0749, 0724, 1076, ...0722, 1749, 0856, 0099
Pico..........0075
Proscan..........0392, 0566
RCA....0392, 0566, 0855, 0143
Radioshack..........0869, 0554
Ramsey..........0075
Realistic..........0052
SKY..........0856, 1856, 0099
STS..........0041, 0210
Samsung..........1276, 1109
Sony..........0639, 1639
Star Choice..........0869
Star Trak........0180, 0421, 0547
Strong..........0421
Tivo......1142, 1442, 1443, 1444
Toshiba........0749, 1749, 0790, ...0061, 0082, 1052, 1053, ..1054, 1285, 1286, 1287, 1289
Town & Country..........0547
Uniden 0724, 0722, 0052, 0074, ...0076, 0238, 0370, 0554
Zenith..0856, 1856, 0061, 0064

AMPLIFIER BRAND......CODE
Aiwa..........0406
Bose..........0674
Carver..........0269
Curtis Mathes..........0300
Denon..........0160
Durabrand..........1561
GE..........0078
Harman/Kardon..........0892
JVC..........0331
Left Coast..........0892
Lenoxx..........1561
Linn..........0269
Luxman..........0165
Magnavox..........0269
Marantz........0269, 0321, 0892

NEC..........0264
Nakamichi..........0321
Optimus..........0395, 0300
Panasonic..........0308, 0521
Parasound..........0246
Philips..........0269, 0892
Pioneer..........0013, 0300
Polk Audio..........0269, 0892
RCA..........0300
Realistic..........0395
Sansui..........0321
Shure..........0264
Sony..........0815, 0689, 0220
Soundesign..........0078, 0211
Technics..........0308, 0521
Toshiba..........0353
Victor..........0331
Wards..........0013, 0078, 0211
Yamaha..........0354, 0133

RECEIVER BRAND (Amplifier) CODE
ADC..........0531
Aiwa....1405, 0121, 0158, 0189, 0405
Anam..........1074, 1609
Arcam..........1120
Audiotronic..........1189
Bose..........0639, 1229, 1253
Capetronic..........0531
Carver..........1189, 0042, 0189
Casio..........0195
Clarinette..........0195
Coby..........1263
Compaq..........1136
Curtis Mathes..........0080
Dell..........1383
Denon..........0004, 1360
Fisher..........0042
Garrard..........0463
Glory Horse..........1263
Harman/Kardon......0891, 0110, 0189
Hewlett Packard..........1181
Hitachi..........0228
Integra..........0135
JBL..........0110
JVC..........0074, 1263
KLH..........1428
Kenwood......1313, 1570, 1569, ...0027, 0042, 0186, 0239
LXI..........0181
Linn..........0189
Lloyd's..........0195
MCS..........0039
Magnavox....1189, 1269, 0189, 0195, 0391, 0531
Marantz 1189, 0039, 0189, 1269
Mitsubishi..........1393
Modulaire..........0195
Musicmagic..........1089
Nakamichi..........0097
Onkyo..........0135, 0842
Optimus.........1023, 0042, 0080, ...0177, 0181, 0186, 0219, ..0531, 0670, 0738, 0801, 1074
Panasonic....1518, 0039, 0309, 0367
Penney..........0195
Philips..........1189, 1269, 0189, ...0391, 1120
Pioneer........1023, 0014, 0080, ...0150, 0244, 0531, 0630
Polk Audio..........0189
Proscan..........1254
Quasar..........0039
RCA..........1023, 1254, 0080, ...0531, 1074, 1609
Radio Shack..........1263
Realistic..........0181, 0195

Rio..........1383
Sansui..........0189
Sanyo..........0801, 1251
Scott..........0163, 0322
Sharp..........0186
Sharper Image..........1263
Sherwood..........0491, 0502
Sonic Blue..........1383
Sony..1058, 1441, 1759, 0158, ...0474, 1349, 1406, 1442
Soundesign..........0670
Stereophonics..........1023
Sunfire..........1313
Teac..........0463, 1074
Technics..........1308, 1518, ...0039, 0309
Thorens..........1189
Toshiba..........1572
Victor..........0074
Wards .0014, 0080, 0158, 0189
Yamaha..........0176, 0186, 1176
Yorx...........0195
Zenith..........0857

AUDIO BRAND..........CODE
Aiwa..........0010, 0159
AudioSource..........0351
Cambridge Soundworks....0351
Carver..........0351
Fisher..........0052
Fosgate..........0259
Harmon/Kardon..........0477
JBL..........0477
JVC..........0073
KLH..........0351
Magnavox..........0325
Nikko..........0376
Paramount Pictures 0317, 0351
RCA..........0056
SSI..........0317
Sansui..........0325
Schneider..........0376
Sony..........0010, 0576
Soundesign..........0376
Yorx..........0376

SET TOP BOX BRAND..CODE
Panasonic..........1120
Pioneer..........1010
Princeton..........0113, 0295
Samsung..........1190
Sensory Science..........1126
Sharp..........1010
Sony..........0639

PERSONAL VIDEO RECORDER BRAND......CODE
Panasonic..........0616
Philips..........0618
ReplayTV..........0614, 0616
SonicBlue..........0614, 0616
Sony..........0636
Tivo..........0618, 0636

On-Screen Display

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

2. Use the CURSOR PAD (buttons ▲, ▼, ◄ and ►) or CHANNEL WHEEL to navigate to a different menu item.

3. Press EXIT on the remote control to quickly exit from a menu.
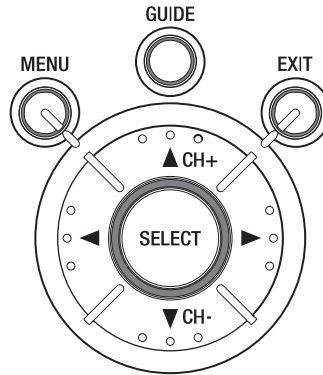
This part of the screen shows which selections are available.

Video
Audio
TV Guide On Screen
Channel Manager
Locks
Timers
Setup
Power Swivel
↕►Move   SEL Select
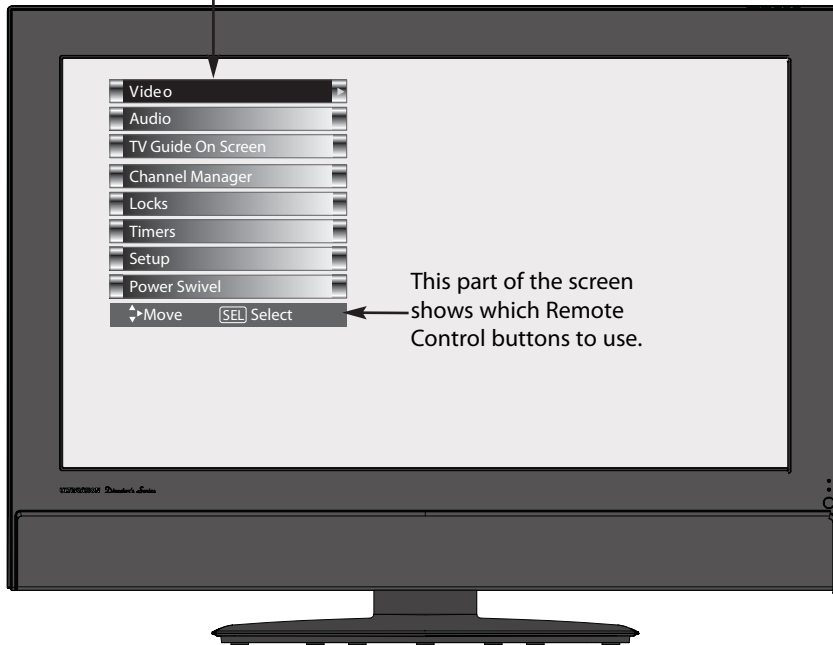
This part of the screen shows which Remote Control buttons to use.

Video

Picture Mode	Select between 3 pictures modes; Day (Dynamic), Day (Normal) and Night.
White Level	Adjust picture white level.
Black Level	Adjust picture black level.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
Motion Sharpness	Select between 3 sharpness modes to increase detail on moving pictures.
Back Light	Adjust the intensity of the panel back light.
Color Temperature	Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors or Black and White for more reddish color.
Black Enhancement	Enhance picture brightness in light scenes.
Contrast Mode	Use this function to choose between 2 Contrast Mode settings.
Noise Reduction	Reduces conspicuous noise in the picture.

Auto Movie Mode	Turn On/Off the 3:2 Pulldown detection feature.
Color Management	Adjust and balance individual colors to make either deeper or more pure according to preference.
Color Decoding	Adjust the percentage of Red, Green and Color according to preference.
Auto Color	The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.
White Balance	Use this function to adjust the dark end (Cutoff) and bright end (drive) of the White background.
Black Side Panel	Set the gray side bars On/Off when watching 4:3 signals in standard mode.
Aspect	Choose the picture format aspect ratio.
Reset Video Settings	Choose to Reset Video Settings to factory settings.

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Audio

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

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

TV Guide On Screen

TV Guide On Screen	Set, Control and navigate the system

Channel Manager

Signal Meter	Access Signal Meter.
Auto Channel Scan	Set Auto Channel Scan.
Channel List	Set Channel List.

Locks

Change Access Code	Change Lock access code.
Engage Lock	Choose to lock channel, and/or Side panel.
Movie Ratings	Block various types of movies and video types based on motion picture ratings.
TV Ratings	Block various types of movies and television programming based on a parental guide ratings.
Canadian Ratings (ENG)	Block various types of movies and television programming based on the Canadian ratings system.
Canadian Ratings (FRN)	Block various types of movies and television programming based on the Canadian French ratings system.
Alternate Ratings U.S.	Ratings system for DTV Signal to block various types of programs

Timers

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

Setup

Set The Menu Options	Choose English, French, or Spanish text and Background.
Set The Power Saving	Automatic Power Saving features.
Set The Inputs	Label Video Inputs, VCR, DVD, etc.
Set The Closed Captions	Feature to display dialogue/text.
Set The Output Terminals	Set Output source options.
CableCARD Information	Access important CableCARD and Diagnostics info.
Set The Quick Start Options	Select the TV Quick Start Up options.
Reset The Software	Select to upgrade TV software.

Power Swivel

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

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

Video

Video

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

Picture Mode
Use this function to choose from automatic picture settings to optimize your TV's performance.
1. Use the **CURSOR** buttons ◄ or ► to highlight and select **PICTURE MODE** settings (Day-Normal, Day-Dynamic or Night).
2. Then press the **SELECT** button to set the mode and return to the Video menu or press **EXIT** to quit menu.

3. There are 3 Picture Modes available for the customer Day (Dynamic), Day (Normal) and Night mode. Day (Dynamic) is the original factory preset mode , this can be changed by adjusting any video setting to your desire conditions. Day (Normal) can be used as a second video setting for daytime viewing. Night is set to watch programing during nigthtime.

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

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

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

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

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

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

Motion Sharpness
When moving picture occurs detail in the picture is lost this function improves the picture detail in 3 modes Off, Low and High.

Back Light
Use this function to change the back light of the LCD panel, this will increase or decrease the brightness of the LCD panel, but not the brightness of the video signal.
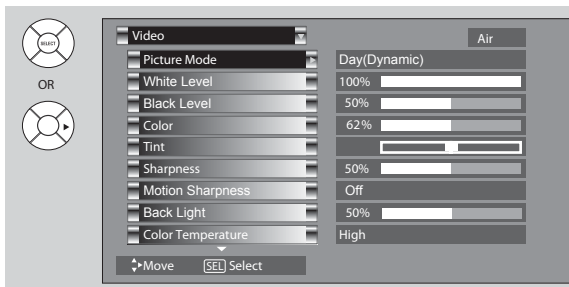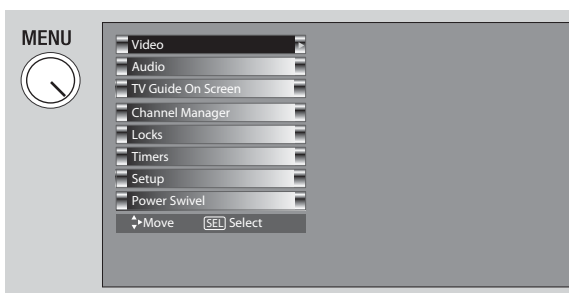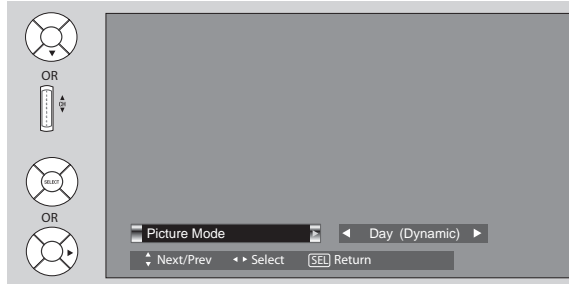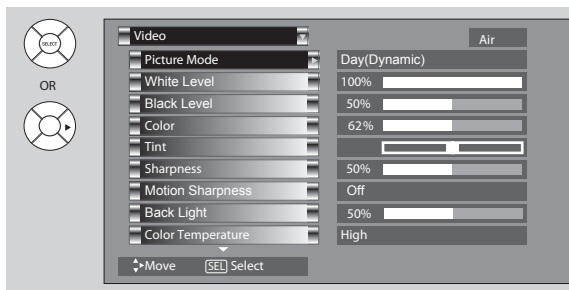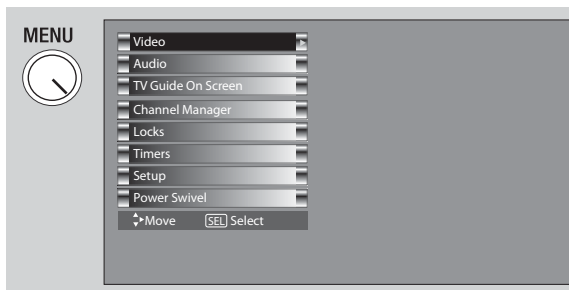
Color Temperature
Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.

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

> *NOTE: 1. If WHITE LEVEL is selected, you are adjusting CONTRAST. The additional menu items BLACK LEVEL, 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-P$_B$P$_R$ input jacks.*
> *3. CABLE and AIR share a Video setting. Also, each of the video inputs have their own independent settings.*

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

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

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

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

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

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

1. Use **CURSOR PAD ▲** or **▼** or CHANNEL WHEEL to highlight the Color Management function.
2. Press the **SELECT** button or **CURSOR PAD ▶** to select Set User Colors setting. When the function has a "✓" in the box called "Set User Colors", it is ON.

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

4. Use the **CURSOR PAD ▲** and **▼** to highlight and select "Reset" then press the **SELECT** button to return all colors to default settings.

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

On-Screen Display
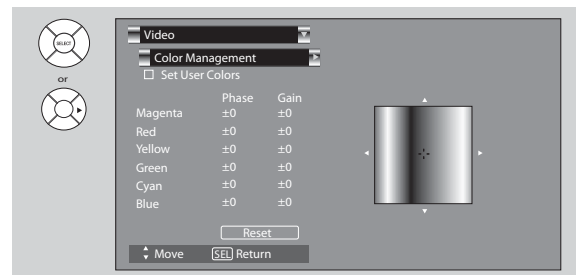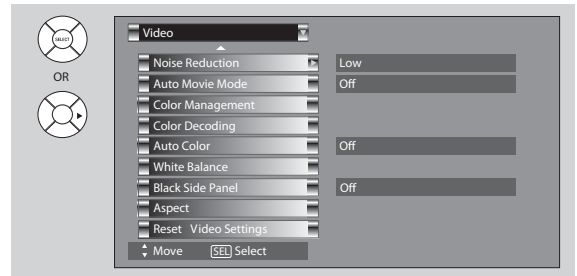
Video

Color Decoding

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

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

Video	
Color Decoding	
RGB	R	G	B
Red	50%
Green	50%
Color	62%
Tint	
Reset	
▲▼ Move	[SEL] Return
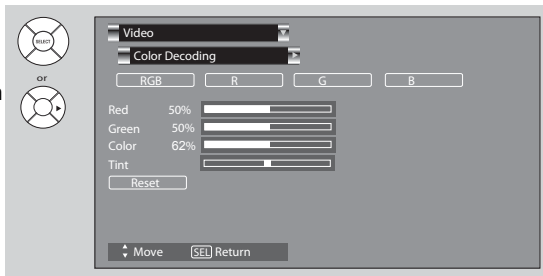
NOTE: The Red and Green adjustments will apply for each color temperature.

Auto Color

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

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

White Balance

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

1. Use the CURSOR PAD ▲ or ▼ or CHANNEL WHEEL to highlight the choice.
2. Press the CURSOR PAD ◄ or ► to adjust.

3. Press the EXIT button to quit or select White Balance to return to the previous MENU.

Video	
White Balance	
Color Temperature	: High
Red Drive	100%
Green Drive	100%
Blue Drive	100%
Red Cutoff	50%
Green Cutoff	50%
Blue Cutoff	50%
Reset	
▲▼ Move	[SEL] Return
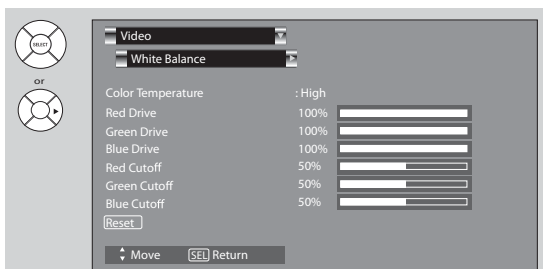
Black Side Panel

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

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

Black Side Panel	◄ Off ►
▲▼ Next ◄► On/Off	[SEL] Return

Black Side Panel	◄ On ►
▲▼ Next ◄► On/Off	[SEL] Return
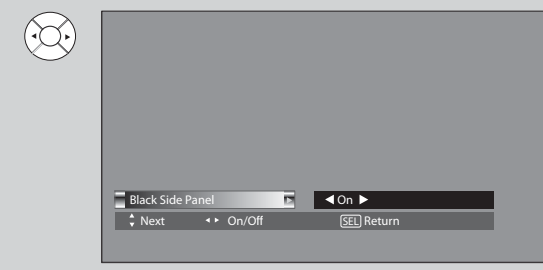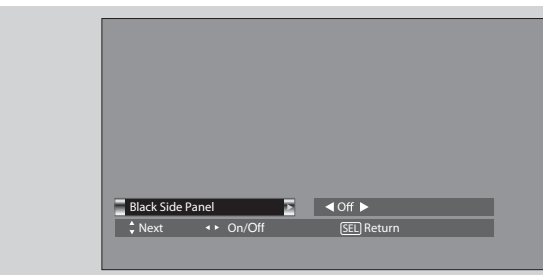
Aspect
Use this function to select the Picture Format Aspect Ratio.

Auto Aspect
Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.
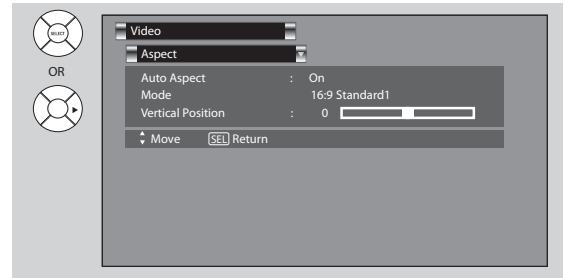
Mode
Manually select the Aspect Ratio.

Vertical Position
This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM. Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480p signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video is toward top of screen).

1. Use the **CURSOR PAD** ▲ or ▼ to to select menu item.

2. Press the **CURSOR PAD** ◄ or ► to adjust the function**.**

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

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

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

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

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

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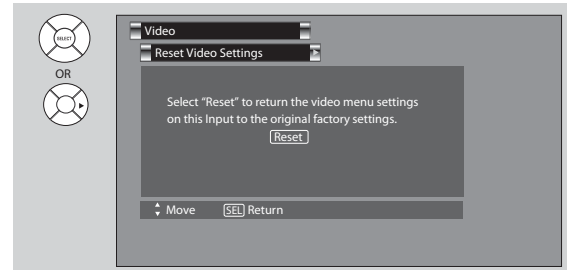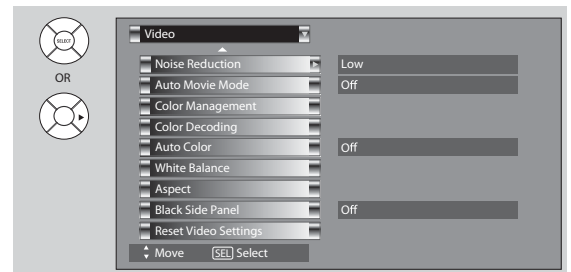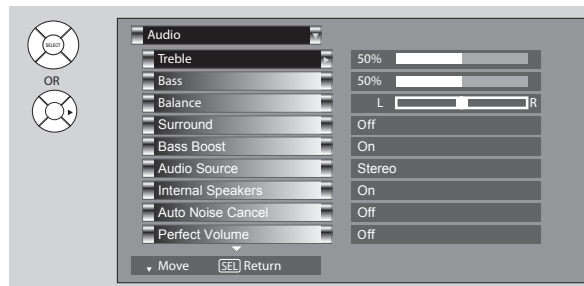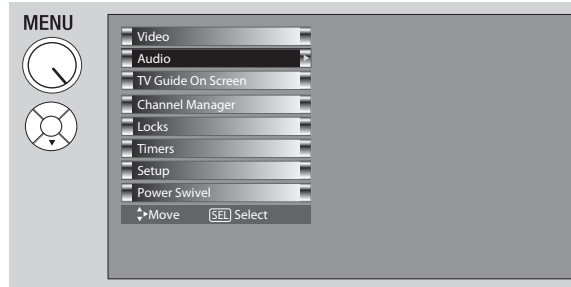
Audio

Audio

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

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

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

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.

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

1.- Use cursor ▲ or ▼ to highlight surround option.
2.- Use cursor ◄ or ► to select Off, Normal or Wide.

Off : turns off the surround sound effect.

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

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

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

On-Screen Display

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

Internal Speakers
This function is useful when setting up the external speakers.

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

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

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

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

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

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

DD DOLBY ®
D I G I T A L

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

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

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

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

Use the CURSOR PAD ◄ or ► to select the chosen options.

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

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

NOTE: 1.- The DRC control affects only Dolby Digital signals decoded internally by the TV.

2.- DRC does not affect the Dolby Digital bitstream available at the digital audio output.

On-Screen Display
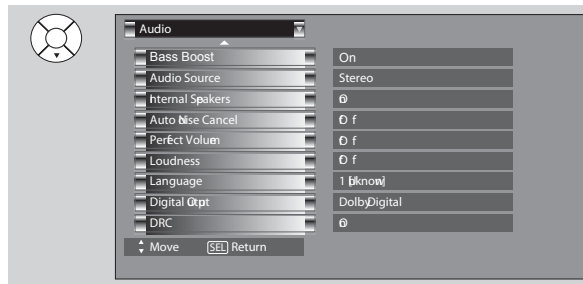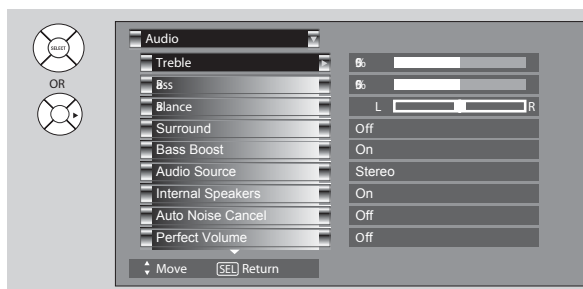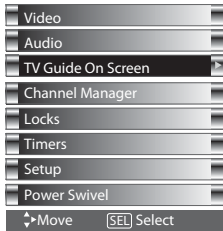
TV Guide On Screen

TV Guide On Screen

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

If using a VCR, you must first setup the LCD TV as shown on Page 22.

To Setup the TV Guide On Screen System:

1. Press the MENU button. Use the CURSOR PAD ▼ to highlight TV GUIDE ON SCREEN, then press the SELECT button.
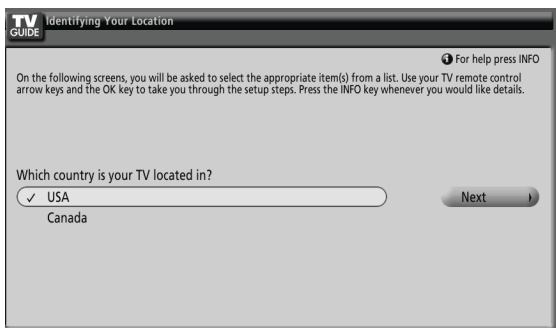
Video
Audio
TV Guide On Screen
Channel Manager
Locks
Timers
Setup
Power Swivel
↕Move   SEL Select

TV GUIDE

TV Guide On Screen interactive program guide

Built-in to this TV!

▸ 8 days of listings
▸ Powerful show searches
▸ One-touch recordings
▸ Subscription free

TV made easy.
Just press OK on your remote to begin!

Start ▸

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

2. Press the SELECT button to continue.

Setup Procedure:

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

TV GUIDE   Identifying Your Location

For help press INFO

On the following screens, you will be asked to select the appropriate item(s) from a list. Use your TV remote control arrow keys and the OK key to take you through the setup steps. Press the INFO key whenever you would like details.

Which country is your TV located in?
✓ USA
   Canada

Next ▸

Screen 2: Enter the zip code (USA) or postal code (Canada):
Use the Numeric buttons and the CURSOR PAD ▲ and ▼ for letter entries to enter the ZIP code (USA) or postal code (CANADA) of your location.

TV GUIDE   Identifying Your Location

For help press INFO

Please enter the 5-digit ZIP Code where your TV is located:
   9   2   1   7   (=)
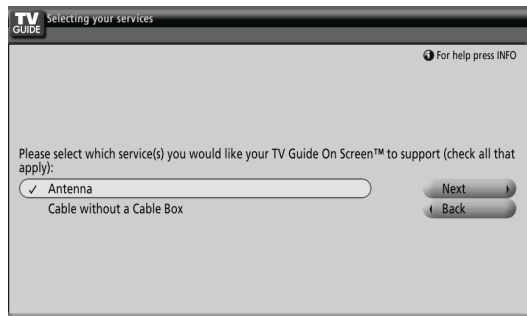
Next ▸
◂ Back

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

Screen 3:
   Please select which service(s) you would like your TV Guide On Screen™ to support (Check all that apply):
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button then select Next :

TV GUIDE   Selecting your services

For help press INFO

Please select which service(s) you would like your TV Guide On Screen™ to support (check all that apply):
✓ Antenna
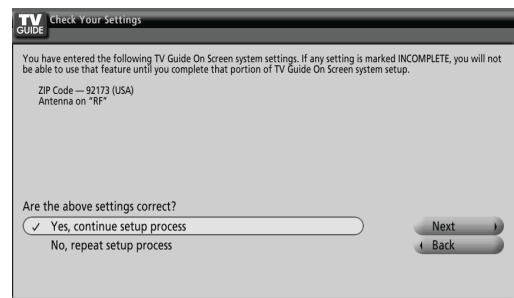   Cable without a Cable Box

Next ▸
◂ Back

Screen 4:
   Are the above settings correct ?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button then select Next :
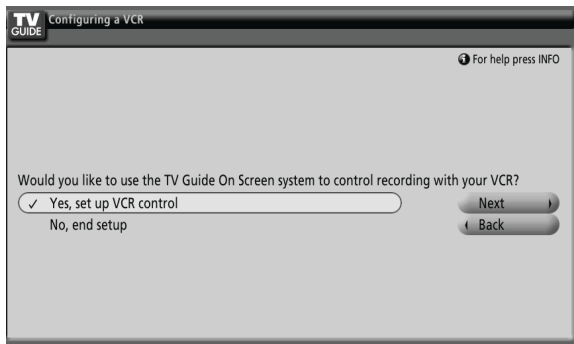*If all setting are correct please select Yes to continue.
*If a setting is wrong please select No to modify.

TV GUIDE   Check Your Settings

You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.

   ZIP Code — 92173 (USA)
   Antenna on "RF"

Are the above settings correct?
✓ Yes, continue setup process
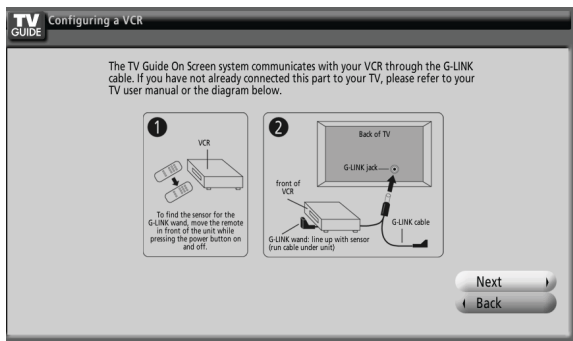   No, repeat setup process

Next ▸
◂ Back

Screen 5:

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

TV GUIDE Configuring a VCR

❶ For help press INFO

Would you like to use the TV Guide On Screen system to control recording with your VCR?
✓ Yes, set up VCR control   Next ▶
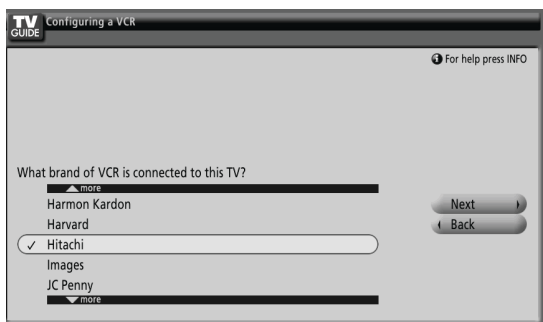 No, end setup   ◀ Back

Screen 6:

The screen will show the correct way to setup the VCR with the G-Link. Please confirm the connections (see page 22). Press SELECT button to continue.
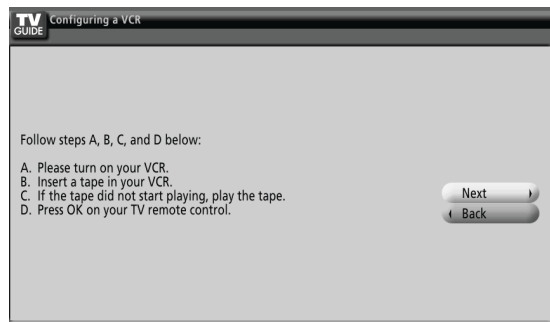
TV GUIDE Configuring a VCR

The TV Guide On Screen system communicates with your VCR through the G-LINK cable. If you have not already connected this part to your TV, please refer to your TV user manual or the diagram below.

❶ VCR

To find the sensor for the G-LINK wand, move the remote in front of the unit while pressing the power button on and off.

❷ Back of TV
G-LINK jack
front of VCR
G-LINK wand: line up with sensor (run cable under unit)
G-LINK cable

Next ▶
◀ Back

Screen 7:

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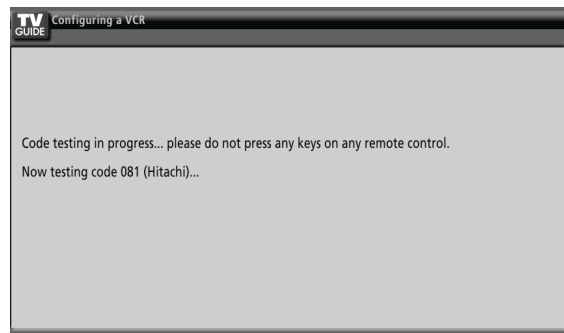Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.

TV GUIDE Configuring a VCR

❶ For help press INFO

What brand of VCR is connected to this TV?
▲ more
  Harmon Kardon   Next ▶
  Harvard   ◀ Back
✓ Hitachi
  Images
  JC Penny
▼ more

Screen 8:

This screen shows the stept that you need to follow to make the correct setup of your VCR with the G-LINK. Please check your connection (see Page 22). Press the SELECT button to continue.

TV GUIDE Configuring a VCR

Follow steps A, B, C, and D below:

A. Please turn on your VCR.
B. Insert a tape in your VCR.   Next ▶
C. If the tape did not start playing, play the tape.   ◀ Back
D. Press OK on your TV remote control.

Screen 9:

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

TV GUIDE Configuring a VCR

Code testing in progress... please do not press any keys on any remote control.

Now testing code 081 (Hitachi)...

Screen 10:

Did your VCR stop playback of the TAPE ?
If Yes then go to screen 11
If No the TV Guide will try a different code and return to screen 9.
If you like to Test this test code again one more time

TV GUIDE Configuring a VCR

❶ For help press INFO

Did your VCR stop playback of the tape?
✓ Yes   Next ▶
  No   ◀ Back
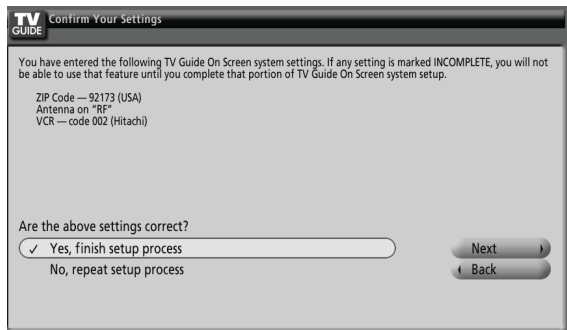 Test this code again

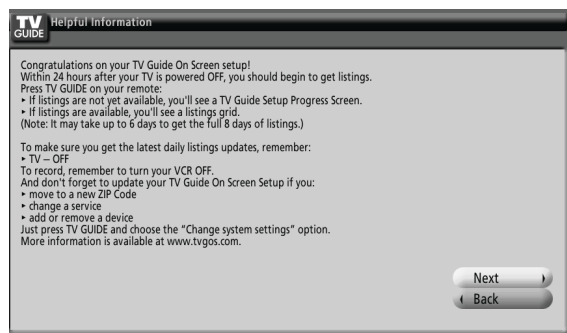# TV Guide On Screen

Screen 11:

Are the settings correct ?

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

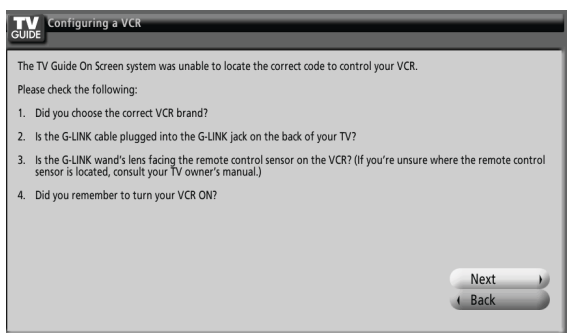If No please make the necessary changes in order to complete the TV Guide setup procedure.

TV GUIDE   Confirm Your Settings

You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.

ZIP Code — 92173 (USA)
Antenna on "RF"
VCR — code 002 (Hitachi)

Are the above settings correct?

✓ Yes, finish setup process   Next ›

No, repeat setup process   ‹ Back

Screen 12:

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

TV GUIDE   Helpful Information

Congratulations on your TV Guide On Screen setup!
Within 24 hours after your TV is powered OFF, you should begin to get listings.
Press TV GUIDE on your remote:
▸ If listings are not yet available, you'll see a TV Guide Setup Progress Screen.
▸ If listings are available, you'll see a listings grid.
(Note: It may take up to 6 days to get the full 8 days of listings.)

To make sure you get the latest daily listings updates, remember:
▸ TV – OFF
To record, remember to turn your VCR OFF.
And don't forget to update your TV Guide On Screen Setup if you:
▸ move to a new ZIP Code
▸ change a service
▸ add or remove a device
Just press TV GUIDE and choose the "Change system settings" option.
More information is available at www.tvgos.com.

Next ›
‹ Back

Screen 13:

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

TV GUIDE   Configuring a VCR

The TV Guide On Screen system was unable to locate the correct code to control your VCR.

Please check the following:

1. Did you choose the correct VCR brand?

2. Is the G-LINK cable plugged into the G-LINK jack on the back of your TV?

3. Is the G-LINK wand's lens facing the remote control sensor on the VCR? (If you're unsure where the remote control sensor is located, consult your TV owner's manual.)

4. Did you remember to turn your VCR ON?

Next ›
‹ Back

Screen 14:

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

1.- Try VCR configuration again to repeat the setup.

2.- Try alternate remote codes to see other code alternatives that may solve the problem.

3.- Skip this step , will finish the TV Guide setup ; but will show an incomplete setup for your VCR.

TV GUIDE   Configuring a VCR

ⓘ For help press INFO

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

✓ Try VCR configuration again   Next ›

Try alternate remote codes   ‹ Back

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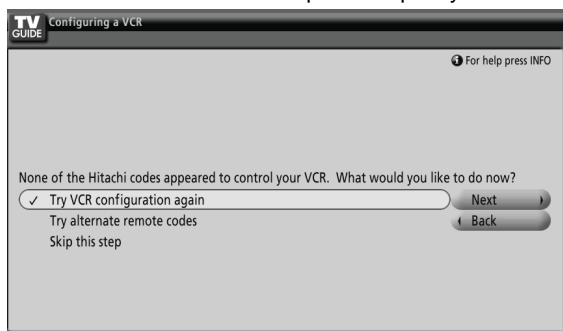
NOTE: 1.   The LCD TV should be in standby mode in order to continually receive updated program listings from your cable company.
2.   If using a Cable box, please leave it ON to continually receive updated program listings from your cable company.

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

On-Screen Display

Channel Manager

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

1. Press CURSOR PAD ▲, ▼ or CHANNEL WHEEL buttons to highlight function.

2. Press the SELECT button or CURSOR PAD ▶ to select.

MENU

Video	
Audio	
TV Guide On Screen	
Channel Manager	▶
Locks	
Timers	
Setup	
Power Swivel	

↕Move   [SEL] Select

OR

Channel Manager	▶
Signal Meter	
Auto Channel Scan	
Channel List	

↕ Move   [SEL] Select

Signal Meter

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

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

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

OR

Channel Manager	▶
Signal Meter	▶
Auto Channel Scan	
Channel List	

↕Move   [SEL] Select

Channel Manager	
Signal Meter	

Channel	3 1
Strength	91
Peak	91
SNR	10

[Close]

↕ Move   [SEL] Return

Auto Channel Scan

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

1. Use the **CURSOR** buttons ◀ or ▶ to highlight AIR, CABLE (1) or CABLE(2) source.

2. Press the **CURSOR** buttons ◀ or ▶ to highlight the **START** or **RESET** option.

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

Channel Manager	▶
Signal Meter	
Auto Channel Scan	▶
Channel List	

↕ Move   [SEL] Select

NOTE: 1. When a CableCARD is installed, Auto Channel Scan will not be available since channels will be fixed based on what was agreed upon by you and your cable operator.
2. If certain channels are poor or not possible in cable(1) mode, set cable source to cable(2) by using the CURSOR buttons ◀ or ▶.

OR

Channel Manager	
Auto Channel Scan	

Source   ◀   Air   ▶

Auto Channel Scan   [Start]   [Reset]

↕ Move   [SEL] Return

On-Screen Display
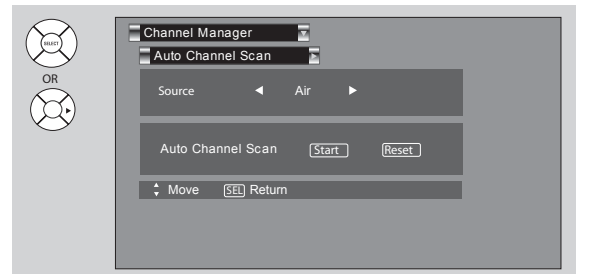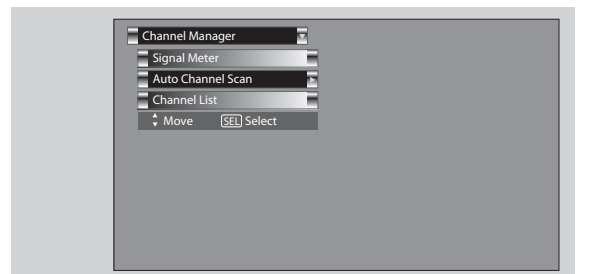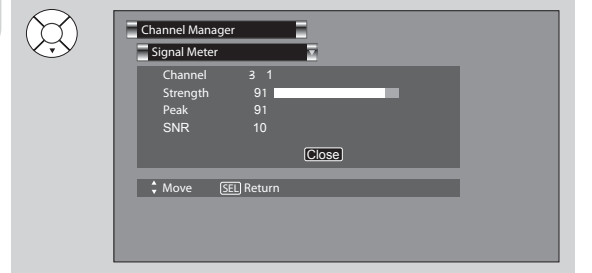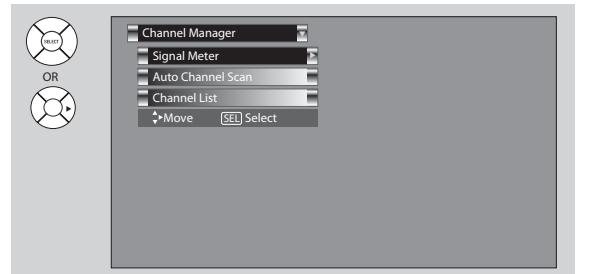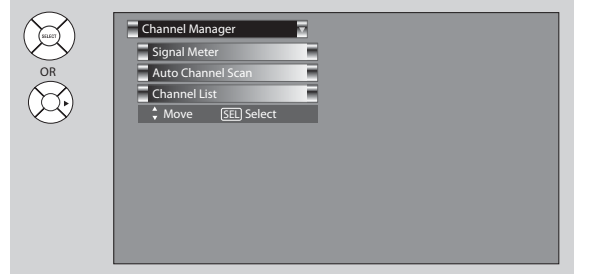
Channel Manager

Channel List

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

1. Use the **CURSOR PAD** to navigate the Channel List.

2. Press the **SELECT** button to select **ON** or **OFF** on the **SCAN** and **LOCK** columns.

3. To select **LOCK** column, input the access code. (Default access code: 0000)

4. Press the **CHANNEL WHEEL** button to set or remove the **FAVORITE** channel settings.

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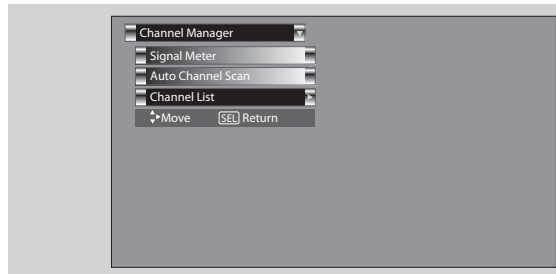
NOTE: 1. *When a CableCARD is installed, the Channel List will be dependent on channels agreed upon by you and your cable operator.*
   2. *The Channel List cannot be updated by only changing the cable source. Auto Channel Scan must be performed for the Channel List to be updated.*

Locks

Locks

This function will block out the picture and sound of the selected channel or video input.

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.

1. Use the **CURSOR PAD ▲**, **▼** or **CHANNEL WHEEL** buttons to highlight the desired function in the **LOCKS** menu.

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

Change Access Code

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

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

2. Enter a new four digit number.

3. Press **EXIT** to quit the menu.

Engage Lock

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

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

When **FRONT PANEL LOCK** is turned on, all buttons on the 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 55).

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 56).

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 57-58).

Use **ALTERNATE RATINGS (U.S.)** to block various types of movies and television pograms based on ratings systems used in U.S. that you feel may be inappropriate due to its content (see page 59).
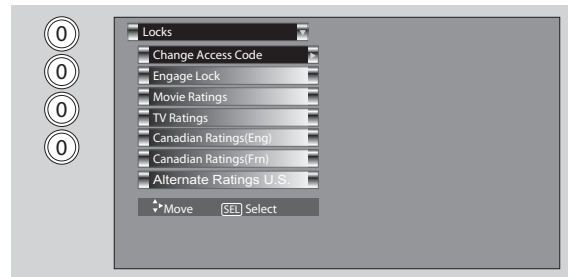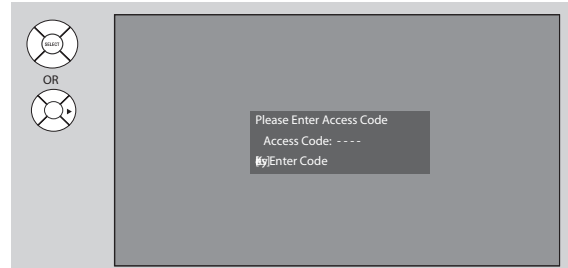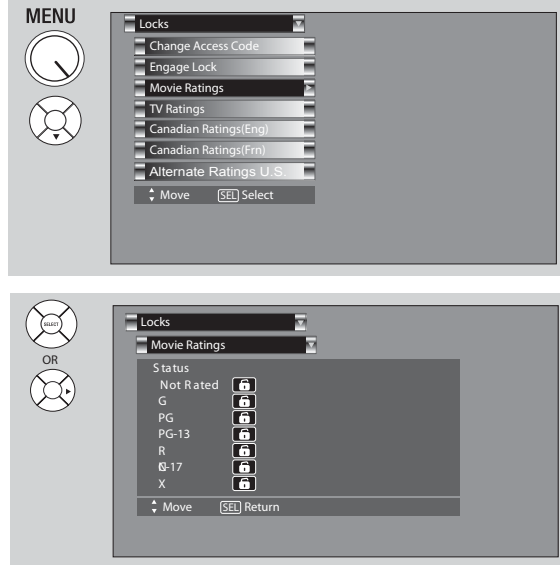
NOTE:
The ALTERNATE RATINGS (U.S.) option is available for Digital Channels only.

Menu (image)

MENU
Video
Audio
TV Guide On Screen
Channel Manager
Locks
Timers
Setup
Power Swivel
↕Move   [SEL] Select

Please Enter Access Code
Access Code: - - - -
[key] Enter Code

Locks
Change Access Code
Engage Lock
Movie Ratings
TV Ratings
Canadian Ratings(Eng)
Canadian Ratings(Frn)
Alternate Ratings U.S.
↕Move   [SEL] Select

On-Screen Display

Locks

Movie Ratings

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

1. Use the CURSOR PAD ▲, ▼ or **CHANNEL WHEEL** buttons to select the **MOVIE RATING** category that you want to block.

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

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

MENU

Locks
Change Access Code
Engage Lock
Movie Ratings
TV Ratings
Canadian Ratings(Eng)
Canadian Ratings(Frn)
Alternate Ratings U.S.
Move   [SEL] Select

OR

Locks
Movie Ratings
Status
Not Rated
G
PG
PG-13
R
NC-17
X
Move   [SEL] Return

Motion Picture Ratings Table

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

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

On-Screen Display

Locks

TV Ratings

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

1. Use the **CURSOR PAD ▲**, **▼** or **CHANNEL WHEEL** buttons to select the **TV RATING** category that you want to block.

2. Press **SELECT** to block the **TV RATING** that you have selected.

3. Press **EXIT** to quit the menu or select **TV RATING** to return to the previous menu.
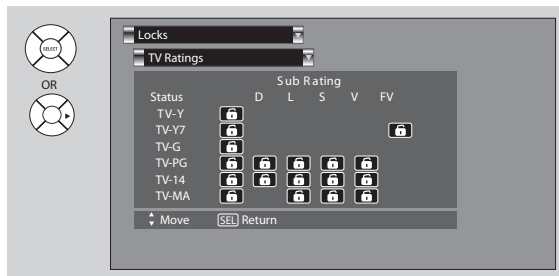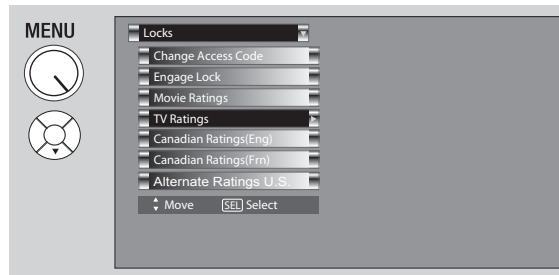
TV Parental Guide Ratings Table

TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	Sexually Suggestive Dialogue

NOTE: 1. *If you Block **TV-14D**, you will still permit **TV-MA** programs; If you block **TV-14V**, you will automatically block **TV-MAV** programs, but you will still permit **TV-MALS** programs. This means that the TV will block violence in **TV-14** and higher (**TV-MA**), but not language and sex.*
2. *TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.*
3. *If a CableCARD is installed, your cable operator may provide an Emergency Alert System (**EAS**) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Television will immediately tune to an **EAS** channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the **LOCKS** feature, you will not be able to tune to that channel.*

Locks

Canadian Ratings (Eng)

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

1. Use the **CURSOR PAD ▲**, **▼** or **CHANNEL WHEEL** buttons to select the **CANADIAN RATINGS (ENG)** category that you want to block.

2. Press **SELECT** to block the **CANADIAN RATINGS (ENG)** that you have selected. Once rating is selected, for example **C8+**, all movies and television programs rated **C8+** and higher (**G**, **PG**, **14+** and **18+**) will be blocked automatically.

3. Press **EXIT** to quit the menu or select **CANADIAN RATINGS (ENG)** to return to the previous menu.
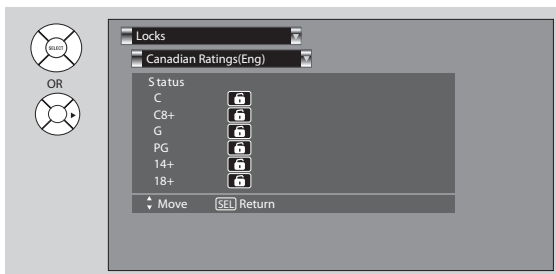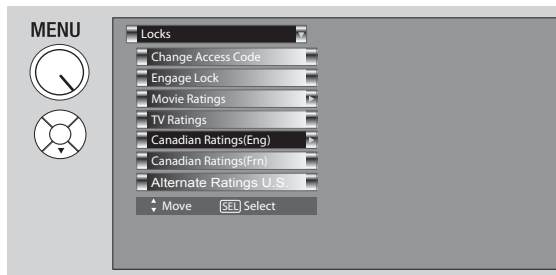
Canadian Ratings English Table

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

On-Screen Display

Locks

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

1. Use the **CURSOR PAD ▲, ▼** or **CHANNEL WHEEL
   buttons** to select the **CANADIAN RATINGS
   (FRN)** category that you want to block.

2. Press **SELECT** to block the **CANADIAN RATINGS
   (FRN)** that you have selected. Once rating is
   selected, for example **8 ANS+**, all movies and
   television programs rated **8 ANS+** and higher will
   be blocked automatically.

3. Press **EXIT** to quit the menu or select **CANADIAN
   RATINGS (FRN)** to return to the previous menu.

MENU

Locks
Change Access Code
Engage Lock
Movie Ratings
TV Ratings
Canadian Ratings(Eng)
Canadian Ratings(Frn)
Alternate Ratings U.S.
‡ Move   SEL Select

OR

Locks
Canadian Ratings(Frn)
Status
G
8 ans +
13 ans +
16 ans +
18 ans +
‡ Move   SEL Return
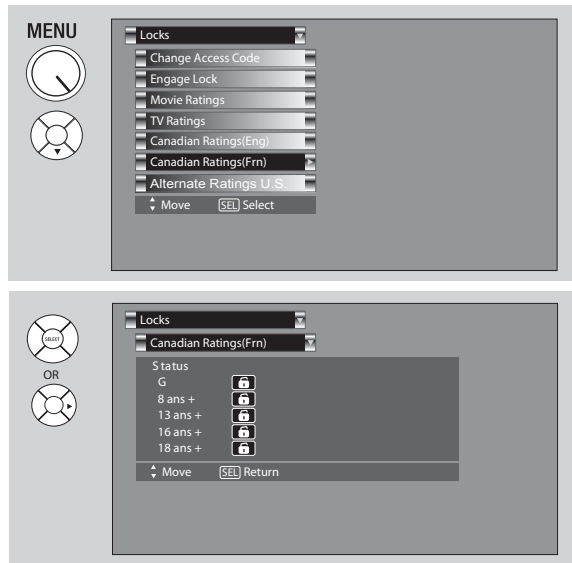
Canadian Ratings French Chart

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

On-Screen Display

58

Locks

Alternate Ratings U.S.

Use Alternate Ratings to prevent viewing of any movie or program that you feel may be inappropriate due to its content. This feature will be available only for ATSC Digital signal.

In case only NTSC analog signal is received this feature will be unavailable (grayed out).

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

Once the TV has received Alternate Ratings data , the Alternate Ratings US in the lock menu will become available.
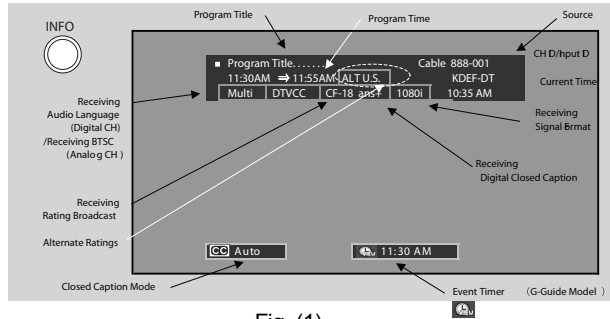
Fig. (1)

1. Use the CURSOR buttons ▼ or ▲ to select the **ALTERNATE RATING** category that you want to block.
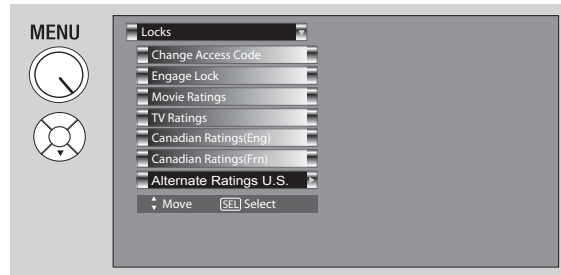
2. Press **SELECT** to block the **ALTERNATE RATING** that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17 and X) will be blocked.
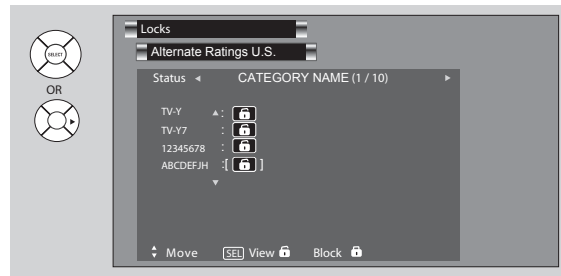
3.   Press EXIT to quit the menu or select **ALTERNATE RATINGS** to return to the previous menu.
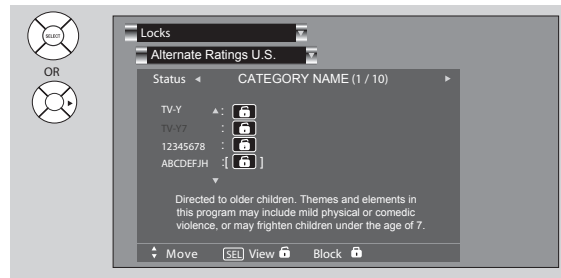
Alternate Ratings (Example Only) :

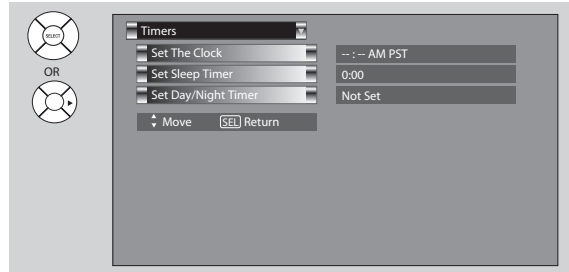|	
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17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

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

Timers

Timers

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

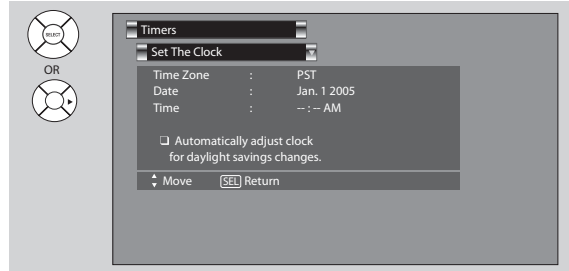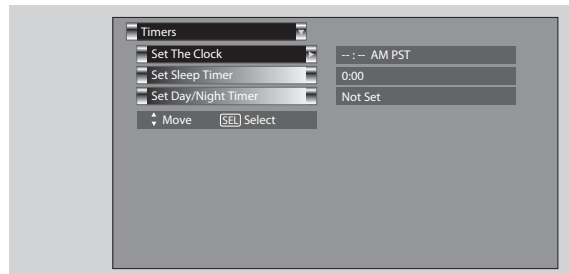1. Use the **CURSOR** buttons ▲ or ▼ or CHANNEL WHEEL to highlight the function to be adjusted.

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

MENU
Video
Audio
TV Guide On Screen
Channel Manager
Locks
Timers
Setup
Power Swivel
♦Mov e [SEL] Select

Timers	
Set The Clock	-- : -- AM PST
Set Sleep Timer	0:00
Set Day/Night Timer	Not Set
↕ Move [SEL] Return	

Set The Clock

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

1. Use the **CURSOR PAD ◄, ►, ▲, ▼** or **CHANNEL WHEEL** buttons to highlight the chosen **TIME ZONE** settings.

2. Press the **SELECT** button to select. If you observe daylight savings, use **CURSOR PAD** to highlight **DAYLIGHT SAVING CORRECTION** and press the **SELECT** button to select.

3. Use the **CURSOR PAD ◄, ►, ▲, ▼** or **CHANNEL WHEEL** buttons to highlight the **CURRENT TIME** hour and minute), **AM** or **PM**, **MONTH**, **DAY**, and **YEAR**.

4. Use the **CURSOR PAD ▲, ▼** to adjust settings.

5. Press the **SELECT** button to set the **TIME AND DATE**.

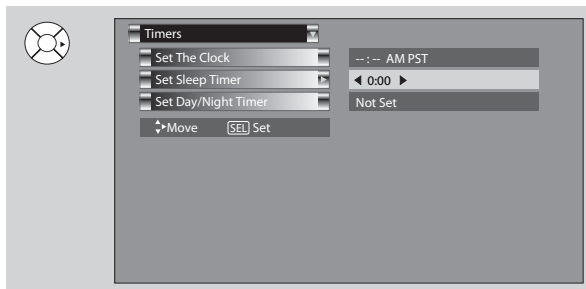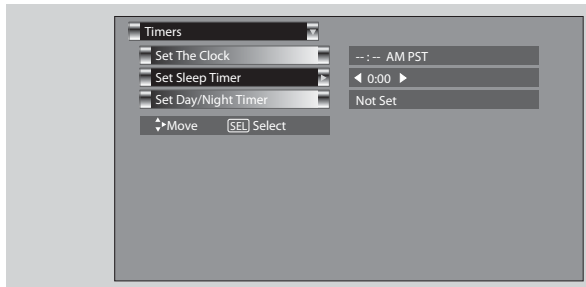6. Press **EXIT** to quit the menu or select **SET THE CLOCK** to return to the previous menu.

Timers	
Set The Clock	-- : -- AM PST
Set Sleep Timer	0:00
Set Day/Night Timer	Not Set
↕ Move [SEL] Select	

Timers
Set The Clock
Time Zone : PST
Date : Jan. 1 2005
Time : -- : -- AM
❏ Automatically adjust clock for daylight savings changes.
↕ Move [SEL] Return

NOTE: 1. When *AUTOMATICALLY ADJUST CLOCK FOR DAYLIGHT SAVING CHANGES* is checked ✔, the TV will automatically calculate the clock adjustment for Daylight Saving.
2. When the CableCARD is used, the TV will **SET THE CLOCK** automatically and also when the TV Guide On Screen system setup process is complete. In this case the Set The Clock feature will not be available (grayed out).
3. The TV counts electrical pulses for regulating the **TIMERS**. When the power cord is unplugged then plugged in quickly, the clock is stopped momentarily and the **TIME** indication will become slow.

On-Screen Display

Timers

Set Sleep Timer

Select this feature to set your **SLEEP TIMER** from 30 minutes to 3 hours (30 minute increments).
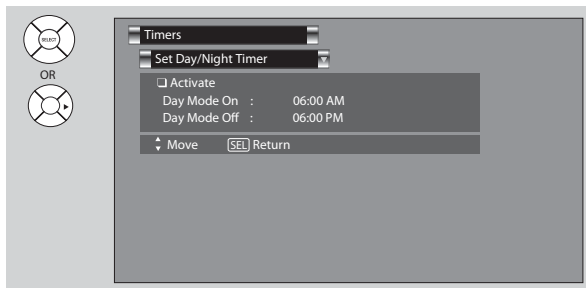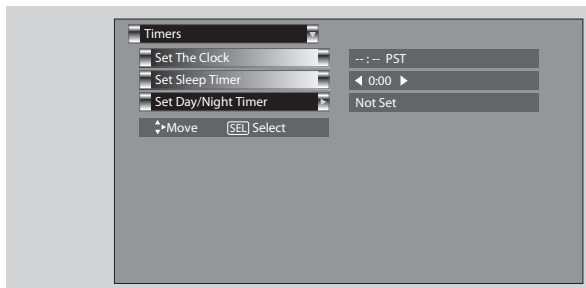
1. Press the **CURSOR PAD** ▶ repeatedly to set your Timer from **0:00**, **0:30**, **1:00**, **1:30**, **2:00**, **2:30** and **3:00**.

Timers	
Set The Clock	-- : -- AM PST
Set Sleep Timer	◀ 0:00 ▶
Set Day/Night Timer	Not Set
↕▶Move [SEL] Select	

Timers	
Set The Clock	-- : -- AM PST
Set Sleep Timer	◀ 0:00 ▶
Set Day/Night Timer	Not Set
↕▶Move [SEL] Set	

Set Day/Night Timer

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

1. Use the **CURSOR PADS** to highlight **SET DAY/NIGHT TIMER** settings.

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

3. Use the **CURSOR PADS** to select **DAY MODE ON** and to set it's **TIMER**.

4. Use the **CURSOR PADS** to select **DAY MODE OFF** and to set it's **TIMER**.

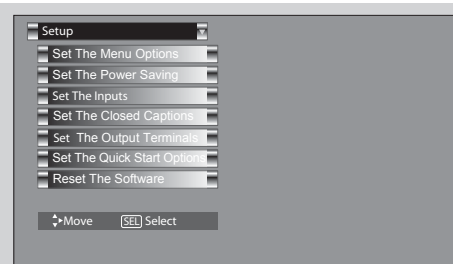5. Press **EXIT** to quit the menu or select **SET DAY/NIGHT TIMER** to return to the previous menu.

Timers	
Set The Clock	-- : -- PST
Set Sleep Timer	◀ 0:00 ▶
Set Day/Night Timer	Not Set
↕▶Move [SEL] Select	

OR

Timers	
Set Day/Night Timer	
❏ Activate	
Day Mode On :	06:00 AM
Day Mode Off :	06:00 PM
↕ Move [SEL] Return	

Setup

Setup

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

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

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

MENU

| Video |
| Audio |
| TV Guide On Screen |
| Channel Manager |
| Locks |
| Timers |
| Setup |
| Power Swivel |
| ⬍►Move   SEL Select |

OR

| Setup |
| Set The Menu Options |
| Set The Power Saving |
| Set The Inputs |
| Set The Closed Captions |
| Set The Output Terminals |
| Set The Quick Start Options |
| Reset The Software |
| ⬍►Move   SEL Select |

Set The Menu Options
Setup the Language and background of the Menu OSD.

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

1. Use the **CURSOR PAD** ◄ or ► to select the language of your choice.

2. Press **EXIT** to quit menu or select **SET THE MENU OPTIONS** to return to previous menu.

MENU

| Video |
| Audio |
| TV Guide On Screen |
| Channel Manager |
| Locks |
| Timers |
| Setup |
| Power Swivel |
| ⬍►Move   SEL Select |

OR

| Setup |
| Set The Menu Options |
| Set The Power Saving |
| Set The Inputs |
| Set The Closed Captions |
| Set The Output Terminals |
| Set The Quick Start Options |
| Reset The Software |
| ⬍►Move   SEL Select |

OR

| Setup |
| Set The Menu Options |
| Set The Language   : ◄   English ► |
| Set The Menu Background : ◄   Shaded ► |
| ⬍ Move   SEL Return |
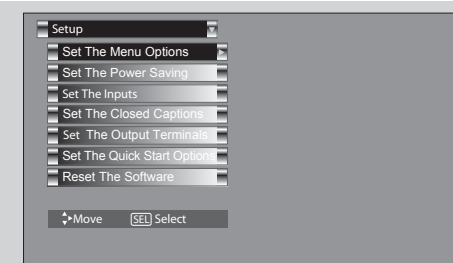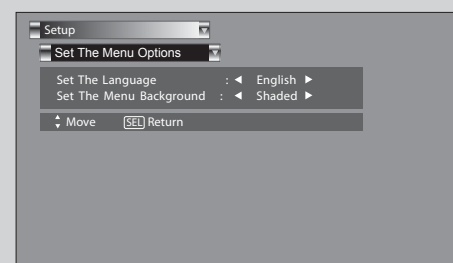
Setup

Set the Menu Background
This function allows you to choose from two menu backgrounds.

1. Use the **CURSOR PAD ▲** or **▼** to highlight **SET THE MENU BACKGROUND (SHADED OR SOLID)** of your choice. Use the CURSOR PAD **◄** or **►** to select shaded or solid.

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

3. Press **EXIT** to quit menu or select **MENU PREFERENCE** to return to previous menu.

```
┌─ Setup ───────────────┐
│  Menu Preference       │
│                        │
│  Set The Language    : ◄ English ► │
│  Set The Menu Background : ◄ Shaded ► │
│  ‡ Move   SEL Return   │
└────────────────────────┘
```
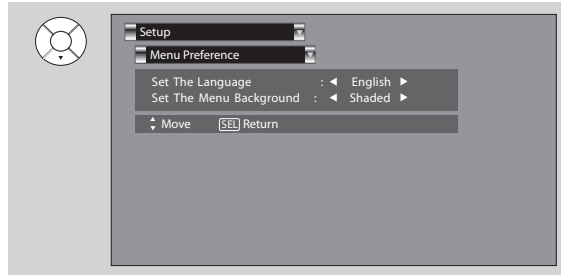
Set The Power Saving
This features help to increase the Lamp life.

Image Power
Use this feature to have the TV save energy by changing the back light level in three modes: Max,Med and Min.

1. Press the **CURSOR** buttons **◄** or **►** to select the modes Max, Med or Min.

Automatic Power Saving
Use this feature to have the TV turned OFF automatically when a video signal is not detected for about 12 seconds.

1. Press the **CURSOR** buttons **◄** or **►** to highlight Yes or No.

```
OR
┌─ Setup ───────────────┐
│  Set The Menu Options   │
│  Set The Power Saving   │
│  Set The Inputs         │
│  Set The Closed Captions│
│  Set The Output Terminals│
│  CableCARD Information  │
│  Set The Quick Start Options│
│  Reset The Software     │
│  ‡ Move   SEL Select    │
└────────────────────────┘
```

```
┌─ Setup ───────────────┐
│  Set The Power Saving   │
│                        │
│  Image Power   : ◄ Max ► │
│                        │
│  Automatic Power Saving  │
│       ○ Yes   ◉ No      │
│  ‡ Move   SEL Return    │
└────────────────────────┘
```

On-Screen Display
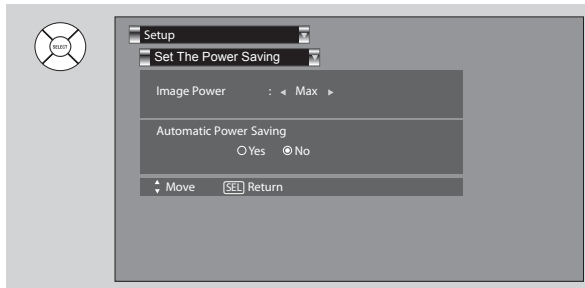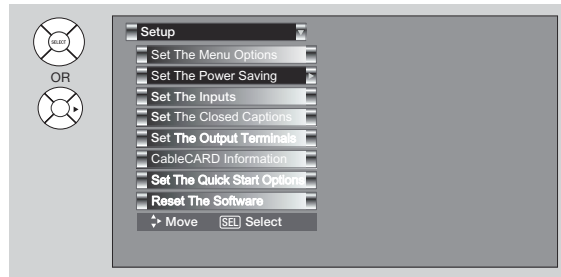
NOTE: *Your new HDTV has a built-in Automatic Power Saving feature that shuts Off the TV if a video signal is not detected within 12 seconds. The default setting for this feature is ON (Yes). The Automatic Power Saving feature needs to be set to OFF (No) before any CableCARD set up can be performed.*
INSTRUCTIONS:
1. *Access the Menu OSD by press the MENU button of the remote control.*
2. *Navigate the menu to access SETUP, then SET THE POWER SAVING. SET AUTO POWER SAVING OFF (No) using the Cursor and the SELECT buttons of the remote control.*
3. *Use the Cursor buttons to highlight "No" then press the SELECT button to set this feature to Off.*
4. *After CableCARD set up is completed, set the Auto Power Saving feature to ON (Yes).*

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

1. Press the **CURSOR PAD** ▲ or ▼ to highlight the video inputs.

2. Press the **CURSOR PAD** ◄ or ► to select your choices.

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

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

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

   - **Auto**
     When **AUTO** is selected, the TV will turn on and switch to INPUT 4 automatically, when the INPUT 4 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player or DVD player.

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

   - **Off**
     Select **OFF** to disable this function.

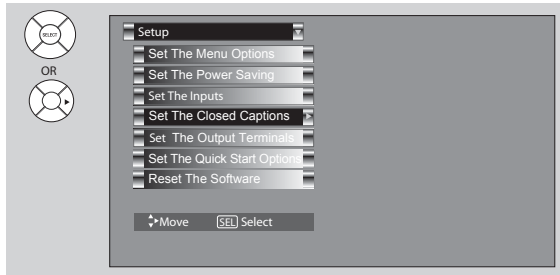2. Press **EXIT** to quit menu or select **SET THE INPUTS** to return to previous menu.

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

On-Screen Display

Setup
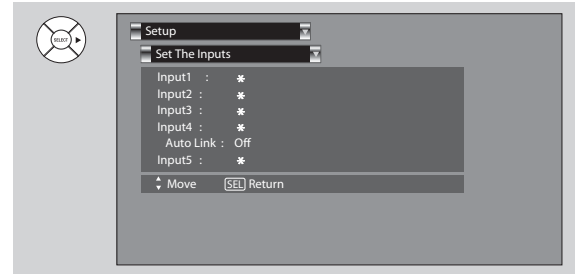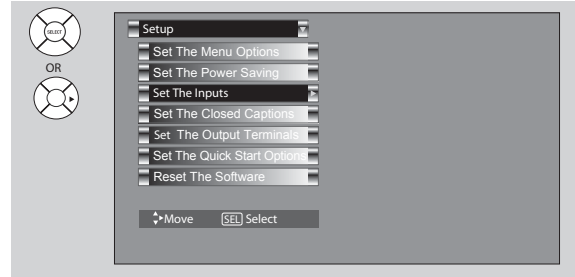
Set The Closed Captions

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

1. Use the **CURSOR PAD** ◄, ►, ▲ and ▼ to highlight and select the function to change.

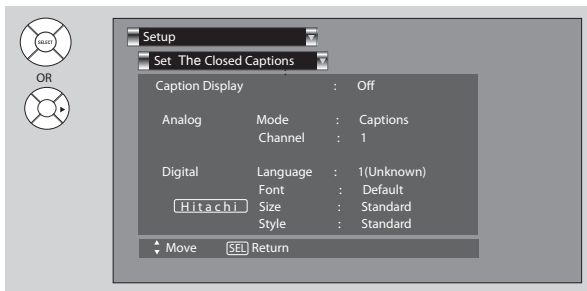2. Press **EXIT** to quit menu or select **SET THE CLOSED CAPTIONS** to return to the previous menu.

Setup
Set The Menu Options
Set The Power Saving
Set The Inputs
Set The Closed Captions
Set The Output Terminals
Set The Quick Start Options
Reset The Software

‡►Move SEL Select

Caption Display:

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

Analog Captions:

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

Setup			
Set The Closed Captions			
Caption Display		:	Off
Analog	Mode	:	Captions
	Channel	:	1
Digital	Language	:	1(Unknown)
	Font	:	Default
Hitachi	Size	:	Standard
	Style	:	Standard

‡ Move SEL Return

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.
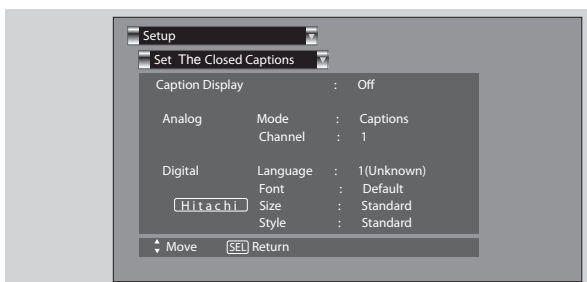
Channel:

    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).

Digital Captions

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

1. Use the **CURSOR PAD** ◄, ►, ▲ or ▼ to highlight and select desired **DIGITAL CAPTIONS** feature.

2. Press **EXIT** to quit menu or select **SET CLOSED CAPTION** to return to the previous menu.

Setup			
Set The Closed Captions			
Caption Display		:	Off
Analog	Mode	:	Captions
	Channel	:	1
Digital	Language	:	1(Unknown)
	Font	:	Default
Hitachi	Size	:	Standard
	Style	:	Standard

‡ Move SEL Return

NOTE: *1. Some types of digital closed captions will not work with this TV.*
        2. Caption Display will not work when viewing a 480p, 720p, or 1080i input via the
           COMPONENT: Y-PʙPʀ inputs.
        3. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
        4. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed
           Caption is available when Closed Caption icon is displayed on screen.

Set The Output Terminals

This feature will select the source of the Output Terminal.

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

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

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

- Select **AUDIO OUT VARIABLE** to have Audio volume that can be controlled by the LCD TV Volume Up/Down.

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

IR Out :

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

- Select **IR OUT EXTENDED LENGTH** to process remote control signal to IR Out Terminal and reach 5m (max) through provided IR Blaster CABLE.

NOTE : Extended Length funtion is not available for some kinds of external components. For those components use Normal Length funtion, or point the remote control directly at the external components.

1. Use **CURSOR PAD ▲** or **▼** or CHANNEL WHEEL to highlight the function to change.
2. Use the **CURSOR PAD ◄** or **►** to select the function.
3. Press **EXIT** to quit menu or select **SET THE OUTPUT TERMINALS** to return to previous menu.

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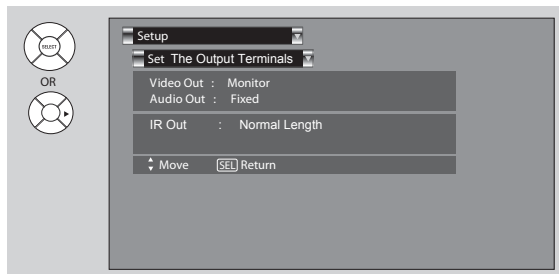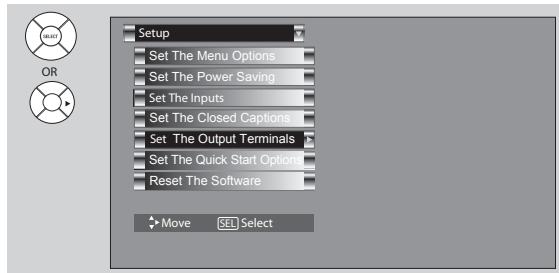
MONITOR: Available Monitor Out Signals

Input Mode				Monitor Out			
				S-Video	Video	L/R	HiFi
ANT (Air or Cable)	Digital Channel	No Macrovision	S-Video	YES	YES	YES	YES
		Macrovision	S-Video	-	-	-	YES
	Analog Channel		Video	-	YES	YES	YES
Input 1	HDMI_1			-	-	-	YES
	S-Video_1			YES	YES	YES	YES
	Video_1			-	YES	YES	YES
Input 2	HDMI_2			-	-	-	YES
	S-Video_2			YES	YES	YES	YES
	Video_2			-	YES	YES	YES
Input 3	Y-PbPr_3			-	-	-	YES
	Video_3			-	YES	YES	YES
Input4	Y-PbPr_4			-	-	-	YES
	Video_4			-	YES	YES	YES
Input 5	HDMI_5			-	-	-	YES
	Y-PbPr_5			-	-	-	YES
	Video_5			-	YES	YES	YES

TV TUNER OUT: Available Monitor Out Signals

Input Mode				Monitor Out (TV Tuner Out)			
				S-Video	Video	L/R	HiFi
ANT (Air or Cable)	Digital Channel	No Macrovision	S-Video	YES ANT	YES ANT	YES ANT	YES ANT
		Macrovision	S-Video	- ANT	- ANT	- ANT	YES ANT
	Analog Channel		Video	- ANT	YES ANT	YES ANT	YES ANT
Input 1	HDMI_1		Y-PbPr	YES ANT digital only	YES ANT	YES ANT	YES ANT
	S-Video_1						
	Video_1						
Input 2	HDMI_2		Y-PbPr				
	S-Video_2						
	Video_2						
Input 3	Y-PbPr_3						
	Video_3						
Input4	Y-PbPr_4						
	Video_4						
Input 5	HDMI_5		Y-PbPr				
	Y- PbPr_5						
	Video_5						

CableCARD Information

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

Follow the instructions below to access the CableCARD Information menu.

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

2. Use the **CURSOR PAD ▼** to highlight **SETUP** in the Main Menu and press the **SELECT** button.

3. Use the **CURSOR PAD ▼** to highlight **CableCARD Information** and press the **SELECT** button.

4. To view the CableCARD ID and Host ID, use the **CURSOR PAD ▼** to highlight **CableCARD Info** and press the **SELECT** button.
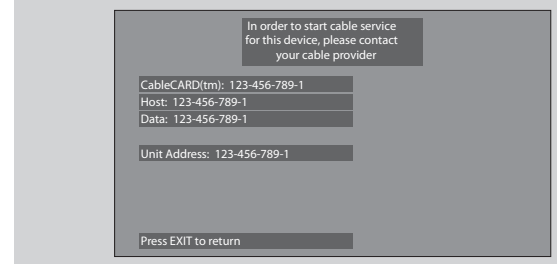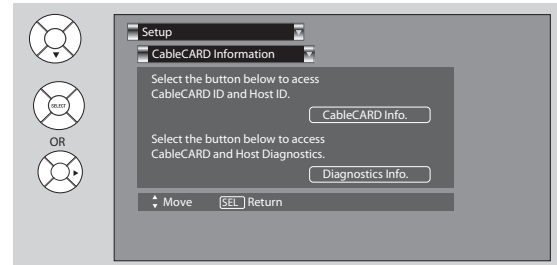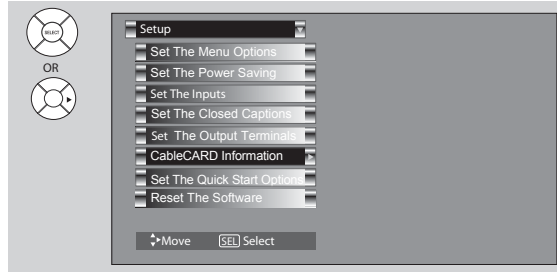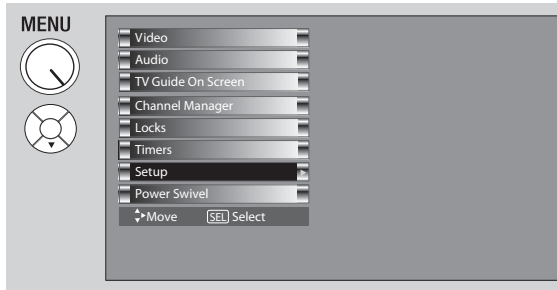
NOTE: *The **Diagnostics Info.** window is for Service use only.*

THINGS TO CHECK WHEN USING THE CableCARD / CableCARD Services

1. Check that the CableCARD is properly inserted in the CableCARD slot.

2. Remove the CableCARD by pulling the CableCARD straight out.

3. Visually inspect the CableCARD to ensure all pin-holes are in good condition, with none blocked or damaged.

4. Make sure the CableCARD is re-inserted in the correct direction, then slowly push until it is fully seated in the slot.

5. When the CableCARD is installed, note all screen messages that appear ("CableCARD Installed", "Acquiring Data", "CableCARD is not Installed"). If the "CableCARD Installed" message does not appear when card is installed, check the TV's card slot and CableCARD pins for obstructions or damage.

6. If problems still remain, please contact your Cable Service Provider.

NOTES:

1. When a CableCARD is installed, Auto Channel scan will not be needed because the channel list is automatically loaded to the TV's channel memory.

*2. The TV will take several **minutes** to detect and recognize the presence of the CableCARD. This process must be completed before any CableCARD information or Channel listings is accessed.*

MENU

| Video |
| Audio |
| TV Guide On Screen |
| Channel Manager |
| Locks |
| Timers |
| Setup |
| Power Swivel |
| ↕▸Move   SEL Select |

OR

| Setup |
| Set The Menu Options |
| Set The Power Saving |
| Set The Inputs |
| Set The Closed Captions |
| Set The Output Terminals |
| CableCARD Information |
| Set The Quick Start Options |
| Reset The Software |
| ↕▸Move   SEL Select |

| Setup |
| CableCARD Information |
| Select the button below to acess CableCARD ID and Host ID. |
| CableCARD Info. |
| Select the button below to access CableCARD and Host Diagnostics. |
| Diagnostics Info. |
| ↕ Move   SEL Return |

In order to start cable service for this device, please contact your cable provider

CableCARD(tm): 123-456-789-1
Host: 123-456-789-1
Data: 123-456-789-1

Unit Address: 123-456-789-1

Press EXIT to return

On-Screen Display

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Set The Quick Start Options

This feature will select **QUICK START UP** options. Set this feature to **ON** to have the TV tune channels (both Analog and Digital) quickly when first turning the TV on. Set this feature to **OFF** to save electricity. Selecting **ON** for the **QUICK START UP** feature will activate the TV tuners circuits when the TV is in "standby mode" which is commonly referred to as "off". This will allow you to quickly tune to channels when first turning the TV on. Digital signals often change and this feature will monitor any changes and prepare the television to quickly present a picture. A small amount of electricity is used to continually monitor signals when this feature is selected.
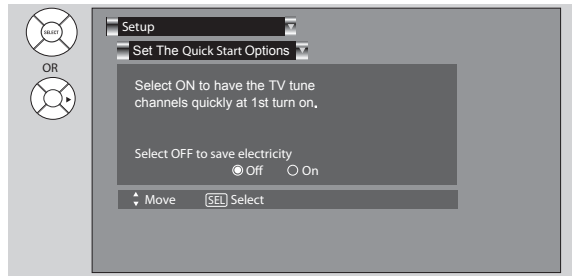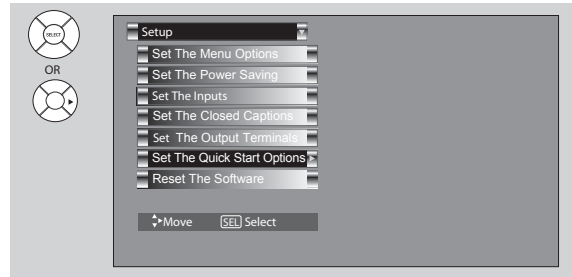
NOTE: *When setting the Quick Start option to ON the option of Reset TV Settings will not operate.*

On-Screen Display

Reset The Software

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

1. Insert **MMC CARD**

2. Press the **CURSOR PAD** ▲ or ▼ to highlight **UPGRADE NOW**.

3. Press the **SELECT** button to select and start upgrading.

4. Unplug the AC power cord when the UPGRADE is complete.

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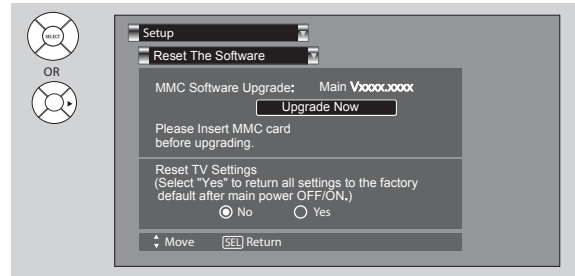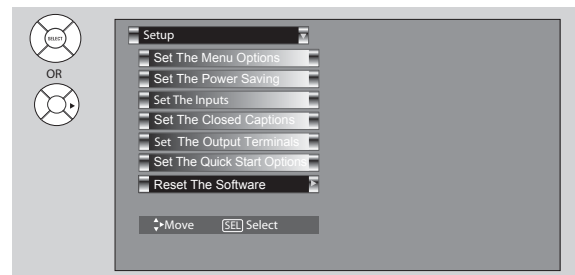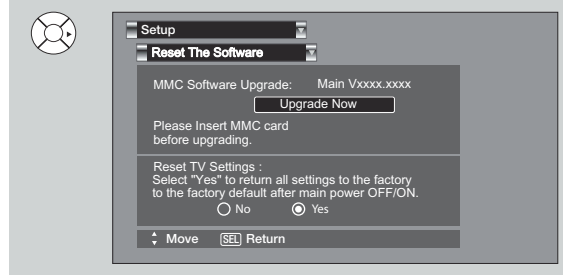
Setup

Reset TV Settings

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

1. Use CURSOR PAD ▲, ▼ to highlight functions.

2. Press the SELECT button or CURSOR PAD ▶ to select Reset The Software.

3. Use the CURSOR PAD ▼ to access the Reset TV Settings option.

4. Select the "YES" option to Reset ALL the TV Settings during the next main power on/off.

Setup
Reset The Software
MMC Software Upgrade: Main Vxxxx.xxxx
Upgrade Now
Please Insert MMC card before upgrading.
Reset TV Settings : Select "Yes" to return all settings to the factory to the factory default after main power OFF/ON. ○ No   ⊙ Yes
↕ Move   [SEL] Return

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

Power Swivel

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

MENU

Video
Audio
TV Guide On Screen
Channel Manager
Locks
Timers
Setup
Power Swivel
↕ Move   [SEL] Select

1. Use the **CURSOR PAD ◀** or **▶** to unlock or lock the Power Swivel.
    Exit the OSD menu system before controlling the motorized stand.

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

3. Press the **CURSOR PAD ◀** to rotate the TV to the left.

4. Release the **CURSOR PAD** to stop rotation.

Power Swivel	◀ ▶
◀▶	

NOTE: 1.   The Power Swivel has a maximum turning radius of 30° (left and right).
2.   Do not place any objects in the path of the monitor when using the power swivel feature.
3.   Before using the power swivel, please make sure that the path of the monitor is clear of any fingers, hands or any other body parts to avoid causing injury.
4.   When the Picture-In-Picture (PIP) or Freeze mode is ON, the Power Swivel is disabled.

On-Screen Display

DO

Dust the screen and cabinet with a soft cloth.

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

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

Remove the plug 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 damage to the precision parts.

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

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

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

TROUBLESHOOTING

Your **HITACHI** LCD Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.
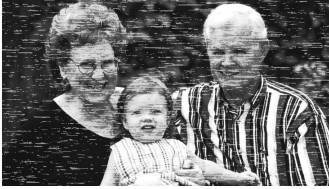
IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

1. Press the **POWER SWITCH (ON/OFF SWITCH)** once.
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** LCD Television.

SYMPTOMS	Be sure external connection is correct	Be sure power cord is plugged in	Be sure TV is switched "ON"	Try another channel (station trouble)	Check antenna connections (back of TV)	Check outside antenna	Check for broken lead-in wire	Check for local interference	Adjust Contrast control	Adjust Brightness control	Adjust Color control	Adjust Tint control	Adjust Volume control
No Picture, no sound	●	●	●	●	●	●	●						
Sound OK, picture poor	●			●	●	●	●	●	●	●			
Picture OK, sound poor	●			●	●	●	●						●
Picture blurred	●			●	●	●	●	●					
Lines or streaks in picture				●	●	●	●	●					
Poor reception on some channels				●	●	●	●	●					
Picture rolls vertically				●				●					
No color	●			●	●	●	●				●		
Poor color	●			●	●	●	●				●	●	

CHECK THESE ITEMS AND TRY THESE ADJUSTMENTS

Reception Problems

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

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

SNOW:
If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.
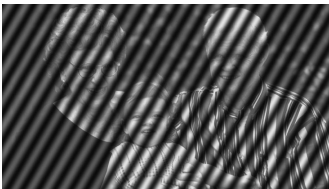
RADIO FREQUENCY INTERFERENCE:
• RADIO FREQUENCY INTERFERENCE:
The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.
• PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS
This television has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this television causes a problem to Radio receivers, then take the following steps:
- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.
You can check if this television influences Radio receivers by turning off all other equipment other than the television. If you find a problem receiving Radio when using the television, check the instructions mentioned above.

BLOCK NOISE (DIGITAL INPUT):
Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and weak signals.
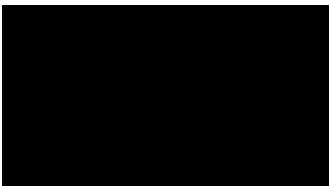
BLACK SCREEN:
When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

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

Useful Information

Troubleshooting

1. LCD Television Troubleshooting

IMPORTANT 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 receiving 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.

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

My Guide listings disappeared after a power failure.
You should begin to receive listings again within 24 hours.

Some channel numbers in the Guide are incorrect.
You can correct them using Change Channel Display under Setup.

I have not received any Guide show listings.
Listings usually begin to appear within 24 hours after a successful Setup. It may take up to 5 days to receive a full 8 days of program listings.
- Check the connections between the TV, cable, antenna, and the IR cable if using a cable box.
- Verify Setup information under Change System Settings.
- Make sure the cable box is On, if applicable.
- Review Screen 4 and Screen 5 in the Initial Guide Setup section.

A show I set to Record did not occur.
- Make sure your recorder is turned Off before the recording begins.
- Make sure there is a tape or DVD in the VCR or DVD Recorder.
- Check the Schedule menu and verify that the show is listed before recording begins.
- Check the placement of the IR cable in front of your recorder.

The TV did not tune to a show I scheduled with the Reminder feature.
- Check the Schedule menu and verify that the show is listed.
- If you have a cable box, check the IR cable.

I set a show to Auto-Tune and it did not.
- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
  - Press the Menu button on the remote.
  - Use the down arrow to highlight Edit Reminder, and press SELECT.
  - Verify the Auto-Tune option reads Yes.
- The TV must be On at the scheduled time for Auto-Tune.

I set a show with the Power On TV option and it did not.
- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
  - Press the Menu button on the remote.
  - Use the down arrow to highlight Edit Reminder, and press SELECT.
  - Verify the Power On TV option reads Yes.
- The TV must be Off at the scheduled time for Power On TV.

TV Guide On-Screen™ Frequently asked quiestions continued

If I add a recorder or change my cable service, how do I change my Setup information?
1) Highlight the Setup Service in the Guide.
2) Use the down arrow to select Change System Settings.
3) Follow the on-screen instructions.

A show entry in the Guide reads "No Listing." What does that mean?
Show information for that entry was not available during the last Guide information update (download). Show information is updated on a daily basis.

When I entered the Guide, I was asked to choose from more than one channel lineup. What should I do?
Select the lineup that most closely matches the one for your area. If after you choose the lineup, you want to make changes to:
1) Highlight the Setup Service in the Guide.
2) Use the down arrow to select Change Channel Display.
3) Follow the on-screen instructions.

What do the color for shows in the Listings and Search screens indicate?
Green=Sports; Dark Blue=Children's; Purple=Movies; Teal=Other Show

If I have a power outage, do I need to complete Setup again?
No; Setup information is stored in TV Guide On Screen.

Is Help available in the Guide? If so, how do I find it?
Yes. Highlight any of the 5 main Services (i.e., Listings, Schedule, Recordings, Setup, Search) and press the Info Button. An Expanded Info Box displays additional help information; press Info again to close the box.

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

After some show titles, I have noticed from 1 to 4 stars (****). What does that mean?
These stars are a broadcast-industry rating system used to inform you of a show's quality. The more stars, the better the rating.

I have seen the word "download" in reference to the Guide. What does that mean?
A download sends channel and show information to a TV Guide On Screen device. A download happens at least once a day.

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

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

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

TV GUIDE

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The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895; 6,418,556; 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Gemstar-TV Guide International Inc. and/or its related affiliates are not in any way liable for the accuracy or availability of the program schedule information or other data in the TV Guide On Screen system and cannot guarantee service availability in your area. In no event shall Gemstar-TV Guide International, Inc. and/or its related affiliates be liable for any damages in connection with the accuracy or availability of the program schedule information or other data in the TV Guide On Screen system.

Useful Information

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.

FCC Information

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

Modifications

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

Cables

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

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

Note

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

INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

Useful Information

Features and Specifications

Features:

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

Video:

- 1366 x 768 Display Resolution
- IPS (In-Plane Switching Technology)
- Wide Viewing Angle: More than 160°
- Color Temperature Presets: High, Standard, Medium and B/W .
- Multiple Screen Fill Modes
  (4:3 Standard/4:3 Expanded/4:3 Zoom 1/
  4:3 Zoom 2/16:9 Standard1/Standard2/16:9 Zoom)[1]
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes :Day(Normal), Day(Dynamic) and Night

Inputs:

- Power Input . . . . .AC 120V, 60Hz
- Power Consumption
  - Refer to rear panel at the back of the LCD Television Receiver
- Antenna input impedance . . . . .75 Ohm
- Channel coverage . . . . 191ch.
  VHF-Band . . . . 2 ~ 13
  UHF-Band . . . . 14 ~ 69
  CATV Mid Band . . . . A-5 ~ A-1
  . . . . A-I
  Super Band . . . . J-W
  Hyper Band . . . . W+1 - W+28
  Ultra Band . . . . W+29 - W+94
- Television System . . . . NTSC Standard
                    ATSC Standard (8 VSB, 64-QAM, 256-QAM)
- Video . . . . 1.0Vp-p, 75 Ohm
- S-Video
  Luminance (Y) . . . . 1.0Vp-p, 75 Ohm
  Chrominance (C) . . . . 0.286Vp-p, 75 Ohm
- Component Video
  Luminance (Y) . . . . 1.0Vp-p, 75 Ohm
  Chrominance (P_B/P_R) . . . . 0.7Vp-p, 75 Ohm
- Audio input Impedance . . . . 270k Ohm
- Average input level 470mVrms
- HDMI . . . . (19 PIN)

Outputs:

- Video 1.0Vp-p. 75 Ohm
- Audio . . . . .470mVrms, 1k Ohm
- Optical Out (Digital Audio) . . . . . .1 Optical Connector

Audio:

- MTS Stereo/SAP
- Bass Boost
- Surround Sound
- 20W
- Soft Mute (50%)

Supplied Accessories:

- Remote Control
- Batteries (AA)
- 6' AC Power cord cable
- Table Top Stand
- IR Blaster Cables
- Power Swivel Cable
- Ferrite Core

Optional Accessories:

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

INPUTS/OUTPUTS

- Wideband Component Y, Pb,Pr 3
- Composite Video 5
- S-Video 2
- Antenna (RF) Inputs 1
- Audio Output 1
- Monitor Output 1
- Optical Output 1
- IR Blaster 2
- G-LINK 1
- CableCARD Slot 1
- Upgrade Card Slot 1
- Swivel Output 1

- HDMI 3
- Photo Input 1

SPECIFICATIONS

- Pixel Pitch . . . . 0.60(horiz.) x 0.60(vert.) mm.

- FCC class: . . . . B for Consumer Use
- Power Requirements:. 108-132VAC, 60Hz

[1] Screen mode availability varies by input format

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

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

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37 Inch Models (Includes Table Top Stand) Weight (lbs./kg): 63.9/29
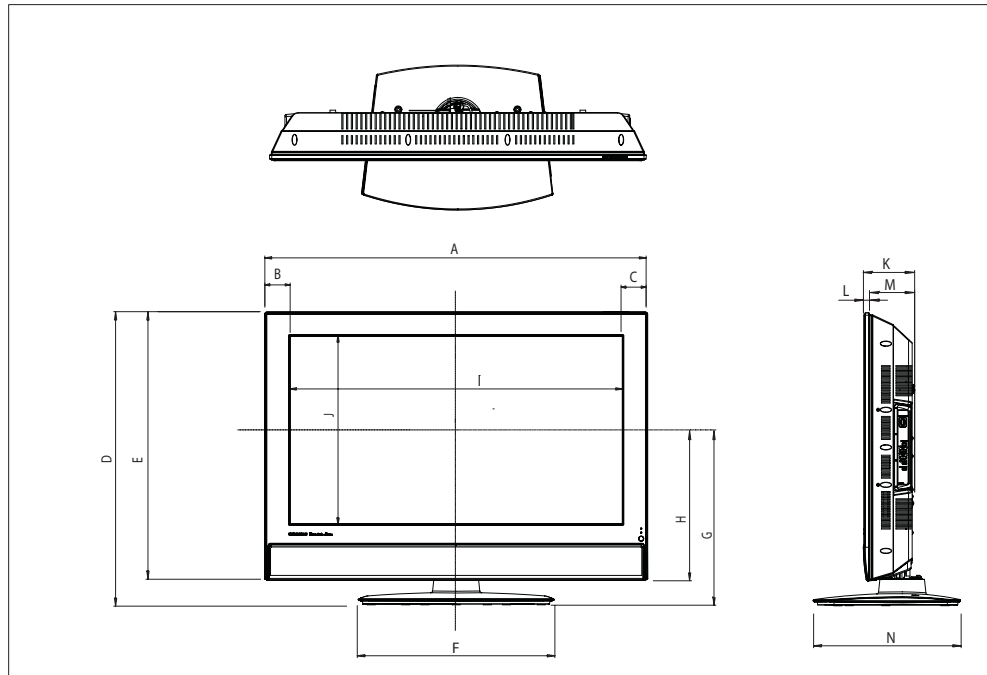
Units	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Inches	37-3/8	2-1/2	2-1/2	28-9/16	26-3/16	19-1/8	16-11/16	14-1/4	32-7/16	18-5/16	4-3/4	3/4	3-15/16	14-3/8
MM	949.4	62.9	62.9	725.7	664.3	485.3	424.1.	362.7	823.6	464.8	120.9	20.2	100.7	365

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

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HOME ELECTRONICS DIVISION

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

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

HITACHI CANADA, LTD.
DIGITAL MEDIA DIVISION

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

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

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1-2495 Meadowpine Blvd.
Mississauga, Ontario L5N 6C3

Useful Information

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❶ Look on the right side of the TV.

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

❸ HITACHI Service Department will require this information in order to give you the proper support regarding your questions.
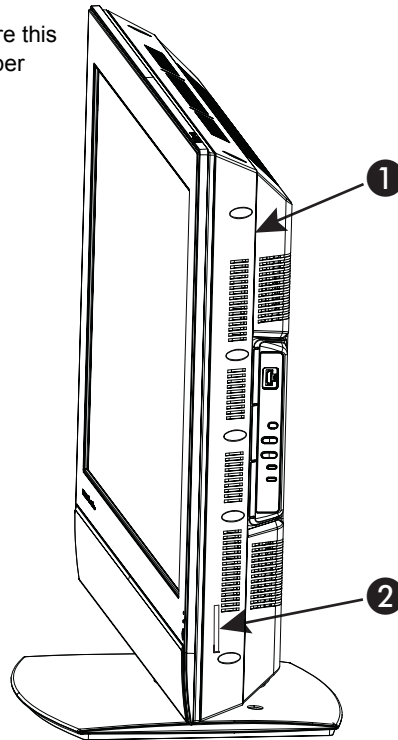
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Ty Coon, President of Vice

That's all there is to it!

Appendix A:

Picture Format for Each Input Source

Aspect Specifications

Yes: Selectable   No: Un-Selectable

Input Signal			Auto Aspect	Aspect Video ID	Aspect						
					16:9 Standard 1	16:9 Standard 2	16:9 Zoom	4:3 Standard	4:3 Expanded	4:3 Zoom 1	4:3 Zoom 2
ANT Analog	Video	NTSC	No	4x3	Yes	No	Yes	Yes	Yes	Yes	Yes
ANT Digital	YC_BC_R	480p	No	16x9	Yes	No	Yes	No	Yes	No	No
		480i	No	4x3	No	No	No	Yes	Yes	Yes	Yes
	YP_BP_R	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
Input 1	HDMI	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No Info	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Video S-Video	NTSC	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Input 2	HDMI	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No Info	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	Video S-Video	NTSC	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Input 3	YP_BP_R	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							

Aspect Specifications

(Continuation)

Yes : Selectable   No : Un - Selectable

Input	Signal		Auto Aspect	Aspect Video ID	16:9 Standard 1	16:9 Standard 2	16:9 Zoom	4:3 Standard	4:3 Expanded	4:3 Zoom 1	4:3 Zoom 2
Input 4	YP$_B$P$_R$	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							
Input 5	HDMI	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3		No	No	Yes	Yes Initial	Yes	Yes
				No Info	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF		Yes	No	Yes	Yes	Yes	Yes	Yes
	YP$_B$P$_R$	1080i/720p	No	16x9	Yes	Yes	Yes	No	Yes	No	No
		480p 480i	Auto ON	16x9	Yes Initial	No	Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No	No	Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							
		No Signal	No	No							
	Video	NTSC	Auto ON	16x9	Yes Initial		Yes	No	No	No	No
				Letter	No	No	No	Yes	Yes	Yes Initial	Yes
				4x3	No	No		Yes	Yes Initial	Yes	Yes
				No ID	Yes	No	Yes	Yes	Yes	Yes	Yes
			Auto OFF	No							

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