



PLASMA TV OWNER'S MANUAL

MODELS: DU-50PY10
DU-60PY10



Please read this manual carefully and completely before operating your TV.

Retain this manual for future reference.

Record model number and serial number of the TV in the spaces provided below.

See the label attached on the back cover and relate this information to your dealer if you require service.

Model Number :

Serial Number :

Warning



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER 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 sufficient magnitude to constitute a risk of electric shock to persons.



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

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 the cable entry as practical.

REGULATORY INFORMATION:

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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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 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/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this product's compliance is:

LG Electronics U.S.A., Inc

1000 Sylvan Avenue, Englewood Cliffs, NJ 07632

1-201-816-2000

<http://www.lgusa.com>

TV Guide On Screen Notices for U.S.A.

In the United States, the TV Guide On Screen system and other related marks are registered marks of Gemstar-TV Guide On Screen system International, Inc. and/or one of its affiliates. In Canada, TV Guide On Screen system is a registered mark of Transcontinental Inc., and is used under license by Gemstar-TV Guide On Screen system International, Inc.

The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide On Screen system International, Inc. and/or one of its affiliates.

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.

Use of the CableCARD™ TradeMark.

“CableCARD™ is a trademark of Cable Television Laboratories, Inc.”

Digital Cable Compatibility

This digital television is capable of receiving basic analog, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced interactive digital cable services such as video-on-demand, cable operator enhanced program the TV Guide On Screen system, and data enhanced television service may require the use of a set top box. For more information contact your local cable operator.

Safety Instructions

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this manual can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories, Carts, and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



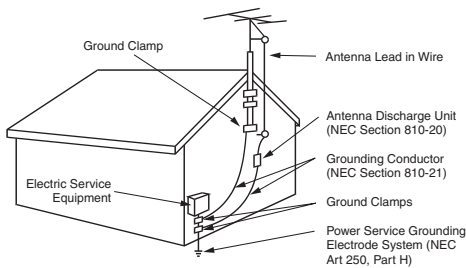
PORTABLE CART WARNING

Safety Instructions continued

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Contents

Warnings	2	Front Surround	64
Digital Cable Compatibility	3	TV Speakers On/Off Setup	64
Safety Instructions	4-5	Stereo/SAP Broadcasts Setup	64
Introduction		Time Menu Options	
Controls	8	Auto Clock Setup	65
Connection Options	9	Manual Clock Setup	65
Remote Control Key Functions	10	On/Off Timer Setup	65
		Sleep Timer / Auto Off	66
Installation		Option Menu Features	
Joining the TV assembly to the wall to protect the set turning	11	Aspect Ratio Control	67
Installation Instructions	12	Cinema Mode Setup	67
External Equipment Connections	13-18	Caption	68
Antenna or Cable Connection	13-14	Caption / Text	68
VCR Setup	14	Caption Option / Demo	69
External A/V Source Setup	15	ISM Method	70
DVD Setup	15	Low Power	71
CableCARD™ Setup	16	Split Zoom	71
HDSTB Setup	16	Lock Menu Options	
PC Setup	17	Parental Lock Setup	73
Monitor Out Setup	18	CableCARD™ Function	
Digital Audio Output	18	Cable menu options	74
HDMI/DVI (VIDEO)	19-21	Scrambled channel	74
TV Guide On Screen Setup	22-31	Cable Channel List	75
		Emergency Alert Message	75
IEEE 1394	32-36	Remote Control	
TV Guide On Screen® System	37-55	PIP (Picture-in-Picture)/Twin Picture	76
Operation		Watching PIP/POP/Twin Picture	76
Screen Setup for PC mode		Selecting an Input Signal Source for PIP/Twin Picture	76
Adjustments for screen Position, Size, and Phase	56	Swapping PIP/Twin Picture	76
On-screen Menus Language Selection	57	TV Program Selection for PIP	76
Setup Menu Options		Moving the PIP sub picture	77
EZ Scan (Channel Search)	58	Adjusting Main and Sub Picture Sizes for Twin Picture	77
Manual Scan	58	POP (Picture-out-of-Picture: Channel Scan)	77
Channel Edit	59	Information	78
DTV Signal Strength	59	EZ Mute	79
Channel Label Setup	60		
Main Picture Source Selection	60	External Control Device Setup	80-84
Aux.Label	60	IR Codes	85-86
Video Menu Options		Programming the Remote	87
EZ Picture	61	Programming Codes	88-89
Manual Picture Control (Off Option)	61	Troubleshooting Checklist	90
Color Temperature Control	61	Maintenance	91
XD	62	Product Specifications	92
Video Preset	62	Warranty	95-96
Audio Menu Options			
Audio Language	63		
EZ SoundRite / EZ Sound	63		
Manual Sound Control (off Option)	63		

Setup and Operation Checklist

Setup and Operation Checklist

(See pages 11-18 for available connection and operational setup options.)

1. Unpack TV and all accessories.
2. Connect all external video and audio equipment.
see pages 13- 18.
3. Install batteries in remote control.
See page 10.
4. Turn TV on.
See page 57.
5. Turn video source equipment on.
6. Select viewing source for TV.
See pages 60.
7. Fine-tune source image and sound to your personal preference or as required by source.
See pages 61- 64.
8. Additional features set up
See Contents above.

After reading this manual, keep it handy for future reference.

Introduction

What is a Plasma Display Panel (PDP)?

A plasma display panel is the latest display technology and the best way to achieve flat panel displays with excellent image quality and large screen sizes that are easily viewable. The PDP can be thought of as a descendant of the neon lamp and it can be also be viewed as a series of fluorescent lamps.

How does it work?

PDP is an array of cells, known as pixels, which are comprised of 3 sub pixels, corresponding to the colors red, green, and blue. Gas in a plasma state is used to react with phosphors in each sub-pixel to produce colored light (red, green, or blue). These phosphors are the same types used in Cathode Ray Tube (CRT) devices such as televisions and common computer monitors.

You get the rich, dynamic colors that you expect. Each sub-pixel is individually controlled by advanced electronics to produce over 16 million different colors. All of this means that you get perfect images that are easily viewable in a display that is less than 5 inches thick.

160° - Wide angle range of vision

Your flat panel plasma screen offers an exceptionally broad viewing angle -- over 160 degrees. This means that the display is clear and visible to viewers anywhere in the room who can see the screen.

Wide Screen

The screen of the Plasma Display is so wide that your viewing experience is as if you are in a theater.

Multimedia

Connect your plasma display to a PC and you can use it for conferencing, games, and Internet browsing. The Picture-in-Picture feature allows you to view your PC and video images simultaneously.

Versatile

The light weight and thin size makes it easy to install your plasma display in a variety of locations where conventional TVs will not fit.

The PDP Manufacturing Process: a few minute colored dots may be present on the PDP screen

The PDP (Plasma Display Panel), which is the display device of this product is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the PDP manufacturing process. Several tiny, minute colored dots visible on the screen should be acceptable. This also occurs in other PDP manufacturers' products. The tiny dots appearing does not mean that this PDP is defective. Thus a few cell defects are not sufficient cause for the PDP to be exchanged or returned. Our production technology minimizes these cell defects during the manufacture and operation of this product.

Cooling Fan Noise

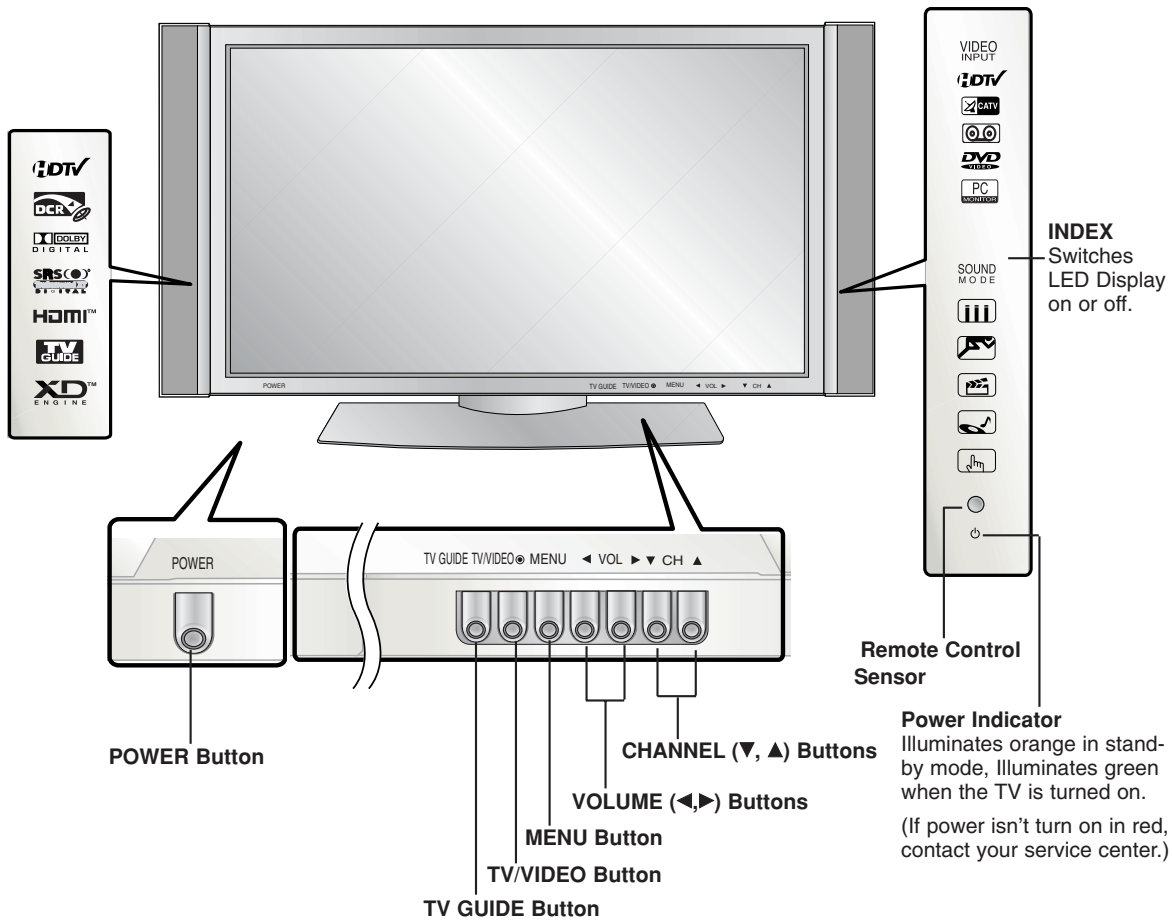
In the same way that a fan is used in a PC computer to keep the CPU (Central Processing Unit) cool, the PDP is equipped with cooling fans to cool the Monitor and improve its reliability. Therefore, a certain level of noise could occur while the fans are operating and cooling the PDP.

The fan noise doesn't have any negative effect on the PDP's efficiency or reliability. The noise from these fans is normal during the operation of this product. We hope you understand that a certain level of noise from the cooling fans is acceptable and is not sufficient cause for the PDP to be exchanged or returned.

Controls

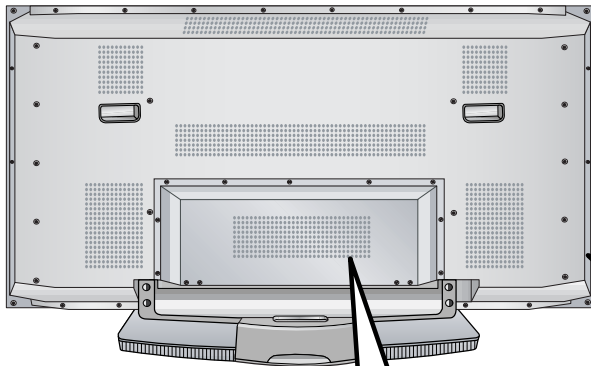
- This is a simplified representation of front panel.
Here shown may be somewhat different from your TV.

Front Panel Controls



Connection Options

Back Connection Panel



S-VIDEO Input

A connection available to provide better picture quality than the video input.

VIDEO Input

Connects the video signal from a video device.

AUDIO Input

Use to connect to hear stereo sound from an external device.

G-LINK

Connect an IR controller to this jack.

Digital Audio (DVI: Digital Visual Interface/Component2) Input/ Digital Audio Output

Connect digital audio from various types of equipment.
Note: In standby mode, these ports will not work.

RS-232C INPUT (CONTROL/SERVICE) PORT

Connect to the RS-232C port on a PC.

IEEE1394

Connect DVHS or MicroMV to IEEE1394 Connector.

Remote Control Port

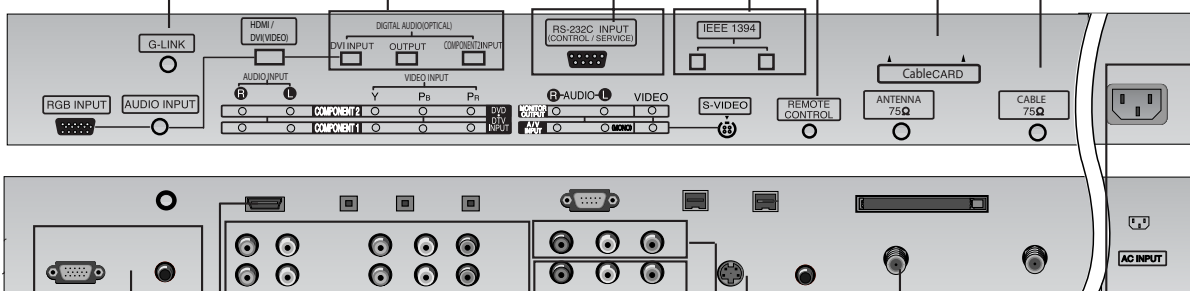
Connect your wired remote control here.

CableCARD™

Used for CableCARD™ received Cable Service Provider.

CABLE Inputs

Connect cable signals to the TV, either directly or through your cable box.



RGB/AUDIO INPUT

Connect the monitor output connector from a PC to the appropriate input port.

DVD/DTV Input (Component 1-2)

Connect a component video/audio device to these jacks.

HDMI/DVI(VIDEO)

Connect a HDMI/DVI(Video) signal to this jack.

Audio/Video Input

Connect audio/video output from an external device to these jacks.

Monitor Output

Connect a second TV or Monitor.

S-Video Input

Connect S-Video out from an S-VIDEO device to the S-VIDEO input.

Antenna Inputs

Connect antenna signals to the TV, either directly or through your cable box.

Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

- This manual explains the features available on the DU-50PY10 series TVs.

Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.

LIGHT
Illuminates the remote control buttons.

TV/VIDEO
Selects: DTV, Analog, Video, Front Video, Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI input sources.

COMP/RGB/HDMI
Selects: Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI input sources.

NUMBER buttons

DASH
Uses to enter a program number for multiple program channels such as 2-1,2-2,etc.

MUTE
Switches the sound on or off.(Refer to p.79)

VOLUME UP/DOWN
Increases/decreases the sound level.

INFO
When you watch the TV, information displays on top of the screen. Not available in Component 1-2, RGB and HDMI/DVI mode.(Refer to p.78)

SAP
Selects MTS sound: Mono, Stereo, and SAP in Analog mode. Change the audio language in DTV mode.

THUMBSTICK (Up/Down/Left/Right/ENTER)
Allows you to navigate the on-screen menus and adjust the system settings to your preference.

MENU
Brings up the main menu to the screen. Enters or exits a Panel Menu in the TV Guide On Screen system.

TV GUIDE
Brings up the TV Guide On Screen system to the screen.

VIDEO
Adjusts the factory preset picture depending on the viewing environment.

ADJUST
Adjusts screen position, size, and phase in PC mode.

SOUND
Selects the sound appropriate for the program's character.

SIGNAL
Displays the digital signal strength.

FREEZE
Freezes the currently-viewed picture. Main picture is frozen in PIP/Twin picture mode.

MODE
Selects the remote operating mode: TV, VCR, DVD, CABLE, HDSTB or AUDIO. Select other operating modes, for the remote to operate external devices.

POWER
Turns your TV or any other programmed equipment on or off, depending on mode. **1394** (Refer to p.32-36)

FLASHBK
Tunes to the last channel viewed.

SURF
Use to scroll the Surf channel.

CHANNEL UP/DOWN
Selects available channels found with EZ scan.

PAGE UP/PAGE DOWN
Moves from one full set of screen information to the next one.

RATIO
Changes the aspect ratio.

CC
Select a closed caption: Off, CC1~4, Text1~4.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

TIMER
Lets you select the amount of time before your TV turns itself off automatically.

VCR/DVD BUTTONS
Control some video cassette recorders or DVD player. ("RECORD" button is not available for DVD player.) Selects the frequency setting in the recording: Once, Regularly, Weekly, Off.("RECORD" button only)

DAY+/DAY-
Moves forward or backward in 24 hour increments in the Listings Grid.

PIP
Switches between PIP, POP (Picture-out-of-Picture) and Twin picture modes. Switches the video window locking or unlocking in the Listings Grid.

PIPCH-/PIPCH+
Changes to next higher/lower PIP channel.

PIP INPUT
Selects the input source for the sub picture.

SWAP
Exchanges the main/sub images in PIP/Twin picture mode.

ZOOM
Enlarges the main picture size.

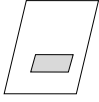
Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.

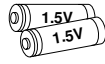


Installation

Ensure that the following accessories are included with your plasma display. If an accessory is missing, please contact the dealer where you purchased the product.



Owner's Manual



Batteries



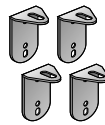
Power Cord



75Ω Round Cable



4-TV bracket bolts(50")
2-TV bracket bolts(60")



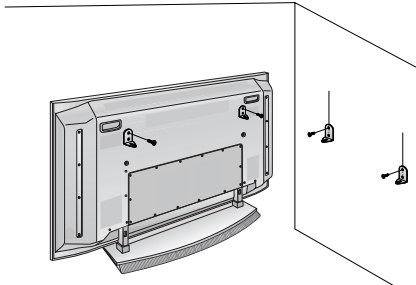
2-TV brackets
2-Wall brackets



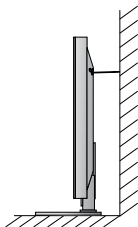
G-LINK Cable

Joining the TV assembly to the wall to protect the set tumbling

- Secure the TV assembly by joining it to a wall by using the TV/Wall brackets.



- After the set must be mounted on the desk top, install the TV brackets on the TV as shown. Install the TV brackets on the TV as shown. Insert the 2 bolts and tighten securely, in the upper holes on the bracket. Install the wall brackets on the wall with 4 bolts*, (not supplied with the product), as shown. Match the height of the TV brackets and the wall brackets. Check to be sure the brackets are tightened securely.



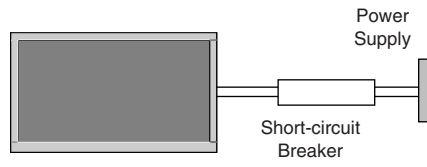
- Secure the TV assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

Installation Instructions

- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally. The speakers shown are optional.

GROUNDING

Ensure that you connect the grounding / earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.

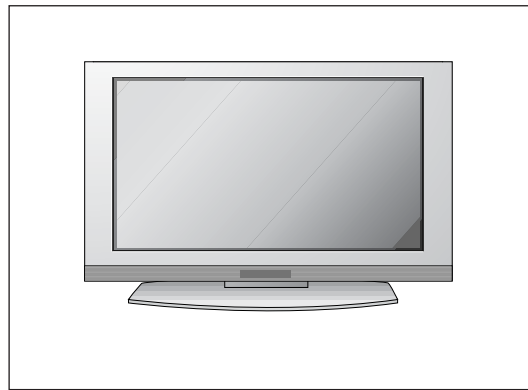


Wall Mount: Horizontal installation

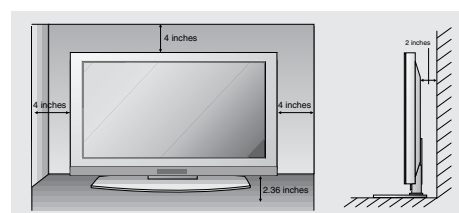
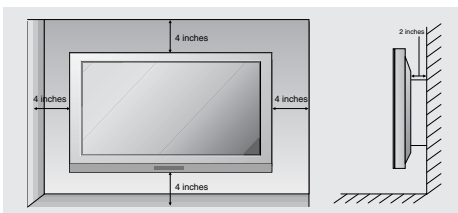


For proper ventilation, allow a clearance of 4" on each side and 2" from the wall. Detailed installation instructions are available from your dealer, see the optional Wall Mounting Bracket Installation and Setup The TV guide on screen system.

Desktop Pedestal Installation



For proper ventilation, allow a clearance of 4" on each side and the top, 2.36" on the bottom, and 2" from the wall. Detailed installation instructions are included in the optional Desktop Stand Installation and Setup The tv guide on screen system available from your dealer.

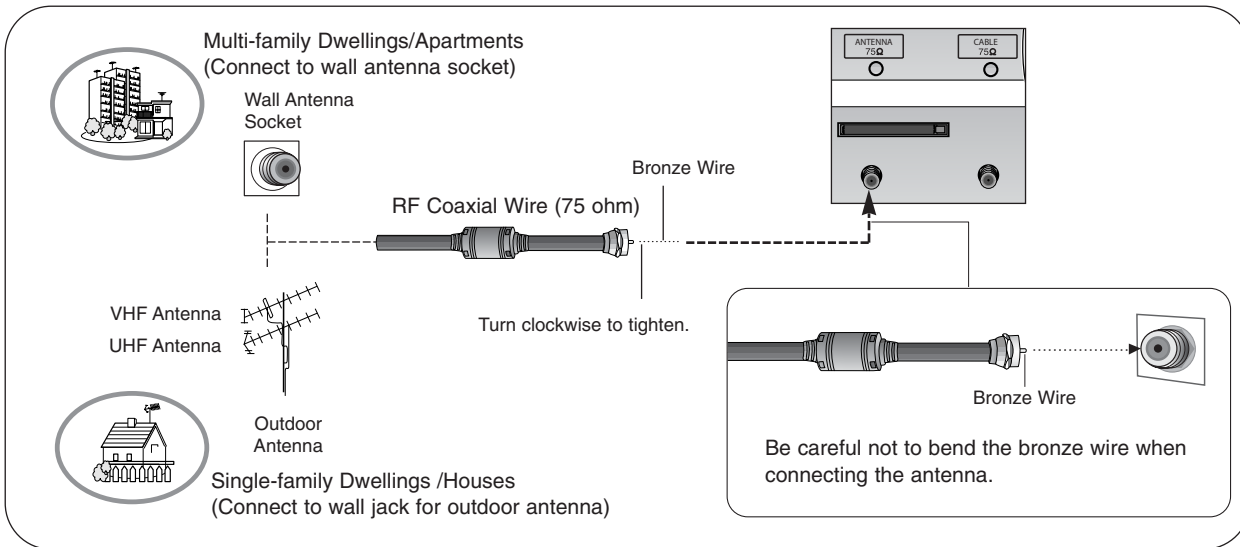


External Equipment Connections

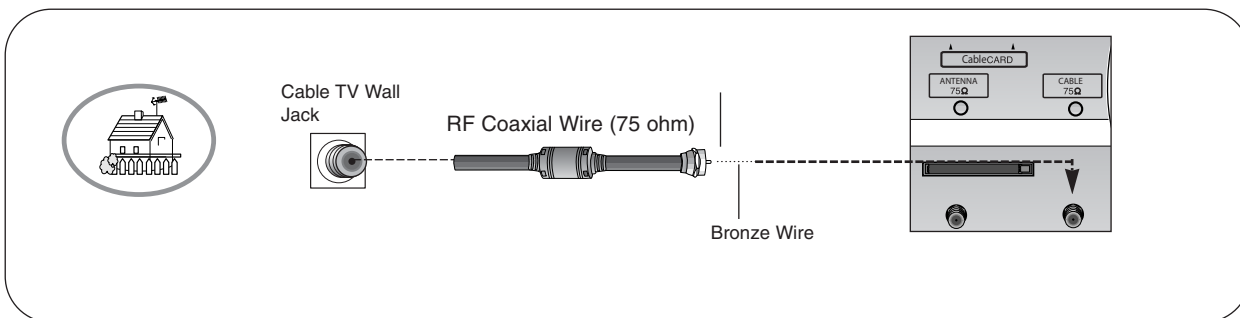
Antenna or Cable Connection

1. Analog and Digital TV signals provided on antenna

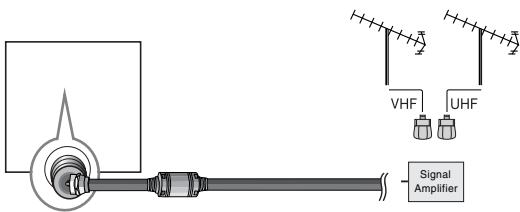
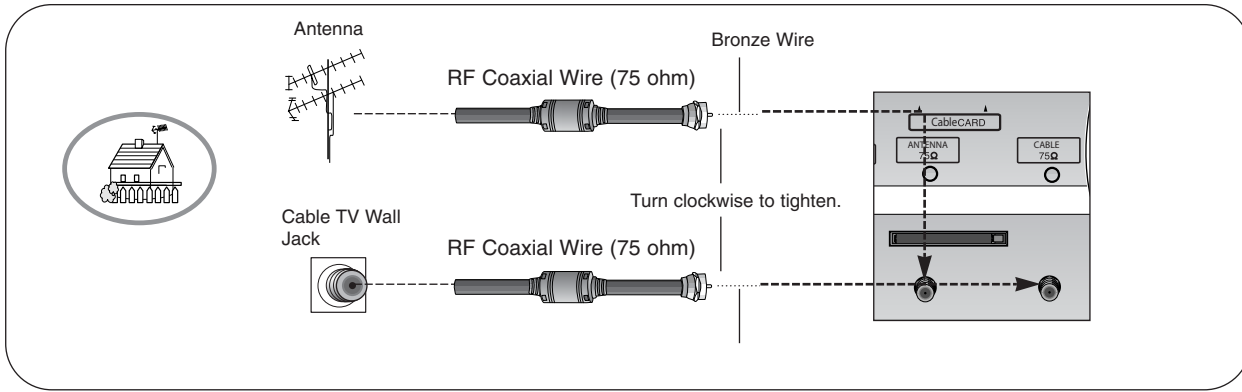
- Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections
- For optimum picture quality, adjust antenna direction if needed.



2. Analog and Digital TV signals provided on cable



3. Analog and Digital TV signals provided on cable and antenna



- In a poor signal area to improve picture quality, purchase and install a signal amplifier.
- If the antenna needs to be split for two TV's, install a "2-Way Signal Splitter" in the connections.
- If the antenna is not installed properly, contact your dealer for assistance.

Note: The TV will let you know when the analog, cable, and digital channel scans are complete.

VCR Setup

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV
- Use the ISM Method (on the Option menu) feature to avoid having a fixed image remain on the screen for a long period of time. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

Connection Option 1

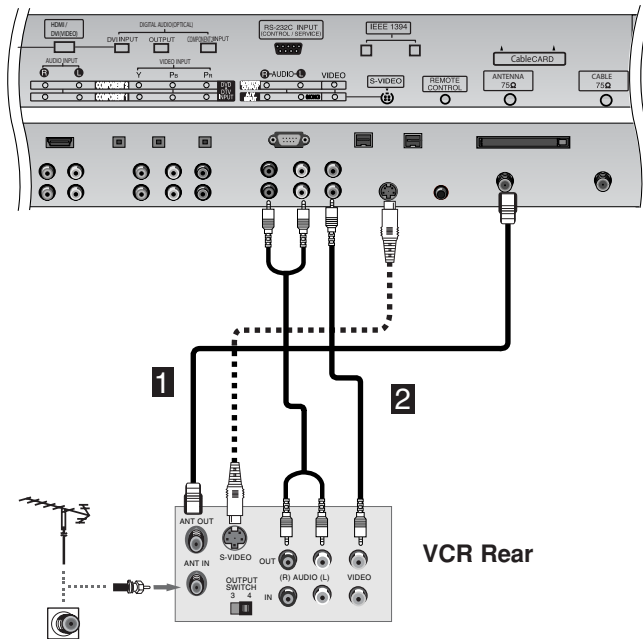
Set VCR output switch to 3 or 4 and then tune TV to the same channel number.

Connection Option 2

1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure.
When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
If you connect an S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT, select **Video** input source)



Do not connect to both Video and S-Video at the same time.



External A/V Source Setup

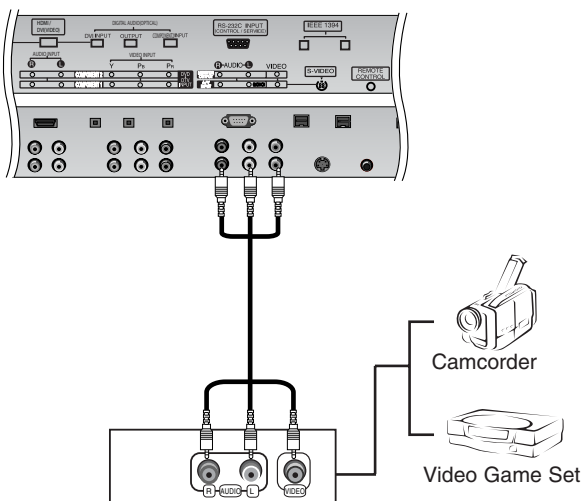
How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure.

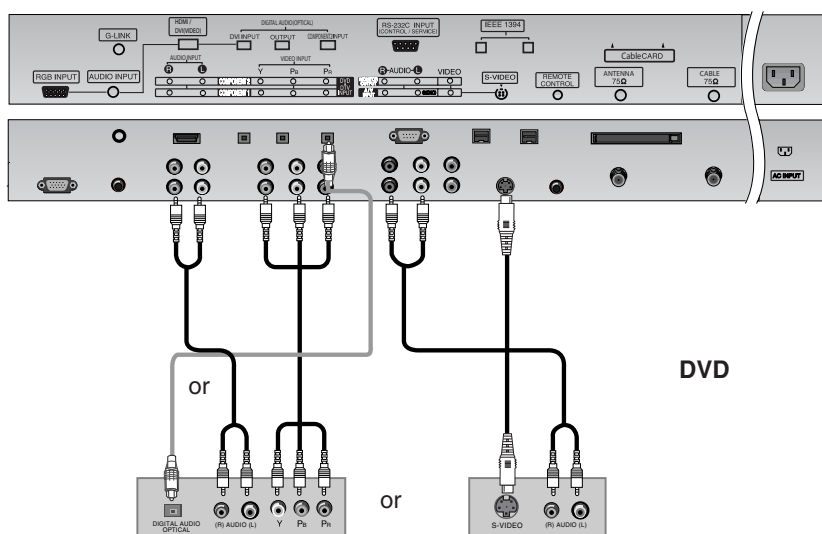
When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

1. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT, select **Video** input source).
2. Operate the corresponding external equipment. Refer to external equipment operating the tv guide on screen system.



DVD Setup



How to connect

1. Connect the DVD video outputs (Y, Pb, Pr) to the COMPONENT (Y, Pb, Pr) INPUT jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.
2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

Note: If your DVD player does not have component video output, use S-Video.

How to use

1. Turn on the DVD player, insert a DVD.
2. Use the **TV/VIDEO** or **COMP/RGB/HDMI** button on the remote control to select **Component 1** or **Component 2**. (If connected to S-VIDEO, select the **Video** or **Front Video** external input source.)
3. Refer to the DVD player's manual for operating instructions.

• Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	P _B	P _R
Video output ports on DVD player	Y	P _b	P _r
	Y	B-Y	R-Y
	Y	C _b	C _r
	Y	P _B	P _R

Notes:

- Digital Audio will not work for Component 1 input source.
- Digital Audio operation has priority if Digital Audio and AUDIO L/R are connected at the same time.

CableCARD™ Setup

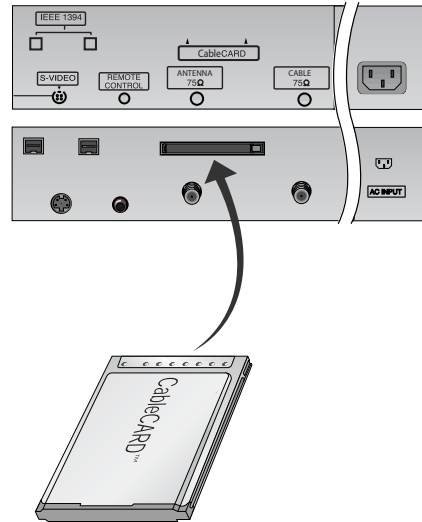
How to use

Insert the CableCARD™ received from Cable Service provider to CableCARD™ slot of TV back panel.
 If Host or CableCARD™ does not display on the screen, contact with Cable service provider by phone.

- Note :**
- CableCARD™ has the types of Motorola, Scientific Atlanta, SCM etc.. These 3 types of CableCARD™ can be used for this PLASMA TV.

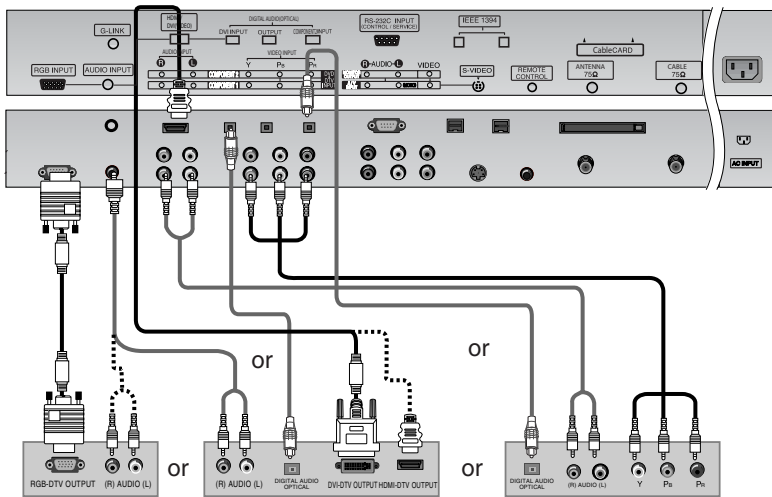


Caution: When removing the CableCARD™, do not fall it as this may cause impact to the CableCARD™.



HDSTB Setup

- This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.
- This TV supports HDCP (High-bandwidth Digital Contents Protection) protocol for Digital Contents (480p,720p,1080i).



Digital Set-top Box

How to connect

Use the TV's COMPONENT (Y, Pb, Pr) INPUT, RGB or HDMI/DVI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

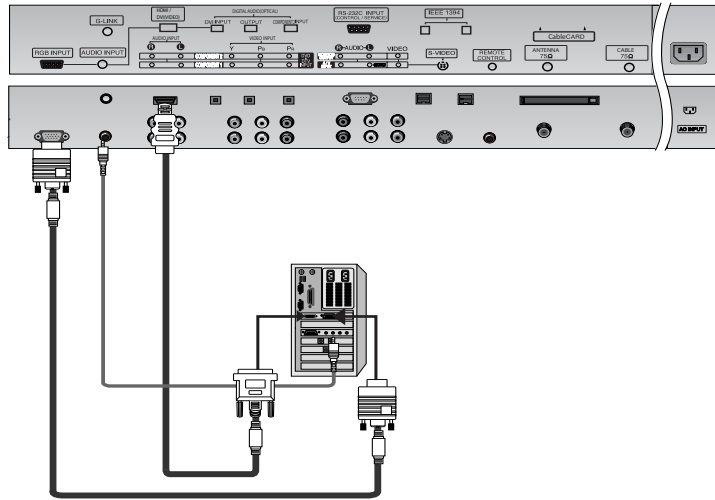
How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use **TV/VIDEO** or **COMP/RGB/HDMI** on the remote control to select **Component 1, Component 2, RGB-DTV, or HDMI/DVI** source.

Signal	Component 1/2	RGB-DTV,HDMI/DVI
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes

PC Setup

- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.
- The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card, change the screen scanning rate for the graphic card accordingly.



How to connect

1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
2. Use the TV's RGB INPUT or HDMI/DVI (Digital Visual Interface) INPUT port for video connections, depending on your PC connector.
 - If the graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of either RGB INPUT or DVI INPUT to display the PC on the TV.
 - If the graphic card on the PC does output analog and digital RGB simultaneously, set the TV to either RGB or HDMI/DVI; (the other mode is set to Plug and Play automatically by the TV.)
3. Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.

How to use

1. Turn on the PC and the TV.
2. Turn on the display by pressing the POWER button on the TV's remote control.
3. Select **RGB-PC** or **HDMI/DVI** input source in main input option of SETUP menu. (Refer to P.59)
4. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

- Notes:**
- Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI cable.
 - Avoid keeping a fixed image on the TV's screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
 - The synchronization input form for Horizontal and Vertical frequencies is separate.

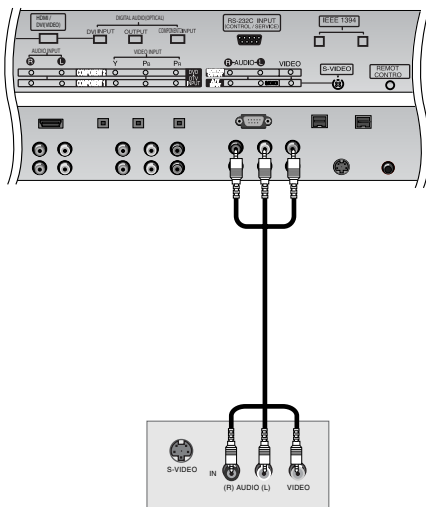
Monitor Display Specifications (RGB-PC)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09	800x600	35.156	56.25
	37.861	85.08		37.879	60.31
720x400	31.469	70.08		48.077	72.18
	37.927	85.03		46.875	75.00
640x480	31.469	59.94		53.674	85.06
	37.861	72.80		1024x768	48.363
	37.500	75.00	56.476		70.06
	43.269	85.00	60.023		75.02

Monitor Display Specifications (HDMI/DVI Mode)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	
640x480	31.469	59.94	1024x768	48.363	60.00	
	37.861	72.80		56.476	70.06	
	37.500	75.00		60.023	75.02	
800x600	35.156	56.25				
	37.879	60.31				
	48.077	72.18				
	46.875	75.00				

Monitor Out Setup



The TV has a special signal output capability which allows you to hook up a second TV or monitor.

Connect the second TV or monitor to the TV's MONITOR OUTPUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

Note

- Component, RGB-PC/RGB-DTV, HDMI/DVI, DTV input sources cannot be used for Monitor out.

Digital Audio Output

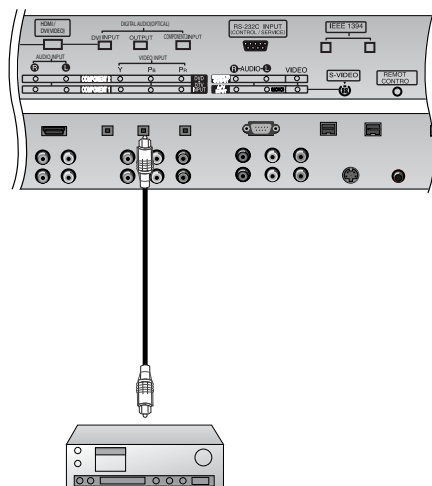
Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port.

How to connect

1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
3. Set the "TV Speaker" option - **Off** in the AUDIO menu. Refer to page 64. See the external audio equipment instruction manual for operation.



Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision.



HDMI/DVI (VIDEO)



- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."
- This TV SET can receive the High-Definition Multimedia Interface(HDMI) or Input of Digital Visual Interface(DVI).
- This TV SET supports HDCP(High-bandwidth Digital Contents Protection) Protocol for TV SET(480p, 720p, 1080i) modes.
- When you Connect with HDMI/DVI Source Devices (DVD Player or Set Top Box or PC) supporting Auto HDMI/DVI function, automatically, support Plug & Play and then set the HDMI/DVI Source Devices(1280 x 720p). After reading in HDMI/DVI Source Devices using Display Data Channel(DDC) Protocol, EDID stored in TV SET is used . If HDMI/DVI Source Devices not supported Auto HDMI/DVI is been, the Resolution is setted, manually.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
- To get the best picture quality, adjust the PC graphics card to 1024 x 768, 60Hz.
- When Source Devices have DVI Output Connector, you must connect audio with separated cable.(Refer to <How to connect>)

How to connect

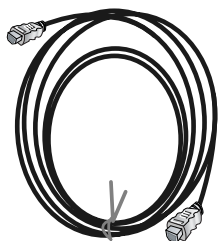
1. When Source Devices(DVD Player or Set Top Box) support HDMI.
 - If Source Devices have HDMI Output Connector, Source Devices connect to DTV with HDMI Cable .(not supplied with the product).
 - If Source Devices support Auto HDMI, automatically, Source Devices divert output resolution in 1280x720p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
 - To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
 - Because HDMI sends Digital Video and Audio with one cable, need not especial Audio Cable for using HDMI Cable.

2. When Source Devices(DVD Player or Set Top Box) supports DVI.
 - If Source Devices have DVI Output Connector, Source Devices connect to DTV with HDMI to DVI Cable (not supplied with the product).
 - If Source Devices support Auto DVI, automatically, Source Devices divert output resolution in 1280x720p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
 - To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
 - In this case, Audio use other cable. When Source Devices have Fiber Optic Digital Audio Output Connector, Digital Audio DVI Input(DVI) of DTV connect to Fiber Optic Digital Audio Cable (not supplied with the product) or when Source Devices have Analog Audio Output Connector, RGB/DVI Audio Input of DTV connect to Audio Cable (not supplied with the product). And then you can listen to normal Audio.

3. When PC supports DVI.
 - If PC have DVI Output Connector, Source Devices connect to DTV with HDMI to DVI Cable (not supplied with the product).
 - To get the best picture quality, adjust the PC graphics card to 1024 x 768, 60Hz.
 - Use the DTV's HDMI/DVI(VIDEO) for video connections, depending on your PC connector.
 - If the graphics card on the PC does not output analog RGB and DVI simultaneously, connect only one of either RGB Input or HDMI/DVI Input to display the PC on the DTV.
 - If he graphics card on the PC does output analog RGB and DVI simultaneously, set the DTV to either RGB Input or HDMI/DVI Input;(the other mode is set to Plug and Play automatically by the DTV.)
 - Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.
 - In this case, Audio use other cable. When PC (or sound card of PC) have Fiber Optic Digital Audio Output Connector, Digital Audio DVI Input(DVI) of DTV connect to Fiber Optic Digital Audio Cable (not supplied with the product) or when PC (or sound card of PC) have Analog Audio Output Connector, RGB/DVI Audio Input of DTV connect to Analog Audio Cable (not supplied with the product). And then you can listen to normal Audio.

Reference

Cable sample



HDMI Cable
(not supplied with the product)



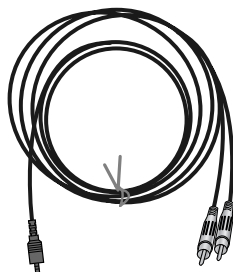
HDMI to DVI Cable
(not supplied with the product)



Fiber Optic Digital Audio Cable
(not supplied with the product)



Analog Audio Cable(RCA type)
(not supplied with the product)



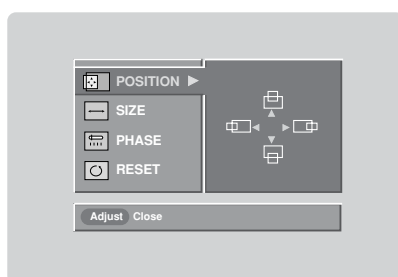
Analog Audio Cable(Stereo to RCA type)
(not supplied with the product)

How to use

1. Connect the HDMI/DVI Source Devices(DVD Player or Set Top Box or PC) and the TV SET.
2. Turn on the display by pressing the POWER button on the TV SET and HDMI/DVI Source Devices remote control.
3. Select HDMI/DVI Input source in Main Input option of SETUP menu.(Refer to P.60)
4. Check the image on your TV SET. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI/DVI Source Devices. If noise is present, change the HDMI/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not be changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

Notes:

- Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI Cable.
- Avoid keeping a fixed image on the TV SET screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
- When Source Devices connected HDMI/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position, Size may not fit to Screen. As shown the lower picture, press the **Adjust** button to adjust the screen Position of TV SET and contact an PC graphics card service center.
- When Source Devices connected HDMI/DVI Input output TV SET Resolution(480p, 720p, 1080i), TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service center.
- In case HDMI/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI/DVI Input. And In case of, Video Resolution not supported TV SET output in HDMI/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI/DVI Source Devices or contact your service center.



In This Mode, the Supported TV SET Resolution Specification

- 1920 x 1080 I @ 59.94Hz / 60Hz, 16:9
- 1280 x 720 P @ 59.94Hz / 60Hz, 16:9(preferred format)
- 704 x 480 P @ 59.94Hz / 60Hz, 16:9
- 704 x 480 P @ 59.94Hz / 60Hz, 4:3

In This Mode, the Supported PC Resolution Specification

- 640 x 480 @ 60Hz
- 640 x 480 @ 72Hz
- 640 x 480 @ 75Hz
- 800 x 600 @ 56Hz
- 800 x 600 @ 60Hz
- 800 x 600 @ 72Hz
- 800 x 600 @ 75Hz
- 1024 x 768 @ 60Hz(preferred format)
- 1024 x 768 @ 70Hz
- 1024 x 768 @ 75Hz

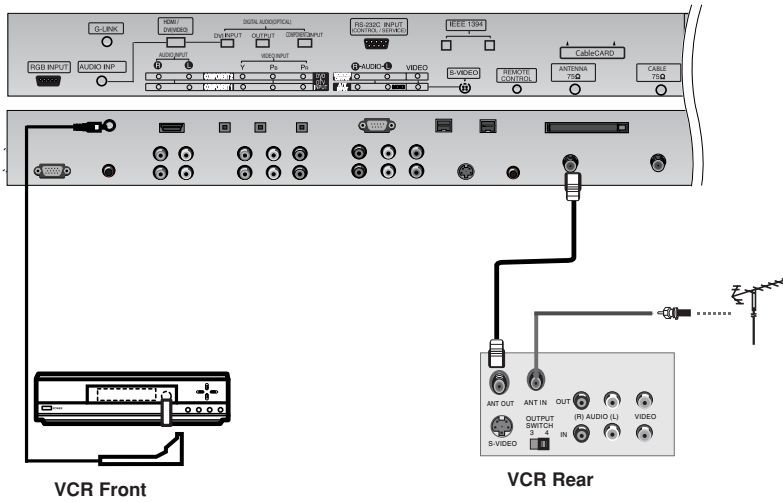
TV Guide On Screen Setup

- The TV Guide On Screen system uses Setup information to provide you with show listings and lineups in your area—which are updated several times a day.
- Once you set up the TV according to manufacturer's instructions, you are ready to set up the TV Guide On Screen system.

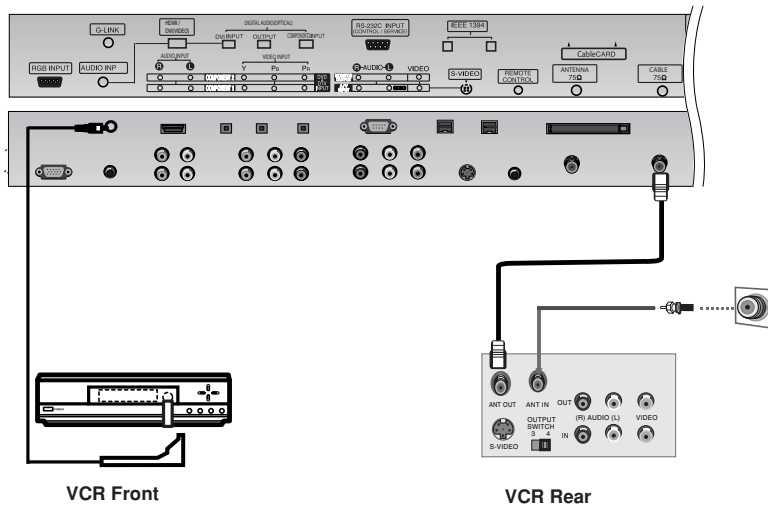
Note: The TV Guide On Screen System interactive program guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. It does not provide listings for satellite services.

How to connect VCR and Cable Box

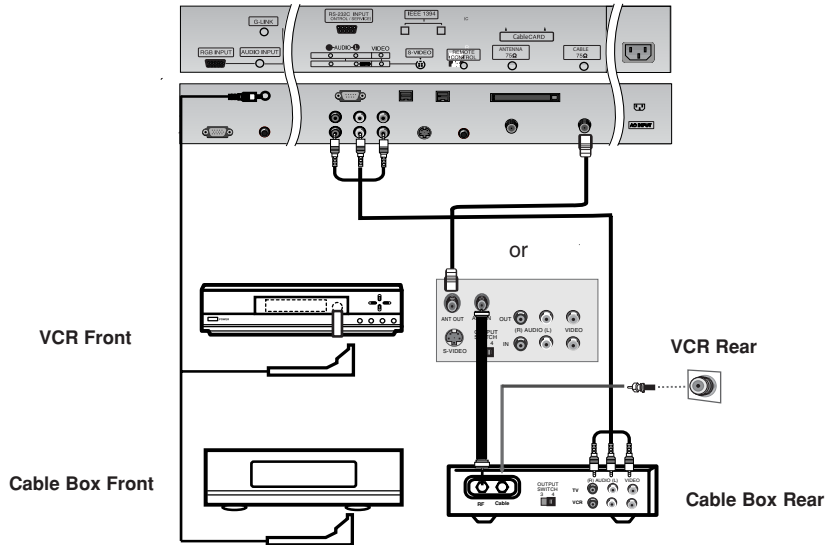
1. Antenna Service



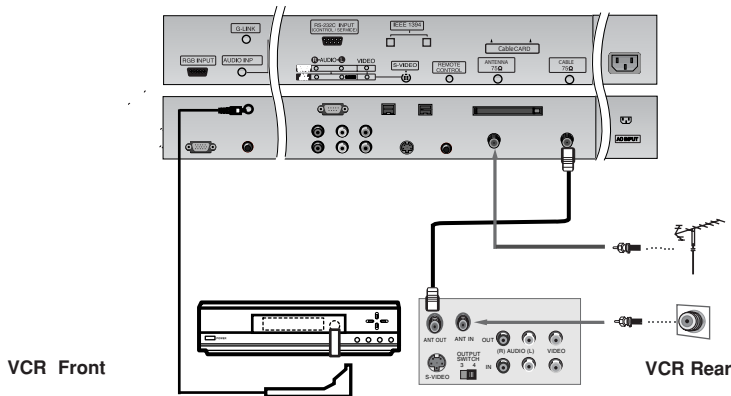
2. Cable Service without a Cable Box



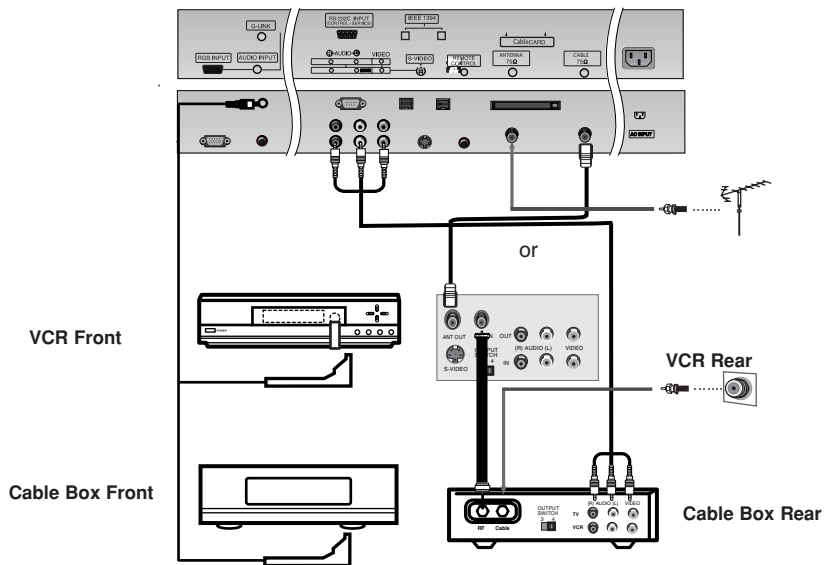
3. Cable Service with a Cable Box



4. Antenna and Cable Service without a Cable Box



5. Antenna and Cable Service with a Cable Box



Note:

- The G-LINK cable is necessary for the TV Guide On Screen system to work with your Cable Box and VCR. See Page 22~23 for G-LINK connection instructions.

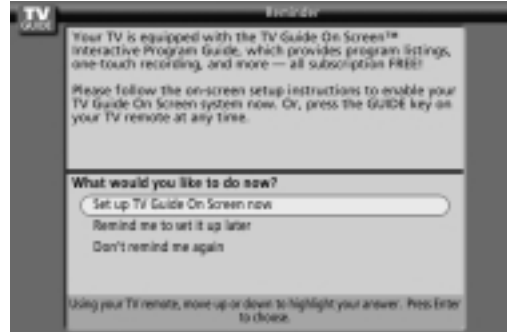
1. Reminder Screen

The TV Guide On Screen system's Reminder Screen appears:

- after initial TV set up
- if you power Off the TV and then power it back On

To make a selection, use the ▲ / ▼ button to highlight to an option, and press **ENTER**.

- "Set up TV Guide On Screen now," displays the Welcome Screen. Press **ENTER** to begin Setup.
- "Remind me to set up later" returns you to watching TV.
- "Don't remind me again" returns you to watching TV and stops the reminder screen from appearing upon power On.



2. Welcome Screen

The TV Guide On Screen system's Welcome Screen appears:

- by pressing the TV Guide key
- when you power On your TV if you previously skipped "Set up TV Guide On Screen now" on the Reminder Screen.

The Welcome Screen highlights features of the TV Guide On Screen system.

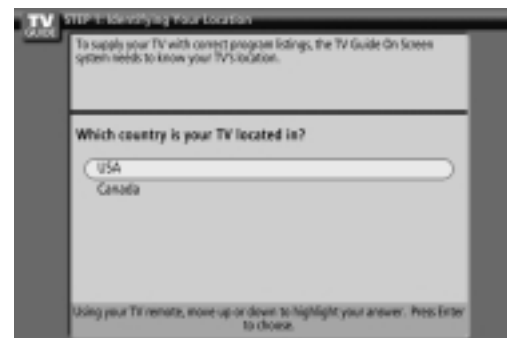
Press **ENTER** to begin Setup.



How to use

1. Screen 1: Country

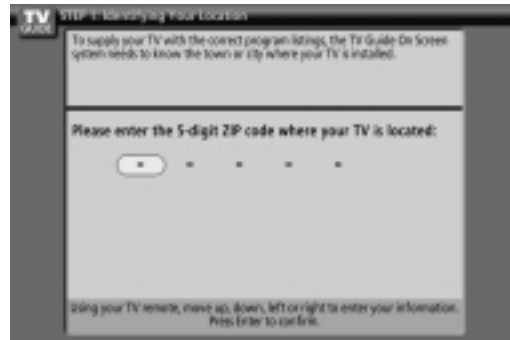
- This screen asks you the location of your TV.
- Use the ▲ / ▼ button to highlight a country.
- Press **ENTER** to display Screen 2.



2. Screen 2: Enter Zip or Postal Code

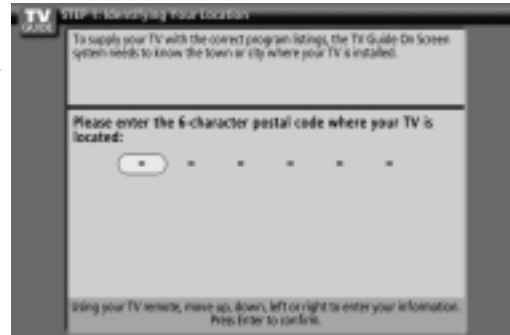
Option 1

- If you selected USA in Screen 1, you see the ZIP Code screen.
- You input numbers by either pressing the number keys on the remote or using the ▲ / ▼ button to display a number, and then the ◀ / ▶ button to move to another field.
- Press **ENTER** to display Screen 3.



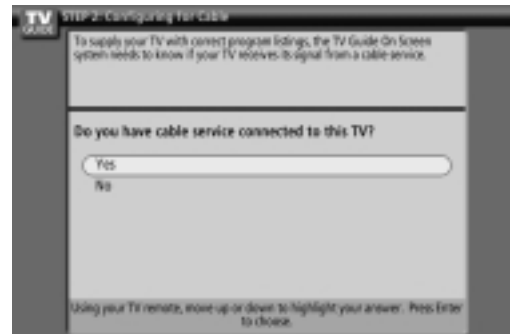
Option 2

- If you selected Canada in Screen 1, you see the Postal Code screen.
- You input characters by using the ▲ / ▼ button, and then the ◀ / ▶ button to move to another field.
- Press **ENTER** to display Screen 3.



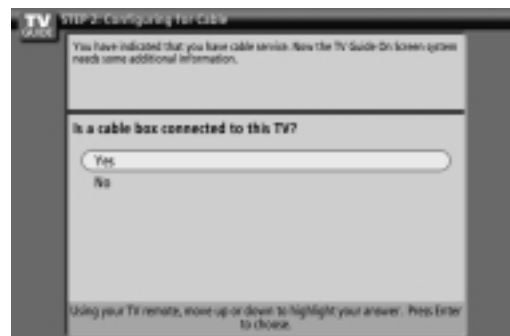
3. Screen 3: Do you have Cable?

- If you select Yes, you see Screen 4.
- If you select No, you see Screen 12.



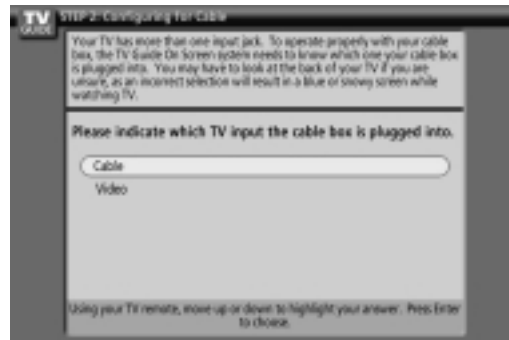
4. Screen 4: Do you have a Cable Box?

- If you select Yes, you see Screen 5.
- If you select No, you see Screen 12.



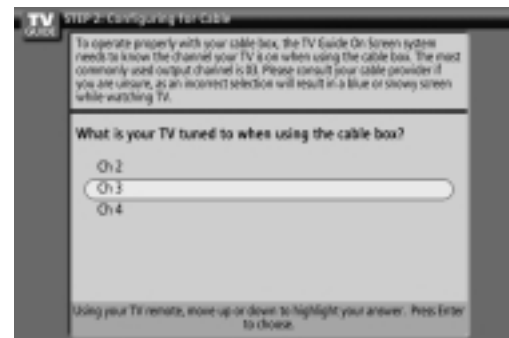
5. Screen 5: Which TV input is the cable box plugged into?

- If you select Cable, you see Screen 6.
- If you make any other choice, you see Screen 7 .



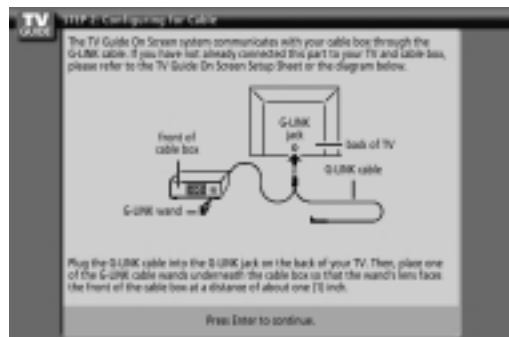
6. Screen 6: Cable Box Tuning Channel

- Select the channel used for the cable box.
- Press **ENTER** to display Screen 7.



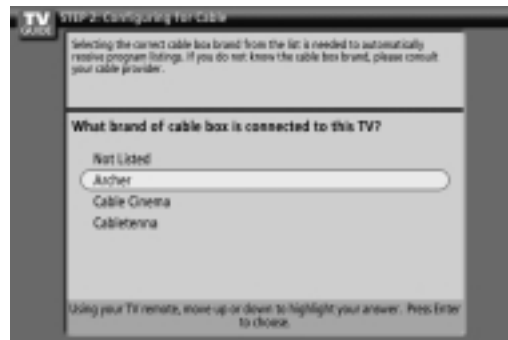
7. Screen 7: Cable Box Configuration Diagram

- The diagram shows the correct way to install the G-LINK Cable from the back of the device to the cable box.
- Make sure the G-LINK Cable is properly installed.**
- Press **ENTER** to display Screen 8.



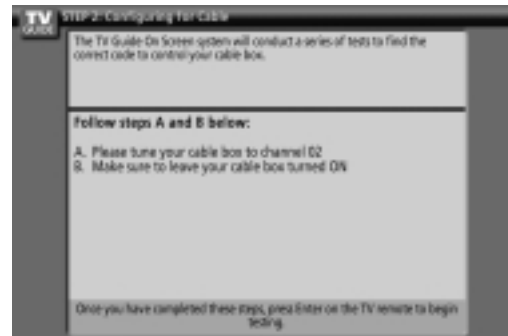
8. Screen 8: Cable Box Brand Name

- Use the ▲ / ▼ button to select a cable box brand.
- Press **ENTER** to display Screen 9.



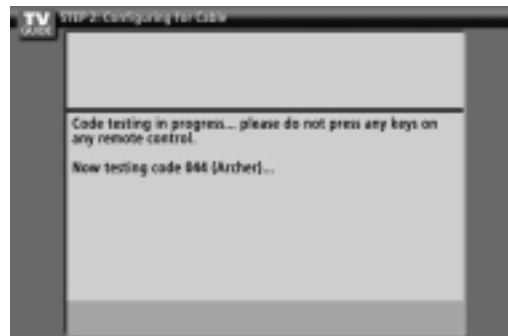
9. Screen 9: Cable Box Preparation

Follow the on-screen instructions, and press **ENTER** to display Screen 10.



10. Screen 10: Cable Box Code Testing

When testing is done, Screen 11 displays automatically.



11. Screen 11: Cable Box Tuned to Channel 9?

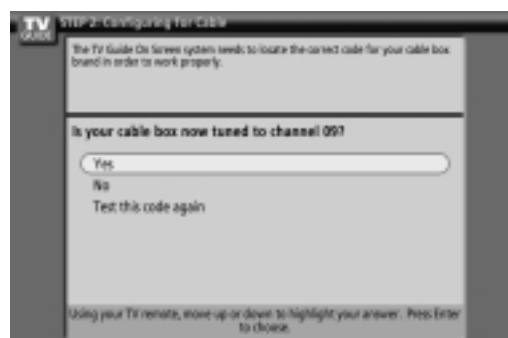
If you select Yes, you see Screen 12.

If you select No, a different code is tested in Screen 10.

Note:

- Many Cable Boxes require testing more than one code.

If you select Test this code again, the same code is tested again in Screen 10.

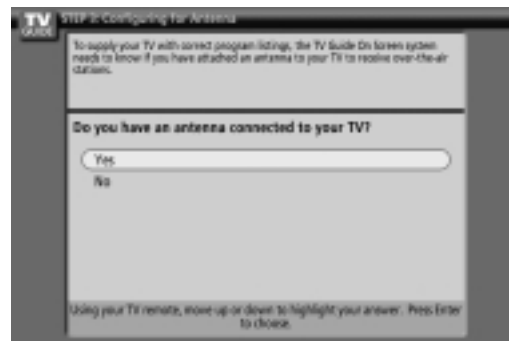


12. Screen 12: Do you have an antenna connected?

- If you select Yes, you see Screen 13.

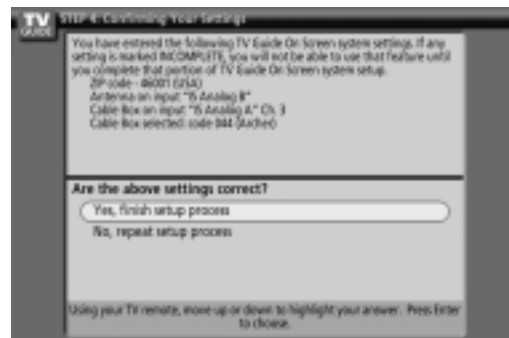
Note:

- If you selected No in Screen 3 then you must select Yes in this screen to receive a channel lineup and listings.
- If you select No, you see Screen 13.



13. Screen 13: Are your basic settings correct?

- If you select Yes, you see Screen 14.
- If you select No, you see Screen 1.



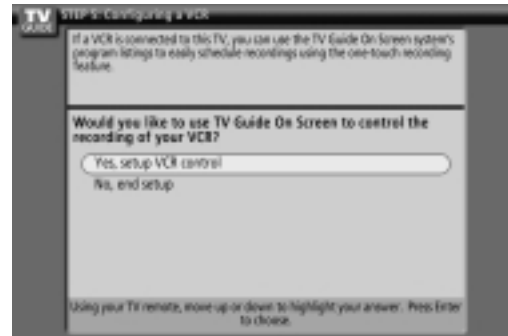
14. Screen 14: Congratulations

- Press ENTER to display Screen 15.



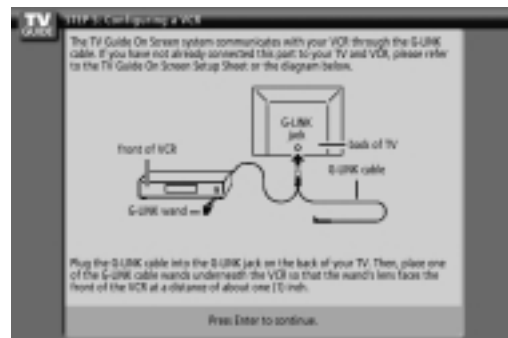
15. Screen 15: Is a VCR Connected?

- If you select Yes, you see Screen 16.
- If you select No, you see Screen 21.



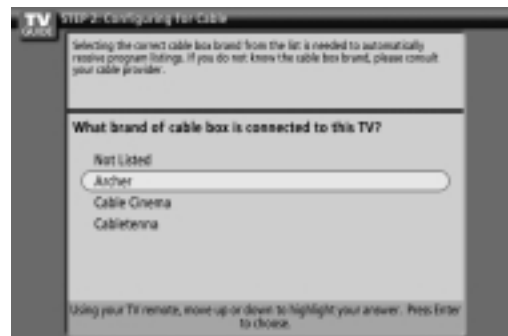
16. Screen 16: VCR Configuration Diagram

- This screen shows the correct way to install the G-LINK Cable from the back of the TV to the Recording device.
- Make sure the G-LINK Cable is properly installed.**
- Press **ENTER**, and you see Screen 17.



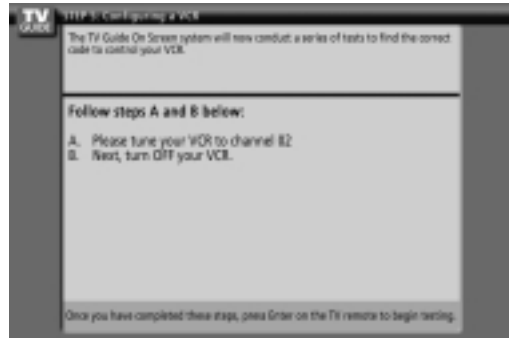
17. Screen 17: VCR Brand Name

- Use the ▲ / ▼ button to select the brand of the recording device.
- Press **ENTER**, and you see Screen 18.



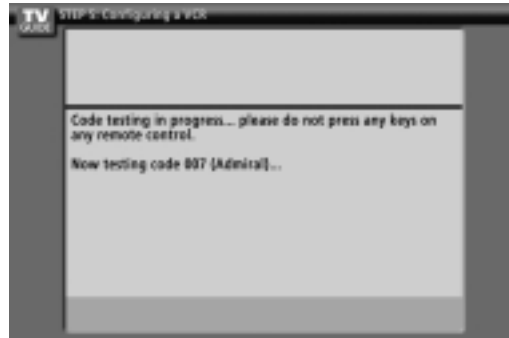
18. Screen 18: VCR Preparation

Follow the on-screen instructions, and press **ENTER** to display Screen 19.



19. Screen 19: VCR Code Testing

When testing is done, Screen 20 displays automatically.

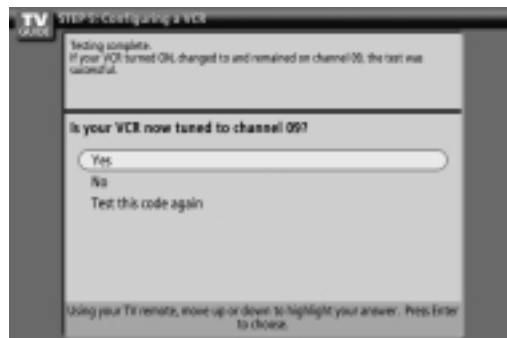


20. Screen 20: VCR Tuned to Channel 9?

- If you select Yes, you see Screen 21.
- If you select No, a different code is tested in Screen 19.

Note : Many VCRs require testing more than one code.

- If you select Test this code again, the same code is tested again in Screen 19.

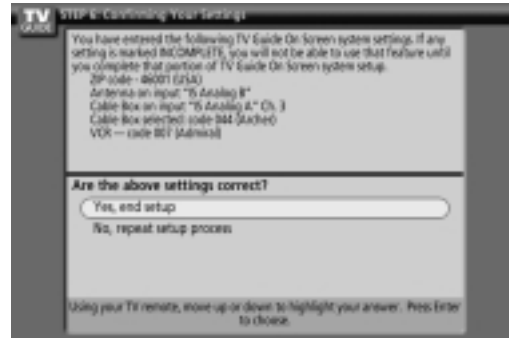


21. Screen 21: Confirming Your Settings

Verify the Setup information is correct.

If it is, select Yes, end setup, and you see Screen 22.

If it is not, select No, repeat setup process, and you see Screen 1.



22. Screen 22: Congratulations

•You have successfully completed Setup!

•Press **ENTER** and you see Screen 23.



23. Screen 23: Helpful Information

•This screen tells you valuable information on using your Guide.

•Press **ENTER** to watch TV.



Notes:

The TV Guide On-Screen system receives program listings data through your cable or over-the-air video signal. In order to receive regular program listings, please remember to do the following:

1. Turn OFF your TV when it is not in use. (Do not unplug the power cord.)
2. If you have a Cable box connected, leave it ON.
3. If you have a VCR connected, turn it OFF when not in use. (Do not unplug the power cord.)
4. If you have more than one Cable system in your area, you may be prompted to select which Cable system's program data to download. If so prompted, please follow the on-screen instructions.

IEEE 1394 Functions

IEEE 1394

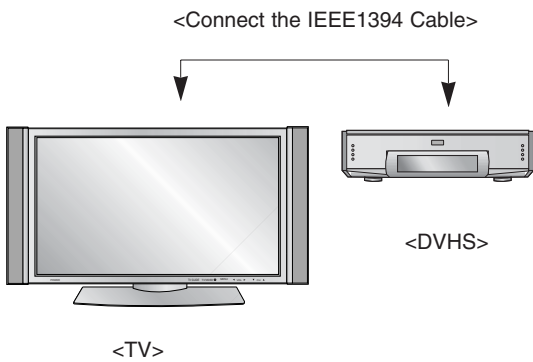
- It's available to communicate to either direction and you can give and take a image, sound, or each control command with one cable.
- Only use the DVHS and MicroMV Camcorder to work the 1394.

How to connect the 1394

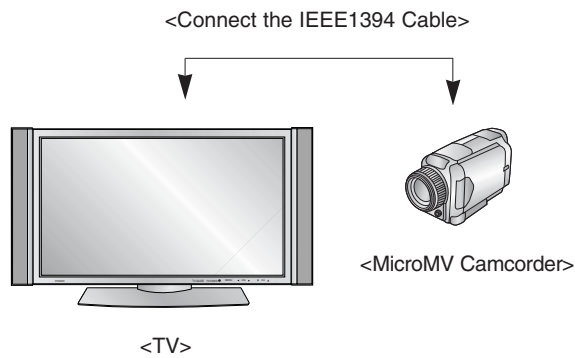
•To work the 1394, this 3 methods can used.

1. When connecting the DVHS or the MicroMV Camcorder, as shown in the (a) or (b) figure, press the **1394** button to show the control panel.

(a) TV ↔ DVHS

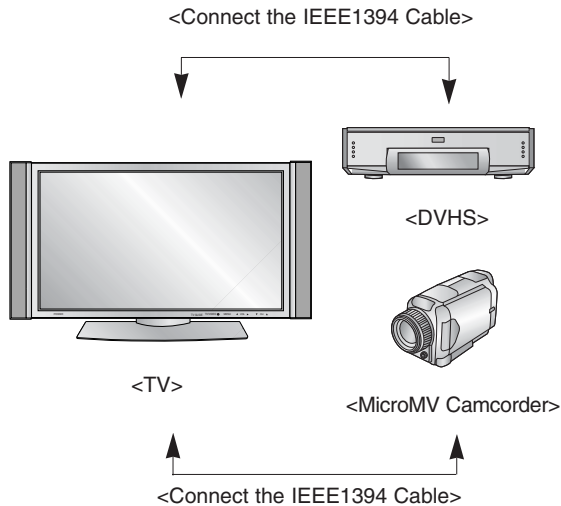


(b) TV ↔ MicroMV Camcorder



2. When connecting the DVHS and the MicroMV Camcorder, as shown in the (c) figure, press the **1394** button to show the contents panel and then select the DVHS or the MicroMV Camcorder to show the control panel.

(c) TV ↔ DVHS + MicroMV Camcorder



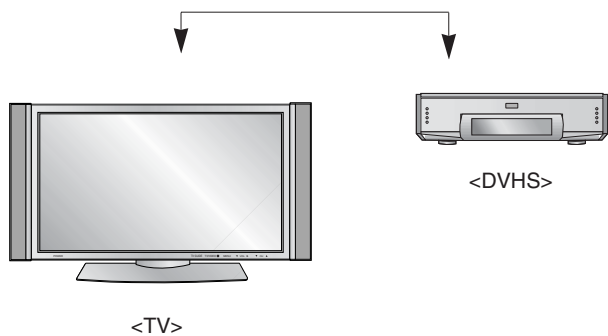
When connecting the 1394 and then playing, you must use the original DVHS tape. If not, it may be occurred the errors.

IEEE 1394 functions continued

DVHS

How to play the DVHS

1. Connect the IEEE 1394 jack of the TV to the IEEE 1394 jack of the DVHS with IEEE 1394 Cable.
2. When watching the TV, press the **1394** button.



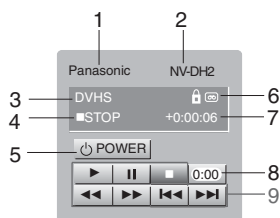
- Show the control panel of DVHS.



* Supported DVHS List

VICTOR(HM-DH35000U)
 JVC(HM-DH30000U)
 JVC(HM-DH40000U)
 MITSUBISHI(HS-HD1100U)
 MITSUBISHI(HS-HD2000U)
 Hitachi(DT-DR20000)
 Hitachi(DT-DRX100)
 PANASONIC(NV-DH1)
 PANASONIC(NV-DH2)
 PANASONIC(NV-DHE20)
 TOSHIBA(A-HD2000)

- The control panel of DVHS
 -Depending on the connected equipment, marked control panel may differ.



1. DVHS Company
2. DVHS Model
3. Connected Equipment to the 1394
4. DVHS Operating Status
5. Power On/Off
6. Tape Status
 - Tape shape Icon - Tape in or not
 - Lock shape Icon - Use or not use
7. DVHS Play Time
8. Initializing Play Time
9. DVHS Play, Pause, Stop, Search or Skip

(Notes:

- Skip- This function is for a fast search. It searches the program's start point and then plays. On skipping, Search (▶▶, ◀◀), Pause (⏸) and Play (▶) are displayed on the Control Panel. In some models, it's not available to operate the Skipping (◀◀, ▶▶) function.

IEEE 1394 functions continued

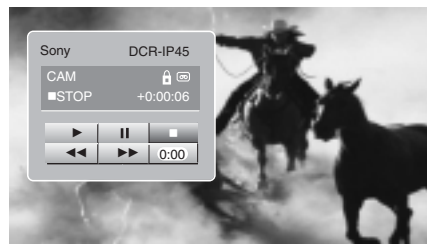
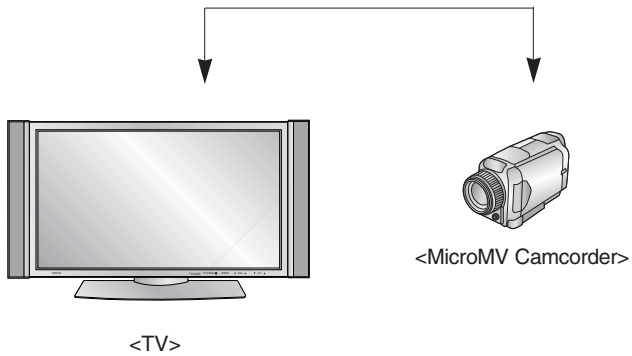
MicroMV Camcorder

How to play the MicroMV Camcorder

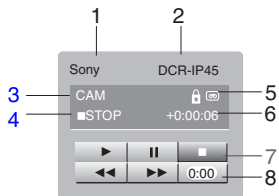
1. Connect the IEEE 1394 jack of the TV to the IEEE 1394 jack of the MicroMV Camcorder with IEEE 1394 Cable.

2. When watching the TV, press the **1394** button.

• Show the control panel of MicroMV Camcorder.



• The control panel of MicroMV Camcorder
-Depending on the connected equipment, marked control panel may differ.



1. MicroMV Camcorder Company
2. MicroMV Camcorder Model
3. Connected Equipment to the 1394
4. MicroMV Camcorder Operating Status
5. Tape Status
 - Tape shape Icon - Tape in or not
 - Lock shape Icon - Use or not use
6. MicroMV Camcorder Play Time
7. MicroMV Camcorder Play, Search or Stop
8. Initializing Play Time

* Supported MicroMV Camcorder List

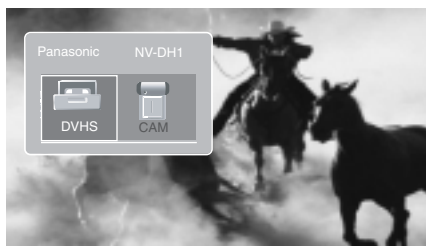
- SONY MICORMV IP-5
- SONY MICORMV IP-45
- SONY MICORMV IP-210
- SONY MICORMV IP-7
- SONY MICORMV IP-55
- SONY MICORMV IP-220

IEEE 1394 functions continued

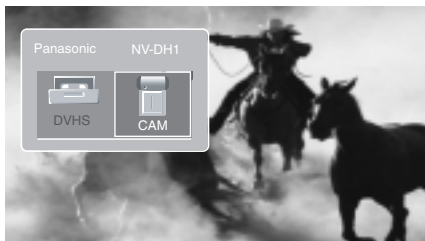
MicroMV Camcorder and DVHS

how to play the MicroMV Camcorder and DVHS

1. Synchronously, connect the IEEE 1394 jack of the TV to the IEEE 1394 jack of the DVHS and the MicroMV Camcorder with IEEE 1394 Cable.



2. Press the ◀ / ▶ button to select device, then press **ENTER** button to play it . And then selected device will be showed OSD.

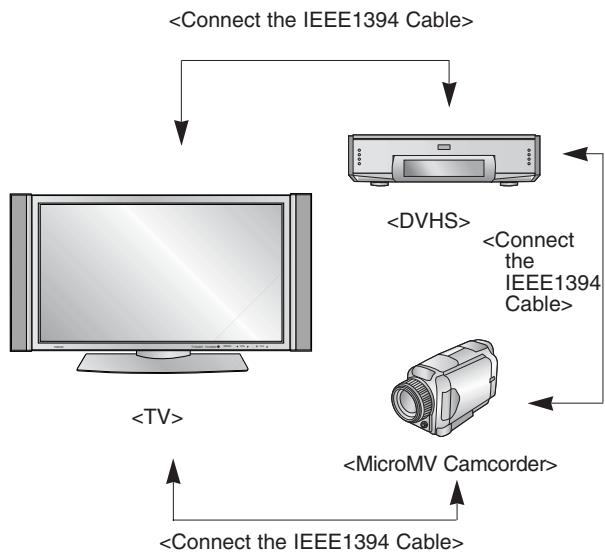


IEEE 1394 functions continued

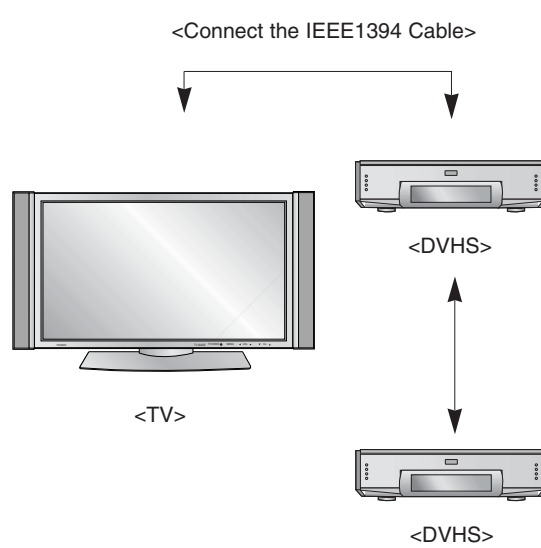
How to connect the 1394

- When connecting these 3 methods, the 1394 will not work properly.

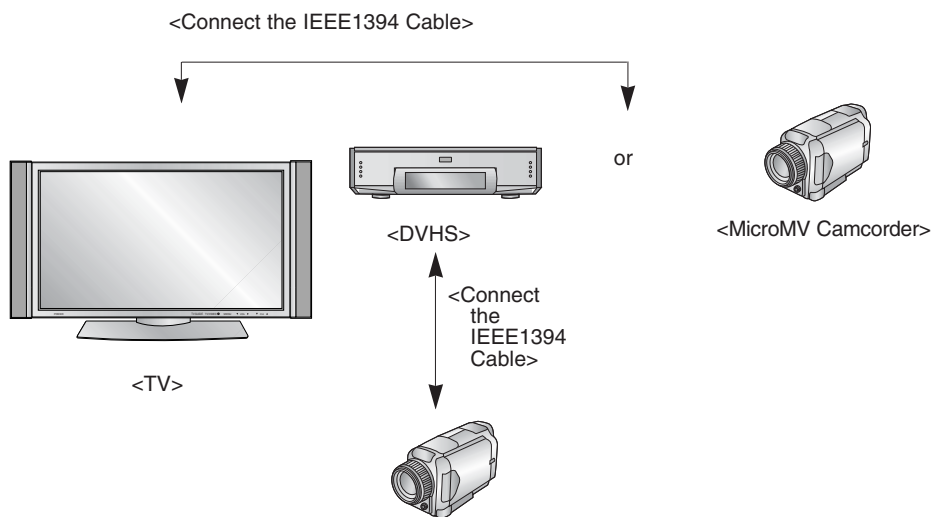
(a) LOOP Connection



(b) Daisy Chain



(c) MicroMV Camcorder Daisy Chain



TV Guide On Screen® System

Overview

- Your new TV contains the TV Guide On Screen Interactive Program Guide.
- The TV Guide On Screen system has features that help you get the most out of your viewing experience.

TV Guide On Screen Overview

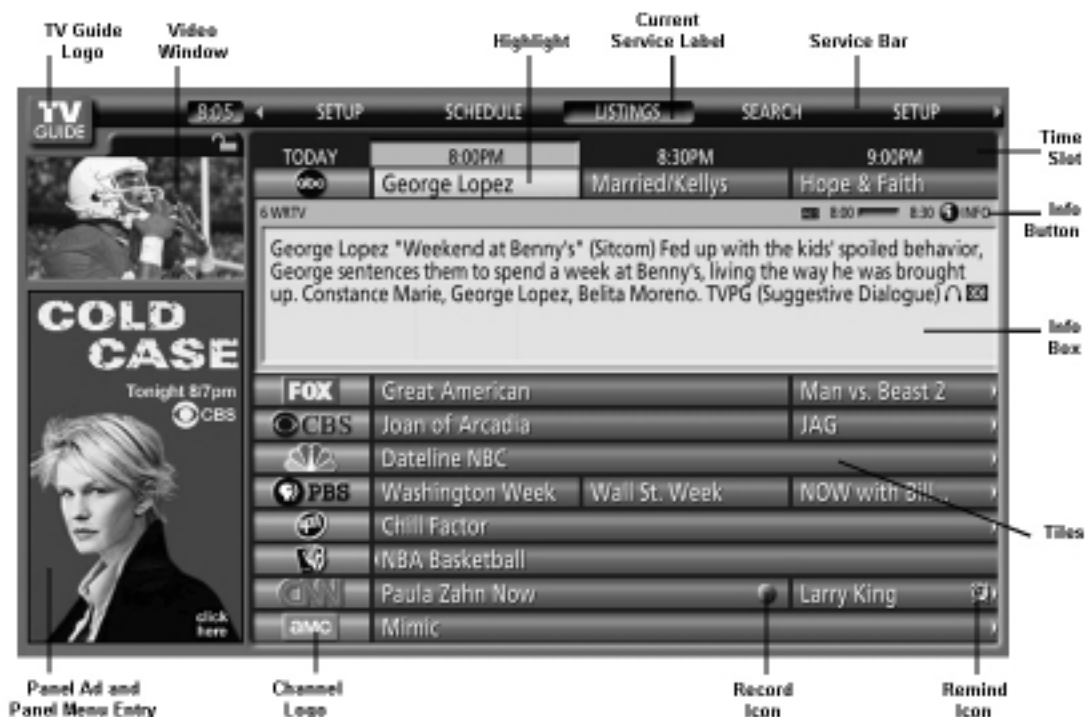
The TV Guide On Screen system has the following features:

- Eight days of show listings (today plus seven days).
- Icons that indicate show rating, stereo, HDTV, new episode, etc.
- Intuitive up/down/left/right navigation using your remote control.
- Set shows to Record.
- Schedule show Reminders.
- Search shows by category (e.g., Movies, Sports, Children, etc.).
- Search for shows based on keywords or alphabetically by title.
- Direct tuning to a channel.
- Show information while watching TV.
- Streamlined System Setup and default setting options.
- Channel lineup customization.
- Help screens while in the Guide.

TV Guide On Screen® System continued

Screen Components

- The screens displayed in the TV Guide On Screen system share many of the same components, as shown in the following figure:



- Video Window** - displays TV video while the Guide is displayed
- Service Bar** - provides access to the 4 main Guide Services
- Current Service Label** - indented to indicate current Service displayed
- Tile** - displays show title
- Highlight** - indicates an active tile
- Info Box** - provides information for a highlighted item
- Info Button** - cycles through the various Info Box sizes
- Channel Logo** - identifies network
- Record/Remind Icons** - indicates a show is set to Record or set as a Reminder
- Panel Ad** - location where show- or product-specific information appears (and also where Panel Menu appears)

TV Guide On Screen® System continued

• Panel Menu



- A Panel Menu appears when the Menu key is pressed on a highlighted tile and additional options are available. It also appears when you press **ENTER** on a show starting in the future.
- When a Panel Menu appears, the highlighted tile changes color to indicate the Panel Menu relates to this tile.
- The Panel Menu displays below the Video Window.
- Help is available for a displayed Panel Menu by pressing the **INFO** button.
- The **▲ / ▼** button move between the options within the Panel Menu.
- The left and right arrows move to adjacent options unless the highlight is on an odometer, where these arrows change the odometer choice.
- Pressing **ENTER** from an odometer or number entry box moves the highlight to the default command button of that Panel Menu, for example, Schedule Reminder.
- Pressing **ENTER** from a highlighted command button executes the action and closes the Panel Menu (e.g., Schedule Reminder, Cancel).
- Select Cancel to cancel any changes and press **ENTER** to close this menu.
- Pressing Menu is a shortcut to Cancel. Press Menu to cancel any changes and close the menu.
- If a Panel Menu contains more menu options than can be displayed on a single screen, **▲ / ▼** button appear at the top or bottom of a menu. Simply scroll down to access these options.

TV Guide On Screen® System continued

Main Services

< Listings >

- Access Listings by pressing the TV Guide button on your remote or on the front panel of your TV.
- Listings is always the first Service displayed in the Guide.
- With Listings highlighted, press the Info button to display a Help screen. Press the Info button again to close the screen.

Use the ▲ / ▼ / ◀ / ▶ buttons to move the highlight within Listings to:

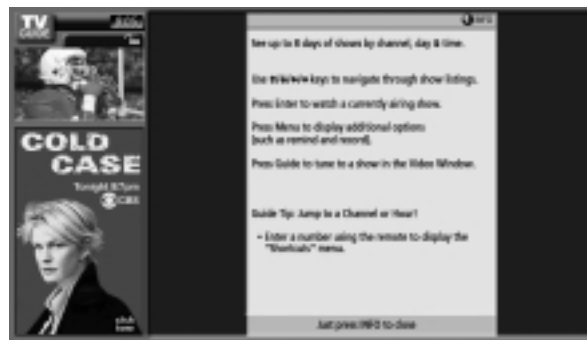
- View 8 days of show listings
- Read show descriptions
- Tune directly to a show currently airing
- Set a show to Remind
- Set a show to Record
- Lock and unlock the Video Window
- Access Panel and Channel Ads

Notes: There may be times when the TV Guide On Screen system could display partial or no program listings. The reasons for this include:

- Program schedule information was not provided to TV Guide On Screen.
- The transmission of the program listings was interrupted.

The phrase "No Listings" will be replaced with program information during the next transmission, which should occur within the next 24 hours.

Please remember to turn off your TV when not in use in order to receive program listings.



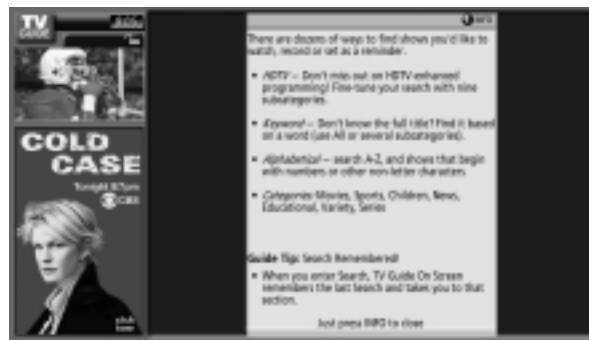
TV Guide On Screen® System continued

< Search >

- Search lets you find shows by category (Alphabetical, Movies, Sports, Children, Educational, News, Variety, Series, HDTV) or by Keyword.
- With Search highlighted, press the Info button to display a Help screen.
Press the Info button again to close the screen.

•Category Search Example: Movies

1. From Search, use the ▼ button to highlight Movies.



TV Guide On Screen® System continued

2. Use the ▼ button to highlight a subcategory (for example, All).

3. Press **ENTER** to display a list of all Movies, organized by date and time.



4. Highlight a show and press **ENTER** to watch (if on now) or the Menu key to display the Episode Options menu.



You can choose to set a recording, a reminder, or tune to the channel.

Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar.

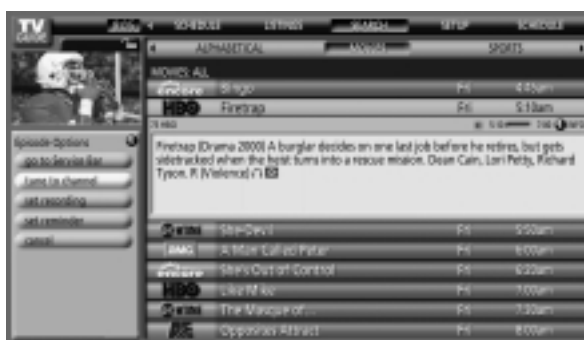
Tune to Channel - exits the Guide and tunes to the channel of the highlighted show (show airs in the future).

Note: This option reads Watch Now if the show is currently airing.

Set Recording - displays the Record Options menu, from which you can set frequency, start and end time, etc.

Set Reminder - displays the Remind Options menu, from which you can set frequency, when, automatically power On, and auto-tune the TV.

Cancel - closes the menu, changes no information, and returns to the highlighted show.



TV Guide On Screen® System continued

• Keyword Search

- **Keyword search** lets you enter a word(s) to look for a particular show by category or for every show title that matches.

1. Highlight the Keyword navigation label, and press **ENTER** button to display the Keyword **Search** menu.
2. Highlight New Search, and press **ENTER** button.



3. The Search Options menu is displayed.
4. Highlight Category, and use the ◀ / ▶ button to select a category to search (e.g. All, HDTV, Children, Sports, etc.). When finished, use the ▼ button to highlight Enter Keyword.
5. Highlight Enter Keyword, and press **ENTER**. Then the keyboard is displayed.



6. Use the ▲ / ▼ / ◀ / ▶ button to highlight a character, and press **ENTER** to display it. When complete, highlight Done and press **ENTER**.

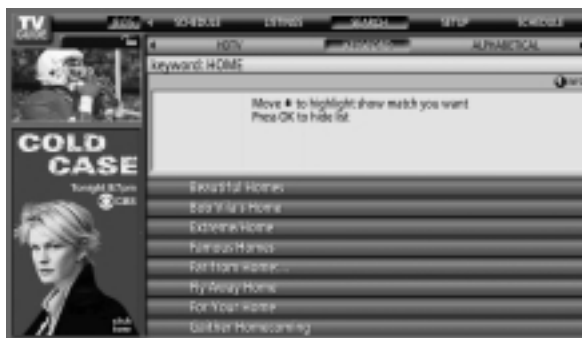


TV Guide On Screen® System continued

7. A list of all matching shows for that keyword is displayed.

Like the Category Search Example, you can highlight a show, and press **ENTER** to display all airings. You can then highlight a specific listing and press **ENTER** to watch (if On now) or the Menu key to display the Episode Options menu.

From the Episode Options menu, choose to set a recording, a reminder, or tune to the channel, as previously described.



The TV guide on screen system stores all the keywords you create. To edit or delete a keyword, highlight the keyword and press the Menu key. A Search Options menu is displayed.



Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar.

Edit Search - displays the keyboard, where you can change the keyword.

Delete Search - A Confirm menu is displayed.

- Yes** - deletes the Search

- No** - closes the panel menu

Cancel - closes the menu, changes no information, and returns to the highlighted show.








TV Guide On Screen® System continued

< Schedule >






- Schedule lets you review, edit, or delete Record and Remind events that you set previously.
- With Schedule highlighted, press the **Info** button to display a Help screen. Press the **Info** button again to close the screen.
- An icon identifies the event type:

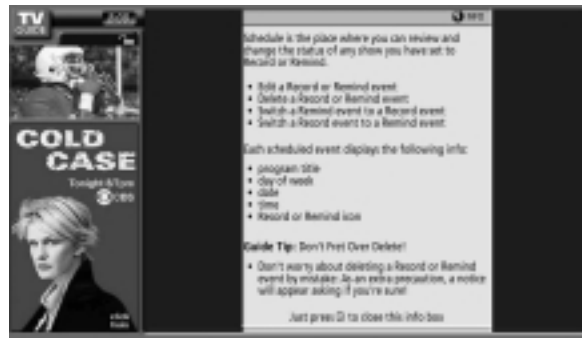
Record

- ◆ Once —records the show one time
- ◆ Regularly  , Daily —records the show every time the show airs on the same channel and starts at the same time
- ◆ Weekly —records the show each time the show airs on the same day of the week, on the same channel and starts at the same time
- ◆ Off —keeps the show in the list but will not record this show until the frequency is changed.



Remind

- ◆ Once —sets a show reminder one time
- ◆ Regularly  , Daily —sets a show reminder every time the show airs on the same channel and starts at the same time
- ◆ Weekly —sets a show reminder each time the show airs on the same day of the week, on the same channel and starts at the same time
- ◆ Off —keeps the show in the list but will not remind until the frequency is changed



Highlight an event, and press the Menu key for options.

Go to Service Bar - closes the menu, changes no information, and returns to the Schedule Service Bar.

Tune to channel - exits the tv guide on screen system and tunes to the highlighted show.

Delete Recording - removes the recording from the Schedule, after a Confirm screen.

Edit Recording - opens a menu from which you can change existing recording information.

Set Reminder - opens a menu from which you can set a Reminder for the show (Record is not cancelled).

Cancel - closes the menu, changes no information, and returns to the highlighted show.



TV Guide On Screen® System continued

< Setup >

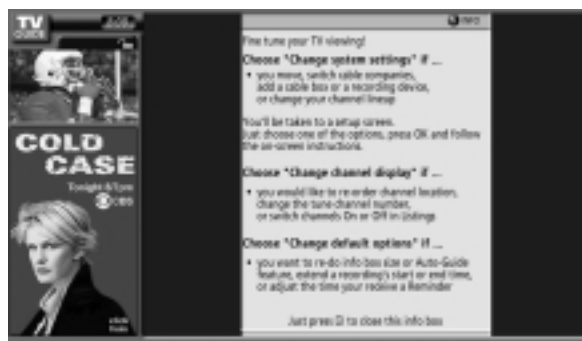
- After you initially complete Guide Setup, you can make changes to Guide settings in the following areas:

- Change System Settings
- Change Channel Display
- Change Default Options

Highlight a choice, press **ENTER**, and follow the on-screen instructions.



With Setup highlighted, press the **Info** button to display a Help screen. Press the **Info** button again to close the screen.

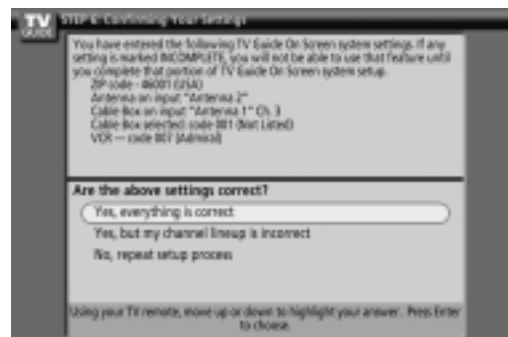
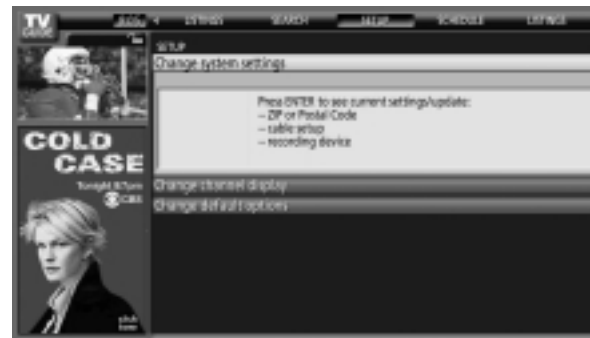


• Change System Settings

This option appears after you have completed the initial Guide Setup process.

Press **ENTER** to display the Confirming Your Settings screen. You see your current settings.

Choose one of the options, press **ENTER**, and follow the on-screen instructions.

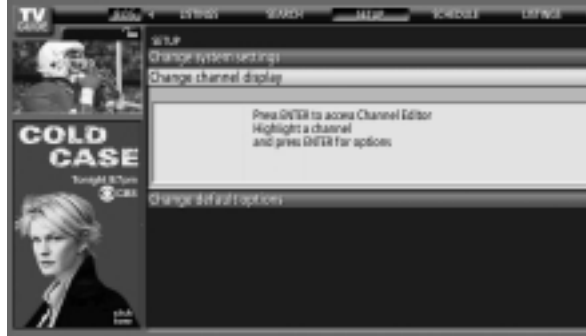


TV Guide On Screen® System continued

• Change Channel Display

Change Channel Display lets you edit channel information that appears in Listings. With Change Channel Display you can :

- Re-order the position or the channel appears in Listings
- Change the tune channel number
- Switch a channel
 - ◆ On - the channel is always displayed
 - ◆ Off - the channel is never displayed
 - ◆ Auto-Hide - the channel is only displayed when program information is available.



Press **ENTER** to display the Channel Editor screen.

Then, highlight a channel and press Menu. A Grid Options menu is displayed.

Highlight Go Back to Setup to close the menu, change no information, and return to the Setup Service Bar.

Or make changes and when finished, press **ENTER** to highlight Done. Press **ENTER** again to close the menu and accept the changes.

Highlight Cancel to close the menu, change no information, and return to the highlighted channel.



TV Guide On Screen® System continued

• Change Default Options

Change Default Options lets you change default settings in the following categories:

- General Default Options
- Record Defaults
- Remind Defaults

Highlight Change Default Options, and press **ENTER**.



<General Default Options>

General Default Options lets you set defaults for the following:

- The initial Info Box size when the TV guide on screen system is entered.
Choices are No, Small, Large, and Last Used (Default = Last Used).
- The Info Box size rotation when the Info key is pressed while in the TV guide on screen system.
Choices are No only, Small only, Large only, No & Small, No & Large, Small & Large, All (Default = All)
- Automatic entry into the TV guide on screen system (Auto-Guide) when the TV is powered On.
Choices are On and Off (Default = On).

Highlight General Default Options, and press the Menu key to display the General Default Options menu.

Highlight Go to Service Bar to close the menu, change no information, and return to the Setup Service Bar.

When finished, press **ENTER** to highlight Done. Press **ENTER** again to close the menu and accept the changes.

Highlight Cancel to close the menu, change no information, and return to the highlighted option.

