PLASMA TV

OWNER'S MANUAL

MODELS: DU-42PX41X/51X

DCR   DOLBY DIGITAL   HDTV

TV GUIDE   SRS TruSurround XT DIGITAL   HDMI HIGH DEFINITION MULTIMEDIA INTERFACE   XD ENGINE

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 :

LG Electronics U.S.A., Inc.

Warning/Caution

WARNING/CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING/CAUTION:

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/CAUTION:

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

FCC NOTICE

- **A Class B digital device**

  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 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

WARNING/CAUTION
TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus. This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction :

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 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 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.**

PORTABLE CART WARNING

Safety Instructions continued

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 the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.

15. CAUTION concerning the Power Cord :

    Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

    Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

    Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

16. Outdoor Use Marking :
    WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture.

17. Wet Location Marking :
    Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

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.
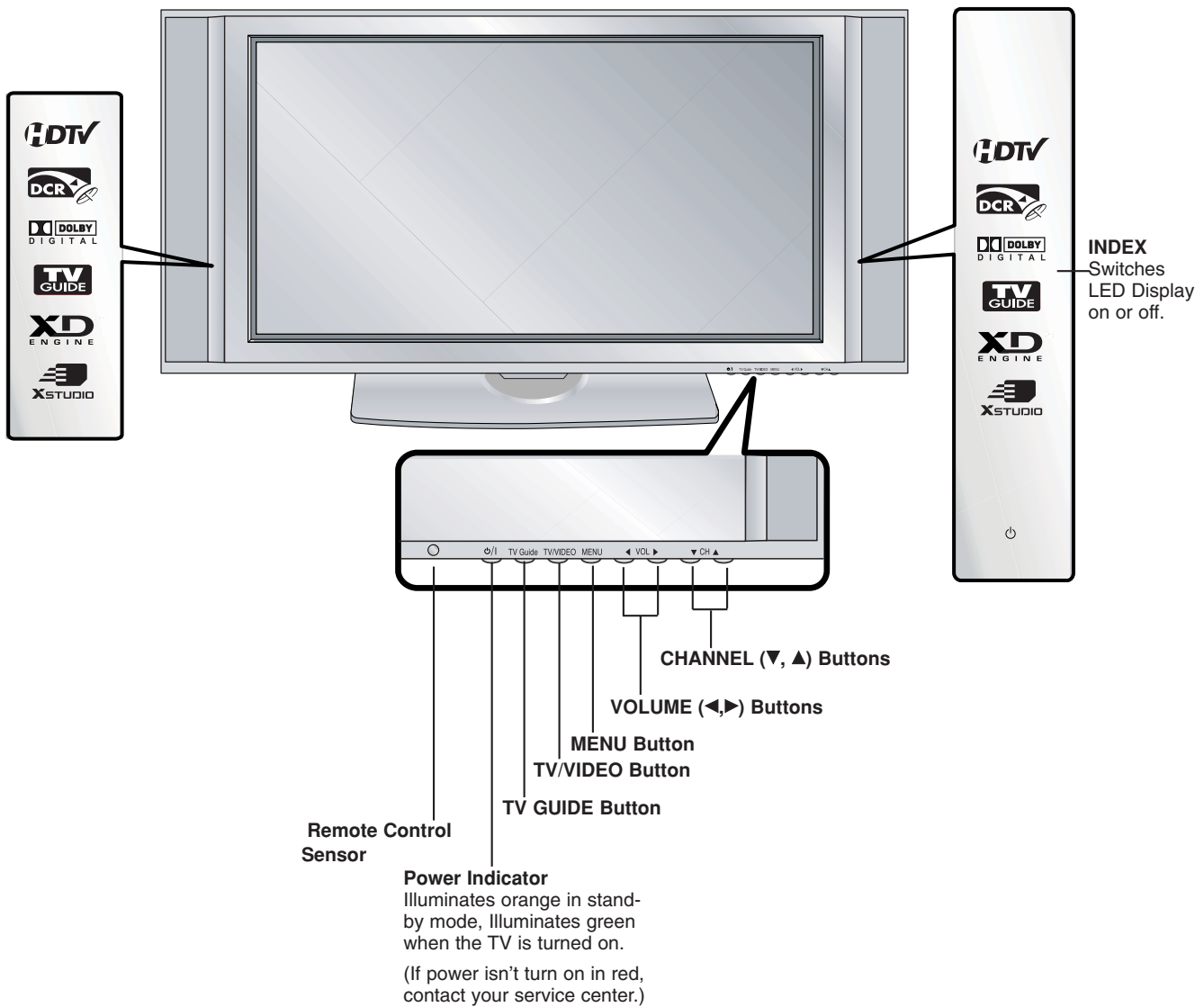
Cooling Fan Noise

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.
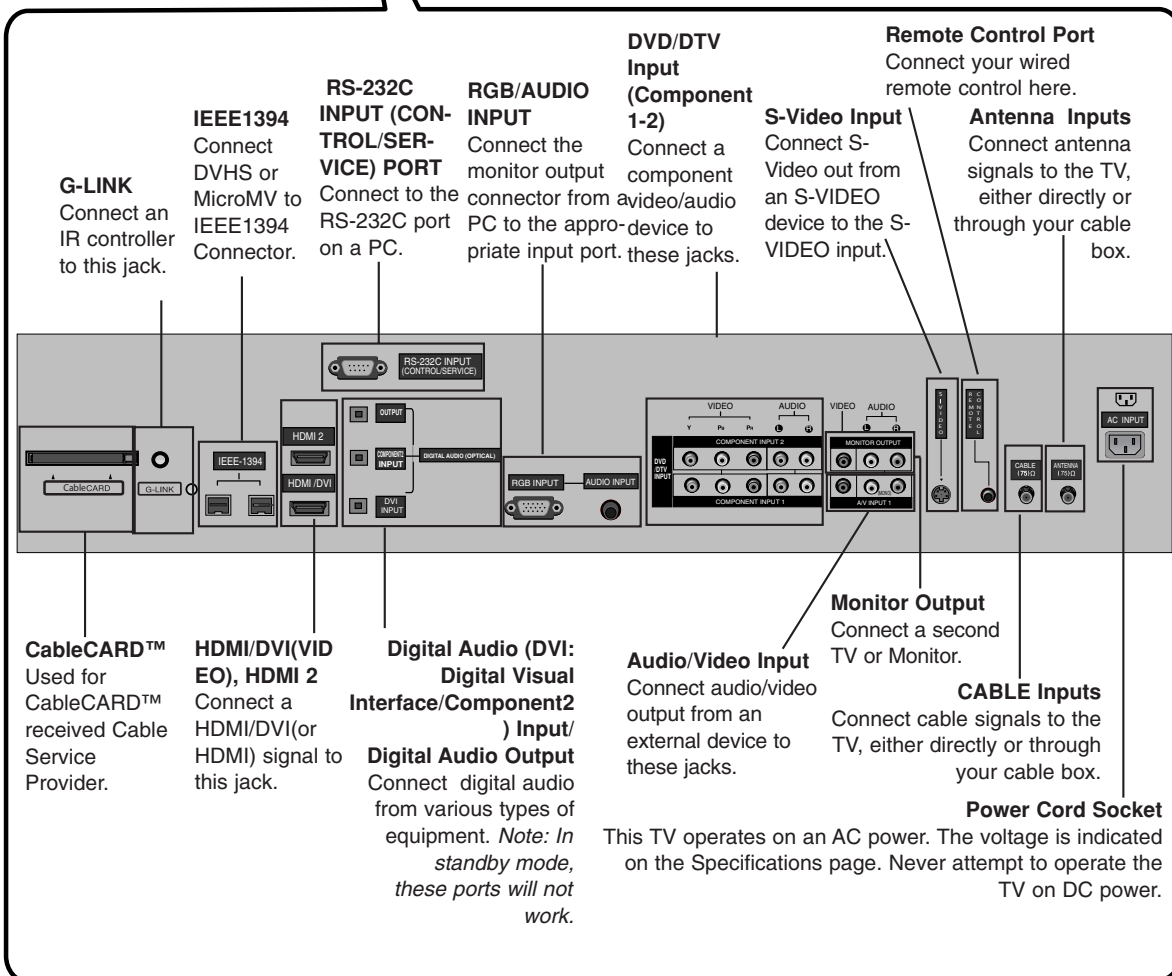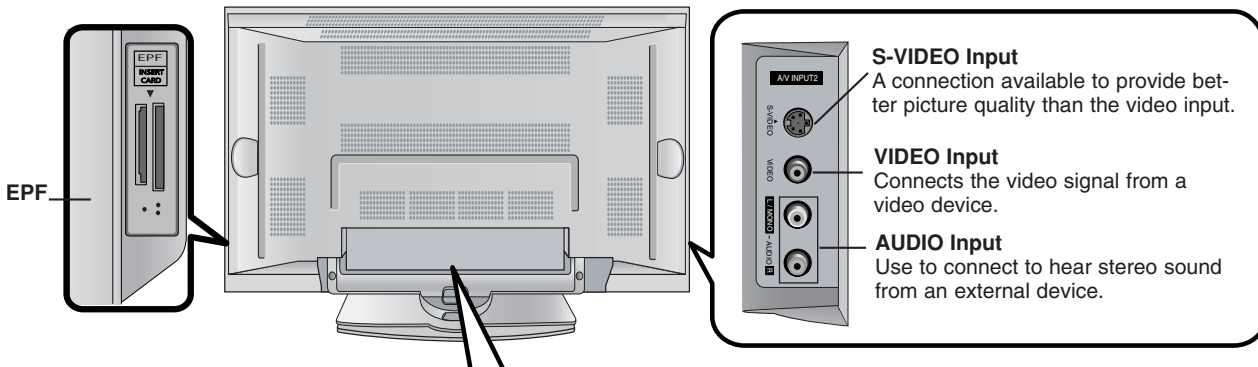
Controls

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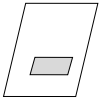 Here shown may be somewhat different from your TV.

Front Panel Controls

INDEX
Switches
LED Display
on or off.

CHANNEL (▼, ▲) Buttons

VOLUME (◀,▶) Buttons

MENU Button

TV/VIDEO Button

TV GUIDE Button

Remote Control Sensor

Power Indicator
Illuminates orange in stand-by mode, Illuminates green when the TV is turned on.

(If power isn't turn on in red, contact your service center.)

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.

EPF

G-LINK
Connect an IR controller to this jack.

IEEE1394
Connect DVHS or MicroMV to IEEE1394 Connector.

RS-232C INPUT (CONTROL/SERVICE) PORT
Connect to the RS-232C port on a PC.

RGB/AUDIO INPUT
Connect the monitor output connector from PC to the appropriate input port.

DVD/DTV Input (Component 1-2)
Connect a component video/audio device to these jacks.

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

Remote Control Port
Connect your wired remote control here.

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

CableCARD™
Used for CableCARD™ received Cable Service Provider.

HDMI/DVI(VIDEO), HDMI 2
Connect a HDMI/DVI(or HDMI) signal 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.*

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

Monitor Output
Connect a second TV or Monitor.

CABLE Inputs
Connect cable 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.

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	**1.5V 1.5V** Batteries	Power Cord	75Ω Round Cable
Remote Control	2-TV brackets 2-Wall brackets	2-TV bracket bolts	G-LINK Cable

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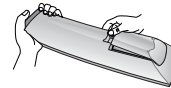
> Joining the TV assembly to the wall to protect the set tumbling

- Secure the TV assembly by joining it to a wall by using the TV/Wall brackets.
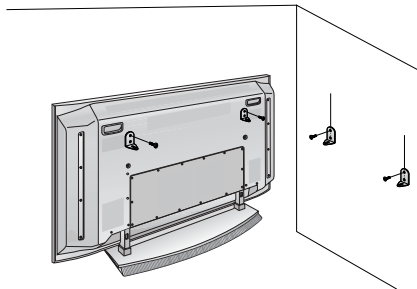
• After the set must be mounted on the desk top, install the TV brackets on the TV as shown.
 Install the TV brackets on the TV as shown.
Insert the 2 bolts and tighten securely, in the upper holes on the bracket.
Install the wall brackets on the wall with 4 bolts*, (not supplied with the product), as shown.
Match the height of the TV brackets and the wall brackets.
Check to be sure the brackets are tightened securely.
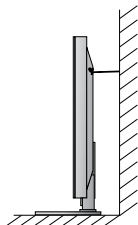
• Secure the TV assembly to the wall with strong strings or wound wire cables, (not supplied with the product), as shown.

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.
- It is recommended that DU-42PY10X model only be used at an altitude of less than 3281 feet (1000m) to get the best quality picture and sound.
- It is recommended that DU-42PY10XH model only be used at an altitude of less than 6561 feet (2000m) to get the best quality picture and sound.

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.

Power Supply

Short-circuit Breaker
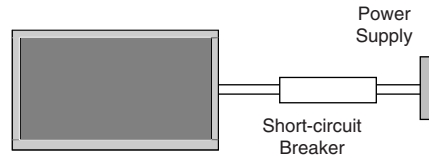
Wall Mount: Horizontal installation

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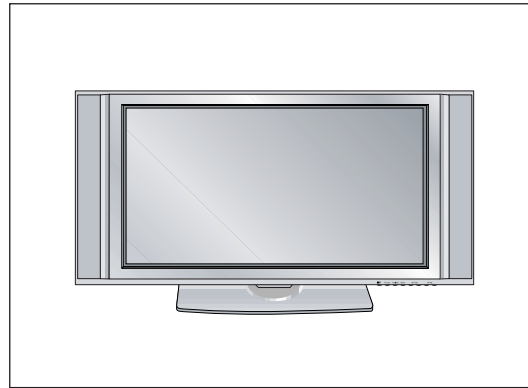
For proper ventilation, allow a clearance of 4" on each side and the top, 2.36" on the bottom, and 2" from the wall. Detailed installation instructions are included in the optional Desktop Stand Installation and Setup The tv guide on screen system available from your dealer.
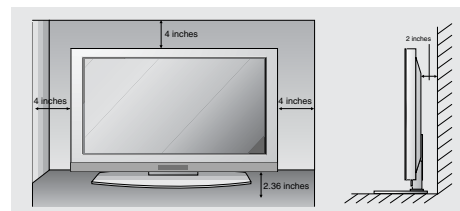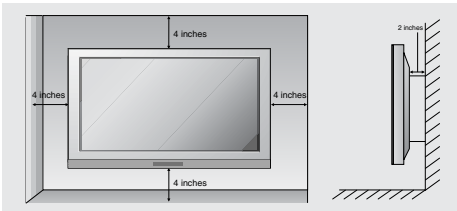
External Equipment Connections

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.

Multi-family Dwellings/Apartments
(Connect to wall antenna socket)

Wall Antenna
Socket

AC INPUT

CABLE
(75Ω)

ANTENNA
(75)Ω

Bronze Wire

RF Coaxial Wire (75 ohm)

VHF Antenna
UHF Antenna

Turn clockwise to tighten.

Bronze Wire

Outdoor
Antenna

Single-family Dwellings /Houses
(Connect to wall jack for outdoor antenna)

Be careful not to bend the bronze wire when
connecting the antenna.

2. Analog and Digital TV signals provided on cable

Cable TV Wall
Jack

RF Coaxial Wire (75 ohm)

S VIDEO

REMOTE CONTROL

CABLE
(75)Ω

ANT. A
(75 Ω)

Bronze Wire

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

Antenna

Bronze Wire

RF Coaxial Wire (75 ohm)

AC INPUT

Cable TV Wall Jack

Turn clockwise to tighten.

RF Coaxial Wire (75 ohm)

CABLE (75)Ω   ANTENNA (75)Ω

VHF   UHF
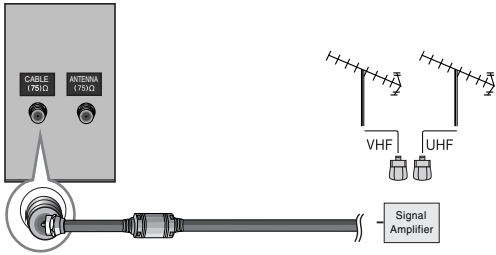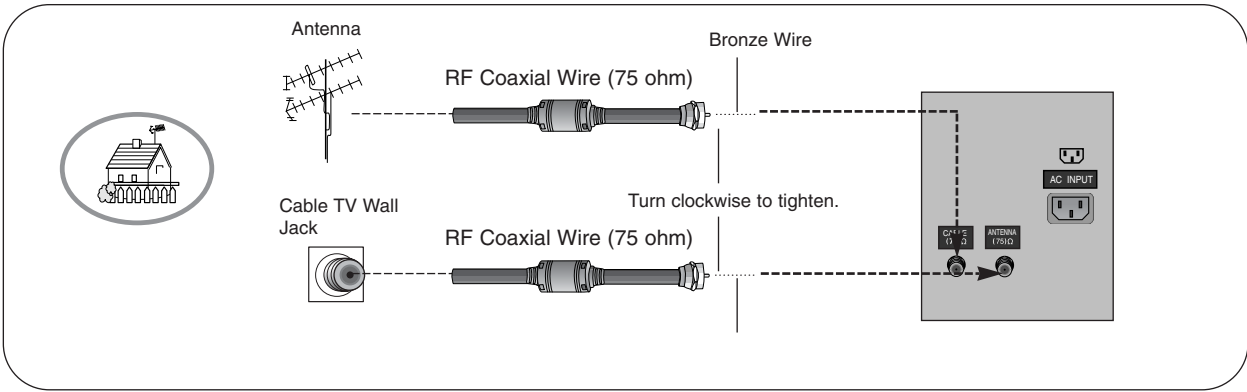
Signal Amplifier

• 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 output from VCR to the 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 **VIDEO** button on the remote control. (If connected to A/V INPUT , select **Video** input source)
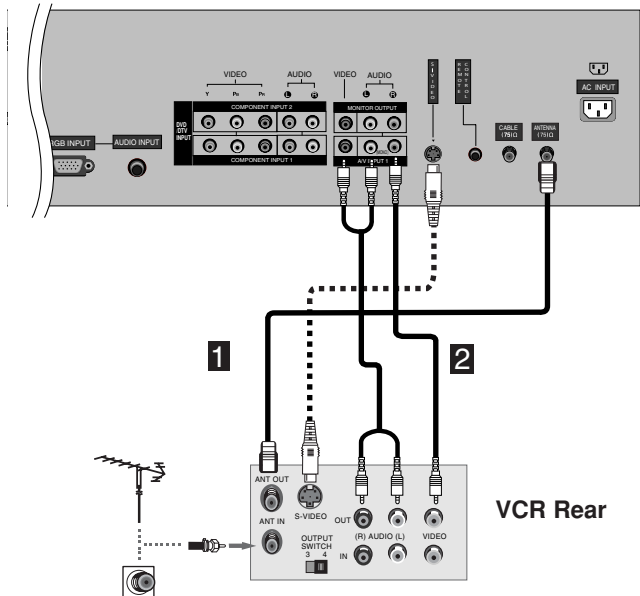
⚠ Do not connect to both Video and S-Video at the same time.

VIDEO   AUDIO   VIDEO   AUDIO

COMPONENT INPUT 2

MONITOR OUTPUT

RGB INPUT   AUDIO INPUT

COMPONENT INPUT 1

A/V INPUT 1

AC INPUT

CABLE (75)Ω   ANTENNA (75)Ω

1   2

ANT OUT

ANT IN   S-VIDEO   OUT   (R) AUDIO (L)   VIDEO

OUTPUT SWITCH   IN
3   4

VCR Rear

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 **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.

Camcorder

Video Game Set

DVD Setup

DVD

or

or
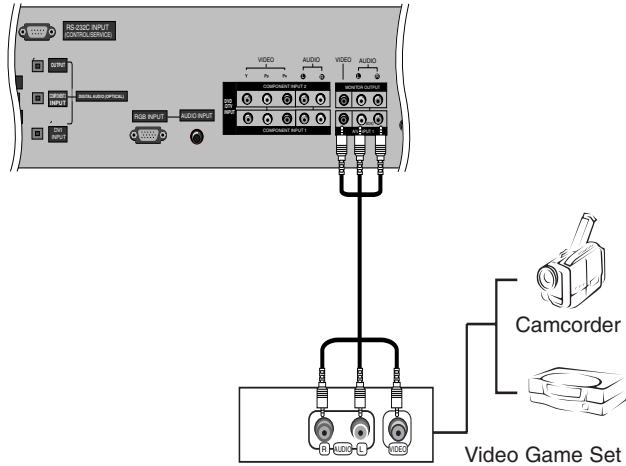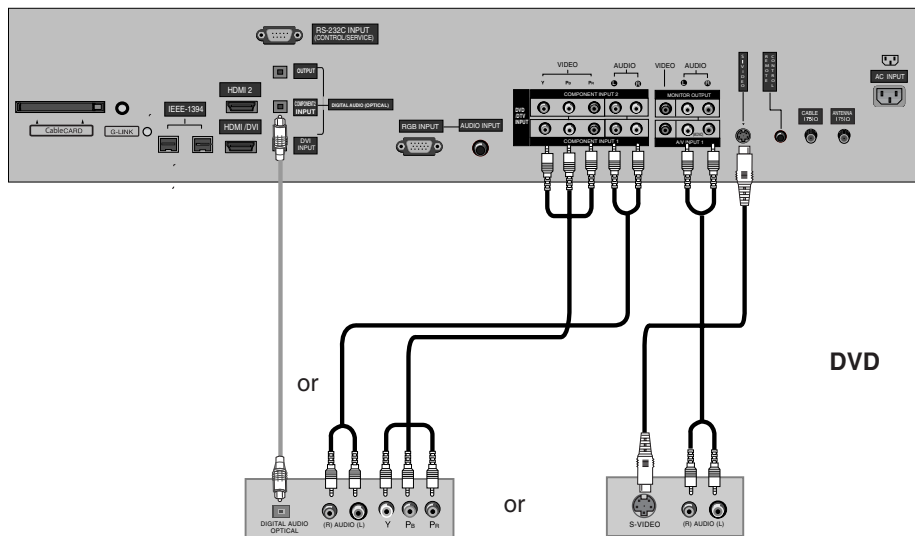
How to connect

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 **VIDEO** 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	PB	PR

Video output ports on DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	PB	PR

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.

Plasma TV

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™.
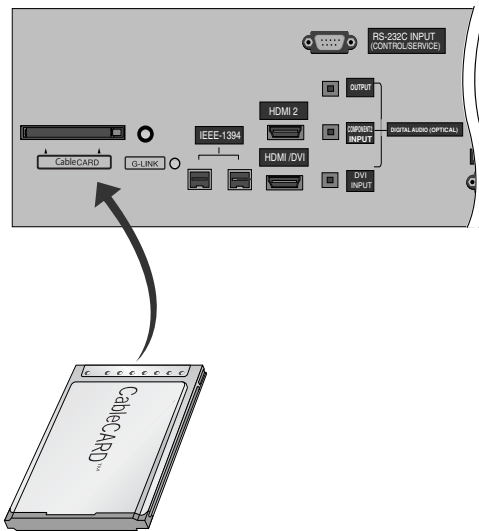
HDSTB Setup

- 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).
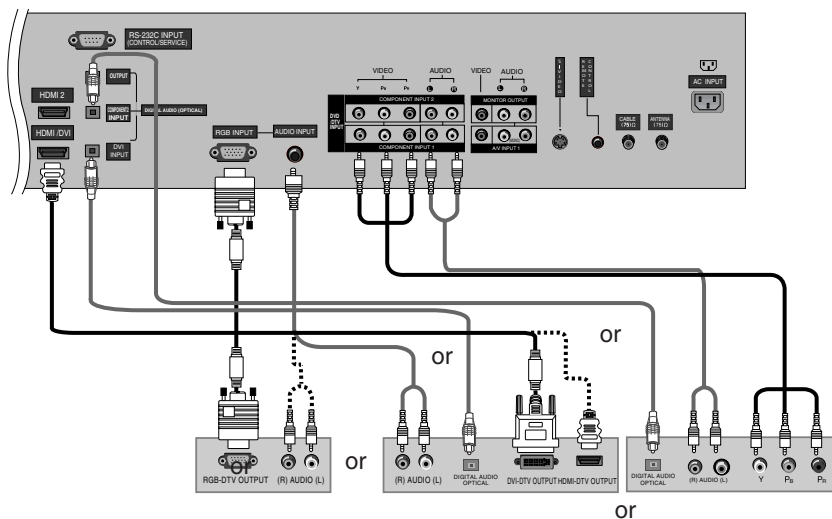
Digital Set-top Box

How to connect

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

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

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 **VIDEO** on the remote control to select **Component 1**,
   Component 2, **RGB-DTV**, or **HDMI**/**DVI** source.

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.
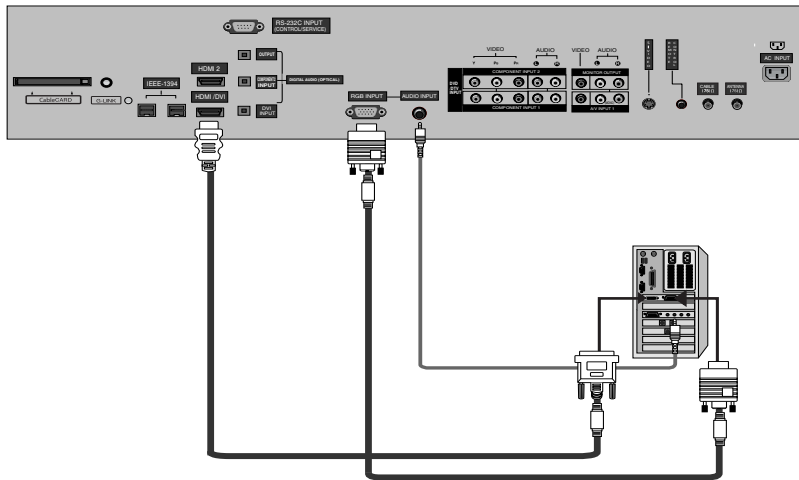
How to connect

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	60.00
	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
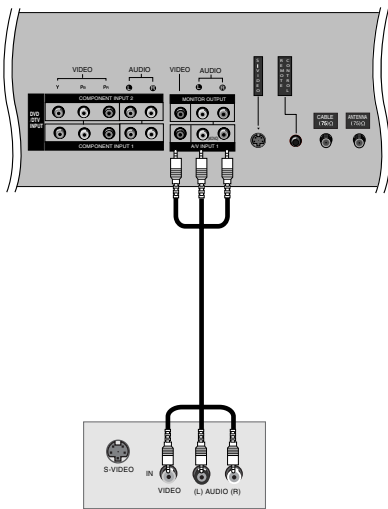
The TV has a special signal output capability which allows you to hook up a second TV or monitor.

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 65.
   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™
HIGH DEFINITION MULTIMEDIA INTERFACE
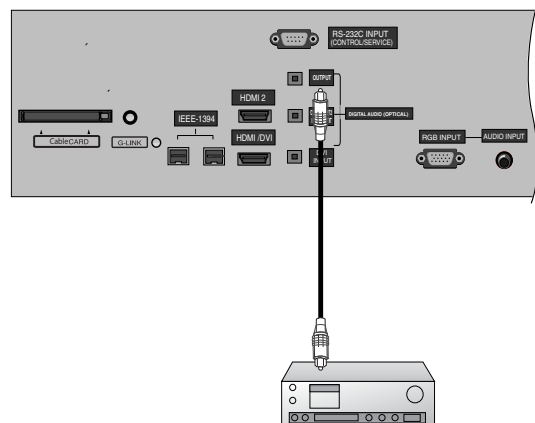
-HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."
-This TV SET can receive the High-Definition Multimedia Interface(HDMI) or Input of Digital Visual Interface(DVI).
-This TV SET supports HDCP(High-bandwidth Digital Contents 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, auto-matically, 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 support-ed 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 prod-uct).
- 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.
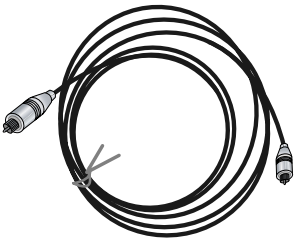
Reference

Cable sample
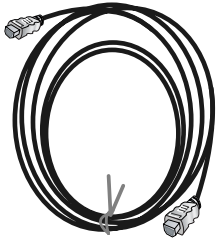
HDMI Cable
(not supplied with the product)
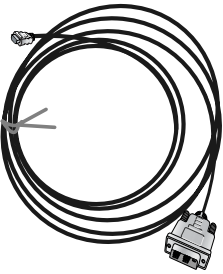
HDMI to DVI Cable
(not supplied with the product)

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.61)
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 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.*
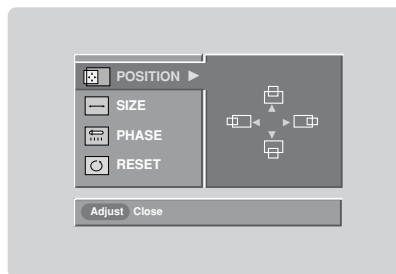
In This Mode, the Supported TV SET Resolution Specification

- 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

- 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
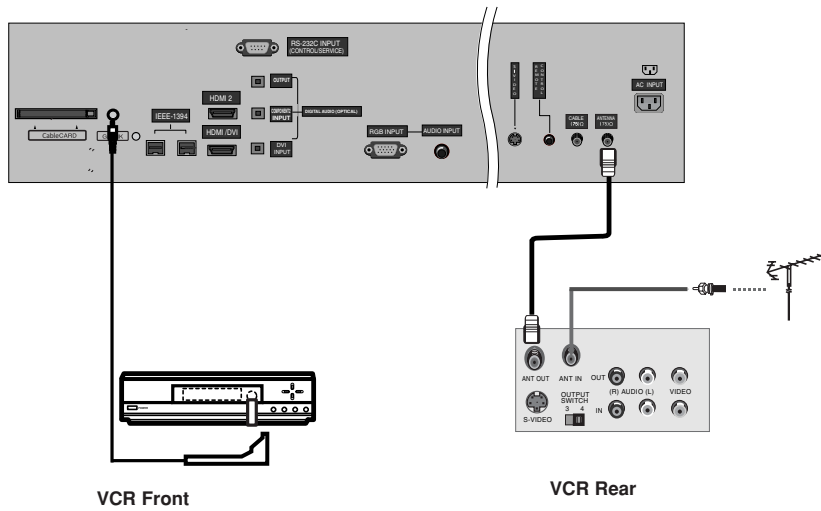
VCR Front

VCR Rear

2. Cable Service without a Cable Box
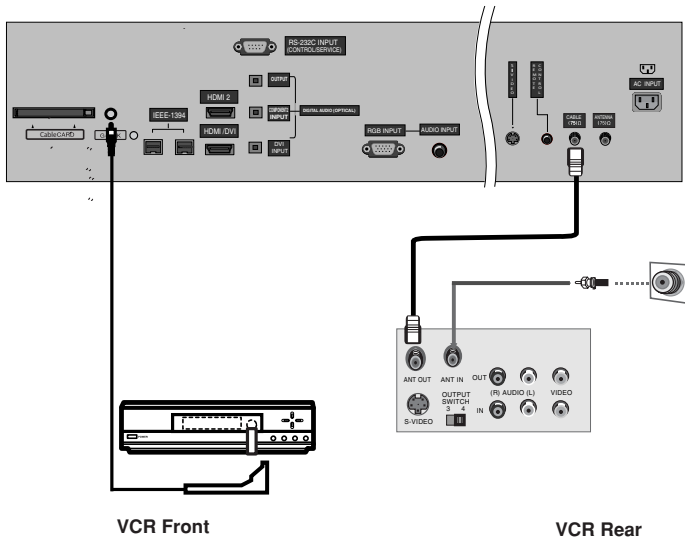
VCR Front

VCR Rear

3. Cable Service with a Cable Box
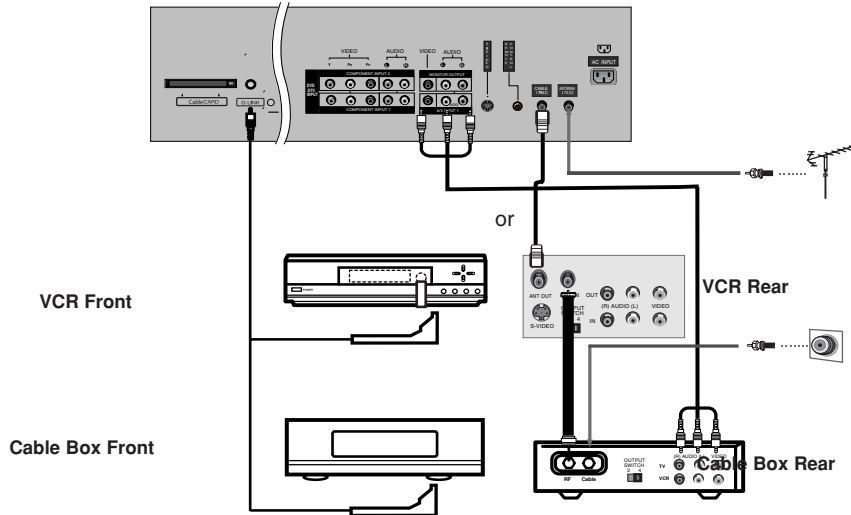
VCR Front

Cable Box Front

VCR Rear

Cable Box Rear

or

4. Antenna and Cable Service without a Cable Box

VCR Front

VCR Rear

5. Antenna and Cable Service with a Cable Box

VCR Front

VCR Rear

Cable Box Front

Cable Box Rear

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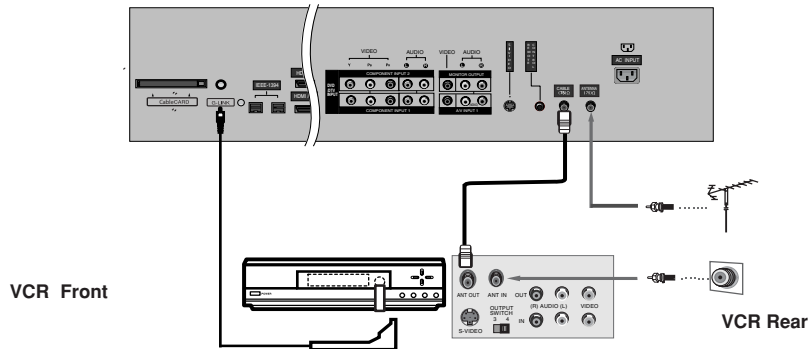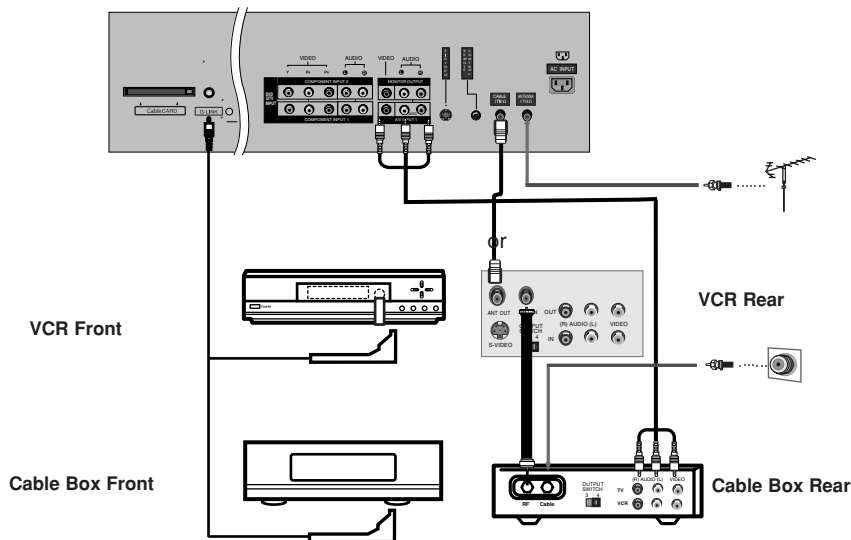
Note:
• *The G-LINK cable is necessary for the TV Guide On Screen system to work with your Cable Box and VCR. See Page 22~23 for G-LINK connection instructions.*

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.
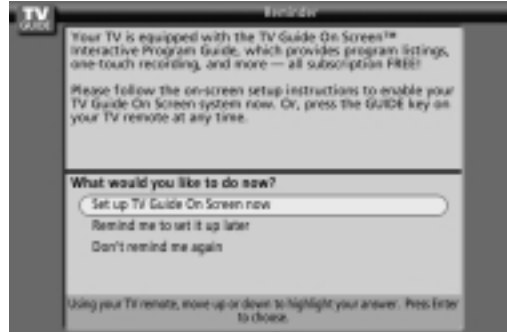
2.Welcome Screen

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.
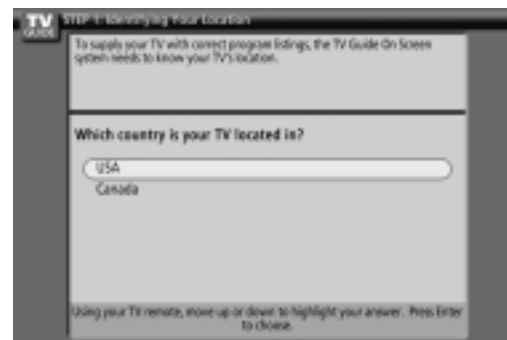
2. Screen 2: Enter Zip or Postal Code

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 ◄ / ► but-
ton to move to another field.
•Press **ENTER** to display Screen 3.
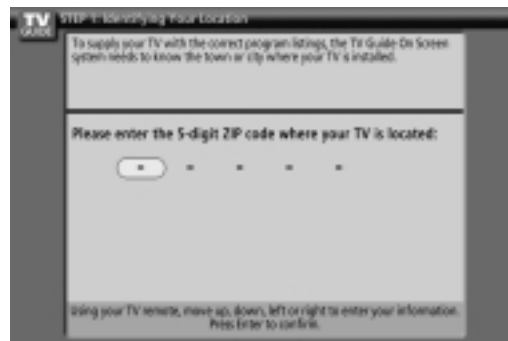
Option 2

•If you selected Canada in Screen 1, you see the Postal Code screen.
•You input characters by using the ▲ / ▼ button, and then the ◄ / ► but-
ton to move to another field.
•Press **ENTER** to display Screen 3.
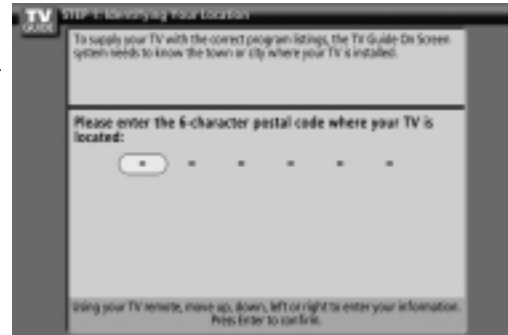
3. Screen 3: Do you have Cable?

•If you select Yes, you see Screen 4.
•If you select No, you see Screen 12.
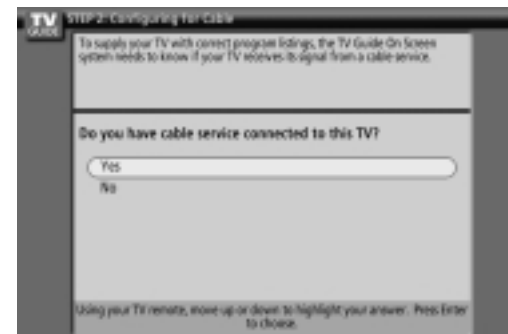
4. Screen 4: Do you have a Cable Box?

•If you select Yes, you see Screen 5.
•If you select No, you see Screen 12.
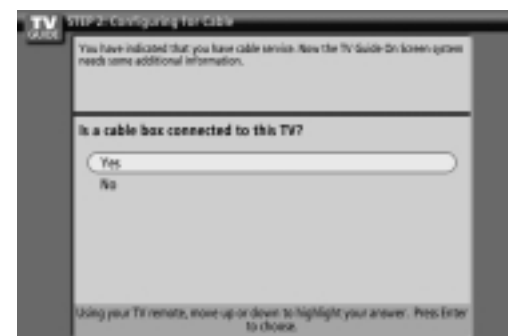
5. Screen 5: Which TV input is the cable box plugged into?

•If you select Cable, you see Screen 6.
•If you make any other choice, you see Screen 7 .
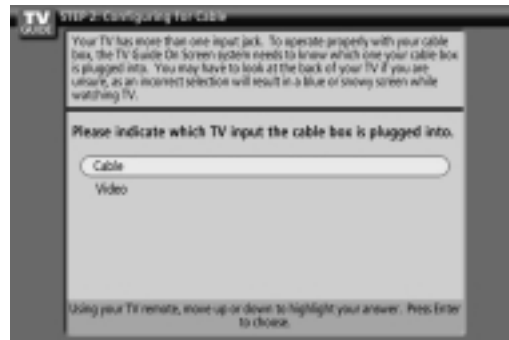
6. Screen 6: Cable Box Tuning Channel

•Select the channel used for the cable box.
•Press **ENTER** to display Screen 7.
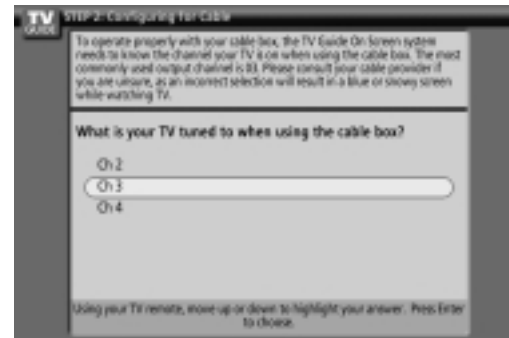
7. Screen 7: Cable Box Configuration Diagram

•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.
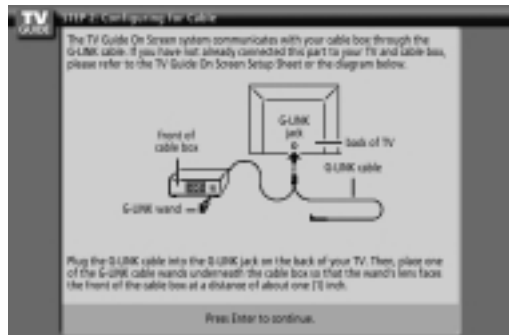
8. Screen 8: Cable Box Brand Name

•Use the ▲ / ▼ button to select a cable box brand.
•Press **ENTER** to display Screen 9.
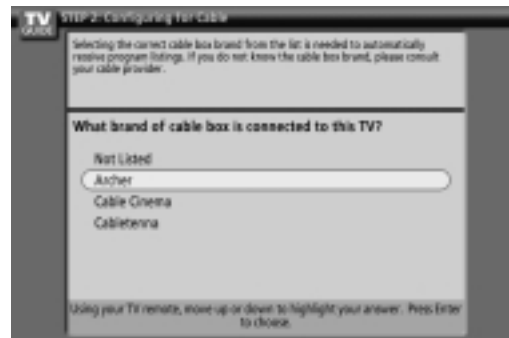
9. Screen 9: Cable Box Preparation

Follow the on-screen instructions, and press **ENTER** to display Screen 10.
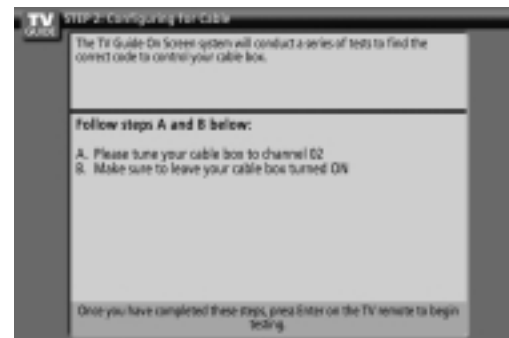
10. Screen 10: Cable Box Code Testing

When testing is done, Screen 11 displays automatically.
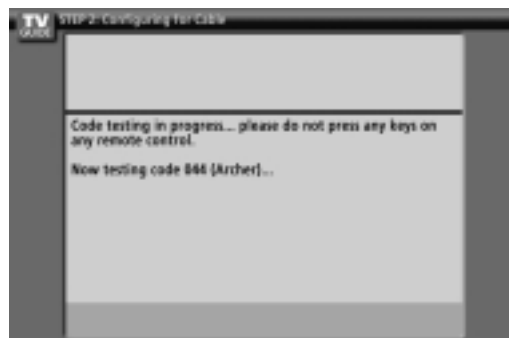
11. Screen 11: Cable Box Tuned to Channel 9?

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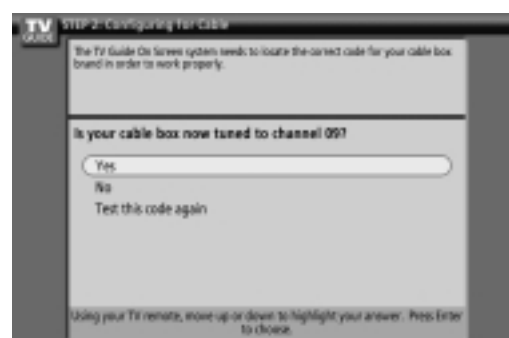
12. Screen 12: Do you have an antenna connected?

•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.
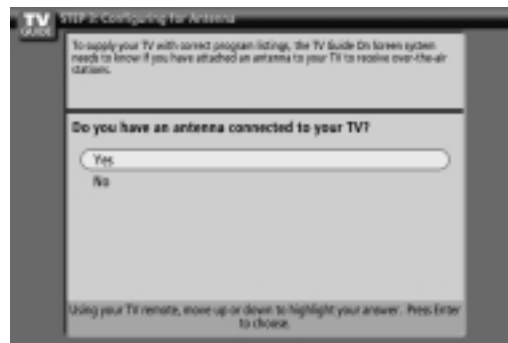
13. Screen 13: Are your basic settings correct?

•If you select Yes, you see Screen 14.
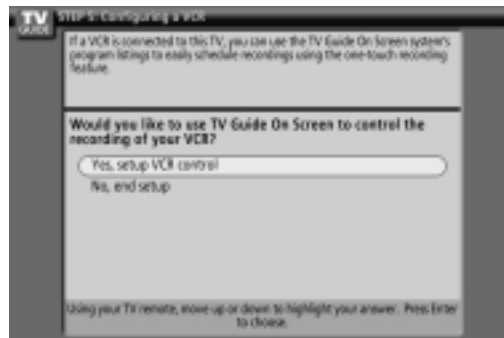•If you select No, you see Screen 1.
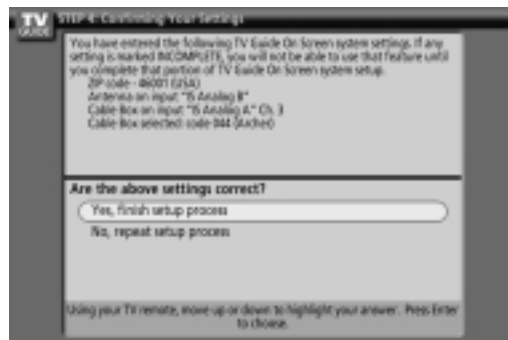
## 14. Screen 14: Congratulations

•Press **ENTER** to display Screen 15.

15. Screen 15: Is a VCR Connected?

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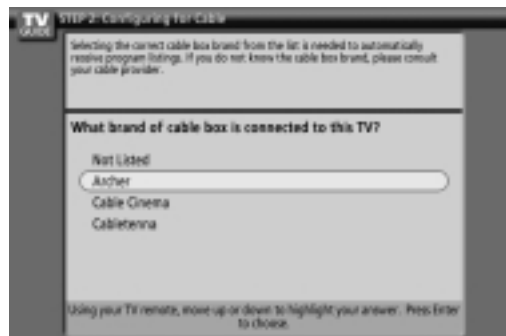•If you select No, you see Screen 21.

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.
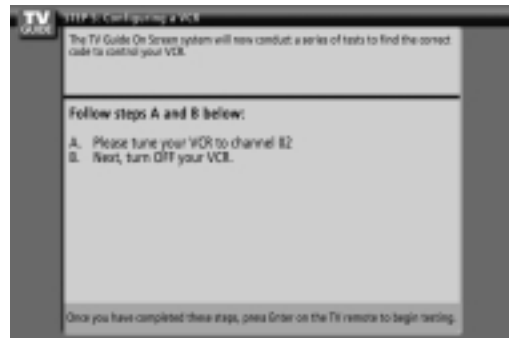•Press **ENTER**, and you see Screen 17.
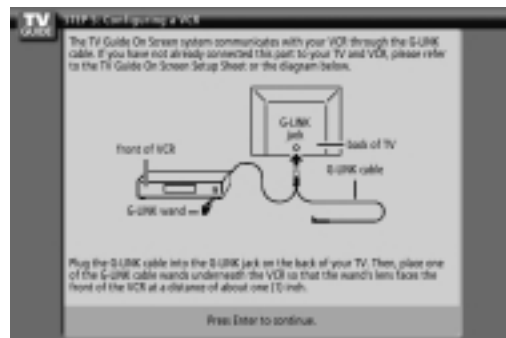
17. Screen 17: VCR Brand Name

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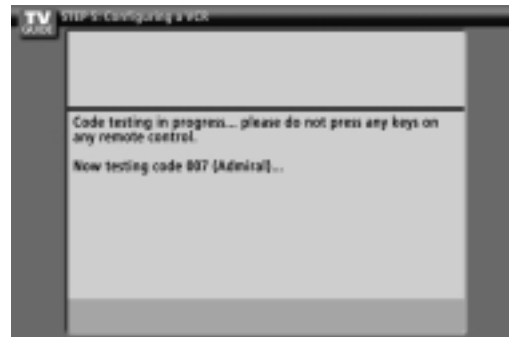•Press **ENTER**, and you see Screen 18.

18. Screen 18: VCR Preparation
 Follow the on-screen instructions, and press **ENTER** to display Screen 19.

19. Screen 19: VCR Code Testing
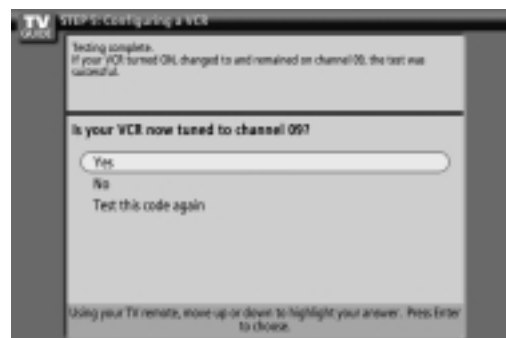 When testing is done, Screen 20 displays automatically.

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.
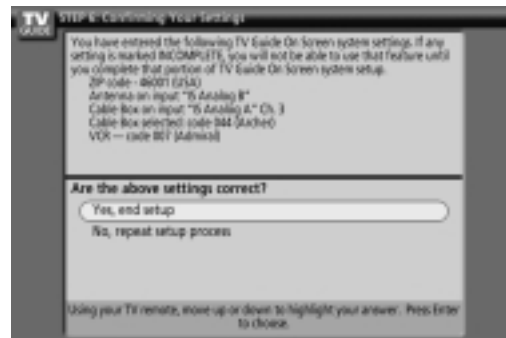
21. Screen 21: Confirming Your Settings

Verify the Setup information is correct.

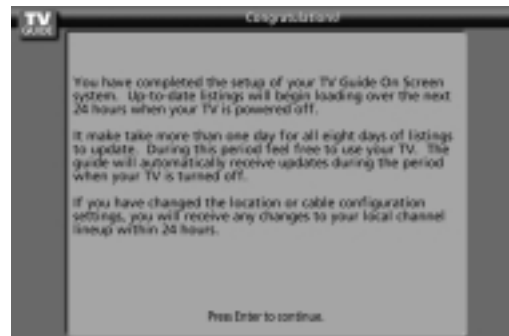If it is, select Yes, end setup, and you see Screen 22.

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.

Product Specifications

MODELS	DU-42PX41X	DU-50PX41
Width (inches / mm)	47.8 / 1216	55.2 / 1402
Height (inches / mm)	27.2 / 691	31.4 / 798.5
Depth (inches / mm)	10.7 / 271.4	11.9 / 302.5
Weight (pounds / kg)	88.54 / 40.16	122 / 55.3
Resolution	1024x768(Dot)	1366 x 768 (Dot)
Power requirement	AC100-240V ~ 60Hz	
Television System	NTSC-M, ATSC	
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135, CADTV 1 ~ 135. DTV 2 ~ 69	
External Antenna Impedance	75 Ω	
Color	16,770,000 (256 steps of each R, G and B)	
Operating Temperature Range	32 ~ 104°F (0 ~ 40°C)	
Operating Humidity Range	Less than 80%	
Maximum Elevation	6561 feet (2000m)	

- The specifications shown above may be changed without prior notice for quality improvement.