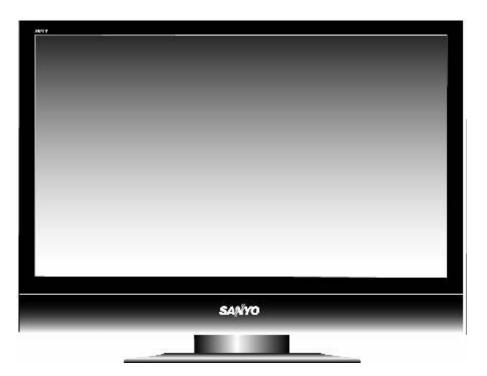


INSTRUCTION MANUAL

AVP-429

42 "* Plasma High-definition Colour TV with ATSC Digital Tuner



* Diagonal measure

Caution! Avoid image burn-in problems. Please consult page 40.

Help Line: 1-800-263-2244 Monday to Friday 9am-5pm (Eastern)

www.sanyo.ca

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



CAUTION-To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

FCC STATEMENT

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 commercial environment.

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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by the manufacturer could cause harmful interference and would void the user's authority to operate this device.

WARNING:

This is a CLASS B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to counter interference.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 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.

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

Before using your TV, please read these instructions completely, and keep this manual for future reference. Carefully observe and comply with all warnings, cautions and instructions placed on the unit or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the unit.

Power Sources

This unit should be operated only from the type of power source indicated on the information label.

If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company.

Grounding or Polarization

This unit is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a threewire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the unit with a three-wire grounding type AC power cord plug (Class 1 unit)



This unit must be connected to an AC power socket outlet with a protective earthing connection.

For the unit with a polarized AC power cord plug

This plug will fit into the power outlet only one way.

This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug.

If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

Wall outlet

Do not use a poor fitting outlet.

Insert the plug fully into the outlet. If it is loose, it may cause arcing and result in fire. Contact your electrician to have the outlet changed.



Wiring

For your safety, unplug the AC power cord when wiring cables.

Electric shock

Do not touch the AC power cord or the unit with a wet hand. If you plug/unplug the AC power cord from the unit with a wet hand, it may cause electric shock.

Never attempt to move the unit unless the AC power cord is disconnected.

Cleaning

- Clean the AC power plug regularly.
- If the plug is covered with dust and it picks up moisture, its insulation may deteriorate and result in fire. Unplug the AC power plug and clean it regularly.



- Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.
- Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth.

- Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Power

Always turn the unit off when it is not being used.

When the unit is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.

Sound

If a snapping or popping sound from the TV is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for TVs to make occasional snapping or popping sounds, particularly when being turned on or off.

AC Power Cord

If you damage the AC power cord, it may result in fire or electric shock.

- Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, and cause short-circuit, resulting in fire or electric shock.
- Do not convert or damage the AC power cord.
- Do not put anything heavy on the AC power cord. Do not pull the AC power cord.
- Keep the AC power cord away from heat sources.
- Be sure to grasp the plug when disconnecting the AC power cord. If the AC power cord is damaged, stop using it and replace with a new one.

Ventilation

The slots and openings in the TV are provided for necessary ventilation. To ensure reliable operation of the unit, and to protect it from overheating, these slots and openings must never be blocked or covered. Unless proper ventilation is provided, the unit may gather dust and get dirty. For proper ventilation, observe the following:

- Do not install the unit turned backward or sideways.
- Do not install the unit turned over or upside down.
- Never cover the slots and openings with a cloth or other materials.
- Never block the slots and openings by placing the unit on a bed, sofa, rug or other similar surface.
- Never place the unit in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Leave some space around the unit. Otherwise, adequate air-circulation may be blocked causing overheating and cause fire or damage the unit.

Heat sources

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not use this apparatus near water

For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.

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

Entering of objects and liquids

Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

Lightning

Unplug this apparatus during lightning storms or when unused for long periods of time.

For added protection for this television equipment 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. This will prevent damage to the equipment due to lightning and power-line surges.

Servicing

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

Replacement parts

In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

Attachments

Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

Damage requiring service

If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

- a. When the power cord or plug is damaged.
- b. When a liquid is spilled on the product or when objects have fallen into the product.
- c. When the product has been exposed to rain or water.
- d. When the product does not operate properly as described in the operating instructions.
 Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified
- technician. e. If the product has been dropped or the cabinet has been damaged in any way.
- f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

Safety checks

Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

Wall or ceiling mounting

When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

Panel protection

The panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the panel breaks.

Pixel defect

The panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Antennas

Outdoor Antenna Grounding

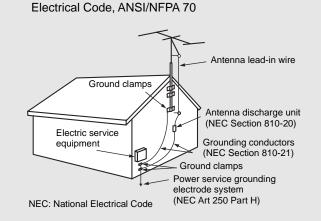
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect 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.

Antenna Grounding According to the National



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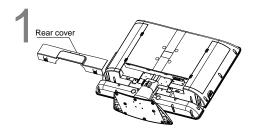
Thank you for choosing SANYO. This product incorporates latest-generation features including an ATSC digital tuner. Please read all instructions carefully to obtain maximum benefit of your product. Questions? Our toll-free number is 1-800-263-2244, 9am-5pm, Monday to Friday (Eastern time).

Remove the TV from the Box	 STOP! To safely remove the television from the box It s best to use 2 people to remove the television for stability. 1. Remove cardboard holders from the box. 2. Remove the cardboard; however, keep the wrapping on the television to protect it while moving. 3. Lift onto installation location as the diagram illustrates.
Installing the TV	 Select a steady platform with good ventilation to place the TV. Keep enough space above and behind the Display. The TV should be installed near an easily accessible power outlet. To prevent internal heat buildup, do not block the ventilation openings. Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration. Be sure to take measures to prevent the TV from toppling over and causing injury. To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.
	 Cautions: Do not install the TV in protruding locations. Do not install this unit in restaurants where oily vapors occur. Dust absorbing oil may enter into the unit and damage the unit. Do not install this unit outdoors. If the unit is exposed to rain, it may result in fire or electric shock. If the unit is exposed to direct sunlight, the unit may heat up and cause damage to the unit. Do not install this unit in a vehicle or hang from the ceiling. Bumping of the vehicle may cause the unit to fall down and cause injury. Do not install this unit in a ship or vessel. If the unit is exposed to seawater, it may cause fire or damage the unit. If you install the unit on a non-level surface, the unit may fall or drop and cause injury or damage. If you place the unit on an unstable surface, the unit may fall and cause injury or damage. Do not hang anything on the unit. If you do so, the unit may fall from the stand or wall-mount bracket, causing damage or serious injury.
Carrying or Moving the TV	 When you move the TV, carry it by two or more people. When you move the TV, hold the upper and bottom frames of the TV, not the speaker. As the glass surface of the TV has a special coating, be careful to avoid touching the glass surface as far as possible. When transporting, do not subject the unit to shocks or vibration, or excessive force.

Remove the Stand

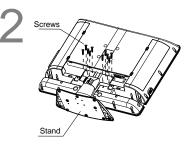
Cautions:

- 1. Carefully handle the unit during setup and consult authorized service personnel to ensure successful installation.
- **2.** Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.
- 3. Disconnect the AC power cord firstly.

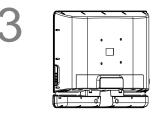


Take off the rear cover.

- Do not remove the stand from the Display unless using an optional bracket to mount it.
- ▲) The appearance of the unit may differ from the actual one.
- To attach the stand, perform the steps in reverse order.



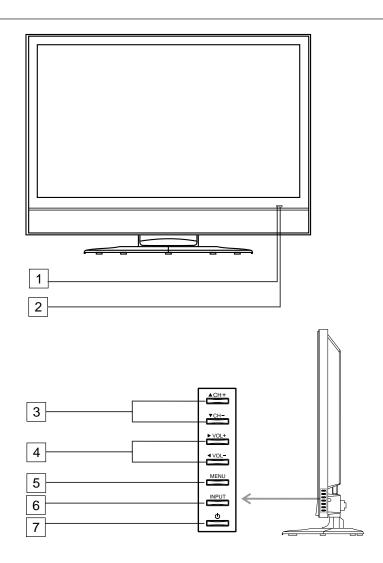
Loosen the screws on the Stand to remove the Stand.



Replace the rear cover

TV Controls and Connectors

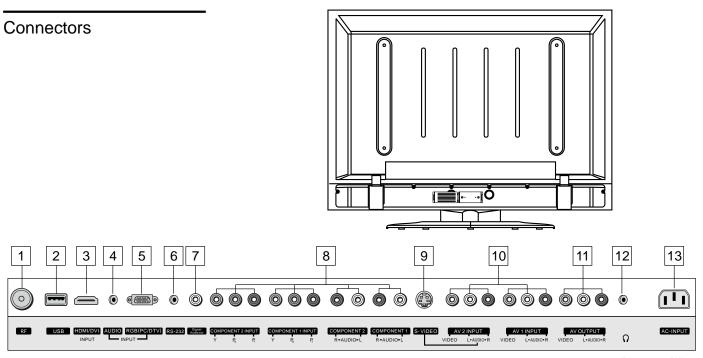
Control Panel



Item	Description
1 Power Indicator	
2 Remote Sensor	Receives IR signals from the remote control.
3 ▲CH+/▼CH-	Press to scan through channels. In menu operations, these buttons serve as up/down buttons.
4 ►VOL+/∢VOL-	Press to adjust the volume. In menu operations, these buttons serve as right/left buttons.
5 MENU	To access the Menu main page.
6 INPUT	To display the INPUT source list or to quickly select input source.
7 POWER也	Turn the unit on or off.

* In normal viewing, press the **MENU** button first time to access the Menu main page. In Menu operations, the **MENU** button is used to confirm or alter the settings of the selected menu item, which means it has the same function with the **OK** button on the remote control unit.

TV Controls and Connectors

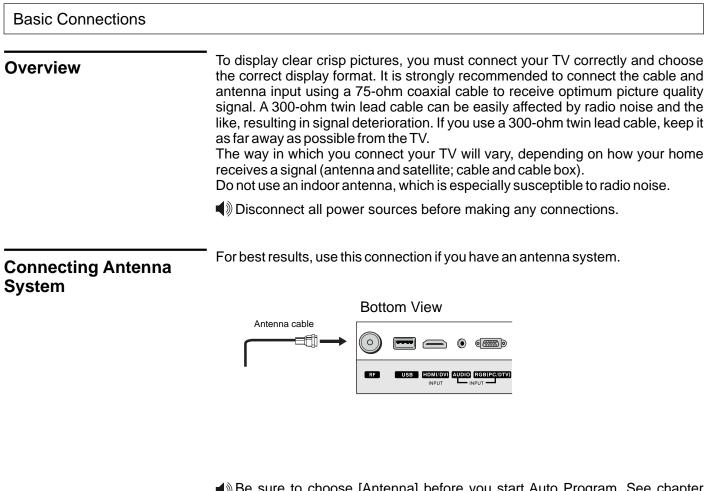


Bottom View

Item	Description
1 RF IN	RF input that connects to your cable system or outdoor antenna.
2 USB Port	For service only. The user should not use this port.
3 HDMI IN	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box and DVD player. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.
4 Audio IN for DVI or D-Sub interface	Use this audio input when you are using DVI connection or D-Sub connection. A HDMI-to-DVI adapter is necessary when you are connecting a DVI-equipped device to this TV
5 D-Sub IN	Connects to a PC or other Analog RGB devices such as Video Conferencing or Set-top Boxes.
6 RS-232C terminal	For service only. The user should not use this terminal.
7 Coaxial Digital Audio OUT	Connects to the digital audio input of a digital audio component.
8 Component Video IN ½ / Audio IN	Connect to your DVD players or digital set-top boxs component video (YPbPr) and audio (L/R) jacks. Component video provides better picture quality than the S-VIDEO or the composite video connections.
9 S-VIDEO input	Connects to the S-VIDEO output jack of your VCR or other video equipment that has S-VIDEO. S VIDEO provides better picture quality than the composite video connection.
10 Composite Video IN ½ /Audio IN	Connect to the composite video and audio output jacks on your VCR or other video device.
11 Video/Audio OUT	Connects to your VCR to record programs as desired or connects to hook up a second TV or monitor. Only analog TV programs, AV1 and AV2 input sources can be output through the AV output jacks.
12 Headphones jack	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adaptor (not supplied).
13 AC input jack	Connects to AC power cord.

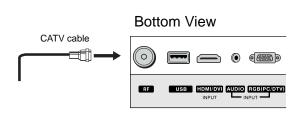
Connecting Cable

System

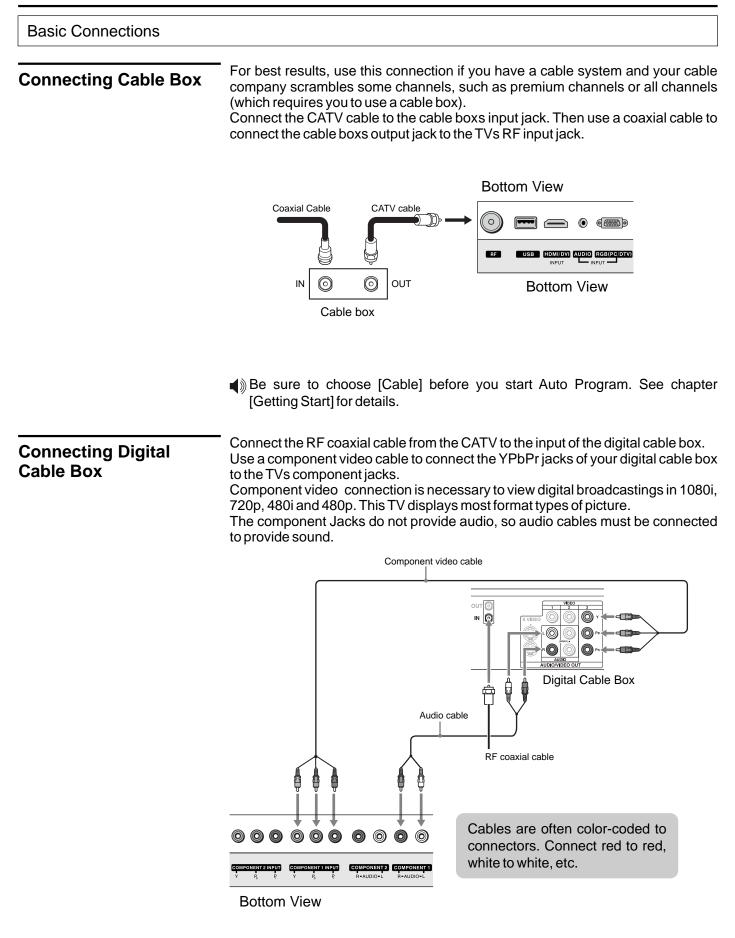


▲) Be sure to choose [Antenna] before you start Auto Program. See chapter [Getting Start] for details.

For best results, use this connection if you have a cable system.



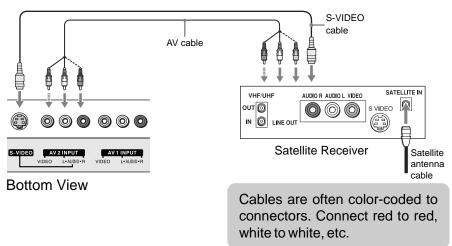
■ Be sure to choose [Cable] before you start Auto Program. See chapter [Getting Start] for details.



Basic Connections

Connecting Satellite Receiver

Connect the satellite antenna cable to the satellite receivers SATELLITE IN jack. Use AV cables to connect the satellite receivers AUDIO and VIDEO OUT jacks to the TVs AUDIO and VIDEO IN jacks.



▲) If your satellite receiver is not equipped with S-VIDEO, use a VIDEO cable (yellow) instead of the S-VIDEO cable.

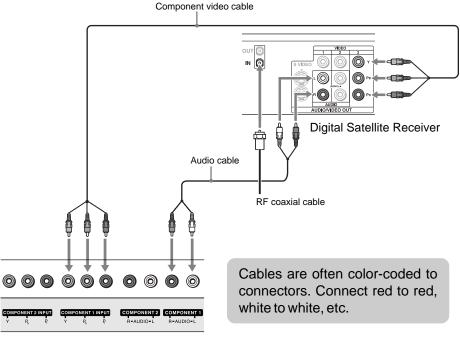
Connecting Digital Satellite Receiver

Connect the RF coaxial cable from the satellite dish to the input of the digital satellite receiver.

Use a component video cable to connect the YPbPr jacks of your digital satellite receiver to the TVs component jacks.

Component video connection is necessary to view digital broadcastings in 1080i, 720p, 480i and 480p. This TV displays most format types of picture.

The component Jacks do not provide audio, so audio cables must be connected to provide sound.



Bottom View

Using External	Equipment
----------------	-----------

Introduction	You can connect many types of external equipment to your TV, like a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console and camcorder. To view external source images, select the input source from INPUT on the remote control unit or on the Display.
	 Notes and Cautions: Disconnect all power sources before making any connections. Carefully check the terminals for position and type before making any connections. The packing contents of this TV may not include the cables or adaptors mentioned in this chapter. Refer to your external equipment operation manual carefully before making connections. Loose connectors can result in image or color problems. Make sure that all connectors are securely inserted into their terminals. Refer to your external equipment operation manual for the signal type. The illustration of the external equipment may be different depending on your model.
Equipment with HDMI Connection	For best results, use this connection if your equipment has a High-Definition Multimedia Interface (HDMI). Use a HDMI cable, connect the equipments HDMI OUT jack to the TVs HDMI IN jack.
	HDMI cable

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USB HDMI/DVI AUDIO RGB(PC/DTV)

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RF

Bottom View

connect the audio cable.

AUDIO VII

<u>1020</u>0

Equipment with HDMI output

HDM OUT

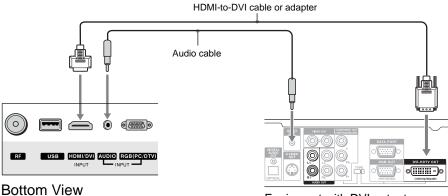
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The HDMI jack provides both video and audio signals, so it is not necessary to

Equipment with DVI Connection

If you are connecting equipment with DVI connector to this TV, you will need to use an adapter. You can use a commercial HDMI-to-DVI cable or an HDMI adapter. Both are available at your local electronics store. When you use the adapter, you will also need to use separate audio cables for sound as DVI connector is for video signals only.



Equipment with DVI output

Equipment with Coaxial Digital Audio

You can use the TV's Coaxial Digital Audio OUT jack to connect a digital audio device, such as an audio amplifier.

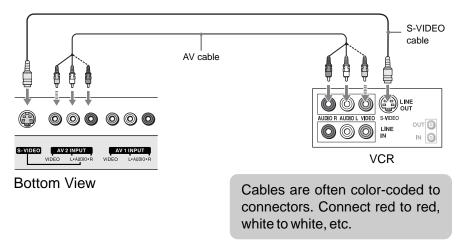
Use an coaxial audio cable to connect the TVs Coaxial Digital Audio OUT jack to the devices Coaxial Digital Audio IN jack.

0 - • • • • •	
RF USB HOMI/DV) AUDIO RGB(PC/DTV) RS-232 AUMANN	Coaxial audio cable —
	Audio amplifier

The Digital Audio OUT jack is available only when a digital TV channel is received.

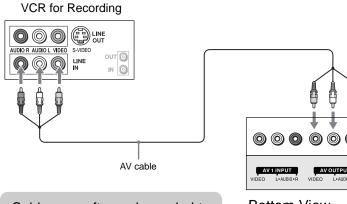
Connecting a VCR for **Playing Back**

Use AV cables to connect the VCRs AV output jacks to the TVs AV input jacks. If your VCRs have S-VIDEO jacks, for best picture quality, use an S-VIDEO connection instead of the video cable (yellow) on your combined A/V cable. Use a S-VIDEO cable to connect the VCRs S-VIDEO OUT jack to the TVs S-VIDEO IN jack. S-VIDEO does not provide audio, so audio cables must be connected to provide sound.

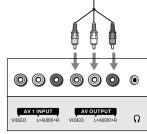


()) The S-video terminal share the same audio jacks with video2 and has priority over the video2 jack.

Use AV cables to connect the VCRs AV input jacks to the TVs VCR output jacks.

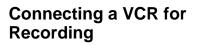


Cables are often color-coded to connectors. Connect red to red, white to white, etc.



Bottom View

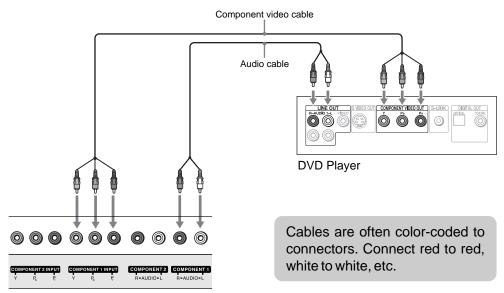
 Only analog TV programs, AV1and AV2 input sources can be output through the AV output jacks.



Connecting a DVD Player with Component Video Connectors

Use a component video cable to connect the DVD players YPbPr jacks to the TVs YPbPr jacks.

Use an audio cable to connect the DVD players AUDIO OUT jacks to the TV s AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection.



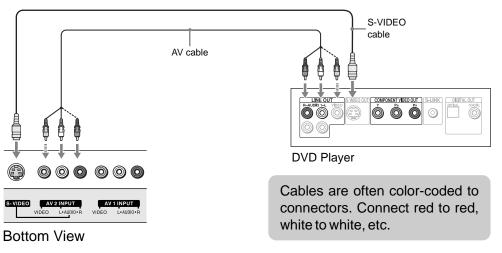
Bottom View

▲) The YPbPr jacks on your DVD player are sometimes labeled YCbCr, or Y, B-Y and R-Y. If so, connect the cables to like colors.

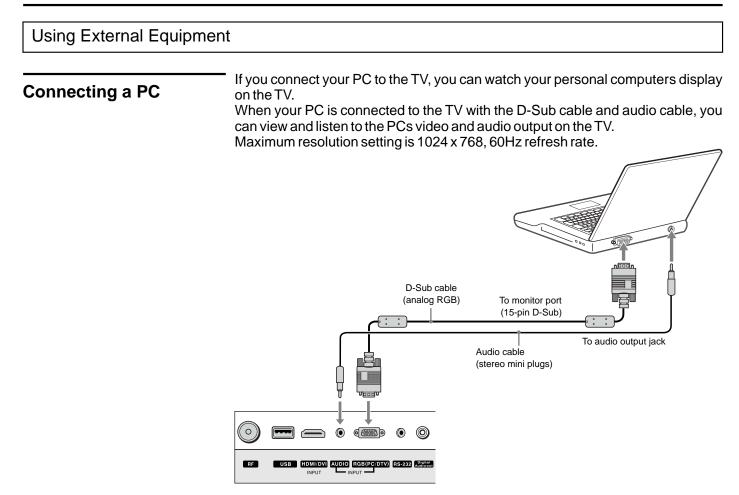
Connecting a DVD Player with S-Video and Audio Connectors

Use an AV cable to connect the DVD players AUDIO OUT jacks to the TVs AUDIO IN jacks.

Use a S-VIDEO cable to connect the DVD players S-VIDEO OUT jack to the TVs S-VIDEO IN jack.



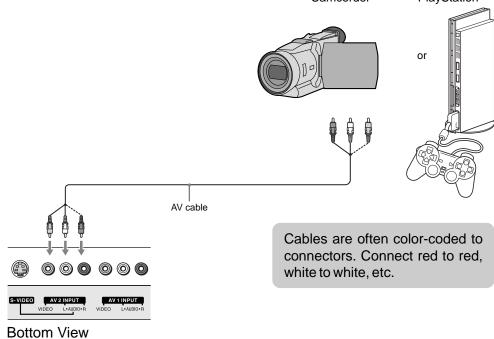
▲) If your DVD player is not equipped with S-VIDEO, use a VIDEO cable (yellow) instead of the S-VIDEO cable.



Use an AV cable to connect the camcorder or PlayStation AV output jacks to the TVs AV input jacks.

Connecting a Camcorder TVs AV input jacks. or **PlayStation**

V input jacks. Camcorder PlayStation

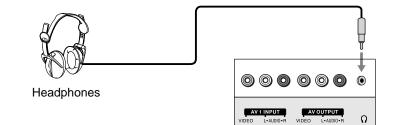


The TV has a special signal output capability which allows you to hook up a **Connecting a Second** second TV or monitor. **TV or Monitor** Connect the second TV or monitor to the TVs VCR output jacks. See the Operating Manual of the second TV or monitor for further details regarding that devices input settings. AUDIO R AUDIO L VIDEO Second TV \bigcirc AV IN \bigcirc or Monitor 000 0 0 ۲ AV 1 INPUT AV OUTPUT ດ **Bottom View** AV cable Cables are often color-coded to connectors. Connect red to red, white to white, etc.

Only analog TV programs, AV1and AV2 input sources can be output through the AV output jacks.

Connecting Headphones

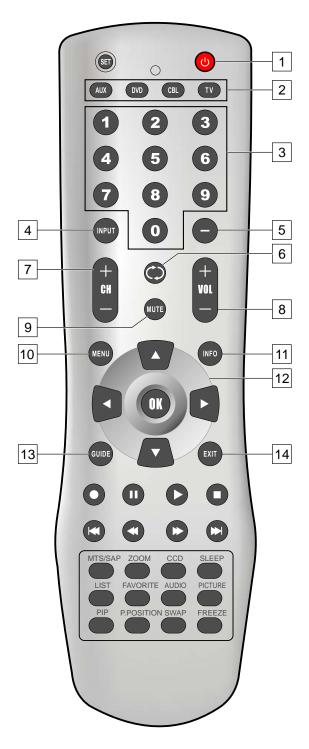
Insert the plug of the headphone into the TVs Headphone jack. When using headphones, adjust the headphone volume so as to avoid excessive levels, as hearing damage may result.



()) If your headphones do not match the jack, use a suitable plug adaptor.

Insert Batteries into the Remote Control	Insert two size AA batteries by matching the ● and ● on the batteries to the diagram inside the battery compartment.
	Precaution on battery use
	Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.
	 Place batteries with their terminals corresponding to the (+) and () indications. Different types of batteries have different characteristics. Do not mix batteries of different types. Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals. Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth. The batteries supplied with the product may have a shorter life expectancy due to storage conditions. If the remote control is not used for an extended period of time, remove the batteries from the remote control.
Using the Remote Control	Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.
	Cautions regarding use of remote control
	 Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity. Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit. The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or TV set, or operate the remote control closer to the remote sensor window.
	This above illustration is for reference only. The remote sensor may be in different locations on different models.

Button Descriptions



Button	Description
1 POWER 也	Turn the unit on or off.
AUX, DVD, CBL, TV	To select additional products to be controlled with remote control.
•	This remote control is an universal remote control. If your remote control does not work correctly when you operate the unit, please try to press TV button.
3 0-9 number buttons	Use these number buttons to select channel or input password.
4 INPUT	To display the INPUT source list or to quickly select input source.
5 Dash (-)	To enter a program number for multiple program channels such as 2-1,2-2, etc.
6 FLASHBACK	To switch between the currently tuned channel and the previously tuned channel.
7 CH+, CH-	To select channels upward or downward.
8 VOL+, VOL-	To adjust volume.
9 MUTE	To mute the sound.
10 MENU	To access the Menu main page.
11 INFO	To access the program guide.
12 ?,?,	To move upward or downward in menu operation;
?, ?,	To move left or right in menu operation; To adjust selected menu item in menu operation;
ОК	To confirm or alter the settings of the selected menu item.
13 GUIDE	To access the program guide.
14 EXIT	To exit menu.

Introducing the Remote Control

Button Descriptions



Button	Description
15 ZOOM	To select a screen aspect ratio.
16 CCD	To select closed caption mode.
17 MTS/SAP	To select a stereo, sap or mono for analog channels; also used to select audio track for digital channels.
18 SLEEP	To set sleep timer.
19 LIST	To access the master channel list.
20 PICTURE	To select a preset picture mode.
21 FREEZE	To freeze current picture.
22 FAVORITE	To access the favorite channel list and select from 3 different favorite lists.
23 AUDIO	To select a preset sound mode.

Running Initial Setup

Perform the following steps before you press **POWER** \cup on the remote control to turn on your TV set.

1. Insert the batteries into the remote control unit.

- 2. Connect the antenna cable to the TV.
- 3. Plug in the AC power cord to the AC outlet.

After you finish connecting the TV, you can run the Initial Setup to create a list of available analog and digital channels. The Initial Setup screen appears when you turn on the TV for the first time after purchase. We strongly recommend you to perform initial setup according to the steps below.

Setting Language

Press ?/? to select the desired language listed on the screen, and then press OK to confirm and continue.

Setting Time Zone

Press ?/? to select a proper time zone according to your area, and then press OK to confirm and continue.

If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

Setting Daylight Saving

Press ?/? to highlight [Yes] item if you want to observe daylight saving, or you may select [No] to abandon daylight saving and then press OK to confirm and continue.

If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

Selecting RF Input Source

Press ?/? to select [Antenna] or [Cable] according to what kind of connection is made with your TV, and then press OK to confirm and continue. If you choose [Antenna], the TV starts Auto Program automatically.

If you choose [Cable], there are 3 kinds of CATV system, including STD, HRC and IRC. Select the one matches to your TV. Select [Automatic] when you do not know which one to select. When you select [Automatic], the unit automatically detects the type of your cable system. If the unit fails to detect the type of your cable system, please consult with your cable TV company about the type of your cable system, and then choose the correct type before Auto Program.

If you want to return to previous screen, please highlight [GO BACK] item and press OK to return.

Start Auto Channel Program...

Once you have finished selecting RF input source, the unit starts auto program.

Auto Program may take a while to complete. A progress bar is displayed while available channels are being scanned. If you select [Stop Scan] to cancel the Auto Program before all receivable channels are scanned, you need to run Auto Program at a later time.

Auto Program will create a list of receivable channels for the current input . You will be required to run Auto Program for RF input to create a list of available channels.

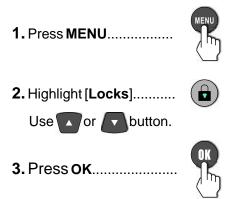


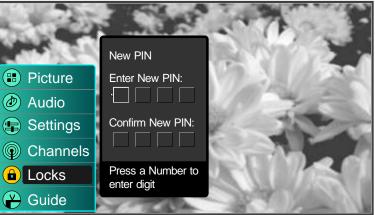
Scanning may take a few minutes - Please be patient (Example)

Stop Scan

Setting a Secret Number

For additional protection to the user's settings from being accidentally changed, the option exists to set a secret number first as below.





The TV allows you to set a secret number when you access the [Locks] menu first time.

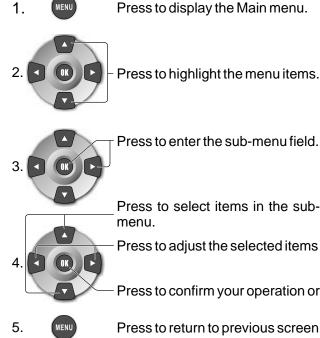
You may use 0-9 number buttons to enter a new four-digit secret number, and then confirm the new secret number by entering it again.

Once the secret number is set successfully, the TV requests you to enter secret number if you are going to:

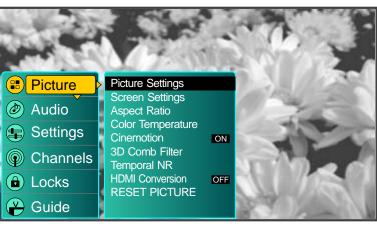
- Access the [Locks] menu.
- Scan channels automatically.
- Find channel manually.
- View a blocked program.
- Reset all settings to defaults by using the [RESETALL] item in [Settings] menu.

As a precautionary measure, make a note of your secret number and keep it in a safe place.

Menu Navigation



Press to select items in the sub-



Press to adjust the selected items or move the on-screen cursor in the sub-menu.

Press to confirm your operation or alter the settings for some items such as [Cinemotion].

Press to return to previous screen.

Press to return to normal picture. 6.

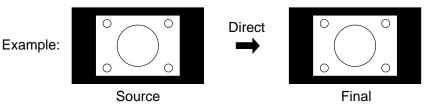
Turning On/Off	On/Off Turning On Firstly, Plug in the AC power cord to the AC outlet.	
	Press POWER \bigcirc on the TV or press POWER \bigcirc on the remote control.	
 Never attempt to move the TV unless the AC power cord has 		
been disconnected.	Turning Off	
	Press POWER U on the TV or press POWER U on the remote control. The TV enters standby mode and the image on the screen disappears.	
	▲ The TV will still consume some power as long as the AC power cord is still inserted into the wall outlet.	
	■) If you are not going to use this TV for a long period of time, be sure to remove the AC power cord from the power outlet.	
Introducing Channel Number	This television is capable of receiving the full range of cable-TV channels available today, from most digital and HDTV channels, to the traditional analog channels. As the transition toward full digital TV continues, some cable-TV systems in the USA will have a mixture of analog and digital channels in their lineups. So in most situations the ATSC PSIP channel number is composed of a major channel number and a minor channel number. The major channel number is same for both analog and digital channels (It is equal to the NTSC channel number for existing broadcasters). An analog channel usually has a minor channel number of zero, while a digital channel usually has a minor channel number of 1, 2 or larger.	
Selecting Channels	You can select analog channels in several ways. Method 1 - Using CH+ or CH- on the remote control or on the TV Press the CH+ or CH- to cycle among all available channels. Only those channels marked with a tick symbol can be selected by the CH+ or CH- button.	
	Method 2 - Using FLASHBACK \bigcirc on the remote control Press FLASHBACK to switch to the previously tuned channel. Press FLASHBACK again to switch back to the currently tuned channel.	
	Method 3 - Using 0-9 and OK on the remote control • For analog TV channels Press the 0-9 number buttons to input a channel number and confirm with OK to select up to 125 channels for VHF/UHF/CATV.	

Selecting Channels	 For digital TV channel Press the 0-9 number buttons and dash(-) to input a digital channel number, the TV goes to the selected channel directly. (e. g., channel 8-3, just press 8, - and 3 one by one) If you enter channel number with 0-9 only (without pressing OK), channel selection will be made if there is no operation for a few seconds. 		
	Method 4 - Using master channel list		
	Press the LIST button to display the master channel list, you may select channel with the ??and OK buttons.		
	Method 5 - Using favorite channel list		
	Press the FAVORITE button to display a desired favorite channel list, you may select channel with the ??and OK buttons.		
Adjusting Volume	Using VOL+ or VOL- on the remote control or on the TV Press the VOL+ or VOL- to increase or decrease the volume.		
	Using MUTE on the remote control Press MUTE to mute the sound. Press it again to cancel the mute.		
Using FREEZE button	Press FREEZE to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc. You may press any key to cancel FREEZE and return to normal viewing.		
	The TV automatically cancels FREEZE and returns to normal viewing i about a minute.		
Using ZOOM button	Press ZOOM repeatedly to choose a proper screen aspect ratio, particularly when viewing non-16:9 programming.		
	Normal		
The zoom mode options may	Select to match the sources image.(4:3 to 4:3, 16:9 to 16:9)		
 The zoom mode options may differ from different formats of the input signal. 	Example: $\bigcirc \bigcirc \bigcirc$		
	Source Final		
	 When you choose NORMAL to view a 4:3 program, two black bars keep on the two sides of the screen. For additional protection to the screen, when you are viewing a 4:3 program, please DO NOT use the NORMAL feature for a long period of time. 		

Using ZOOM button

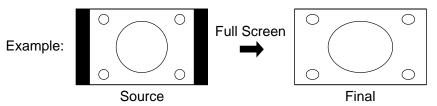
Direct

Select to detect the resolution of the signal and display an image with the same number of pixels on the screen. DO NOT use for a long period of time.



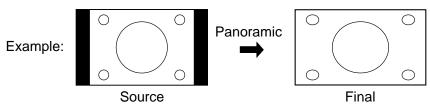
Full Screen

Select to enlarge the 4:3 picture horizontally only, to fill the display area. Some shape distortion results.



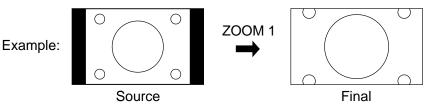
Panoramic

Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image shape as much as possible in the centre area of the screen.



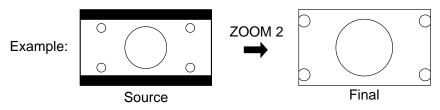
ZOOM 1

Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen. Shape distortion is avoided but a bit of top and bottom picture content may be hidden.



ZOOM 2

Select to view wide-screen DVDs in full screen.

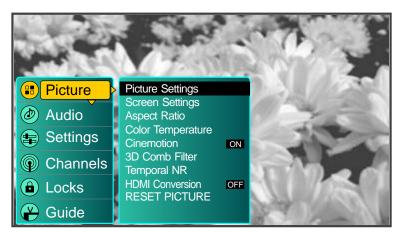


Depending on the signal tuned, you may see different MENU options on your screen. As an example, Menus displayed below are based on TV mode.

Picture Control

Accessing Picture Menu





To highlight an option and to change settings, press ??? ?. Press **OK** to confirm the selection or alter the settings. Press **EXIT** to exit.

Selecting Picture Options	Option	Description
	Picture Settings	Select to access a picture adjustment window, see [Adjusting Picture Settings] on next page.
	Screen Settings	Select to access a screen adjustment window for VGA or Component input, see [<i>Adjusting Screen Settings</i>] on next page.
▲)) To quickly change the aspect ratio, press the ZOOM button repeatedly.	Aspect Ratio	Select to access a window in which you can choose a proper aspect ratio for 4:3 or 16:9 program. Select from [Normal], [Direct], [Full Screen], [Panoramic], [ZOOM 1] and [ZOOM 2].
	Color Temperature	Choose from the following color temperatures:
		Cool Select to give the white colors a blue tint.
		Neutral Select to give the white colors a neutral tint.
		Warm Select to give the white colors a red tint.
	Cinemotion	Select [ON] to optimize the screen display automatically detecting film content and applying a reverse 3-2 pull down process. Moving picture will appear clearer and more natural looking. Select [OFF] to disable the detection.
	3D Comb Filter	Select to provides high quality images with minimal dot crawl and cross color noise. Select from [Off], [Low], [Medium] and [High].
	Temporal NR (Analog)	Select to reduce the noise level of connected equipment. This also reduces the noise level to the signal from the RF jack. Select from [Off], [Low], [Medium] and [High].
	HDMI Conversion	Select to change color space for some irregular HDMI signal. Select [ON] when you find abnormal color while viewing HDMI programs. Be sure to select [OFF] for normal HDMI signal.
	RESET PICTURE	Select to reset picture settings and adjustments to the defaults.

Picture Control

Adjusting Picture Settings

Picture Settings: TV		
Preset	Custom	
Brightness	25	
Contrast	25	
Saturation	25	
Tint	25	
Sharpness	4	
DONE		
Choose among different preset adjustments for your TV picture		

Option Description Preset Select to choose a picture mode to best match environment of the TV, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment. Standard Select for a highly defined image in a normally bright room. Vivid Select for enhanced picture contrast and sharpness. Movie Select for a movie. Select for a normal picture. Pro Custom Select to customize the picture as desired. ()) To quickly change the picture mode, press the **PICTURE** button repeatedly.

Brightness	Select to adjust picture brightness.	
Contrast	Select to adjust picture contrast.	
Saturation	Select to adjust color saturation for current picture.	
Tint	Select to adjust natural flesh tones.	
Sharpness	Select to adjust clarity of outline detail.	

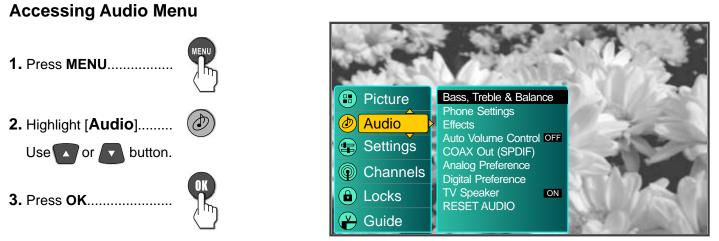
Adjusting Screen Settings

Adjustment Settings		
Horizontal		
Vertical		
Phase	17	
	Auto Sync DONE	
Use left and right arrows to change horizontal position		

Option	Description	
Horizontal	Select to adjust horizontal position for the image.	
Vertical	Select to adjust vertical position for the image.	
Phase	Adjust when characters have low contrast or when the image flickers.	
Auto Sync	Select to automatically adjust the PC image.	

- ▲) The [Screen Settings] window can't be accessed unless the TV works in D-Sub or Component mode.
- In Component mode, the [Auto Sync] item is unavailable.
- ▲) In Component mode, when the unit receives 480i signal, the [Vertical] item is ineffective unless its value is larger than 0. Please do not adjust the [Vertical] item to a negative value.

Audio Control



To highlight an option and to change settings, press ??? ?. Press **OK** to confirm the selection or alter the settings. Press **EXIT** to exit.

Selecting Audio	Option	Description	
Options	Bass, Treble & Balance	Select to access an audio adjustment window.	
		Bass Adjust to increase or decrease lower-pitched sounds.	
		Treble Adjust to increase or decrease higher-pitched sounds.	
		Balance Adjust to emphasize left or right speaker balance.	
	Phone Settings	Select to access a phone settings window. All adjustments in this window have an effect on the headphone only.	
		Volume Adjust to increase or decrease phone volume.	
		Bass Adjust to increase or decrease lower-pitched sounds.	
		Treble Adjust to increase or decrease higher-pitched sounds.	
		Balance Adjust to emphasize left or right speaker balance.	
()) To quickly change the audio mode,	Effects	None Select to turn off the sound effect.	
press the AUDIO button		Hall Select for a concert program.	
repeatedly.		Theater Select for a movie program.	
		Music Select for a music program.	
		Speech Select for a spoken dialog program.	
	Auto Volume Control	ON Select to equalize overall volume levels across all channels.	
		OFF Select to turn off Auto Volume Control.	
	COAX Out (SPDIF)	AUTO Select to output audio signal as its original format.	
● For analog channels, you may use the <i>MTS/SAP</i> button to cycle through the Multi-channel TV Sound options. For digital channels, you may use the <i>MTS/SAP</i> button to quickly select audio track if available.		PCM Select to output audio signal by PCM form.	
	Analog Preference	Use this item to select a stereo mode as a default mode wh you switch your TV to a analog program. Select fro [Mono], [Stereo] and [SAP].	
		Mono Select for mono reception. Use to reduce noise during weak stereo broadcasts.	
		Stereo Select for stereo reception when viewing a program broadcast in stereo.	
		SAP Select to automatically switch the TV to second audio programs when a signal is received. If no SAP signal is present, the TV remains in Stereo mode.	
	Digital Preference	Use this item to select a language as a default language when you switch your TV to a digital program.	
	TV Speaker	Select to turn the TV speakers ON or OFF.	
	RESET AUDIO	Select to reset audio settings to the defaults.	

Setting Channels

Accessing Channels Menu



To highlight an option and to change settings, press ??? ?. Press **OK** to confirm the selection or alter the settings. Press **EXIT** to exit.

Selecting Channel Options	Option	Description
	Master List	Select to display all available channels scanned by Auto Program in initial setup. See [<i>Setting Channel List</i>] on this page.
	Favorites	Allows you to setup favorite channels in 3 different categories. See [Setting Favorite Channels] on next page.
	Scan Channels	 Allows you to run Auto Program manually. You may need to run Auto Program manually if you interrupt the Auto Program process in initial setup. Please refer to [<i>Running Initial Setup</i>] for the detailed steps. You will be asked to input a correct secret number before you access the [Channel Scan] screen.
	Find Channel	Allows you to find channel manually by input the RF channel number. Please contact your local station or cable operator for this RF channel number information. You will be asked to input a correct secret number before you access the [Find Channel] screen.
	Channel Name Edit	Allows you to assign labels (such as station call letters) to a selected channel. See [<i>Editing Channel Name</i>] on next page.
Setting Channel List	mark or unmark the those channels marked be selected by the C unmarked channel(s) 0-9 number buttons. Mark All: select to mar Unmark All: select to un Digital Only: Select to Be sure to select [Don	Drees OV to finish
	Niso, you may acces	s the master channel list by pressing the LIST button.

Setting Channels	
Setting Favorite Channels	The unit allows you to setup 3 groups (FAV 1, FAV 2 and FAV 3) of favorite channels. You may set up to 16 channels for each favorite channel list.
	Use this item to choose Fav 2 Sports
	Use this item to deselect all channel — Unmark All 2.1 KFOX-HD
	Use this item to renameRename List
	Select this item when you finish Setting the favorite channel list Press OK to finish
	Rename Favorite Channels List
	The unit has assigned a name for each favorite list. For example, the preset name of FAV 2 is Sports. The unit also allows you to rename each list as desired. Press ??? ? to move through the label characters (A-Z, 0-9, etc.). Then press OK to select the highlighted character. Repeat to add characters to the label. Back: select to move cursor backward for one character. Shift: select to change uppercase or lowercase for A-Z. Clear: select to clear current inputs. Select [Done] when you finish labeling current list.
Using the FAVORITE button	Press FAVORITE button repeatedly to quickly select [FAV 1], [FAV 2] or [FAV 3]. The screen displays current favorite list name and those favorite channels under current list so that you can easily accessing them by press ? or ? buttons. If current channel has been assigned to current list, the unit allows you to remove current channel from current list by selecting [Remove] item. Also, if current list does not include current channel, the unit allows you to add current channel into current list by selecting [Add] item.
Editing Channel Name	Master List Favorites Scan Channels Find Channel Channel Name Edit Press OK or ? button.

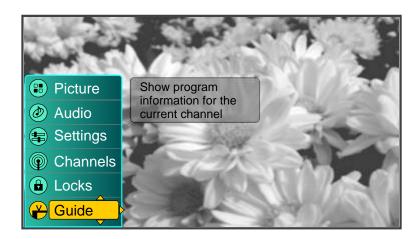
The unit allows you to assign a label to all available channels as desired by using this feature. In the [Channel Name Edit] window, you need to select a desired channel you want to rename. Please use ???? and OK buttons to input a desired label name. Be sure to select [Done] item when you finish input.

Press OK to finish

Using the Program Guide

Accessing Program Guide



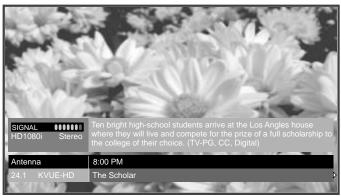


Using the Program Guide

This TV is equipped to show program information if it is available from the station. The Program Guide provides some information for current viewing program and next program if next program information is available. The information may include channel number, channel name, program title, broadcast time, brief introduction, etc. Normally, you may access program guide by:

- Using the [Guide] menu.
- Using the **GUIDE** button.
- Using the **INFO** button.

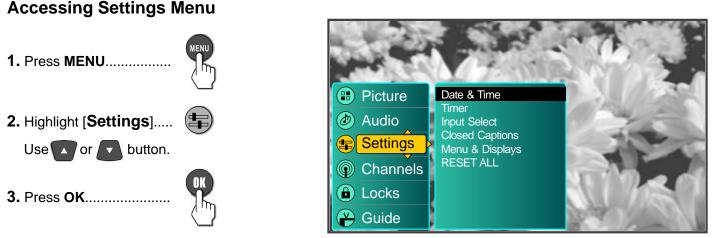
Press the **GUIDE** button while watching a program, a simplified information windows appears with channel number, channel name, program title, etc. If you want to view more detailed information such as program introduction, press the ? or **GUIDE** button.



If the information of next program is available, a triangle appears on the bottomright part of the screen, you may press the ?button to access.



Setting System



To highlight an option and to change settings, press ??? ?. Press **OK** to confirm the selection or alter the settings. Press EXIT to exit.

Setting Date & Time	Date & Time	Clock/Calendar
	Timer Input Select Closed Captions Menu & Displays RESET ALL Press OK or ? button.	Today's Date Current Time June 29, 2006 6:29 PM Time Zone Eastern (US, CAN) Adjust for Daylight Saving Time Auto-Update Time
	Si : Button.	Broce OK to finish

Option

- Once the AC power is cut off completely, the [Today's Date] and [Current Time] items need to be set again when you turn on the unit next time.
- When the [Auto-Update Time] is set to ON, the [Today's Date] and [Current Time] items can't be accessed.

Option	Description
Today's Date	Select to set date.
Current Time	Select to set current time.
Time Zone	Select a proper time zone according to your local area.
Adjust for Daylight Saving Time	Select to observe daylight saving time.
Auto-Update Time	Select to automatically update time from the service provider if this information is broadcasted with the program as well.

Setting Timer

Date & Time	Timer
Input Select Closed Captions Menu & Displays RESET ALL	■ Timer is on Start Time Duration 8:00 PM 01:30
Press OK or ? button.	Press OK to finish

By using the *SLEEP* button, the TV allows you to set the amount of time (15 minutes, 30 minutes, 45 minutes, 60 minutes or 90 Timer is on minutes) that you want the TV to remain on before shutting off automatically. If you select [Leave TV on], the

Select to activate current timer. Start Time Select to set a start time so that the TV automatically turns on at the selected time. Select to set a duration time that you want the TV to remain on Duration before shutting off automatically.

Description

(1) When the TV automatically turns on at the select time, if the user operate the TV by pressing any button, the TV automatically cancel the duration time and remains on unless the user turn off the TV.

Once the timer is activated and performed, the Timer setting will be canceled automatically. The user need to set the Timer again if you want to use this feature next time.

Setting System Date & Time Input Select TV Select to view TV programs Timer AV1 Select to view programs from AV1 inputs. Input Select SV/AV2 Select to view programs from AV2 or S-video inputs. **Closed Captions** Menu & Displays Component1 -Select to view programs from Component1 inputs. **RESET ALL** Component2 Select to view programs from Component2 inputs. Press OK HDMI Select to view programs from HDMI input. or?button. D-Sub Select to view programs from D-Sub input.

()) To quickly change the input type, press the **INPUT** button repeatedly.

Setting Caption Vision	Option	Description
	Basic Selection	Allows you to select basic closed caption options.
		CC1, CC2, Displays a printed version of the dialog or sound effects of CC3, CC4 a program. (Should be set to CC1 for most programs.)
		Text1,Text2, Displays network/station information presented using Text3,Text4 either half or the whole screen (if available).
	Advanced Selection	Allows you to select advanced digital closed caption options. Select from the available options.
	Advanced Appearance	Allows you to make additional settings for digital closed caption options. You may set the following items as desired: Text Style, Text Color, Text Opacity, Text Size, Text align Edge Color, Edge Style, Background Color, Background Opacity, Frame Color and Frame Opacity.
	Caption Preference	Allows you to set digital closed captioning to Basic (digital EIA-608) or Advanced (digital EIA-708). Select from [Always Basic], [Always Advanced] and [Automatic].
	RESET CC	Select to reset Closed Captions to the default settings.

Using the CCD button

Press the CCD button repeatedly to select [Off], [On] or [On when muted].

Option	Description	
On	Select to turn on the Closed Captions.	
Off	Select to turn off the Closed Captions.	
On when muted	Select to turn on the Closed Captions when the TV is muted.	

Setting Menu & Display

Option	Description
Menu Language	Allows you to select an on-screen menu language. Select from [English], [French] and [Spanish].
Input Labels Edit	Select to edit input labels as desired or according to the connected device. See [<i>Editing Input Labels</i>] on next page.
Screen Saver	Select to set screen saver. See [<i>Setting Screen Saver</i>] on next page.
RESET DISPLAY	Select to reset display settings to the defaults.

Setting System				
Editing Input Labels	1. Highlight [Menu & Displays] item in [Settings] menu. Press OK or ? button to access the sub-menu.	Date & Time Timer Input Select Closed Captions Menu & Displays RESET ALL	Inpu Scre RES	u Language tt Labels Edit een Saver SET DISPLAY
	 Highlight [Input Labels Edit] item. Press OK or ? button to enter. 	Menu Language <mark>∢ Input Labels Edi</mark> Screen Saver RESET DISPLA	Y AV1 Y Con HDN	AV2 nponent1 nponent2 /Ι
	3. Highlight a desired Input Label you want to edit. As an example, highlight [TV]. Press OK or ? button to enter.		D-S Antenna Cable DTV DVD	Input Source TV_ A B C D E F G
	4. Highlight [Custom Label] item. Press OK button to enter.	Component2 HDMI D-Sub	Game HI Def PC Sat	H I J K L M N O P Q R S T U V W X Y Z
	 The Label editing window appears. Please use ??? ? and OK buttons to input a desired label name. Be sure to select [Done] item when you finish input. 		STB VCR Custom Label:TV	0 1 2 3 4 5 6 7 8 9 Back Shift Clear Press OK to finish

Setting Screen Saver	Option	Description
	Activation Delay	Select to set a delay time before the screen saver is activated when there is no input signal.
	Background Color	Select to set a background color when the screen saver is activated.
	Test	Select to preview the screen saver.
	RESET SCREEN SAVER	Select to reset the settings of the screen saver to the defaults.

Running Reset System

WARNING: Running the [RESET ALL] item will clear all of your customized settings.

Please make sure that you want reset all settings to the factory defaults before you perform this operation. You will be asked to input a correct secret number when you select [RESETALL] item in the [SETTINGS] menu.

When the system is reset successfully, all customized settings will be cleared and the unit runs initial setup wizard.



Parental Lock Control

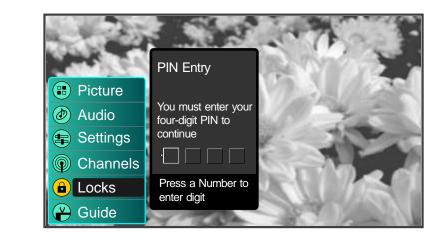
Accessing Locks Menu

Press MENU......
 Highlight [Locks].......
 Use or button.
 Press OK......
 Enter a correct PIN.

Use 0-9 number buttons.

Selecting Locks

Options



If it is the first time to access the [*Locks*] menu, the unit allows you to set a secret number as desired, please refer to [Setting a Secret Number] in chapter [*Getting Start*].

Once the correct PIN is entered, the [Locks] menu displays as below.

To highlight an option and to change settings, press ????. Press OK to confirm the selection. Press EXIT to exit.

<	Ratings Locks		USA			
	Channel Locks Front Panel Lock Change PIN RESET LOCKS	OFF	Canada			
O	ption	[Descriptio	on		
Datio			. 11	. 1 .		. 1

Option	Description		
Ratings Locks	The rating control gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate this feature in your TV. See [<i>Selecting</i> <i>Locks Options</i>] on next page.		
Channel Locks	Select to access [<i>Channel Locks</i>] window, in which you may lock channels as desired. In this window, you may select [Lock All] to lock all available channels, or select [Unlock All] to unlock all channels. Also, you may use the ??? ? and OK buttons to lock individual channel one by one as desired. The Lock channels will be marked with a symbol. Be sure to select [Done] when you finish setting.		
Front Panel Lock	ON Select to enable the panel buttons.		
	OFF Select to disable the panel buttons.		
Change PIN	Select to change PIN as desired. The old PIN is necessary if you want to change the PIN.		
RESET LOCKS	Select to reset the locks settings to the defaults. The customized lock settings will be cleared if you select [RESET].		

Parental Lock Control

US Custom Rating Options

Selecting Locks	US Custom Rating Options			
Options	Option	Description		
	USA-TV	Age-Based Options		
To ensure maximum blocking	rating contant or both	TV-Y	All children.	
capability, the age-based		TV-Y7	Directed to children age 7 and older.	
ratings should be used.		TV-G	General audience.	
		TV-PG	Parental guidance suggested.	
		TV-14	Parents strongly cautioned.	
		TV-MA	Mature audience only.	
		Content	-Based Options	
		FV	Fantasy violence.	
		D	Suggestive dialog.	
		L	Strong language.	
		S	Sexual situations.	
		V	Violence.	
	USA-Movie	G	All children and general audiences.	
		PG	Parental guidance suggested.	
		PG-13	Parental guidance for children under 13.	
		R	Restricted viewing, parental guidance is suggested for children under 17.	
		NC-17	No one 17 and under admitted.	
		Х	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.	

Canadian Custom Rating Options

Option	Description		
CAN-French	G	General programming.	
	8 ans+	Not recommended for ages under 8.	
	13 ans+	Not recommended for ages under 13.	
	16 ans+	Not recommended for ages under 16.	
	18 ans+	Programming restricted to adults.	
CAN-English	С	All children.	
	C8+	Children 8 years and older.	
	G	General programming.	
	PG	Parental guidance.	
	14+	Viewers 14 and older.	
	18+	Adult programming.	

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

You can view a locked or blocked program by entering the secret number.

1. Tuned to a locked or blocked program.

2. Enter your secret number using the 0-9 buttons. Parental Lock will be canceled temporarily until you turn your TV off.

Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your television, please call the services center in your local area.

Before calling service, please check the symptoms and follow suggested solutions.

Remote Control

Problem	Possible Solutions
Remote control does not operate	? The batteries could be weak. Replace the batteries.? Check the orientation of the batteries.? Make sure the power cord is plugged in.
Remote control does not operate other brand equipment	 ? If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset. ? There may be more than one code for the equipment that you are attempting to operate. ? There is a possibility that this equipment can only be operated by its original remote control.

Video and Audio

Problem	Possible Solutions
No picture (screen not lit), No sound	 ? Make sure the power cord is plugged in. ? Press POWER on the TV or on the remote control. ? Press the input source select button to cycle through the connected video sources. ? Try another channel; it could be station trouble.
Dark, poor or no picture (Screen lit), good sound	 ? Select a proper picture mode. ? Adjust the brightness in the video setting. ? Check the antenna/cable connections.
No color/dark picture/color Is not correct	? Adjust the color saturation in the video setting.
Only snow and noise appear On the screen	? Check the antenna/cable connections.? Try another channel; it could be station trouble.
Dotted lines or stripes	? Adjust the antenna.? Move the TV away from noise sources such as cars, neon signs, or hair dryers.
Double images	? Using a highly directional outdoor antenna or a cable may solve the problem.
Black box on screen	? You have selected a text option in the Setup setting and no text is available. Please try to turn off the Close Caption feature or select CC1 instead of Text1-4.
Good picture, no sound	 ? The sound may be muted. Press MUTE again to cancel. ? Make sure the speaker option is set to On in the Audio settings. ? Make sure the stereo mode is set to stereo or mono.
Audio noise	? Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Move the infrared communication equipment away from the TV until the noise is eliminated.

Troubleshooting

General

Problem	Possible Solutions
One or some channels can t be displayed	 ? These channels may be locked. Please unlock them (see Lock settings). ? These channels may be set to hidden in the master channel list. You may mark them with the tick symbol to cancel hidden or select them with 0-9 number buttons.
Lost password	? On the password screen, enter the following master password: 1397. You may use the master password to set a new password as desired. Please remember your new password and keep it carefully.
Some items cant be accessed	? If a setting option appears in gray, this indicates that the settings option is unavailable in current input mode.
TV cabinet creaks	? When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction.
Control buttons do not operate	? Disconnect the power cord and wait for a few seconds. Then re-plug the power cord and turn on the unit again.

Notes:

If your problem is not solved, turn your unit off and then on again.

Cautions:

Never attempt to repair a defective TV yourself.

Care and Maintenance			
About Temperature	 Do not use in hot and cold rooms (locations) ? When the unit is used in rooms (locations) with low temperature, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal. ? Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the screen to malfunction. ? Storage temperature: OC to +50C ? Working temperature: 5C to +40C 		
About After-Image (burn-in)	The extended use of fixed image program material can cause a permanent after-image on the screen. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible screen deterioration can be limited by observing the		
	following steps:A. Reduce the brightness/contrast setting to a minimum viewing level.B. Do not display the fixed image for extended periods of time.		
	C. Turn the power off when not in actual use. Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays:		
	 Provide the second secon		
	Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.		
	CAUTIONS:? The permanent after-image on the screen resulting from fixed image use is not an operating defect and as such is not covered by the warranty.		
	? This product is not designed to display fixed images for extended periods of time.		
Cleaning and Maintenance	 To clean this unit, wipe with a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution. ? Use eyeglass cleaner to remove stubborn dirt from the screen. ? Never use alcohol, paint thinner or benzine to clean this unit. 		
	? Before using a chemically treated cloth, read the instructions that came with the cloth carefully.		

Specifications

Туре:		PDP TV		
Panel:		42" PDP		
TV system:		American TV standard ATSC/NTSC System		
Rece	iving Channel:			
	VHF/UHF:	VHF 2-13ch, UHF 14-69ch		
	CATV:	1-125ch		
	Digital Terrestrial Broadcast:	2-69ch		
	Digital cable:	1-135ch		
Audic	multiplex:	BTSC System		
Audic	oout:	10W 2		
Powe	er Requirement:	AC 100-240 V, 50/60Hz		
Powe	er Consumption:	280 W		
Dimensions (W X H X D in inches):		41.3 31.8 12.6		
Weight:		86lbs/39 kg		
Termi	nals:			
	Composite Video/Audio(L/R):	2		
	S-video:	1		
z	Component Video/Audio(L/R):	2		
—	HDMI interface:	1		
	D-Sub/Audio:	1 Resolution 1024 x 768; Refresh rate 60Hz		
	Antenna:	1		
Ŀ	Composite Video/Audio(L/R):	1		
LUO	Coaxial Digital Audio Out:	1		
	Headphone jack:	1		
Control	RS-232C:	1		
Cor	USB Port:	1		

? As part of policy of continuous improvement, the manufacturer reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Programming your Remo	te Control		
Introduction	Your remote lets you control four devices with one easy-to-use, compact unit. After installing batteries, you can program the remote to control your VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices. To do so, follow the instructions in Programming a Device. For best results, please read and follow all the remaining instructions. Keep this guide for future reference.		
	The universal remote control unit can't be programmed to control a TV with other brand. It has been preset to control this TV set, and this preset is unchangeable.		
A Quick Look at Programming a Device	To control VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices, follow these steps. Before proceeding, find the codes for the devices you want to program in [Manufacturer's Codes] and write them down or highlight them.		
	To program a DVD Player, portable DVD player, or mobile DVD player, use the DVD key.		
	 Turn on the device (for example, DVD player) and, if needed, load media (fo example, a DVD). Press a device key (VCR/DVD, CBL/SAT, or AUX). Press and hold SET until the red LED blinks twice; then release. Enter the first five-digit code for your device. The LED blinks once as each digit is entered. If the code is correct, the LED blinks twice. If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again. Aim the remote at the device and press Power. The device should turn off. If i does not, repeat steps 3 to 5, trying each code for your brand until you find one that works. If you cannot find a code that works, see Searching for Your Code. Repeat steps 1 to 5 for the other devices you want to control. For future reference write down each working device code below: AUX Code: CD Code: DVD Code: SAT Code: TNR Code: VCR Code: Press SET to save and exit 		
Searching for your Code	 If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code: Press a device key once. Press and hold SET until the red LED blinks twice; then release. Enter 9-9-1, then the device group number (0= Cable, 1= TV, 2= VCR, 3= Audio). The LED blinks twice. Aim the remote at the device and press Power. The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device does not respond, press CH+. The remote will try the next code. Continue until the device responds. Press CH- to try the previous code. To search for other device codes, repeat steps 1 to 5. Press SET to save and exit. 		

Programming your Ren	note Control			
Checking the Codes	 If you have set up the remote using the procedure in Searching for Your Code, you may need to find out which four-digit code is operating your equipment. For example, to find out which code is assigned to your DVD: Press DVD once. Press and hold SET until the red LED blinks twice; then release. Enter 9-9-0. The LED blinks twice. To view the code for the first digit, press 1. Count the LED blinks (for example, three blinks = 3), and write down the number in the appropriate code listing in step 6 under Programming a Device. If a code digit is 0, the LED does not blink. Repeat step 4 for the four remaining digits, using 2 for the second digit, 3 for the third digit, 4 for the fourth digit, and 5 for the fifth digit. To check for other device codes, repeat steps 1 to 5, substituting the device key for DVD. 			
Changing Volume Lock	The remote comes preset to allow independent volume control of each selected device (Global Volume Unlock). However, you may change the Volume Lock setting to Global Volume Lock so that one device's volume will control volume in all other modes. After that, you can perform Individual Volume Unlock on a selected device to set its volume control for independent operation or Global Volume Unlock to remove all volume locking.			
	Locking Volume Control to One	Mode (Global Volume Lock)		
	 Press and hold SET until the red LED blinks twice; then release. Enter 9-9-3 and then press the mode key for the device you want to control volume (for example, DVD). The LED blinks twice. Now when you press VOL+, VOL-, or Mute, the selected device (for example, DVD) will control the volume regardless of the current mode. 			
	Unlocking All Volume Control (Restoring Global Unlock)			
	 Press and hold SET until the red LED blinks twice; then release. Enter 9-9-3 and then press VOL+. The LED blinks four times. Volume is now independently controlled for all programmed devices. 			
	Unlocking a Single Device's Volume Control			
	 Press a device key (VCR/DVD, CBL/ SAT, or AUX). Press and hold SET until the red LED blinks twice; then release. Enter 9-9-3 and then press VOL The LED blinks four times. Volume is now independently controlled for the selected devices. 			
Troubleshooting	Problem	Solution		
nousioniooting	LED does not blink when you pressakey.	Replace new batteries.		
	LED blinks when you press a key, but device does not respond.	Make sure the remote is aimed at your device and is not more than 15 feet away.		
	LED blinks one long blink.	An entry error has occurred (for example, wrong key). Try entry sequence again.		
	Remote does not control devices or commands are not working properly.	Try all listed codes for the device. Make sure the device operates with an infrared remote control.		
CARE	 Keep the remote dry. If it gets Use and store the unit only in r Handle the remote gently and Wipe the remote with a damp 	normal temperature environments. carefully. Don't drop it.		

A 1' A 1'C'	Manufacturer	Codes
Audio Amplifiers	Bose	30674
	GE	30078
	JVC	30331
	Marantz	30321
	Nakamichi	30321
	NEC	30264
	Optimus	30395
	Realistic	30395
	Sansui	30321
	Shure	30264
	Sony	30689
	Soundesign	30078
	Victor	30331
	Wards	30078
	Yamaha	30354, 30133
· · · · · · · · · · · · · · · · · · ·	Manufacturer	Codes
Audio Amp/Tuners	ADC	30531
	Aiwa	31405, 31243, 30121
	Anam	31609, 31074
	Audiotronic	31189
	Bose	31229
	Capetronic	30531
	Carver	31189
	Coby	31263
	Denon	31360, 31142, 30904
	Fonmix	31360
	Glory Horse	31263
	Harman/Kardon	30110
	Hitachi	31273
	Inkel	30027
	Integra	30135
	JBL	30110
	JVC	30074, 31263
	Kenwood	31313, 31570, 30027
	KLH	31428
	Magnavox	31189, 31269, 30531
	Marantz	31189, 31269, 30039
	MCS	30039
	Onkyo	30842, 30135
	Optimus	31023, 30670, 30531, 31074
	Panasonic	31518, 30039

	Manufacturer	Codes
Audio Amp/Tuners	Philips	31189, 31269
	Pioneer	31023, 30150, 30014, 30630, 30531
	Proscan	31254
	Qisheng	31609
	Quasar	30039
	RadioShack	31263
	RCA	31023, 31609, 31254, 30531, 31074
	Sharper Image	31263
	Silsonic	30176
	Sony	31258, 31759
	Soundesign	30670
	Stereophonics	31023
	Sunfire	31313
	Teac	31074, 31267
	Technics	31308, 31518, 30039
	Thorens	31189
	Victor	30074
	Wards	30014
	Yamaha	30176, 31276, 31176
Cable Converters	Manufacturer	Codes
	ABC	00003, 00008, 00014
	Americast	00899
	Bell & Howell	00014
	Bell South	00899
	Clearmaster	00883
	ClearMax	00883
	Coolmax	00883
	Daeryung	01877, 00877, 00477, 00008
	Digi	00637
	Director	00476
	Dumont	00637
	Gehua	00476
	General Instrument	00476, 00810, 00276, 00003, 00014
	GoldStar	00144
	Hamlin	00009, 00273
	Hitachi	00014
	Jerrold	00476, 00810, 00276, 00003, 00012, 00014
	KNC	00008
	LG	00144
	Memorex	00000
	Motorola	00476, 00810, 00276, 01254, 01376
	MultiVision	00012

Cable Converters	Manufacturer	Codes
	Pace	01877, 00237
	Panasonic	00000, 00008, 00107
	Panther	00637
	Paragon	00000
	Philips	00317, 01305
	Pioneer	01877, 00877, 00144, 00533
	Pulsar	00000
	Quasar	00000
	RadioShack	00883
	Regal	00279, 00273
	Runco	00000
	Samsung	00000, 00144
	Scientific Atlanta	01877, 00877, 00477, 00008
	Sony	01006
	Starcom	00003, 00014
	Supercable	00276
	Supermax	00883
	Tocom	00012
	Torx	00003
	Toshiba	00000
	Trans PX	00276
	Tristar	00883
	TS	00003
	V2	00883
	Viewmaster	00883
	Vision	00883
	Vortex View	00883
	Zenith	00000, 00525, 00899

CD Players

Manufacturer	Codes
Aiwa	30157
Burmester	30420
California Audio Labs	30029
Carver	30157, 30179
Denon	30873
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Fisher	30179
Garrard	30420
Genexxa	30032

	Manufacturer	Codes
CD Players	Harman/Kardon	30157, 30173
	Hitachi	30032
	Integra	30101
	JVC	30072
	Kenwood	30826, 30626, 30028, 30037, 30036, 30190
	Krell	30157
	Linn	30157
	Magnavox	30157
	Marantz	30626, 30029, 30157
	MCS	30029
	Miro	30000
	Mission	30157
	MTC	30420
	NSM	30157
	Onkyo	30868, 30101
	Optimus	31063, 30000, 30032, 30037, 30420, 30179, 31075, 30145
	Panasonic	30029
	Parasound	30420
	Philips	30626, 30157
	Pioneer	31063, 31062, 30032
	Polk Audio	30157
	Proton	30157
	QED	30157
	Quad	30157
	Quasar	30029
	RadioShack	31075
	RCA	31062, 30032, 30420, 30179, 30053
	Realistic	30420, 30179
	Rotel	30157, 30420
	SAE	30157
	Sansui	30157
	Sanyo	30179
	SAST	30157
	Sharp	30861, 30037
	Silsonic	30888, 30036
	Sonic Frontiers	30157
	Sony	30490, 30000, 30100
	Soundesign	30145
	TAG McLaren	30157
	Tascam	30420
	Teac	30420
	Technics	30029

CD Players	Manufacturer	Codes
	Victor	30072
	Wards	30157, 30053
	Yamaha	30888, 30036
	Zonda	30157
VD Players	Manufacturer	Codes
	Aiwa	20641, 21912
	Akai	20770
	Allegro	20869
	Apex Digital	20672, 20717, 20797, 21061, 20796, 21056, 21937, 20794, 21020, 21915
	Blaupunkt	20717
	Blue Parade	20571
	Broksonic	20695
	Changhong	20627, 21061
	CineVision	20869
	Coby	21086
	Curtis Mathes	21087
	CyberHome	21024, 21023, 21129, 20816, 21117
	Daewoo	20833, 21172, 20869
	Denon	20490
	DVD2000	20521
	Emerson	20591, 20675
	Enterprise	20591
	Fisher	21919
	Funai	20675
	Gateway	21158, 21073
	GE	20522, 20717
	Go Video	20744, 20833, 21099, 20783, 21075, 20869, 21730
	Greenhill	20717
	Harman/Kardon	20582, 20702
	Hitachi	20573, 20664, 21919
	Hiteker	20672
	Initial	20717
	Integra	20627, 21924
	JBL	20702
	JVC	20558, 20623, 20867
	Kenwood	20490, 20534
	KLH	20717, 21020, 21149
	Koss	20651, 21980

DVD Players	Manufacturer	Codes
DVD Hayoro	Lasonic	20798
	LG	20591, 20869, 20801
	Liquid Video	21980
	Lite-On	21158, 21058
	Loewe	20511
	Magnavox	20503, 20539, 21976, 21914, 20675
	Marantz	20539
	Memorex	20695
	Microsoft	20522
	Mintek	20717
	Mitsubishi	21521, 20521
	Nesa	20717
	Norcent	21003
	Onkyo	20503, 20627, 21924, 20792
	Oritron	20651, 21980
	Panasonic	20490, 21762, 21990
	Philips	20503, 20539, 20646, 21914
	Pioneer	20525, 20571
	Polaroid	21086, 21061
	Polk Audio	20539
	Portland	20770
	Proscan	20522
	Qwestar	20651
	RCA	20522, 20571, 20717, 20822
	Rio	20869
	Rotel	20623
	Sampo	20752, 20698
	Samsung	20490, 20573, 21932, 21075, 20820
	Sansui	20695
	Sanyo	20695
	Sharp	20630, 20752
	Sharper Image	21117
	Sherwood	20770
	Shinco	20717
	Shinsonic	20533
	Sonic Blue	20869, 21099
	Sony	20533, 20864, 21033, 21904, 21903
	SVA	20717
	Sylvania	20675
	Symphonic	20675

DVD Players	Manufacturer	Codes
	Теас	20717, 21984, 20809
	Technics	20490
	Theta Digital	20571
	Toshiba	20503, 20695
	Urban Concepts	20503
	Xbox	20522
	Yamaha	20490, 20539, 20545
	Zenith	20503, 20591, 20869
Satellite Receivers	Manufacturer	Codes
	AlphaStar	00772
	Chaparral	00216
	Crossdigital	01109
	DirecTV	00392, 00566, 00639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01392, 01640, 01442, 01414, 01108
	Dish Network System	01005, 00775, 01505
	Dishpro	01005, 00775, 01505
	Echostar	01005, 00775, 01505
	Expressvu	00775
	GE	00566
	General Instrument	00869
	GOI	00775
	Goodmans	01246
	Hisense	01535
	Hitachi	00819, 00222, 01250
	HTS	00775
	Hughes Network Systems	01142, 00749, 01749, 01442
	I-Lo	01535
	JVC	00775
	LG	01414, 01226
	Magnavox	00724, 00722
	Memorex	00724
	Mitsubishi	00749
	Motorola	00869
	NEC	01270
	Next Level	00869
	Panasonic	00247, 00701
	Paysat	00724
	Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
	Proscan	00392, 00566
	Proton	01535

Catallita Dagaiwara	Manufacturer	Codes
Satellite Receivers	RadioShack	00869
	RCA	00392, 00566, 00855, 00143, 01392
	Samsung	01276, 01109, 01108
	Sanyo	01219
	SKY	00856
	Sony	00639, 01640
	Star Choice	00869
	Tivo	01142, 01442
	Toshiba	00749, 01749, 00790, 01285
	UltimateTV	01640, 01392
	Uniden	00724, 00722
	US Digital	01535
	USDTV	01535
	Voom	00869
	Zenith	00856, 01856
		Codeo
VCRs	Manufacturer ABS	Codes 21972
	Admiral	20048, 20209
	Aiko	20278
	Aiwa	20037, 20479
	Alienware	21972
	America Action	20278
	American High	20035
	Amoisonic	20479
	Anam	20162, 20037, 20240, 20278
	Anam National	20162
	Asha	20240
	Audiovox	20037, 20278
	Beaumark	20240
	Bell & Howell	20104
	Broksonic	20184, 20121, 20209, 20002, 20479
	Calix	20037
	Canon	20035
	Carver	20081
	CCE	20072, 20278
	Changhong	20048, 20081
	Citizen	20037, 20278
	Colt	20072
	Craig	20037, 20047, 20240, 20072
	Curtis Mathes	20060, 20035, 20162
	Cybernex	20240
	CyberPower	21972

VCRs

Manufacturer	Codes
Daewoo	20045, 20104, 20278
Dell	21972
Denon	20042
DirecTV	20739
Durabrand	20039, 20038
Electrohome	20037
Electrophonic	20037
Emerex	20032
Emerson	20035, 20037, 20184, 20240, 20045, 20121, 20043, 20209, 20002, 20278, 20479
Fisher	20047, 20104
Fuji	20035, 20033
Fujitsu	20045
Gateway	21972
GE	20060, 20035, 20240
General	20045
Go Video	20432
GoldStar	20037, 20209, 20038, 20225
Haojie	20240
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
iBUYPOWER	21972
JVC	20045, 20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
Kolin	20043
LG	20037, 20045, 20042, 20209, 20038
Logik	20072
LXI	20037
Magnavox	20035, 20039, 20081
Magnin	20240
Marantz	20035, 20081
Marta	20037

VCRs

Manufacturer	Codes
Matsushita	20035, 20162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240,
	20104, 20209, 20479
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043
Motorola	20035, 20048
MTC	20240
Multitech	20072
NEC	20035, 20037, 20048, 20104, 20067, 20038
Newave	20037
Nikko	20037
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048, 20104, 20432
Orion	20184, 20209, 20002, 20479
Panasonic	21062, 20035, 20162, 20616, 20225
Penney	20035, 20037, 20240, 20042, 20038
Pentax	20042
Philco	20035, 20479
Philips	20035, 20081, 20739, 20618
Pilot	20037
Pioneer	20042, 20067
Polk Audio	20081
Profitronic	20240
Proscan	20060
Protec	20072
Pulsar	20039
Qisheng	20060
Quasar	20035, 20162
Radix	20037
Randex	20037
RCA	20060, 20035, 20240, 20042, 20880
Realistic	20035, 20037, 20048, 20047, 20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
campo	20001, 20070

VCRs

Manufacturer	Codes
Samsung	20240, 20045, 20432
Sanky	20048, 20039
Sansui	20067, 20209, 20479
Sanyo	20047, 20240, 20104
Scott	20184, 20045, 20121, 20043
Sears	20035, 20037, 20047, 20042, 20104
Sharp	20048, 20209
Shintom	20072
Shogun	20240
Singer	20072
Sonic Blue	20616
Sony	20035, 20032, 20033, 20636, 21972
STS	20042
Sylvania	20035, 20081, 20043
Systemax	21972
Tagar Systems	21972
Tashiko	20037
Tatung	20045, 20067
Technics	20035, 20162
Тесо	20035, 20037, 20048, 20038
Teknika	20035, 20037
Tivo	20636, 20618, 21503, 20739
ТМК	20240
Toshiba	20045, 20042, 20067, 20043, 21503, 21008, 21972
Totevision	20037, 20240
Touch	21972
Unitech	20240
Vector	20045
Vector Research	20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20240
Viewsonic	21972
Wards	20060, 20035, 20048, 20047, 20081, 20240, 20042, 200
White Westinghouse	20209, 20072
XR-1000	20035, 20072
Yamaha	20038
Zenith	20039, 20033, 20209, 20479
ZT Group	21972

SANYO COMFORT WARRANTY

WARRANTY APPLICATION

New, unused Sanyo Color Television products purchased in Canada through a Sanyo authorized dealer are warranted against manufacturing defects in materials and workmanship for ONE YEAR for parts and labor, from the date of purchase by the original retail purchaser for non-commercial use. This warranty only applies in favor of the original retail purchaser of the warranted product.

SANYO CANADA INC.'S RESPONSIBILITY

During the warranty period, SANYO Canada Inc. will repair, or at our option, replace a Color Television product which shows evidence of a manufacturing defect in materials or workmanship.

Replacement PARTS are warranted for the remaining portion of the warranty period.

WHAT IS NOT COVERED

- (a) Color Television products purchased outside Canada.
- (b) Color Television products purchased in a used condition.
- (c) Problems due to product set-up and installation.
- (d) Adjustments that are outlined in the Operating Manual.
- (e) Accessory items including antenna, batteries and connecting cables.
- (f) Damage in or due to transportation.
- (g) Damage due to improper maintenance, accident, abuse, misuse or negligence.
- (h) Damage caused by lightning and power surges.

ORIGINAL RETAIL PURCHASER'S RESPONSIBILITY

You, the original retail purchaser, must present your original, dated bill-of-sale together with this warranty to SANYO Canada Inc. or to an authorized Sanyo Service Depot* when you make a claim under this warranty.

You, the original retail purchaser, are responsible for any costs of TRANSPORTING the product to and from SANYO Canada Inc. or an authorized Sanyo Service Depot. You also are responsible for the cost of any MAINTENANCE necessary in respect of the product.

*In-home service is only available to the units whose screen size is 40 inches or over, and limited to the locations within a 30-km radius of any authorized Sanyo Service Depot, throughout Canada.

WARRANTY BECOMES VOID This warranty becomes void if the product's serial numbers are altered or removed or if any repair to the product is made other than by SANYO Canada Inc. or by an authorized Sanyo Service Depot.

LIMITATIONS

- (a) SANYO Canada Inc. reserves the right to change or improve the design of the model of the product warranted hereunder without incurring any obligation to make any modifications to or to install any improvement in or on the product.
- (b) In no event shall SANYO Canada Inc. or any of its Authorized Dealers be liable for special or consequential damage arising from the use of this product.

STATUTORY WARRANTIES

The above provisions do not preclude the operation of any applicable provincial statute which in certain circumstances may not allow some of the limitations and exclusions described in this Warranty. Where any terms of this Warranty are prohibited by such a statute, they shall be deemed null and void but the remainder of this warranty shall remain in effect.

HOW TO OBTAIN WARRANTY SERVICE

Please contact the Sanyo Authorized Dealer from whom the product was purchased or contact us directly at:

SANYO Canada Inc. 300 Applewood Cres. Concord Ont. L4K 5C7 (905) 760-9944 1-800-263-2244

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