

ViewSonic®

N4280p

LCD TV

- **User Guide**
- **Guide de l'utilisateur**
- **Guía del usuario**



ViewSonic®

Model No. : VS11838-1M

Compliance Information

FCC Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).

The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Important Safety Instructions

1. Read these instructions completely before using the equipment.
2. Keep these instructions in a safe place.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this equipment near water. **Warning:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
6. Clean with a soft, dry cloth. If further cleaning is required, see “Cleaning the LCD TV” in this guide for further instructions.
7. Do not block any ventilation openings. Install the equipment in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not attempt to circumvent the safety provisions 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 and the third prong are provided for your safety. If the plug does not fit into your outlet, consult an electrician for replacement of the outlet.
10. Protect the power cord from being tread upon or pinched, particularly at the plug, and the point where it emerges from the equipment. Be sure that the power outlet is located near the equipment so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a 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 equipment when it will be unused for long periods of time.
14. Refer all servicing to qualified service personnel. Service is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.
15. This product is only to perform the useful function of entertainment and visual display tasks are excluded.

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

| Substance | Proposed Maximum Concentration | Actual Concentration |
|---|--------------------------------|----------------------|
| Lead (Pb) | 0.1% | < 0.1% |
| Mercury (Hg) | 0.1% | < 0.1% |
| Cadmium (Cd) | 0.01% | < 0.01% |
| Hexavalent Chromium (Cr ⁶⁺) | 0.1% | < 0.1% |
| Polybrominated biphenyls (PBB) | 0.1% | < 0.1% |
| Polybrominated diphenyl ethers (PBDE) | 0.1% | < 0.1% |

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.

Copyright Information

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com.

| For Your Records | |
|-------------------------|--|
| Product Name: | N4280p ViewSonic LCD TV |
| Model Number: | VS11838-1M |
| Document Number: | N4280p-1M_UG_ENG Rev. 1A 05-09-07 |
| Serial Number: | _____ |
| Purchase Date: | _____ |

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. Your local waste disposal company may provide information about proper disposal.

The lamp in this product contains mercury. Please dispose of properly in accordance with environmental laws of your location.

Antenna Installation Instructions

1. Outdoor Antenna Grounding

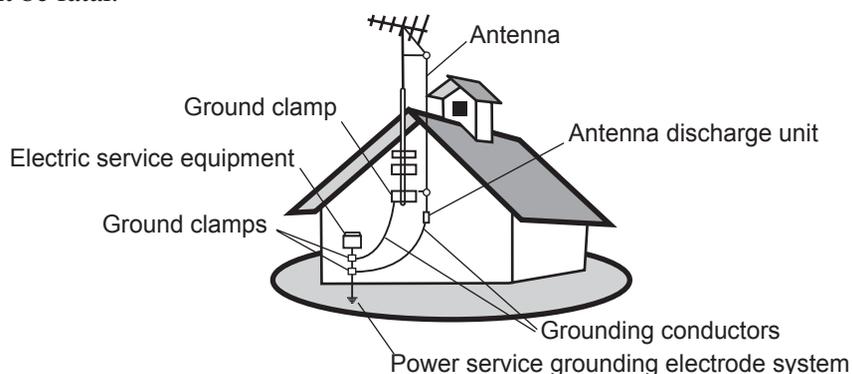
If an outside antenna or cable system is connected to the product be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges, Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper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

2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Do not disconnect the antenna or the power cord during a heavy storm lightning may strike while you are holding the cable cord, causing serious injury; turn off your LCD TV and wait for the weather to improve.

3. Power Lines

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



Cleaning the LCD TV

- Make sure the LCD TV is turned off.
- Never spray or pour any liquid directly onto the screen or case.

To clean the screen:

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:

1. Use a soft, dry cloth.
2. If still not clean, apply a small amount of a non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the LCD TV screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the LCD TV. ViewSonic will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

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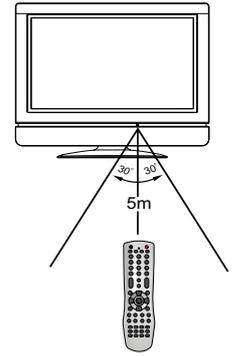
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Setup

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.

Note: This illustration is for reference only. The remote sensor may be in different locations on different models.

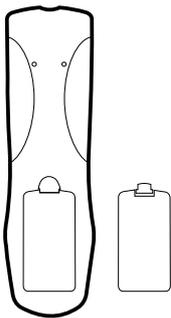


Cautions regarding use of remote control

- 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.

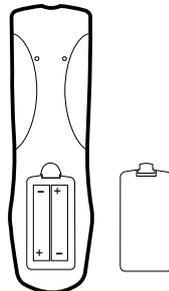
Batteries for the Remote Control

1 Open the battery cover.

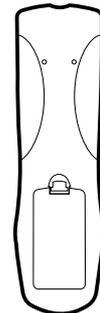


2 Insert two size-AA batteries.

- (Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.)



3 Replace the cover.



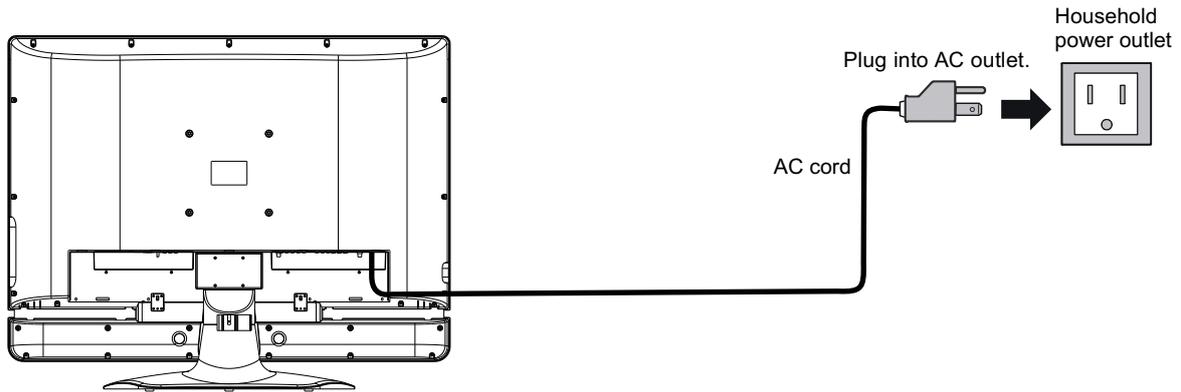
Precaution on battery use

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.

Setup

Power connection

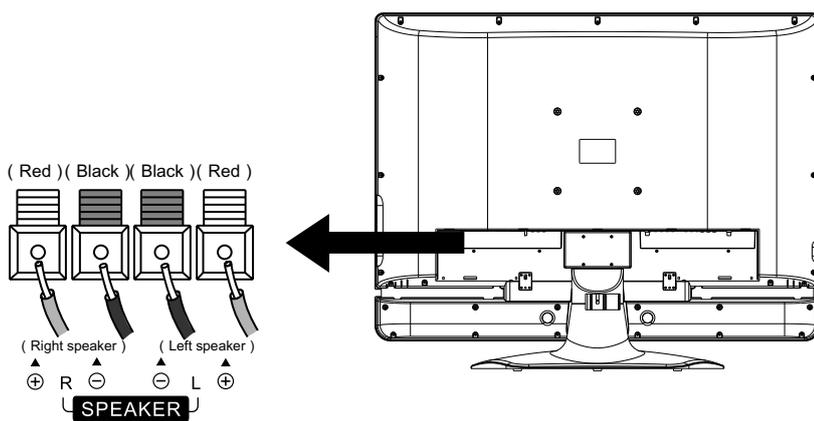


Connecting the AC plug to the wall outlet as illustrated.

Note:

- This product should be operated only from the type of power source indicated on the marking label.
- Always unplug the AC cord from power outlet when not using for a long period of time.

Speaker connection



Connect the speaker audio cable to the external speaker output jacks on the unit matching the "+" and "-" ends of the cable by color.

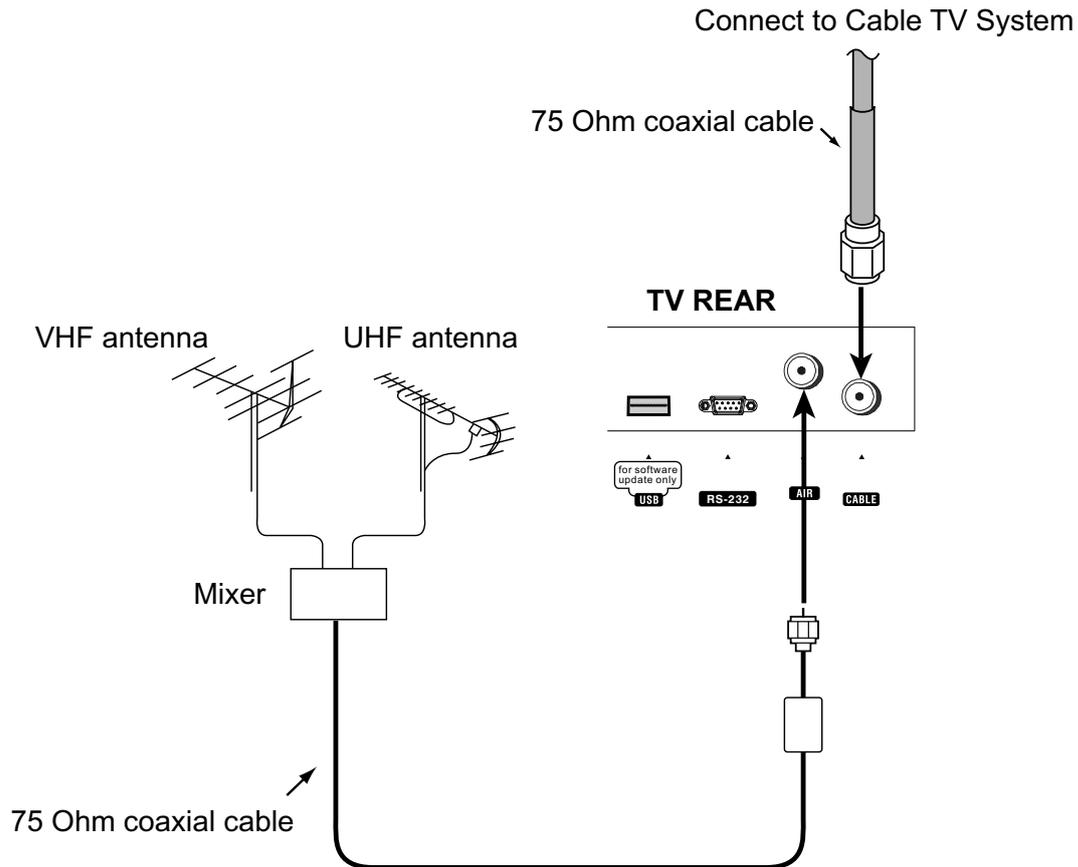
Note:

1. Unplug the TV set and all connected components before connecting the speakers.
2. The illustration may be different depending on model.

Setup

Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.
- When you enjoy the terrestrial TV programs, connect the antenna to the **AIR** input on the TV rear.
- When you enjoy the cable TV programs, connect the cable TV's cable to the **CABLE** input on the TV rear.
- Select the TV Source (**AIR** or **CABLE**) in the CHANNEL SETUP menu and then perform auto channel search. (See <Memorizing the Channels> section)

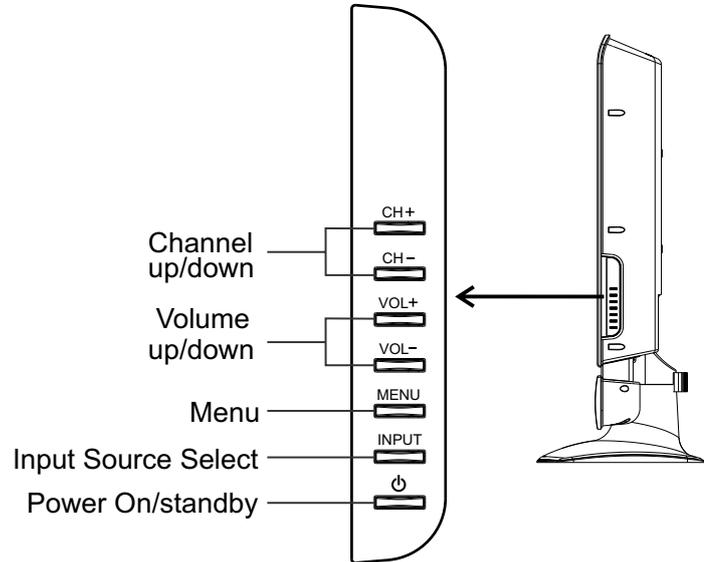
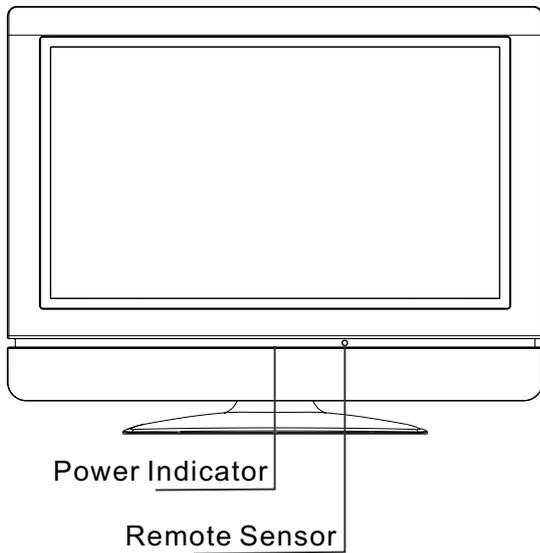


Notes:

- To obtain optimum quality picture and sound, an antenna, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.
- If a communal antenna system is used, you may require the correct connection cable and plug between the wall antenna socket and your television receiver.
- Your local television service centre or dealer may be able to assist you in obtaining the correct antenna system for your particular area and the accessories required.
- Any matters regarding antenna installation, upgrading of existing systems or accessories required, and the costs incurred, are your responsibility.

Identification of Controls

Main unit (front view)



1. POWER ⏻

Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY.

2. INPUT

To select the input signal source

3. MENU

Press this button to access the MENU main page.

4. Volume up/down

Press the Volume up/down button to directly increase or decrease the sound volume level.
In OSD Menu, press these buttons to adjust the value or setting of each item

5. Channel up/down

Channel up or down.

In OSD Menu, press these buttons to choose the OSD items.

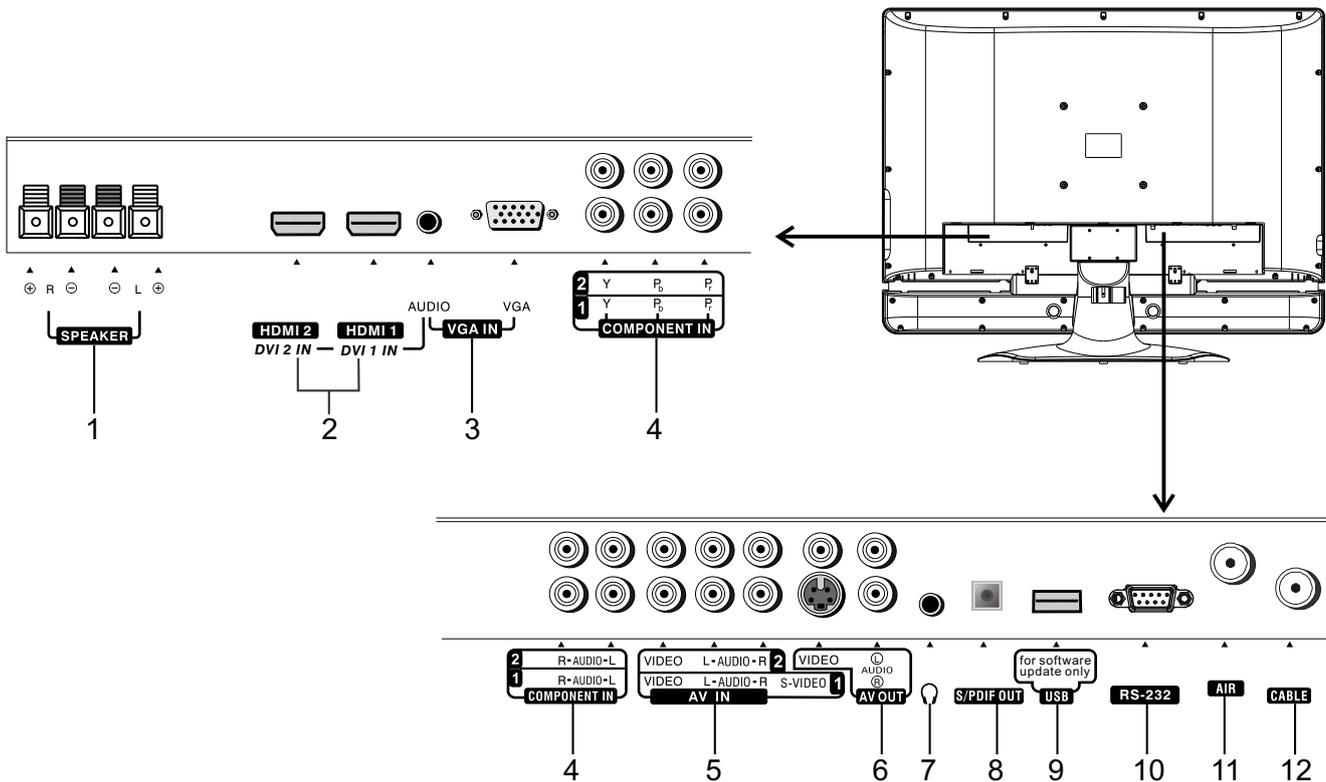
Note:

POWER ⏻, **VOL+/-**, **CH+/-**, **MENU** and **INPUT** on the main unit have the same functions as the corresponding buttons on the remote control.

This operation manual provides a description based on operating functions with the remote control.

Identification of Controls (continued)

Main unit (rear view)



1. Speaker output jacks

2. HDMI/DVI inputs 1/2

To connect with those equipments with HDMI or DVI interface, for example, Set-top box or DVD player.(A HDMI-to-DVI adapter cable is required when you are connecting a DVI-equipped device to this TV.)

3. VGA interface/Audio in

Connect with those equipments with VGA interface, for example, PC.
Connect the audio jack as well with audio cable.

4. Component inputs 1/2

Connect to the audio and component output jacks of a DVD player or Set-top box.

5. AV inputs 1/2

Receive video/audio signals from external sources such as VCR or DVD player.

6. AV output

Connect to the VCR input jacks to record programs.

7. Headphone jack

8. S/PDIF digital audio out terminal (optical)

9. USB port

For software update only. The user can not operate the unit through the USB port.

10. RS-232 control interface

For service only. The user should not use this interface.

11. AIR antenna input

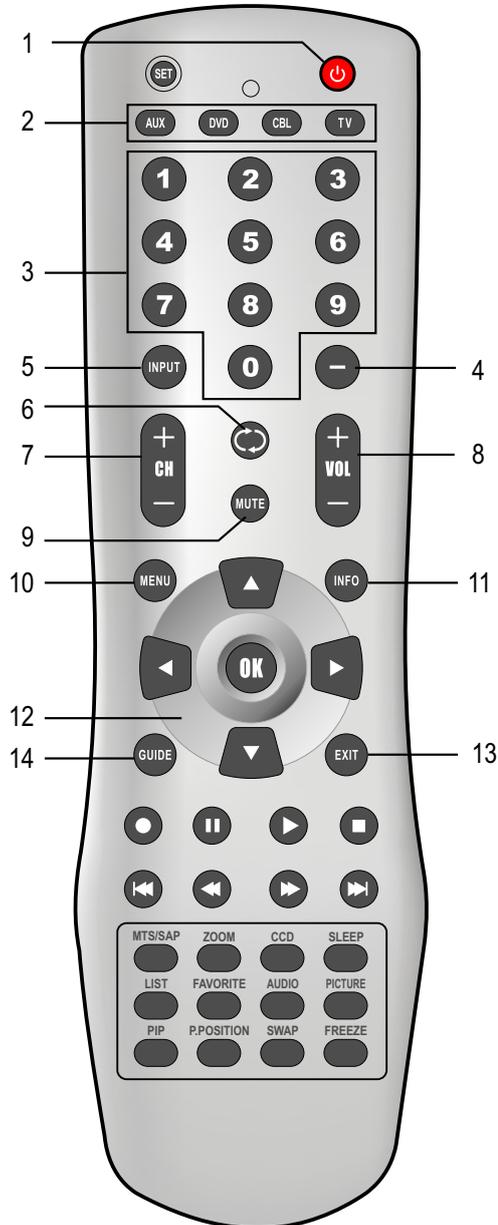
Connect to outdoor antenna.

12. CABLE input

Connect to a cable TV system.

Identification of Controls

Remote Control



1. POWER

Turn the unit on or off

2. To select additional products to be controlled with remote control

Note: 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. Direct channel selector/number buttons

Use these number buttons to select channel or input password.

4. Dash(-)

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

5. INPUT

To quickly select input source

6. RETURN

To quickly return to the previous channel

7. CH+/-

To select channels upward or downward

8. VOL+/-

Used to adjust volume.

9. MUTE

Sound mute

10. MENU

To access the Menu main page

11. INFO

To display channel status or signal information

12. Menu navigation buttons:

  : To move upward or downward in menu operation;

  : To move left or right in menu operation;

To adjust selected menu item in menu operation;

OK button: To confirm or toggle between the settings of the selected menu item.

13. EXIT

Used to exit the menu

14. GUIDE

To display the on-screen Electronic Program Guide(EPG)

Identification of Controls

Remote Control



15. ZOOM

To select screen aspect ratio

16. CCD

To select closed caption mode

17.MTS/SAP

To select STEREO, SAP or MONO (Analog TV mode)

To select audio track (DTV mode)

18.SLEEP

To set Sleep timer

19.LIST

To display program list

20.PICTURE

To select the picture mode

21. FAVORITE

To display favorite program list

22. AUDIO

To select the sound mode

23. PIP

To select PIP/PBP/POP/full screen mode

24. FREEZE

To freeze current picture

25. P.POSITION

To select PIP sub picture position

26.SWAP

To swap the main and sub pictures
(only in PIP or PBP mode)

Note: the buttons without description are not active.

Connections

Cautions before connecting

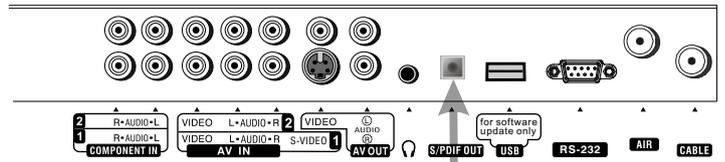
- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or color problems. Make sure that all connectors are securely inserted into their terminals. Refer to the user manual of the external device as well.
- When connecting an external device, turn the power off on the panel to avoid any issues.

Connect an Audio Processor or Hi-Fi (Digital Audio)

For a full Home Theater sound experience, you must connect your Hi-Fi or Audio processor to the S/PDIF OUT(Optical) terminal on the TV rear.

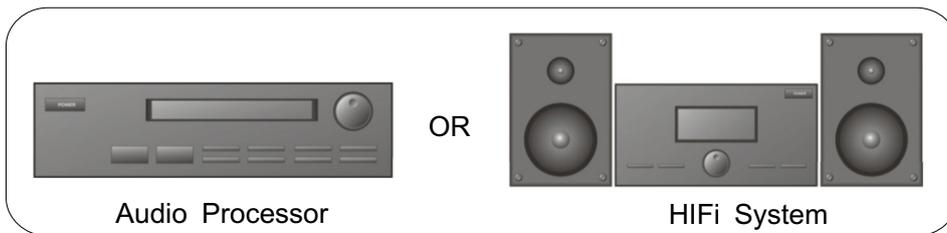
Note:

The S/PDIF OUT terminal only can output digital TV program's audio.



Optical cable

S/PDIF IN
(Optical)



Connect a VCR

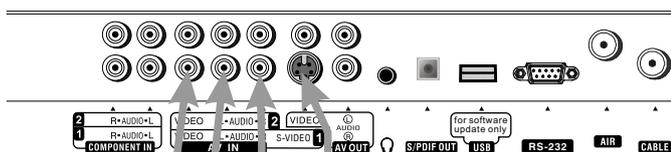
How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

Note: For better video, you can use the S-VIDEO terminal if your source supports it. S-VIDEO input uses the same circuit as Video1. S-VIDEO has priority if both connectors are inserted. Use one or the other.

To play VCR

1. Turn on your TV, press **INPUT** button on the remote control to display **INPUT SELECT** menu, use **▲/▼** to select **AV1/SVideo** and then press **OK** to confirm.
2. Turn on your VCR, insert a videotape and press the Play button.

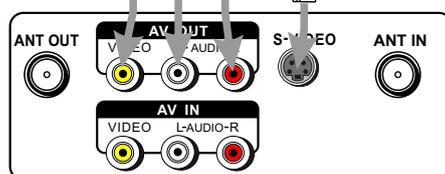


S-video cable

Video cable

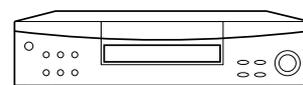
Audio cable

- ⓪ Yellow (VIDEO)
- Ⓜ White (AUDIO L)
- Ⓜ Red (AUDIO R)



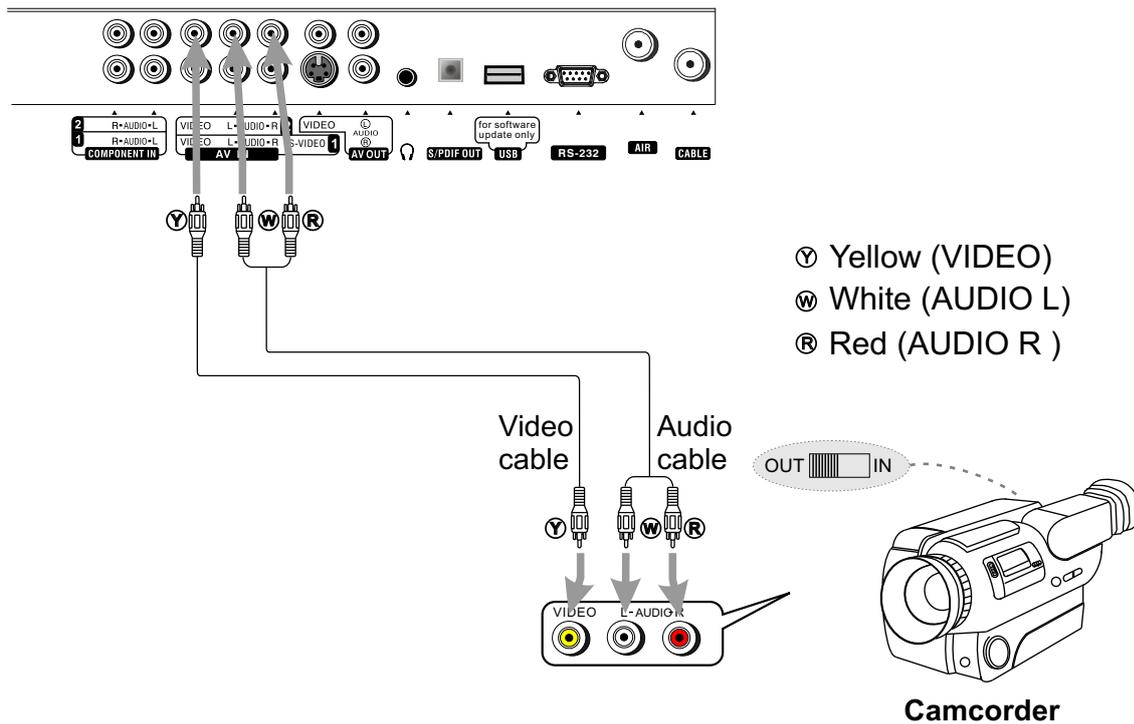
Rear of the VCR

VCR



Connections (continued)

Connect a Camcorder



How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

To playback Camcorder

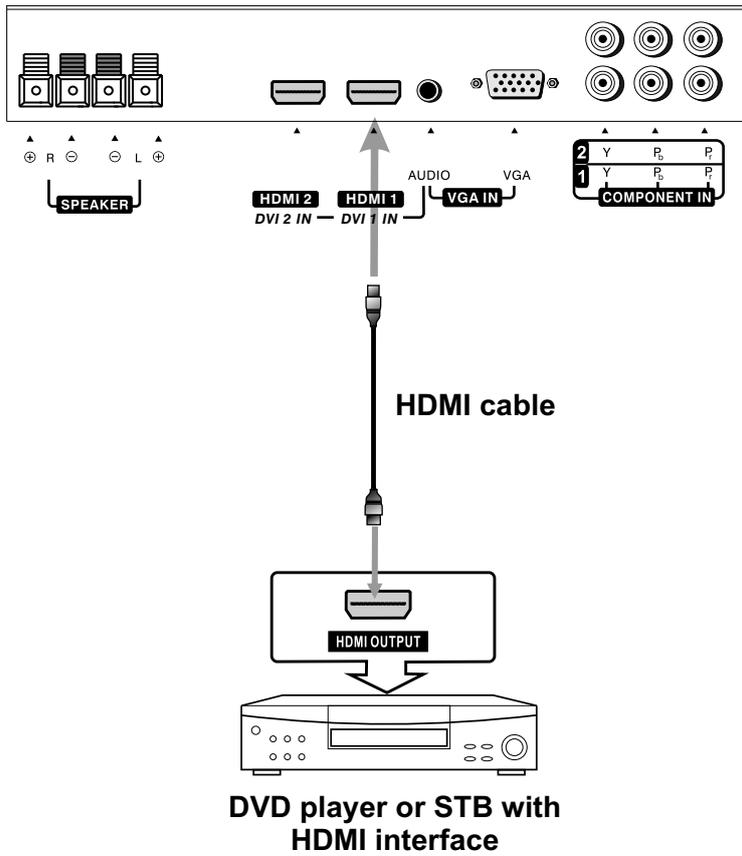
1. Turn on your TV, press **INPUT** button on the remote control to display **INPUT SELECT** menu, use **▲/▼** to select **AV2** and then press **OK** to confirm .
2. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder user manual.)
3. Insert the tape into the camcorder and press Play button.

Note:

The operations of the camcorder may be different and is dependant on your model. Please read the user manual of your camcorder to confirm operation.

Connections (continued)

HDMI Connection



How to connect a DVD Player (or STB) using HDMI Connection:

Connect the HDMI cable between the HDMI interface on the unit and HDMI output on the DVD player (or STB).

To playback DVD (or STB)

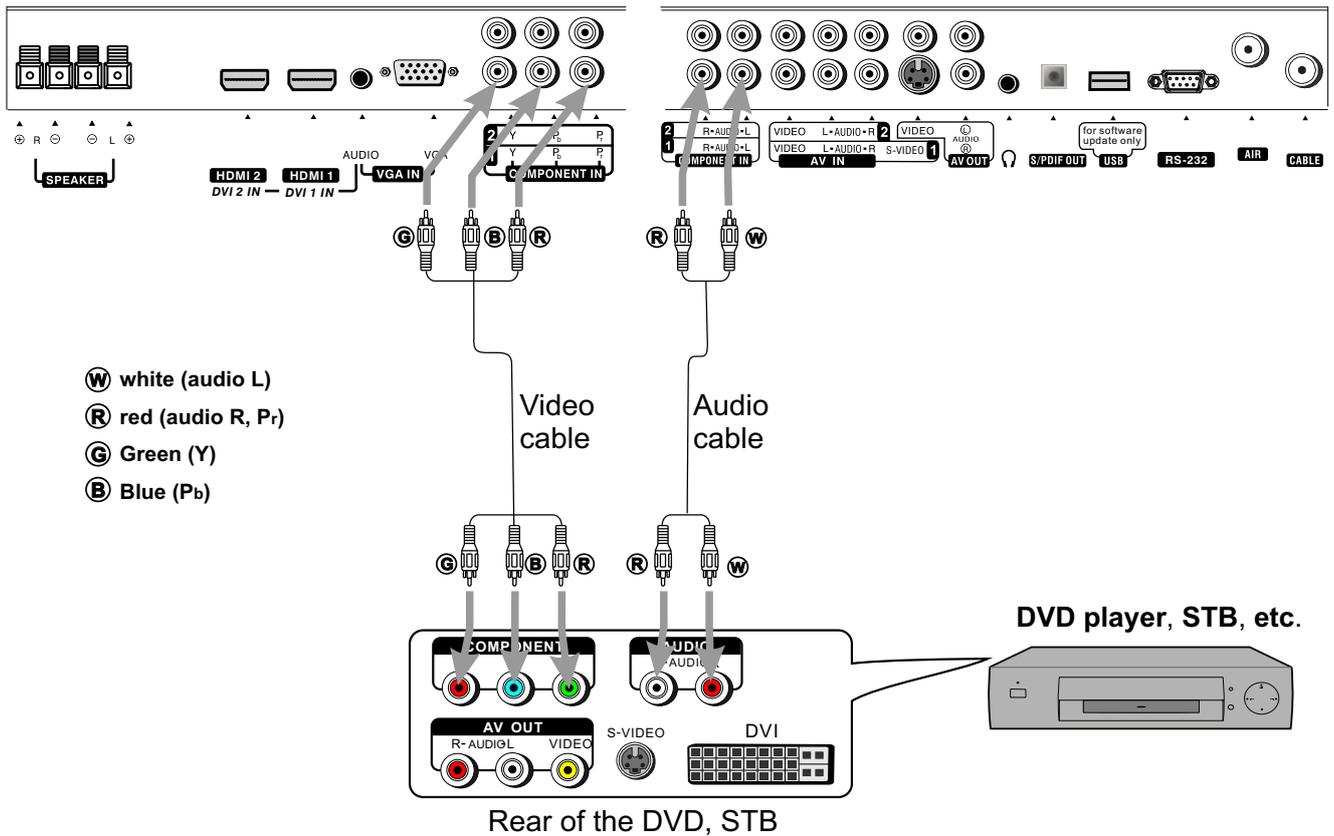
1. Turn on your TV, press **INPUT** button on the remote control to display **INPUT SELECT** menu, use \blacktriangle / \blacktriangledown to select **HDMI1** (or select **HDMI2** if HDMI2 interface is used) and then press **OK** to confirm.
2. Turn on your DVD player or STB and do relative operations.

Note:

If the external device has DVI output only, use a DVI to HDMI adapter cable to connect to the HDMI terminal. Connect the audio cable to the **AUDIO** terminal of **VGA IN** on the TV rear.

Connections (continued)

Connect a DVD player or Set-Top Box



How to connect:

Connect the Video cable between the Y, Pb, Pr input jacks on the unit and Y, Pb, Pr output jacks on the DVD (or STB). Component color inputs provide luminance and separate color signal.

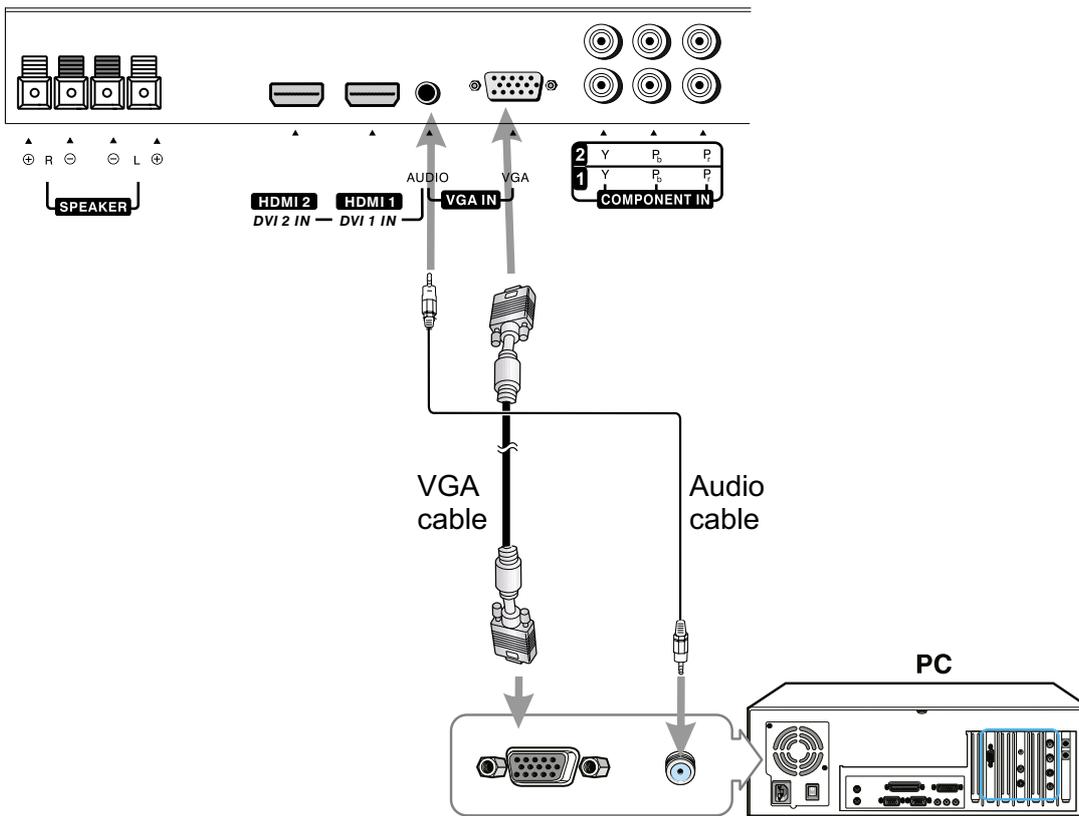
Connect the Audio cable between the AUDIO input jack on the unit and AUDIO output jacks on the DVD (or STB).

To playback DVD or STB

1. Turn on your TV, press **INPUT** button on the remote control to display **INPUT SELECT** menu, use **▲/▼** to select **Component1** (or select **Component2** if COMPONENT2 input terminals are used) and then press **OK** to confirm.
2. Turn on your DVD or STB and do relative operations.

Connections (continued)

Connect a PC



How to connect:

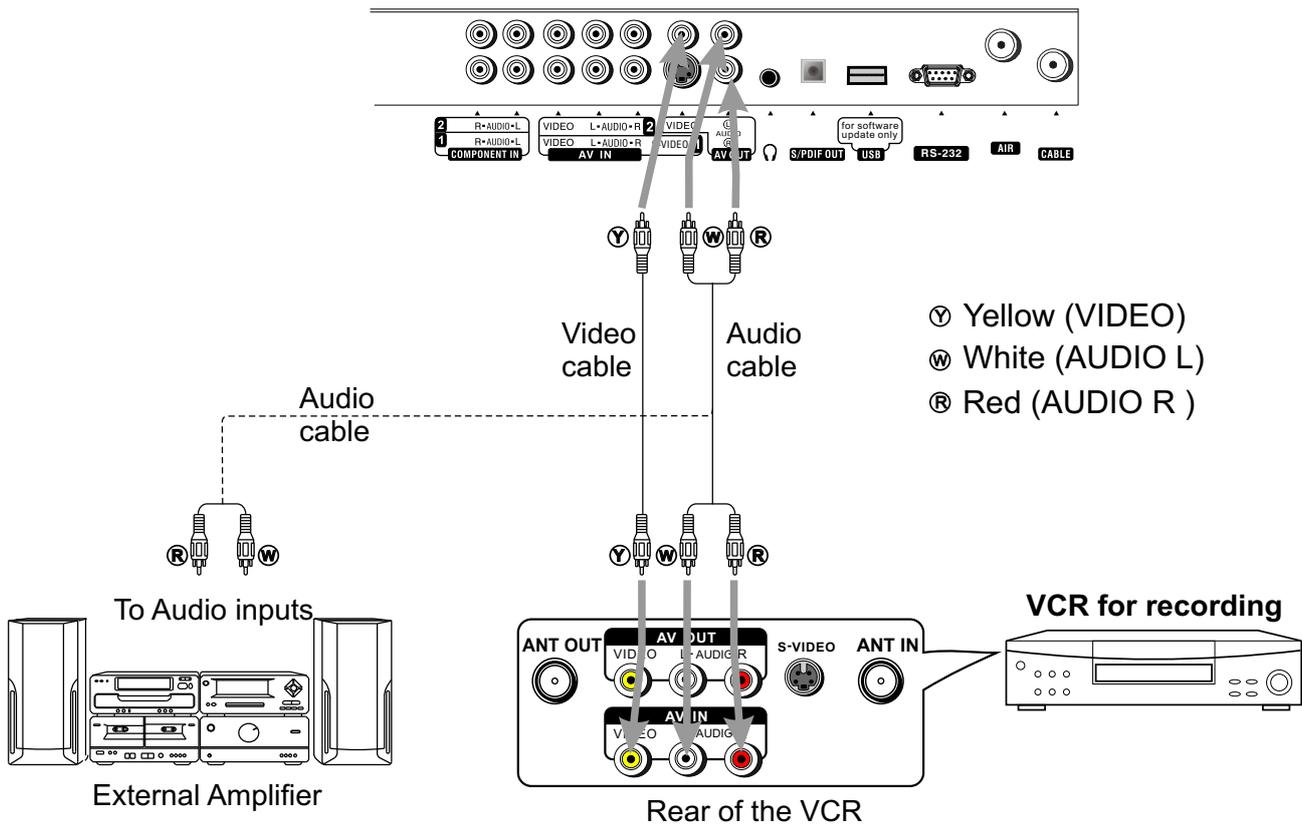
Connect a VGA cable between the VGA(D-sub) interface on the PC and the VGA input interface on the unit.
Connect an Audio cable between the AUDIO output on the PC and AUDIO input jack on the unit.

To Watch the PC screen

1. Turn on your TV, press **INPUT** button on the remote control to display **INPUT SELECT** menu, use **▲/▼** to select **Analog RGB** and then press **OK** to confirm.
2. Turn on your PC and check for PC system requirements.
3. Adjust the PC screen.

Connections (continued)

Connect a VCR (for recording) or external amplifier



How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.



Connect the Audio cables between the Audio (L/R) jacks on the unit and external amplifier.

To record program

1. Turn on your TV, select a program you wish to record.
2. Turn on your VCR, insert a videotape for recording.
3. Press the Record button to begin recording.

To enjoy high-quality sound through an external amplifier

Note:

The operations of the amplifier may be different depending on model. Please read the user manual of your amplifier to confirm proper operation.

Only analog TV programs, AV1 and AV2 input sources can be output through the AV output jacks.

Basic Operations

Turning the Unit On and Off

Turning On

Insert the power cord into the wall outlet.

Press the **Power** ⏻ button on the remote control, the unit will be turned on and you will be ready to use its features.

Turning Off

With the power on, press the **Power** ⏻ button on the remote control to turn off.

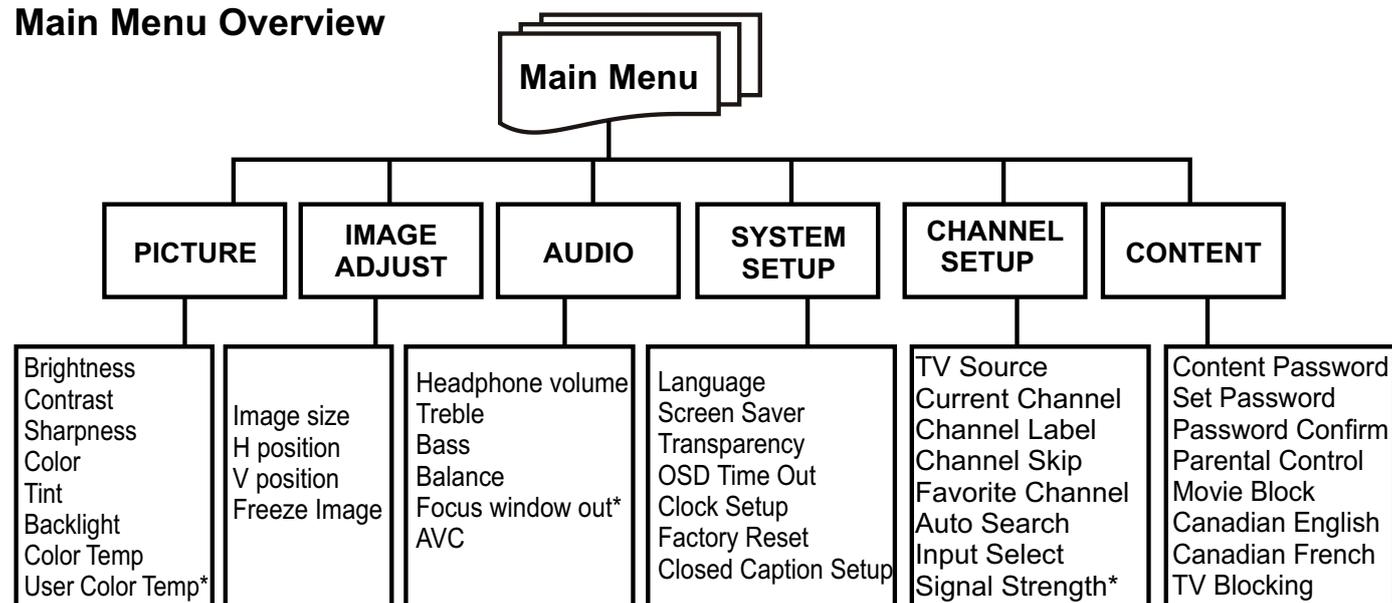
Note: You can also use the **Power** ⏻ button on the control panel on the main unit.

The period between Turn-Off and Turn-On should be more than 3 seconds.

Viewing the Menus and Displays

This unit has a simple, easy-to-use menu system that appears on the screen. This system makes it convenient and fast to use features on the unit. The unit also lets you display the status of many of your TV features.

Main Menu Overview



Note:

- The above main menu is illustrated as in TV mode.
- In DTV mode, there is no H position and V position item in IMAGE ADJUST menu.
- Only in DTV mode it will appear Signal Strength bar in CHANNEL SETUP menu.
- The menu items marked with * will appear only on some conditions. In CONTENT menu, 'Content Password' menu item will not be displayed after you use the password to access the menu.

Menu navigation

- 1 With the power on, press the **MENU** button to display the main menu.
- 2 Press **▶** or **◀** button to select menu page.
- 3 Press **▼** button to enter the menu page.
- 4 Within the menu, use **▼** or **▲** to select, use **◀** or **▶** to adjust or enter sub-menu. In some situations, press **OK** button to confirm or toggle some settings.
- 5 Press **MENU** button to return to the previous level menu. Press **EXIT** button to exit the main menu and return to your program.

Note:

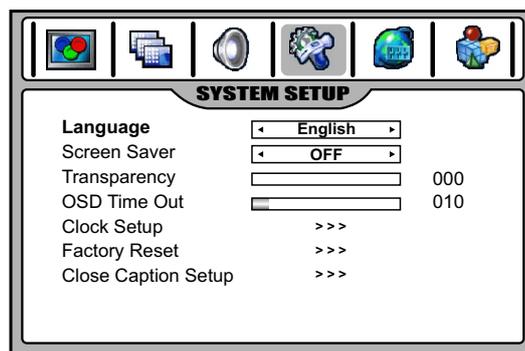
- To clearly introduce the menu operations, this operation manual provides a description based on operation with the remote control.
- The illustrations and on-screen displays in this manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual ones.

Basic Operations

On-screen Menus Language Selection

The menus can be shown on the screen in the selected language. First select your language.

- 1 Press **MENU** and then use **▶** or **◀** to display **SYSTEM SETUP** menu page, press **▼** to enter.
- 2 Press **▼** or **▲** to select **Language** item, press **◀** or **▶** to select your desired language.
- 3 Press **EXIT** button to return to TV viewing.



Selecting Input Source Signal

- 1 Press the **INPUT** button to display **INPUT SELECT** menu.
- 2 Press **▼** or **▲** to select your desired input source, press **OK** to confirm.
- 3 Press **INPUT** button to clear the screen.

TV -----Select TV signal.

AV1/SVideo-----Select signal from AV INPUT1/S-VIDEO terminals.

AV2-----Select signal from AV INPUT2 terminals.

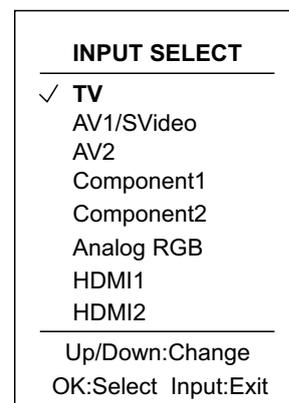
Component1-----Select signal from COMPONENT INPUT1 terminals.

Component2-----Select signal from COMPONENT INPUT2 terminals.

Analog RGB-----Select signal from VGA input interface.

HDMI1-----Select signal from HDMI1 input interface.

HDMI2-----Select signal from HDMI2 input interface.



Note:

- You may also make use of OSD main menu (**CHANNEL SETUP** menu) to select the input source.
- You can edit source name to your preference (refer to "**System Setup**" section).

Information Banner

You can press **INFO** button to call up information banner. The information banner will display current status information such as channel number or signal source, etc.

In DTV mode, it will display the following information:

- Channel number and name.
- Air or Cable.
- Resolution.
- Current time.
- Caption icon (if closed caption is turned on), Clock icon (if timer has been setup).
- Current program broadcast progress.
- Current program start and end play times.

Note:

Some DTV programs' information banner may not contain all the above information. It will vary depending on the broadcaster and your setting.

Memorizing the Channels

When the TV powers on for the first time after purchase, the initial auto channel search is invoked. This unit can automatically find all channels available through antenna or cable inputs, and store them in memory.

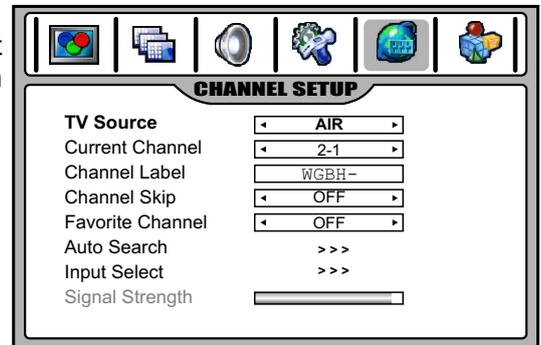
Note: Be sure to select the TV input (refer to <Selecting Input Source Signal> section on previous page) before operation.

Selecting the TV Source

Before your TV can memorize the available channels, you must specify the type of signal source that is connected to the unit. (i.e., an antenna or cable system)

- 1 In full screen mode, press **MENU** to display the main menu.
- 2 Press **▶** or **◀** to display **CHANNEL SETUP** menu page, press **▼** to enter.
- 3 Press **▼** or **▲** to select **TV Source** item, press **◀** or **▶** to select **AIR** or **CABLE**.

- Select **AIR** if using antenna.
- Select **CABLE** if using cable.

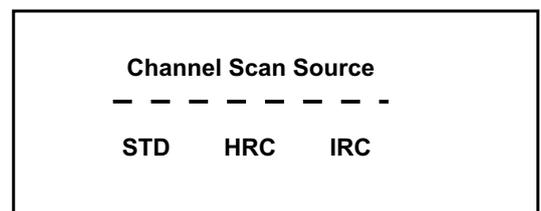
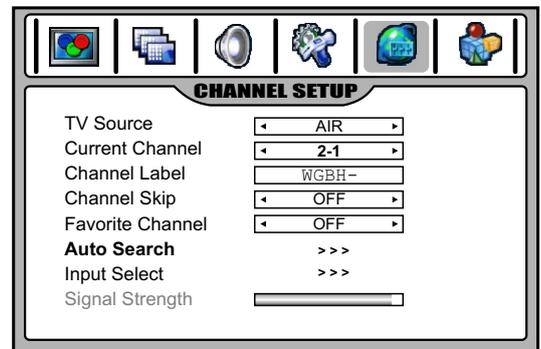


Auto Channel Search

If TV Source is set to AIR: highlight **Auto Search** in the **CHANNEL SETUP** menu and then press **▶** or **◀** to begin the auto channel search, the unit will automatically search for all available TV/DTV program.

If TV Source is set to CABLE: highlight **Auto Search** in the **CHANNEL SETUP** menu and then press **▶** or **◀**, now a **Channel Scan Source** window opens up. Use **▶** or **◀** to select one of **STD**, **HRC**, **IRC** and then press **OK** to begin the auto channel search, the unit will automatically search for all available CATV/CADTV program.

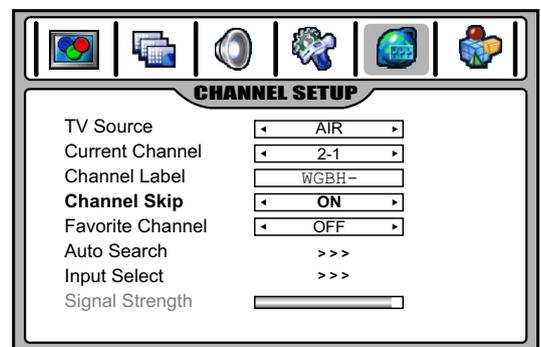
- Note:**
- If you want to stop the auto-search, press **MENU** button.
 - Select one of Cable STD/HRC/IRC according to your local area's cable system, **normally please select STD**.



Channel Skip

After setting channels into memory, you can skip unnecessary channels so that only the channels you want to watch are selected with Channel up/down buttons.

- 1 Navigate to the **CHANNEL SETUP** menu.
- 2 Highlight **Current Channel** item, use **◀** or **▶** to select an unwanted channel.
- 3 Highlight **Channel Skip** item, use **◀** or **▶** to set **ON**.
- 4 If you want to skip other unwanted channels, repeat the above steps.
- 5 Press **EXIT** button to exit.



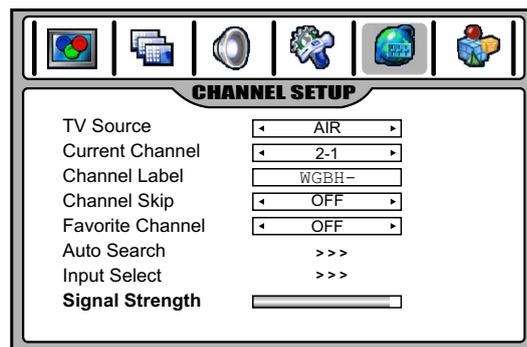
Now when you use **CH+/-** buttons to cycle among the channels, the skipped channels can not be selected.

Memorizing the Channels (continued)

DTV Signal Strength

You can make use of DTV signal strength bar to check how strong your DTV signal is and whether you need to adjust your antenna or digital cable input. The stronger the signal strength, the less likely you are to experience picture degradation.

Navigate to the **CHANNEL SETUP** menu, at the bottom of the menu screen the **Signal Strength** bar is displayed indicating the level and quality of signal that is received by the unit for the current DTV channel.

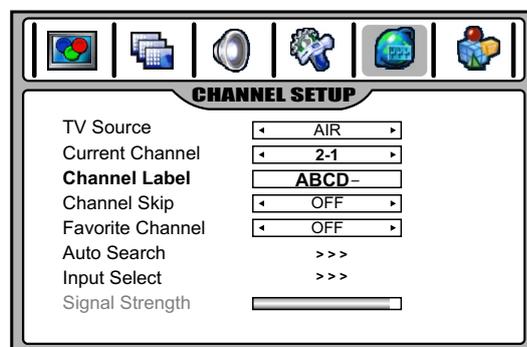


Channel Label Setup

If required, you can give a name to the programs. (Only for analog channels)

- 1 Navigate to the **CHANNEL SETUP** menu and highlight **Channel Label**.
- 2 Press **OK** to enter into channel label editing mode. Use **← / →** to move the cursor, use **▲ / ▼** to select character. Press **MENU** to exit the editing mode.
- 3 Press **EXIT** button to return to TV viewing.

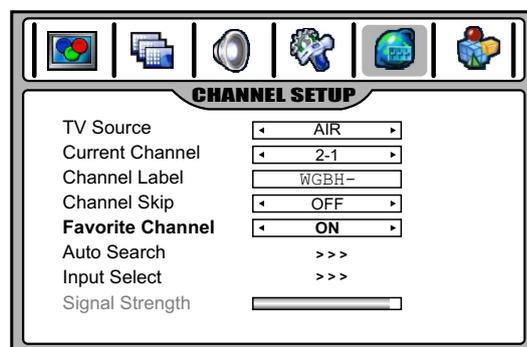
Note: the names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.



Favorite Channel Setup

You can create a favorite channel list into memory as follows:

- 1 Navigate to the **CHANNEL SETUP** menu.
- 2 Highlight **Current Channel** item, use **←** or **→** to select your favorite channel.
- 3 Highlight **Favorite Channel** item, use **←** or **→** to select **ON**.
- 4 Repeat the above steps to set more favorite channels (up to 10 channels)
- 5 Now a favorite channel list is created, and you can make use of it to quickly select your favorite channel. Press **FAVORITE** button to call up the Favorite channel list, use **▲ / ▼** to highlight the channel, use **OK** to select that channel.



Channel Selection

Information about USA channel numbering

- ATSC PSIP channel has two part channel number:

- Major channel number
- Minor channel number

For example: Channel: 5-1
Major channel number ↑ Minor channel number ↑

- In US, in most situations the major channel number is same for both analog and digital channels (It is equal to the NTSC channel number for existing broadcasters.)
- In US, a minor channel number of zero is used for a broadcaster's analog channel.

Channel Numbering Example

- Original NTSC Channels for Des Moines:
 - 5, 8, 11, 13, 17
- Possible NTSC + ATSC Channels for Des Moines:
 - 5-0, 8-0, 11-0, 13-0, 17-0 (channel numbers for existing analog channels)
 - 5-1, 5-2, 8-1, 8-2, 8-3, 8-4, 13-1 (channel numbers for digital channels)

Channel Selection

Using the Channel up/down buttons (CH+ or CH-)

Press the **CH+** or **CH-** to cycle among available channels found (while the skipped channels can not be selected)

Using the direct select buttons (0-9 and dash buttons)

Press the **number buttons (0-9)** and the **dash (-)** button, and the unit goes to that channel.

For example, if you want to select channel 8-3, just key in '8', '-', '3' on the remote control. (Be sure the period of two-press should be within 3 seconds)

Note:

- When you use the number buttons, you can directly select any channel within the channel range.
- In some situations virtual channel numbers have no correspondence to physical frequencies.
- To select an analog channel, you may directly input its major channel number. It is unnecessary to input the minor channel number of zero.

Using the LAST button

Press this button to switch between the current channel and the last viewed channel.

Using the PROGRAM LIST or FAVORITE LIST

After auto-search, a default program list has been created. You may press **LIST** button to call up the **PROGRAM LIST**, then make use of ▲/▼ to highlight the channel, and then press **OK** to select.

If you have created your favorite program list, you may press **FAVORITE** button to call up the **FAVORITE LIST**, then make use of ▲/▼ to highlight the channel, and then press **OK** to select.

- Note:** 1) In twin window mode, then the above list is only for main window.
2) The OSD illustrations shown on the right are only served as an example and may differ from the actual ones.

| PROGRAM LIST | |
|--------------|---------|
| Digital 2-1 | WGBH-SD |
| Digital 2-2 | PBS-HD |
| Analog 6-0 | |
| Analog 7-0 | |

| FAVORITE LIST | |
|---------------|------|
| Digital | 2-1 |
| Digital | 2-3 |
| Analog | 12-0 |
| Analog | 48-0 |

Setting Picture

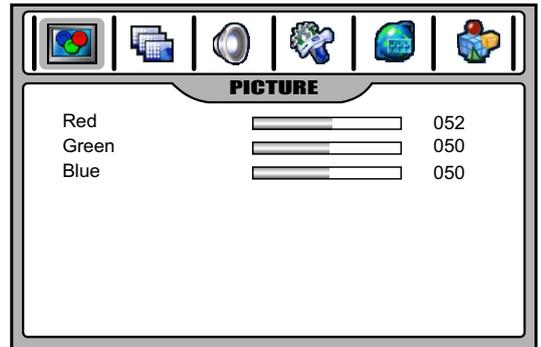
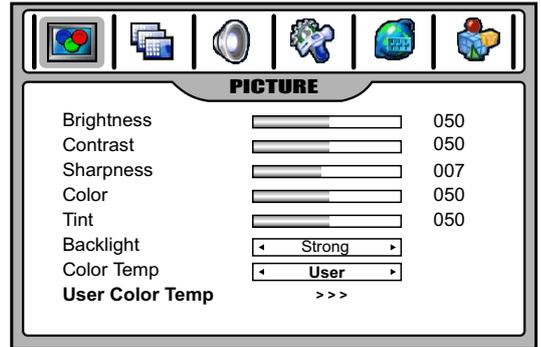
Customizing the Picture

- 1 Press **MENU** to display the main menu.
- 2 Press **◀** or **▶** to display **PICTURE** menu page, press **▼** to enter.
- 3 Within the menu, use **▲** or **▼** to select item, use **◀** or **▶** to adjust. When **Color Temp** is set to **User**, then you can enter into **User Color Temp** sub-menu to customize the color temperature.
- 4 Press **EXIT** button to return to TV viewing.

Notes:

The OSD illustrations shown on the right are PICTURE menu in TV mode.

The menu items may be different when the unit works in different mode.



| Option | Function | Choice/remarks |
|------------------------|--|---------------------------------------|
| Brightness | Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair. | ▶ : lighter ◀ : darker |
| Contrast | Adjusts image contrast. | ▶ : stronger ◀ : weaker |
| Sharpness | Adjusts image sharpness and displays a sharp image. | ▶ : sharper ◀ : softer |
| Color | Adjusts color saturation. | ▶ : stronger ◀ : weaker |
| Tint | Adjusts tint for image. | ▶ : greenish ◀ : purplish |
| Backlight | Adjusts panel backlight brightness. | Strong/Weak/Medium |
| Color Temperature | Adjusts the color temperature of the image. Sets to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue. | Cool/Warm/User |
| User Color Temperature | Red | Adjusts the color RED of the image. |
| | Green | Adjusts the color GREEN of the image. |
| | Blue | Adjusts the color BLUE of the image. |

Setting Picture/Adjusting Image

Picture Mode Selection

You can select the picture quality instantly among three preset modes and one user-set mode.

Press the **PICTURE** button repeatedly to select the desired picture quality. **NATURE**, **SOFT**, **USER** and **BRIGHT** can be selected cyclically.

NATURE: Select for a normal picture.

SOFT: Select for a finely detailed picture.

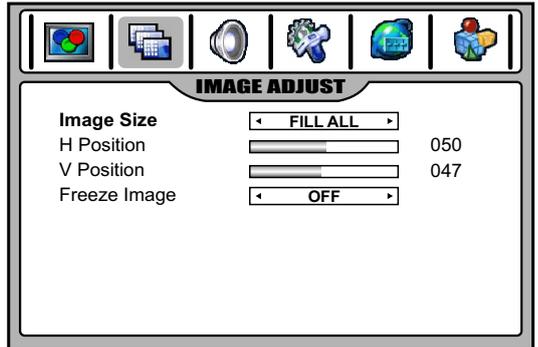
BRIGHT: Select for a bright picture.

USER: The picture quality you set.

Image Size Adjustment

You can make use of image size adjustment to choose the aspect ratio depending on the format of the received signal and your preference.

Press the **ZOOM** button repeatedly to select the desired image size. You can also adjust **Image size** in the **IMAGE ADJUST** menu.



- **NORMAL**

Selects the proper picture proportion to match the source's image. (4:3→4:3, 16:9 → 16:9)

- **WIDE**

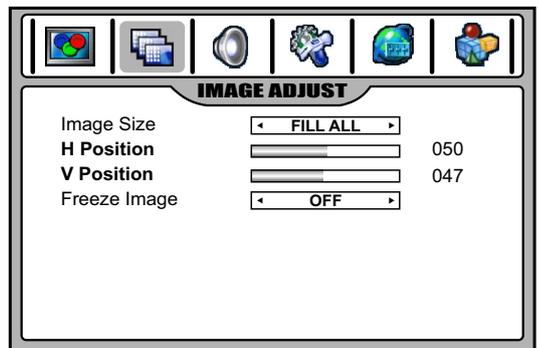
This mode stretches the picture horizontally and at the same time still maintains a good aspect ratio at the center of the screen.

- **ZOOM**

This mode enlarges the picture in correct proportion.

- **FILLALL**

This mode displays a picture at full screen size.



Screen Position Adjustment

- 1 Navigate to the **IMAGE ADJUST** menu.
- 2 Highlight **H Position** or **V Position** item, use ◀ or ▶ to make appropriate adjustments.

Note:

- You may perform screen position adjustment only for analog channels. It is unnecessary to adjust screen position for digital channels.

To Freeze the Picture

Press the **FREEZE** button to freeze the image on the screen (the video sources still run). Press again to restore. You can also set **Freeze Image** to **ON** in the **IMAGE ADJUST** menu to freeze the picture. To restore, set it to **OFF**.

Note:

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

Setting Sound

Adjusting the Volume

Using the volume buttons (VOL+ and VOL-)

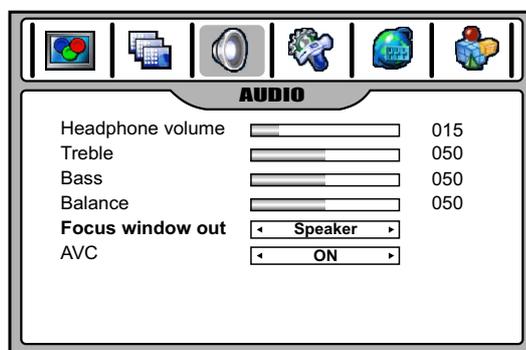
Press the **VOL +** or **VOL -** to increase or decrease the volume.

Using the Mute

At any time, you can temporarily cut off the sound using the **MUTE** button. Press the **MUTE** button again to restore.

Customizing the sound

- 1 Press **MENU** to display the main menu.
- 2 Press **◀** or **▶** to display **AUDIO** menu page, press **▼** to enter.
- 3 Within the menu, use **▲** or **▼** to select item, use **◀** or **▶** to adjust.
- 4 Press **EXIT** button to return to TV viewing.



| Option | Function | Choice/Remarks |
|--|---|---|
| Headphone volume | Adjusts headphone volume. | ▶ : stronger ◀ : weaker |
| Treble | Adjusts Treble (high sounds). | ▶ : stronger ◀ : weaker |
| Bass | Adjusts Bass (low sounds) | ▶ : stronger ◀ : weaker |
| Balance | Adjusts volume balance (left and right volumes). | ▶ :Higher volume from right speaker. ◀ :Higher volume from left speaker. |
| Focus window out (PIP or PBP mode only) | <ul style="list-style-type: none"> • In twin window mode(PIP or PBP), if “speaker” is selected, then the focus window* sound is output from speakers while the other window sound is output from headphone. (Default setting) • If “Headphone” is selected, then the focus window sound is output from headphone while the other window sound is output from speakers. • If “Both” is selected, then both speakers and headphone output focus window sound(as for the other window, this menu item will be set to “None” automatically). | Speaker/Headphone/Both |
| AVC (auto volume control) | Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. Turning "AVC" On lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low. | ON/OFF |

Notes:

- The menu items may be different when the unit works in different mode.
- **Focus Window Out** menu item is available only in twin window mode (PIP or PBP) and either window's program is not in Rating Blocked. If “Both” is selected and later on if either window's program comes into Rating Blocked, the sound may be mute. To cancel, please exit the Rating Blocked state for the program and then set this menu item to other proper choice.
- Normally the main picture is default focus window. You may select sub picture as focus window by pressing **OK** button and a green border will appear on it.

Setting Sound

Sound Mode Selection

You can select the sound quality instantly among three preset modes and one user-set mode.

Press the **AUDIO** button repeatedly to select the desired sound quality. **NEWS**, **USER**, **MOVIE** and **MUSIC** can be selected cyclically.

NEWS: Select for a speech or conversation program.

MOVIE: Select for a movie program.

MUSIC: Select for a music program.

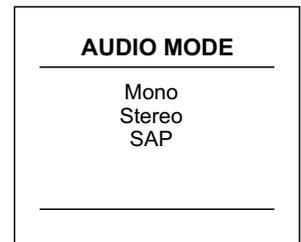
USER: The sound quality you set.

Stereo/SAP Broadcasts Setup (only for analog channel)

- This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.
- Stereo or SAP can be selected only when the TV station transmits these signals.
- Mono sound is automatically received if the broadcast is only in Mono.
- Select Mono if you are having difficulty receiving a stereo signal.

- 1 When viewing analog channel, press the **MTS/SAP** button to call up the **AUDIO MODE** menu.
- 2 Press **▲** or **▼** to select your desired MTS mode: **Mono**, **Stereo** or **SAP**, then press **OK** to confirm.

Note: In multi window mode, Stereo or SAP can be selected only for main picture.

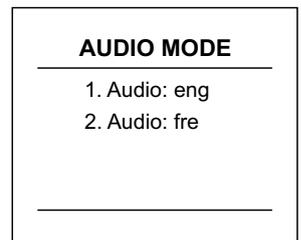


Digital Audio Mode Selection (only in DTV mode)

- The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).
- The availability of these additional "multitracks" depends upon the program.

- 1 When viewing digital channel, press the **MTS/SAP** button to call up the **AUDIO MODE** menu.
- 2 Press **▲** or **▼** to select your desired audio mode option, then press **OK** to confirm.

Note: In multi window mode, the MTS/SAP button only can be used for the main picture.

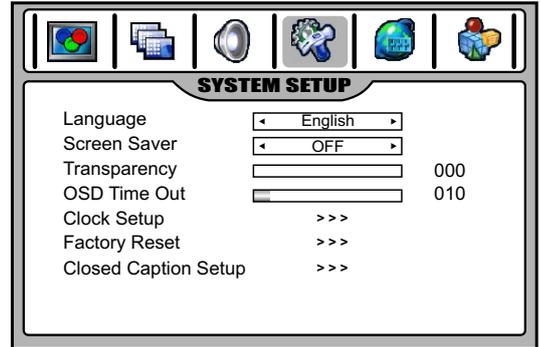


(The above OSD is only served as an illustration. It may be different in different situation)

System Setup

- You may change systems such as OSD language, screen saver, menu transparency, etc. by making use of SYSTEM SETUP menu.

- 1 Press **MENU** and then use ◀ or ▶ to display **SYSTEM SETUP** menu page, press ▼ to enter.
- 2 Within the menu, use ▼ or ▲ to select, use ◀ or ▶ to adjust or enter sub-menu.
In some situations, press **OK** button to confirm or toggle some settings.
- 3 Press **EXIT** button to return to TV viewing.



| Option | Function |
|----------------------|---|
| Language | Selects on-screen menus language. |
| Screen Saver | With the Screen Saver function on, the TV will appear "No Signal" character as screen saver automatically when no signal is being received for some seconds. |
| Transparency | Adjusts menu transparency. |
| OSD Time Out | Selects OSD main menu displaying time. |
| Clock Setup | Making use of Clock Setup sub-menu to setup auto clock, or manual clock, and On/Off timer. |
| Factory Reset | Using the Factory Reset item to quickly load default values. Note: Be careful to use this function because once you activate it, all settings will be reset to original factory value. |
| Closed Caption Setup | Making use of Closed Caption Setup sub-menu to control closed caption, to select caption mode. For DTV program, you can customize the captions that appear on the screen. |

Clock and Timer Setup

Auto Clock Setup

- With the Auto Clock function ON, the time is set automatically from a digital channel signal.
- The digital channel signal includes information for the current time provided by the broadcasting station.
- Set the clock manually, if the current time is set incorrectly by the auto clock function.
- If you cut off the power supply to the TV, the clock setting you have made will be cleared.

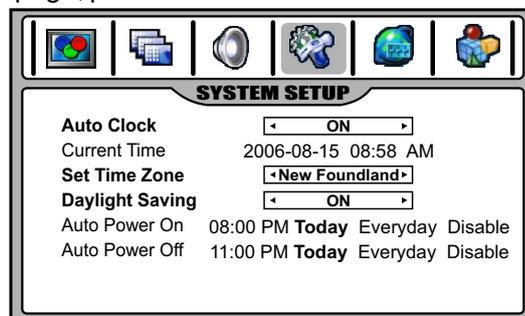
1 Press **MENU** and then use ◀ or ▶ to display **SYSTEM SETUP** menu page, press ▼ to enter.

2 Highlight **Clock Setup** item, use ◀ or ▶ to enter.

3 Highlight **Auto Clock** and then use ◀ or ▶ to turn the **Auto Clock** function **ON**.

4 Highlight **Set Time Zone** and then use ◀ or ▶ to select your viewing area time zone: **Atlantic, New Foundland, Samoa, Hawaii, Alaska, Pacific, Mountain, Central, Eastern**.

5 If your viewing area uses Daylight Saving Time, set **Daylight Saving** to **ON** in the menu, otherwise set it to **OFF**.



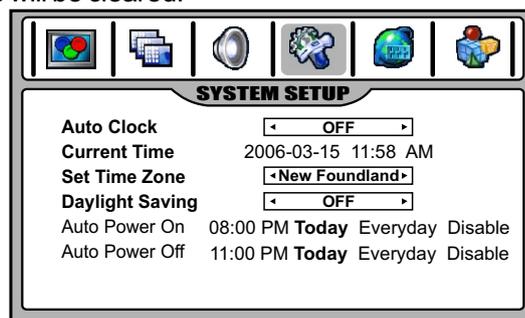
Manual Clock Setup

- If current time setting is wrong, reset the clock manually.
- If you cut off the power supply to the TV, the clock setting you have made will be cleared.

1 Navigate to the **SYSTEM SETUP - Clock Setup** sub-menu, highlight **Auto Clock** and then use ◀ or ▶ to select **OFF**.

2 Press ▲ or ▼ to highlight **Current Time** item and then use ◀ or ▶ to select either the year, date, or time option. Once selected, use the **number buttons** to input and set the year, date and time options. To select **AM** or **PM**, move the cursor to the position and then use **OK** to toggle.

3 If your area uses Daylight Saving Time, set **Daylight Saving** to **ON** in the menu, otherwise set it to **OFF**.



On/Off Timer Setup

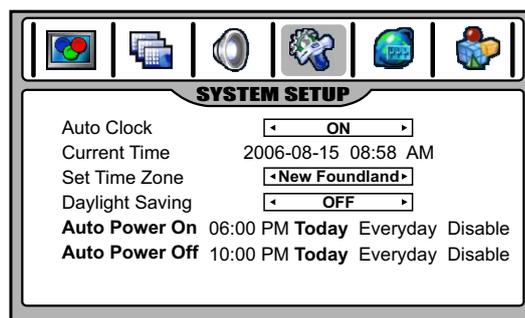
- Auto Power On/Off function operates only if current time has been set.
- The TV must be in standby mode for the Auto Power On to work.
- If you cut off the power, the timer setting will be cleared.

1 Navigate to the **SYSTEM SETUP - Clock Setup** sub-menu, highlight **Auto Power On** or **Auto Power Off**.

2 Use ◀ or ▶ to select either the hour or minute option. Once selected, use the **number buttons** to input the time. To select **AM** or **PM**, move the cursor to the position and then use **OK** to toggle.

- If you want the function to work only today, select **Today** and then use **OK** to activate it (displayed in purple).
- If you want the function to work everyday, select **Everyday** and then use **OK** to activate it (displayed in purple).
- To cancel On/Off timer function, select **Disable** and then use **OK** to activate it (displayed in purple).

3 Press **EXIT** button to return to TV viewing or press **MENU** to return to the previous menu.



Sleep timer

- Sleep timer lets you select the amount of time before your TV turns itself off automatically. Note that this setting is cleared when the TV is turned off.

Press the **SLEEP** button repeatedly to set sleep timer. To cancel it, press **SLEEP** button repeatedly to select **OFF**.

Viewing Closed Captions

The unit decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most prerecorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: .

Note:

The Caption feature only works in TV and AV mode.

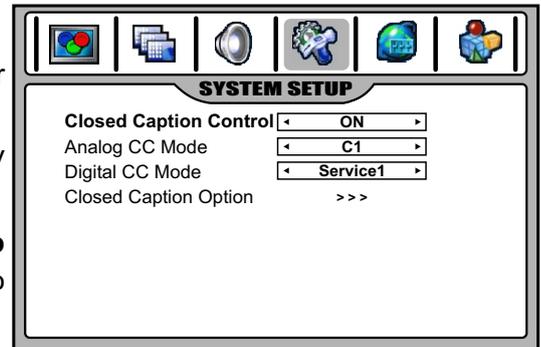
Not all the programs and videos will offer closed captioning. Please look for the  symbol to ensure that captions will be shown.

In multi window mode, the Caption feature only applies to main picture.

Closed Caption Control

Press the **CCD** button repeatedly to select Caption **ON**, **MUTE ON**, or **OFF**.

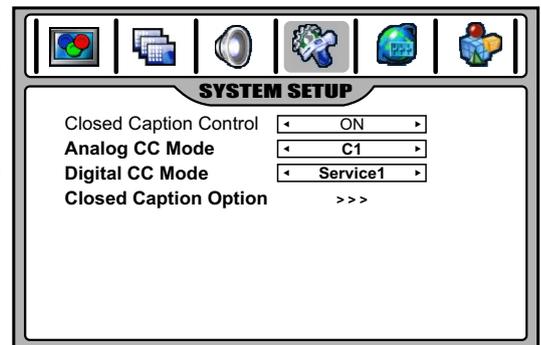
- **MUTE ON** shows the captions (if available on program) when the TV sound is muted.
- You can also navigate to **SYSTEM SETUP-Closed Caption Setup** sub menu and select **Closed Caption Control** item, then use ◀ or ▶ to select Caption **ON**, **MUTE ON**, or **OFF**.



Analog or Digital Broadcasting System Caption Mode

- Select a caption mode for displaying captioning information if provided on a program.
- Analog caption displays information on the screen usually the program's dialog.
- Text displays information, usually at the bottom position and is used for a data service, generally not program related.
- Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels.

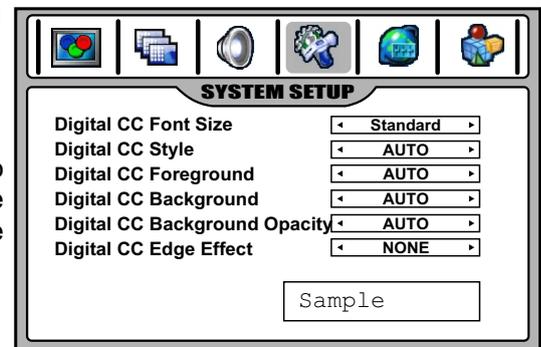
- 1 Navigate to **SYSTEM SETUP** menu and highlight **Closed Caption Setup**, use ◀ or ▶ to enter.
- 2 Highlight **Analog CC Mode** or **Digital CC Mode**, use ◀ or ▶ to select caption mode.



Closed Caption Option

You can customize the digital closed captions that appear on your screen.

- 1 Navigate to the **SYSTEM SETUP** menu and highlight **Closed Caption Setup**, use ◀ or ▶ to enter.
- 2 Highlight **Closed Caption Option**, use ◀ or ▶ to enter.
- 3 Press ▲ or ▼ to select your desired item, and then use ◀ or ▶ to customize the Size, Style, etc. to your preference. A preview sample is provided at the bottom of the menu screen for you to see the effect.



- ◆ **Font Size:** Set the size the words will appear in.
- ◆ **Style:** Select a style for the words.
- ◆ **Foreground:** Select a color for the text.
- ◆ **Background:** Select a background color.
- ◆ **Background Opacity:** Select the opacity for the background color.
- ◆ **Edge Effect:** Select an edge effect.

Setting Parental Control

Parental Control

This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.

Restriction of TV programs includes two ratings that contain information about the program: the MPAA rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.

Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

Note:

The Parental Control function works only in some modes (for example, in TV or AV mode).

If blocked program is selected, then the screen will appear "Rating Blocked".

[1] Movie Rating (MPAA)

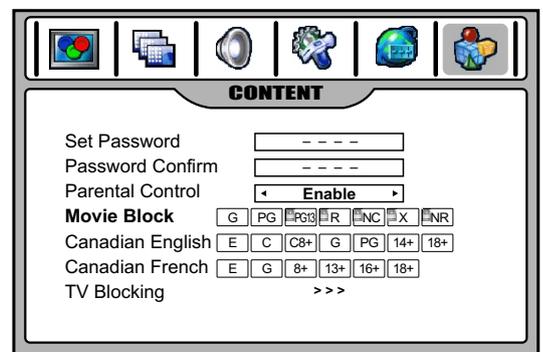
| Rating | | |
|-----------|------|--|
| age based | G | GENERAL AUDIENCES. All ages admitted. |
| | PG | PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children. |
| | PG13 | PARENTAL STRONGLY CAUTIONED. Some material may be inappropriate for children under 13. |
| | R | RESTRICTED. Under 17 requires accompanying parent or adult guardian. |
| | NC | NO ONE 17 AND UNDER ADMITTED. |
| | X | X Rating is an older rating that is unified with NC-17 but may be encoded in the data of older movies. |
| | NR | NOT RATED. |

Note:

The Movie rating is only age-based.

Example:

"PG13" in the age-based rating is blocked, this will automatically block the higher ratings "R", "NC", "X", "NR" also.



Setting Parental Control(continued)

[2] TV Rating

| Rating | | ← content based → | | | | |
|-----------|----------------------------------|-------------------|---|---|---|----|
| | | D | L | S | V | FV |
| age based | Y (All children) | × | × | × | × | × |
| | Y7 (Direct to Older Children) | × | × | × | × | ● |
| | G (General Audience) | × | × | × | × | |
| | PG (Parental Guidance Suggested) | ● | ● | ● | ● | |
| | 14 (Parents Strongly Cautioned) | ● | ● | ● | ● | |
| | MA (Mature Audience Only) | | ● | ● | ● | |

× ——— Content Rating can be set but this Rating is not normally broadcast by TV Station.

● ——— Content Rating can be set.

D: Sexually Suggestive Dialog
 L: Adult Language
 S: Sexual Situation
 V: Violence
 FV: Fantasy Violence

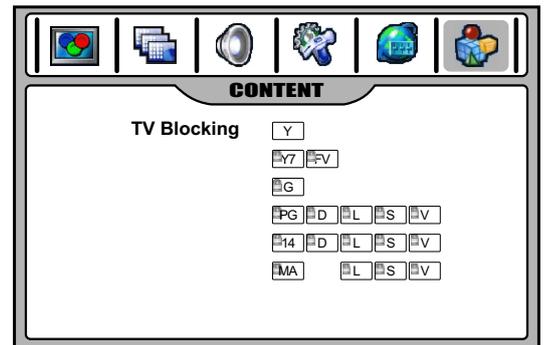
Note:

Age-based ratings can be modified by the content-based ratings but only in the combinations indicated by an ● in the table above.

Choosing lower age-based rating blocks the higher age-based ratings regardless of content ratings settings.

Example:

When Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: G, PG, 14 and MA. In addition, D, L, S, V and FV in content are automatically blocked.

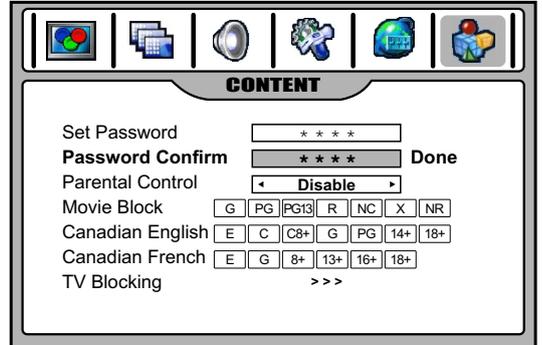


Setting Parental Control(continued)

Password Setup

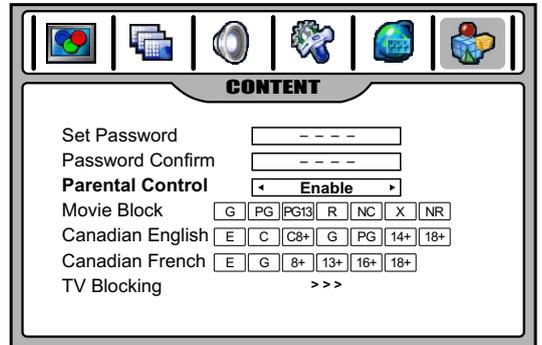
To use the Parental Control function, you first need to set your password.

- 1 Press **MENU** and then use **◀** or **▶** to display **CONTENT** menu page, press **▼** to enter.
- 2 Enter the password as requested (4-digit, the initial password is 1111). Now the whole CONTENT menu will appear.
- 3 Highlight **Set Password**, enter a new password and then confirm again. Now your new password has been created successfully. **Be sure to write down your password and retain it for future use.**



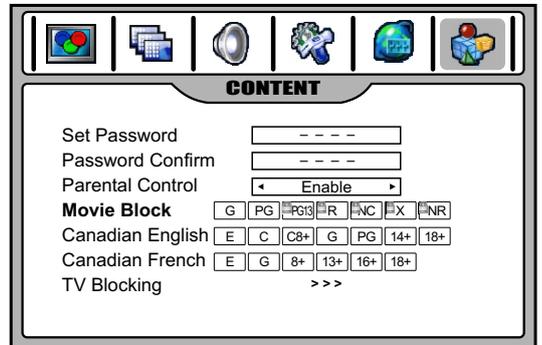
Parental Control Setup

- 1 Use the password to access **CONTENT** menu.
- 2 Highlight **Parental Control**, use **◀** or **▶** to select **Enable** to activate the blocking scheme you set up. If you want to disable the blocking scheme you set up, select **Disable**.



MPAA Rating Setup

- 1 Use the password to access **CONTENT** menu.
- 2 Highlight **Movie Block**, use **◀** or **▶** to select your desired rating, then use **OK** to either block the rating (a lock will appear) or unblock (the lock will disappear). For example, when "PG13" in the age-based rating is blocked, this will automatically block the higher ratings "R", "NC", "X", "NR" also.

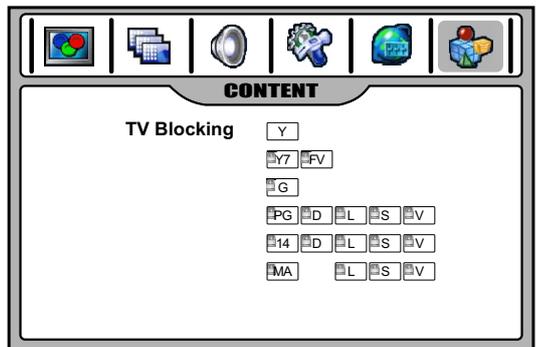


TV Rating Setup

- 1 Use the password to access **CONTENT** menu.
- 2 Highlight **TV Blocking**, use **◀** or **▶** to enter.
- 3 Within the menu, use **▲**, **▼**, **◀** or **▶** to select, use **OK** to either block (a lock will appear) or unblock (the lock will disappear).

For example, when Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: G, PG, 14 and MA. In addition, D, L, S, V and FV in content are automatically blocked.

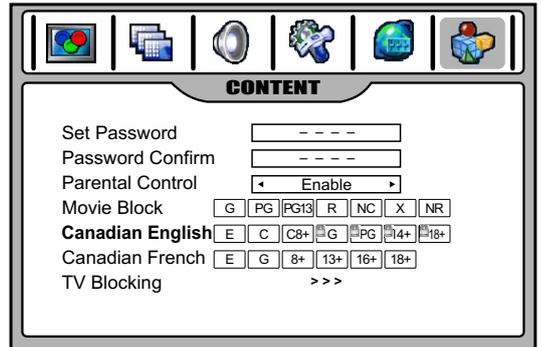
- 4 Press **EXIT** button to return to TV viewing or press **MENU** to return to the previous menu.



Setting Parental Control(continued)

Canadian English Rating Setup

- 1 Use the password to access **CONTENT** menu.
- 2 Highlight **Canadian English**, use ◀ or ▶ to select your desired rating, then use **OK** to either block the rating (a lock will appear) or unblock (the lock will disappear) .
- 3 Press **EXIT** button to return to TV viewing.

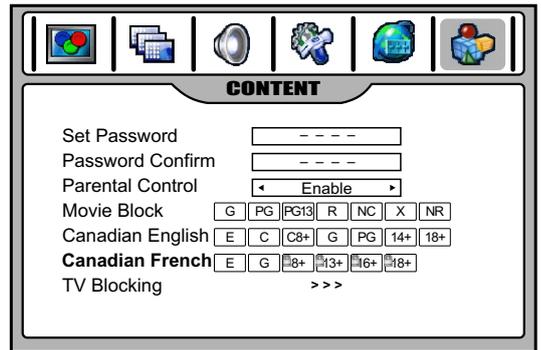


CANADIAN ENGLISH RATING CHART

| | |
|-----|---|
| E | Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming. |
| C | Programming intended for children under age 8. No offensive language, nudity or sexual content. |
| C8+ | Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content. |
| G | General programming, suitable for all audiences. |
| PG | Parental Guidance suggested. Some material may not be suitable for children. |
| 14+ | Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. |
| 18+ | Intended for viewers 18 years and older and might contain depictions of violence. |

Canadian French Rating Setup

- 1 Use the password to access **CONTENT** menu.
- 2 Highlight **Canadian French**, use ◀ or ▶ to select your desired rating, then use **OK** to either block the rating (a lock will appear) or unblock (the lock will disappear) .
- 3 Press **EXIT** button to return to TV viewing.



CANADIAN FRENCH RATING CHART

| | |
|-----|--|
| E | Exempt - Exempt programming. |
| G | General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately. |
| 8+ | 8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended. |
| 13+ | Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested. |
| 16+ | Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence. |
| 18+ | Only for adult viewing. Could contain frequent violent scenes and extreme violence. |

Information about RRT5 (Rating Region Table-Region5) criteria rating

If the broadcasting program uses RRT5 criteria rating in accordance with the FCC Rules, this unit can automatically download this kind of rating and provide to user to setup.

Its operation procedures are same to TV rating setup. Use password to access CONTENT menu, at the last line of the menu screen will appear this kind of rating, use ◀ or ▶ to access its first level sub-menu. In this level menu, particular rating types and Reset function are provided. Use menu navigation buttons to select and access second level sub-menu to setup the blocking scheme. Or you may select and activate Reset function at the first level sub-menu to clear the RRT rating. (If this rating is still broadcast by TV station, the unit will download it again).

Note: the actual menu options of this rating will vary depending on the broadcaster.

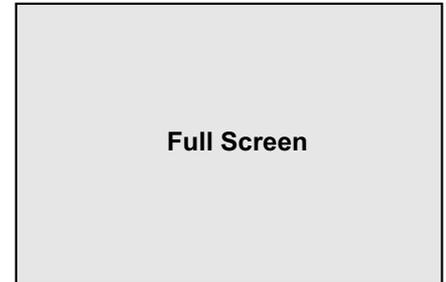
PIP/PBP/POP Operations

Watching PIP/PBP/POP Picture

Press the **PIP** button repeatedly to select different multi window modes. With each press of **PIP** button, the window mode will cycle among PIP, PBP, POP3 and full screen mode.

Full Screen

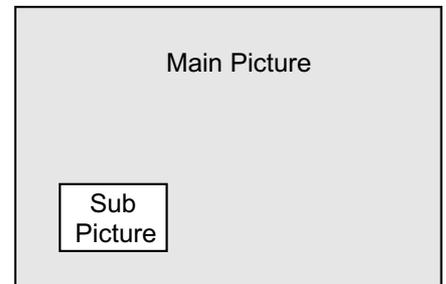
In Full Screen mode, only one window appears.



PIP (picture-in-picture)

PIP lets you view two different pictures on your TV screen at the same time. One picture will be large, and the other picture will show a smaller image.

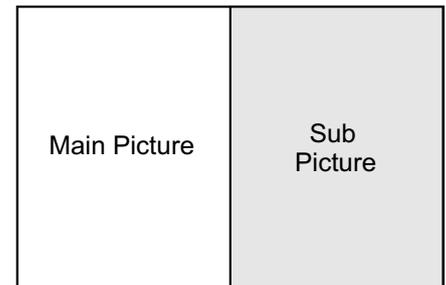
Note: the main picture source can be any one kind except HDMI, while the sub window only can display analog TV channel or AV program.



PBP (picture-by-picture)

PBP mode splits the screen into two, allowing two pictures to be shown on the TV screen at the same time. Each picture is given half the screen.

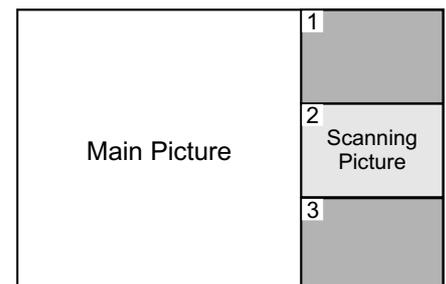
Note: the main picture source can be any one kind except HDMI, while the other window only can display analog TV channel or AV program.



POP3 (picture-out-of-picture)

Use POP3 to scan the programs of all the memorized channels one-by-one on the three mini windows (while the main window remains the current program).

Note: the main picture source can be any one kind except HDMI, while the three mini windows only can display analog TV channels.



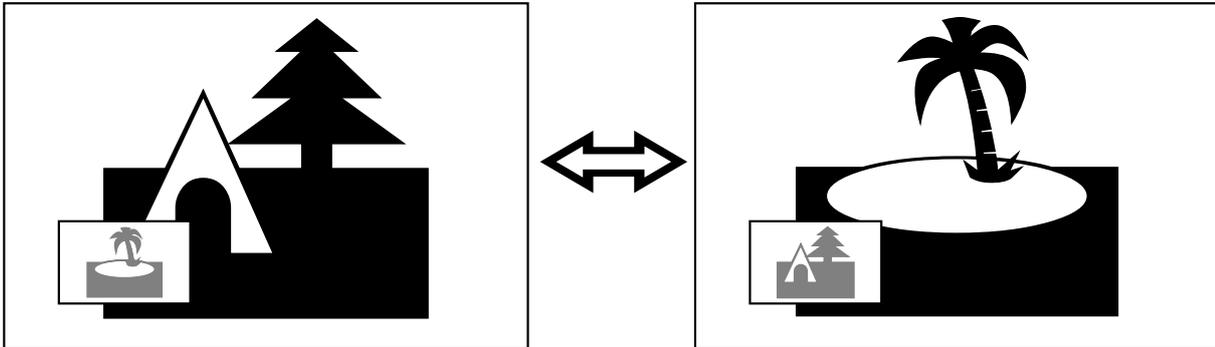
PIP/PBP/POP Operations

Swapping the PIP/PBP Picture

Use the **SWAP** button to swap the main and sub pictures.

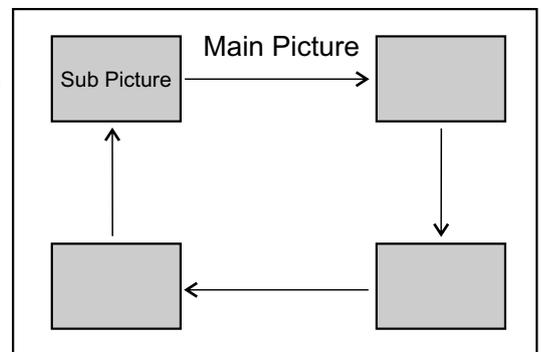
Note:

Only when the main picture displays analog TV channel or AV program, the SWAP function can work.



Selecting the PIP sub picture position

In PIP mode, press the **P.POSITION** button to select a different position on the screen for the sub picture.



Selecting focus window

In multi window mode, you can press **OK** button to select main or sub picture as focus window and a green border will appear on it. You may apply many operations to the focus window such as channel select, volume control, input source select, etc.

In POP mode, you can press **OK** button to select three mini windows as focus window (1,2,3 will appear for some time). Before 1,2, 3 disappears from the screen you can directly key in 1 or 2 or 3 on the remote control to choose the relevant program to be displayed on the main window.

Note:

- Normally main picture is default focus window.
- Many but not all operations can be applied to focus window.

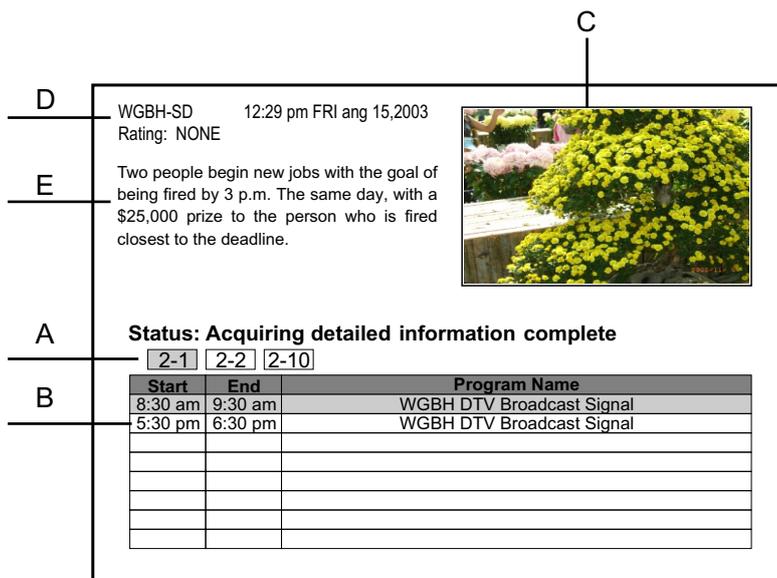
Electronic Program Guide

Electronic Program Guide

Your TV has an “Electronic Program Guide” to help you to navigate through all the possible viewing options. The EPG supplies information, such as program lists, start and end times of all available channels. In addition, detailed information about the program is often available in the EPG. (The availability and the amount of program details will vary depending on the broadcaster.)

Operation

- 1 To display the Electronic Program Guide, press the **GUIDE** button. An example of an EPG window is given below. To exit, press **GUIDE** button again.
- 2 Press **OK** button to select active window. Once a window is activated, a green border will appear on it and you may apply operations to it.
- 3 If bottom half window of EPG is activated, press **◀** or **▶** button to select your desired channel (once selected, its relevant program information such as program list, start and end times of all available programs will be displayed). Press **▲** or **▼** to select different program at this channel (once selected, the top left window will display detailed information(if available) about this program) .
- 4 If additional and detailed information about the selected program appears on the top left window, you may press **OK** button to highlight it (a green border will appear on it), then use **▲** or **▼** to scroll page (if required) to view more information.



- A** All available sub channels within an ATSC channel will be displayed.
- B** Displays current selected sub-channel's information such as program list, start and end times of all available programs.
- C** Program preview of current selected sub-channel.
- D** Shows current time, date, current program's station and rating, etc.
- E** Displays additional and detailed information about particular program (The availability of additional details depends on the broadcaster).

Note:

- The EPG will only work when you are receiving digital channels.
- To enable EPG to work properly, you must set Auto Clock function to ON.

Image Adjust for PC/Component Mode

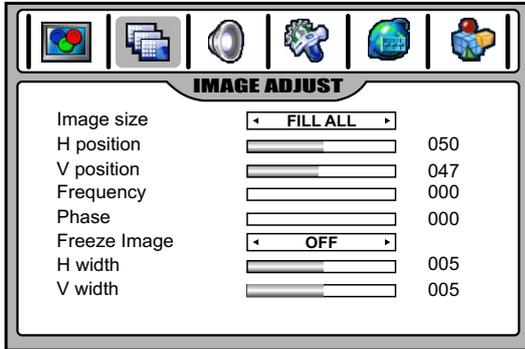
- Be sure to select the correct source (Analog RGB or Component) before operation.

Image Adjust

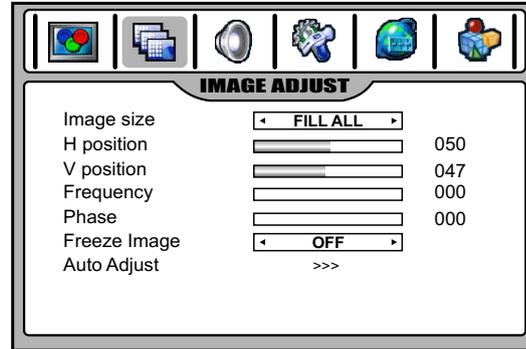
1 Press **MENU** and then use ◀ or ▶ to display **IMAGE ADJUST** menu page, press ▼ to enter.

2 Within the menu, use ▲ or ▼ to select, use ◀ or ▶ to adjust.

3 Press **EXIT** button to exit.



(IMAGE ADJUST menu in **Component** mode)



(IMAGE ADJUST menu in **PC** mode)

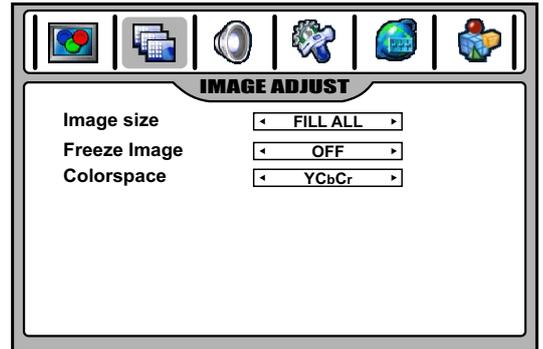
| Option | Function |
|----------------------------------|--|
| Image size | Selects a desired image size (aspect ratio). The choice may be different in different mode.(refer to < Setting Picture/Adjusting Image > section in TV mode for details.) Note: you may directly press ZOOM button on the remote control to select. |
| H position | Move the image on the screen left/right. |
| V position | Move the image on the screen up/down |
| Frequency | Adjusts the sample frequency. |
| Phase | Improves the focussing of stable image. |
| Freeze Image | Select "ON" to freeze the image on the screen. Select "OFF" to reactivate the image. Note: you may directly press FREEZE button on the remote control to freeze the image, press again to restore. |
| H width (component mode only) | Adjusts the horizontal width of the image. |
| V width (component mode only) | Adjusts the vertical width of the image. |
| Auto Adjust (PC mode only) | Highlight "Auto Adjust" item and then use ◀ or ▶ button to start auto adjustment. The set will automatically adjust the image such as frequency, position setting, etc. |

Image Adjust for HDMI Mode

- Be sure to select the HDMI source before operation.

Image Adjust

- 1 Press **MENU** and then use ◀ or ▶ to display **IMAGE ADJUST** menu page, press ▼ to enter.
- 2 Within the menu, use ▲ or ▼ to select, use ◀ or ▶ to adjust.
- 3 Press **EXIT** button to exit.



| Option | Function |
|--------------|--|
| Image size | <p>Selects a desired image size (aspect ratio). (Refer to <Setting Picture/Adjusting Image> section in TV mode for details.)</p> <p>Note: you may directly press ZOOM button on the remote control to select. When 1080i or 1080p signal is received, then this item can not be adjusted.</p> |
| Freeze Image | <p>Select "ON" to freeze the image on the screen. Select "OFF" to reactivate the image.</p> <p>Note: you may directly press FREEZE button on the remote control to freeze the image, press again to restore.</p> |
| Colorspace | <p>When the unit converts DVI signal to HDMI signal, sometimes abnormal color will appear, if this situation occurs, you can try to adjust this item.</p> |

Troubleshooting

Before calling for repair service, check the following items for possible remedies to an encountered symptom.

| Symptoms | Check item |
|---|---|
| No power | <ul style="list-style-type: none"> • Check that the AC power cord is plugged into the mains socket. • Unplug the power cord, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the unit again. |
| No picture | <ul style="list-style-type: none"> • Check video connections at the rear of the unit to see if it is properly connected to the unit. • Adjust the contrast and brightness settings. • Select a correct input. • Is a non-compatible signal being input? |
| Good picture but no sound | <ul style="list-style-type: none"> • Increase the VOLUME. • Check that the unit is not muted. |
| Good sound but poor color | <ul style="list-style-type: none"> • Adjust the contrast, color and brightness settings. |
| Poor picture | <ul style="list-style-type: none"> • Sometimes, poor picture quality occurs when an activated S-VHS camera or camcorder is connected while another activated peripheral is connected. In this case, switch off one of the peripherals. • Check whether the room is too bright. |
| Horizontal dotted line | <ul style="list-style-type: none"> • This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.). • Turn off the equipment. |
| Remote operation fails. | <ul style="list-style-type: none"> • This remote control is an universal remote control. If the remote control does not work correctly when operating the monitor, try pressing the TV button. • Check whether the batteries are working. Replace if necessary. • Clean the remote control sensor lens on the unit. • Do not use the remote control under strong or fluorescent lighting. • The batteries should be inserted with polarity (+, -) aligned. |
| Snowy picture and noise | <ul style="list-style-type: none"> • Check the A/V connections. |
| No stable or not synchronized VGA picture | <ul style="list-style-type: none"> • Check if you have selected the correct VGA mode in your PC. |
| No output from one of the speakers | <ul style="list-style-type: none"> • Adjust Balance in the AUDIO (SOUND) menu. |
| Control buttons do not work. | <ul style="list-style-type: none"> • Method 1: Press POWER button on the main unit and wait for 3 seconds, then the main unit will be turned off. Continue to wait for some time and then turn on the unit again. (Recommended because all the setting you have made will not be cleared.) • Method 2: unplug the power cord, wait for a few seconds. Then re-plug the power cord and turn on the unit again. (But all the setting you have made will be cleared.) |

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 LCD panel to malfunction.
(Storage temperature: 0°C to +50°C Working temperature: 5°C to +40°C)

Note:

If your problem is not solved, turn your unit off and then on again.
Never attempt to repair a defective TV yourself.

Care and Maintenance

LCD Display panel information

Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the LCD panel.

This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible LCD panel 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.

Note:

The marking or retained image on the LCD panel resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns 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 LCD.
- 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

Power supply: AC 100-240V 50/60Hz
Power Consumption: 250W (Max.)
Screen: 42"
Weight: 77(lb)
Unit Dimensions (WxHxD)(inch) 43.8 x 35.4 x 13.7

Channel coverage:

| VHF | UHF | CATV | CADTV | DTV |
|------|-------|-------|-------|------|
| 2-13 | 14-69 | 1-125 | 1-135 | 2-69 |

TV system: NTSC - M, ATSC

Accessories
Operating manual X 1
Remote control unit X 1



- 1. Design and specifications are subject to change without notice.**
- 2. Weight and Dimensions shown are approximate.**
- 3. Specifications and external appearance may be changed for the sake of improvement.**

Programming your Remote 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.

Note: Programming to control TV is not allowed, TV control is already set and 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" in next following pages and write them down or highlight them.

NOTE: To program a DVD Player, portable DVD player, or mobile DVD player, use the **DVD** key.

1. Turn on the device (for example, DVD player) and, if needed, load media (for example, a DVD).
2. Press a device key (**VCR/DVD**, **CBL/ SAT**, or **AUX**).
3. Press and hold **SET** until the red LED blinks twice; then release.
4. 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.
 - **NOTE:** If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.
5. Aim the remote at the device and press **Power**. The device should turn off. If it 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".
6. 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:
 - CBL** Code:
 - CD** Code:
 - DVD** Code:
 - SAT** Code:
 - TNR** Code:
 - VCR** Code:
7. 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:

1. Press a device key once.
2. Press and hold **SET** until the red LED blinks twice; then release.
3. Enter **9-9-1**, then the device group number (0= Cable, 2= VCR, 3= Audio). The LED blinks twice.
4. 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 responds, go to step 7.
5. If the device does not respond, press **CH+**. The remote will try the next code. Continue until the device responds.
 - **NOTE:** Press **CH-** to try the previous code.
6. To search for other device codes, repeat steps 1 to 5.
7. Press **SET** to save and exit.

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:

1. Press **DVD** once.
2. Press and hold **SET** until the red LED blinks twice; then release.
3. Enter **9-9-0**. The LED blinks twice.
4. 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".
 - **NOTE:** If a code digit is **0**, the LED does not blink.
5. 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.
6. 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)

1. Press and hold **SET** until the red LED blinks twice; then release.
2. 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)

1. Press and hold **SET** until the red LED blinks twice; then release.
2. 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

1. Press a device key (**VCR/DVD**, **CBL/ SAT**, or **AUX**).
2. Press and hold **SET** until the red LED blinks twice; then release.
3. Enter **9-9-3** and then press **VOL-**. The LED blinks four times.

Volume is now independently controlled for the selected devices.

Troubleshooting

PROBLEM: LED does not blink when you press a key.

SOLUTION: Replace with new batteries.

PROBLEM: LED blinks when you press a key, but device does not respond.

SOLUTION: Make sure the remote is aimed at your device and is not more than 15 feet away.

PROBLEM: LED blinks one long blink.

SOLUTION: An entry error has occurred (for example, wrong key). Try entry sequence again.

PROBLEM: Remote does not control devices or commands are not working properly.

SOLUTION: Try all listed codes for the device. Make sure the device operates with an infrared remote control.

PROBLEM: No volume on a device.

SOLUTION: See "Changing Volume Lock".

MANUFACTURER'S CODES

Set Codes for 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 |

Set Codes for 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 |
| 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 |

Set Codes for Cable Converters

| | |
|--------------------|--|
| 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 |
| 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 |

Set Codes for CD Players

| | |
|-----------------------|--------------|
| 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 |
| Harman/Kardon | 30157, 30173 |

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|-----------------|--|
| 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 |
| Victor | 30072 |
| Wards | 30157, 30053 |
| Yamaha | 30888, 30036 |
| Zonda | 30157 |

Set Codes for DVD Players

| | |
|---------------|--|
| 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 |

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|----------------|---|
| 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 |
| 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 |
| Teac | 20717, 21984, 20809 |
| Technics | 20490 |
| Theta Digital | 20571 |
| Toshiba | 20503, 20695 |
| Urban Concepts | 20503 |
| Xbox | 20522 |
| Yamaha | 20490, 20539, 20545 |
| Zenith | 20503, 20591, 20869 |

Set Codes for Satellite Receivers

| | |
|------------------------|--|
| 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 |
| 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 |

Set Codes for VCRs

| | |
|------------------------|---|
| ABS | 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 |
| Beaumarck | 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 |
| Daewoo | 20045, 20104, 20278 |
| Dell | 21972 |
| Denon | 20042 |
| DirecTV | 20739 |
| Durabrand | 20039, 20038 |
| Electrohome | 20037 |
| Electroponic | 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 |

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|-----------------|--|
| 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 |
| 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 |
| Teco | 20035, 20037, 20048, 20038 |
| Teknika | 20035, 20037 |
| Tivo | 20636, 20618, 21503, 20739 |
| TMK | 20240 |
| Toshiba | 20045, 20042, 20067, 20043, 21503, 21008, 21972 |

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|--------------------|--|
| 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, 20072 |
| White Westinghouse | 20209, 20072 |
| XR-1000 | 20035, 20072 |
| Yamaha | 20038 |
| Zenith | 20039, 20033, 20209, 20479 |
| ZT Group | 21972 |

CARE

- Keep the remote dry. If it gets wet, wipe it dry immediately.
- Use and store the unit only in normal temperature environments.
- Handle the remote gently and carefully. Don't drop it.
- Wipe the remote with a damp cloth to keep it looking like new.

Customer Support

For technical support or product service, see the table below or contact your reseller.

Note: You will need the product serial number.

| Country/Region | Web Site | Telephone |
|-----------------------|--|------------------|
| United States | www.viewsonic.com/support/ | (800) 688 6688 |
| Canada | www.viewsonic.com/support/ | (866) 463 4775 |

Limited Warranty

VIEWSONIC® LCD TV

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic LCD TVs are warranted for 1 year for all parts excluding the light source and 1 year for labor from the date of the first customer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Repair or attempted repair by anyone not authorized by ViewSonic.
 - c. Any damage of the product due to shipment.
 - d. Removal or installation of the product.
 - e. Causes external to the product, such as electric power fluctuations or failure.
 - f. Use of supplies or parts not meeting ViewSonic's specifications.
 - g. Normal wear and tear.
 - h. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, and set-up service charges.
5. When you mount it on the wall, the following must be noticed:
 - a. The accessories attached with this product are applicable for this product only.
 - b. When the product is mounted on the wall, holes and fixed screws will remain in the wall body.
 - c. Wall face may discolor when this product has been mounted on the wall for a long time.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (please refer to Customer Support page). You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer. The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.



ViewSonic®