Hisense®

-Innovation for life-

USER' S MANUAL

Before using the TV, Please read this manual thoroughly, retain it for future reference.

English

ES-

Table of contents

FCC Statement

NOTE:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.Such modifications could void the user's warranty.

NOTE:

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

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and the receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

CHILD SAFETY
It makes a difference how and where you use your flat panel display

As you enjoy your new product, keep these safety tips in mind

The issue

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

Tune into safety

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight and size of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a crate or chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.
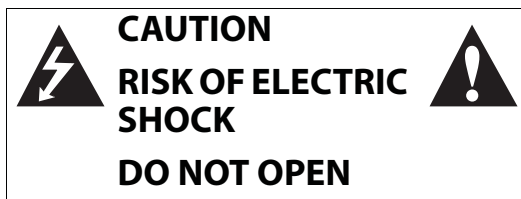
Wall mounting

If you decide to wall mount your TV, always remember:

- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight and size of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.
- TVs can be heavy. At least two people are required for safe wall mount installation.

Important safety instructions

| CAUTION |
| RISK OF ELECTRIC SHOCK |
| DO NOT OPEN |

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with a dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

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

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use 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 apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15 The wall plug is the disconnecting device. The plug must remain readily operable.

16 An apparatus with a three-prong, grounding-type plug is a Class I apparatus, which needs to be grounded to prevent possible electric shock. Make sure that you connect this Class I television to a grounding-type, three-prong outlet.

17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.

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

Warnings

Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

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.

Handling the LCD panel

- Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.
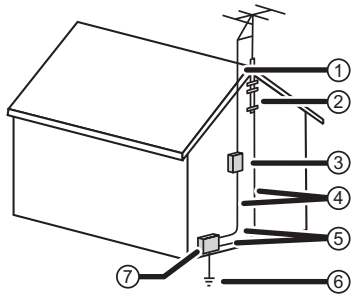
Cautions

Damage requiring service

Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:
- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.
- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

①	Antenna lead-in wire
②	Grounding clamp
③	Antenna discharge unit
④	Grounding conductors
⑤	Ground clamps
⑥	Power service grounding electrode system
⑦	Electric service equipment

Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

End of life directives

Your TV contains tin-lead solder and a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at www.eia.org to find a recycler in your area.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

Accessories

Make sure the following accessories are included in the box with your TV:
- Remote control
- User manual
- AC power cord
- AAA batteries (2)
- Stand

Installing and removing the stand

You must install your TV onto a stand in order for it to stand upright on a cabinet or other flat surface. If you intend to mount your TV on a wall or other vertical surface, you must remove the stand .

Warning: Before attampting assembly or removal of the stand, unplug the AC power cord.

Cautions:
- Read these instructions carefully before you try to assemble the stand or remove the stand .
- Make sure that you handle the TV carefully when attempting to assemble or remove the stand. If you are not sure of your ability to do this, contact a professional installer or service technician. Hisense is not responsible for any damages or injuries that occur because of mishandling or incorrect assembly.
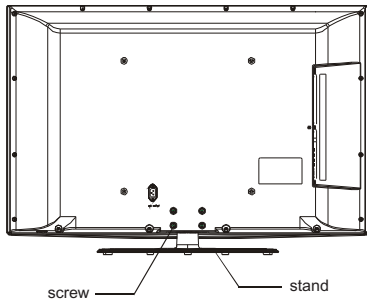- Use a soft cushion or covering to prevent scratching or damage to the TV screen or cabinet.

Installing the stand

Note: Your TV may differ from the illustrations shown.

To install the stand:
1 Remove the stand from the box and place it on a table or bench.

2 Lay the TV (screen down) on the edge of the table or bench. Make sure that you put a soft cloth or cushion between the table or bench and the TV.

3 Align the base with the TV, then secure the stand to the TV with the 4 screws provided.
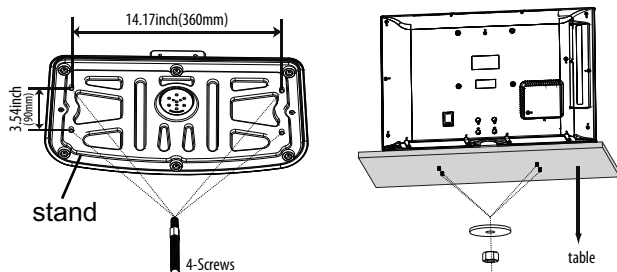

screw   stand

4 Carefully lift the TV into an upright position.

To remove the stand, see the following procedure.

Attaching the TV to a desk

Here shown may be somewhat different from your TV.
The TV must be attached to desk so it cannot be pulled in a forward/backward direction,potentially causing injury or damaging the product.

Screws-M5×L(table depth + 8~10mm)
Example:Table depth - 15mm: Screws-M5×25

14.17inch(360mm)

3.54inch(90mm)

stand

4-Screws   table

NOTE:
Be sure to follow the instructions,incorrect installation of the stand (pedestal) may result in the TV falling over.
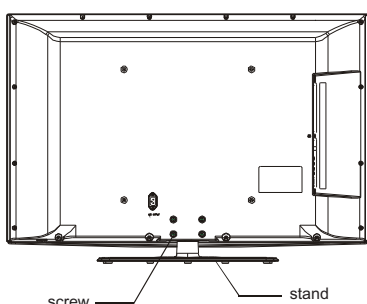**0.39inch(10mm)<hole size on table<0.59inch(15mm)**

Removing the stand

You must remove the stand before you can wall-mount the TV.

Note: Your TV may differ from the illustrations shown.

To remove the stand:

1 Lay the TV (screen down) on the edge of the table or bench. Make sure that you put a soft cloth or cushion between the table or bench and the TV.

2 Remove the 4 screws holding the stand to the TV, then remove the stand.
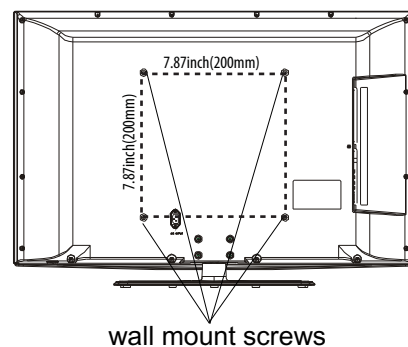

screw   stand

Installing a wall-mount bracket

If you want to attach the TV to a wall-mount bracket (not provided), you should first remove the stand, if it has been installed.

Warning: These instructions are for use by qualified service personnel only. To reduce the risk of hazards, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
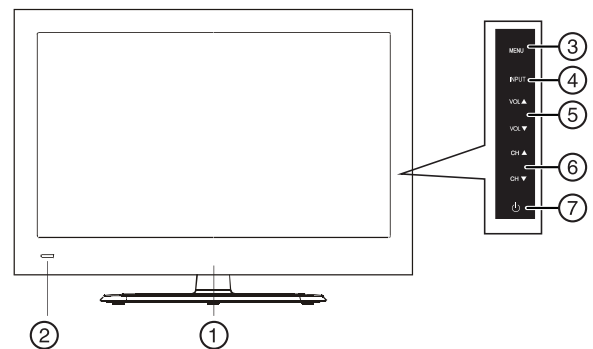
To install a wall-mount bracket:

1 Lay your TV face down on a table or bench. Make sure that you put down a soft cushion or cloth so that your TV does not get scratched.

2 Remove the pedestal stand. See "Removing the stand" above.

3 Secure the wall-mount bracket to the back of your TV using the four screws provided with the bracket.
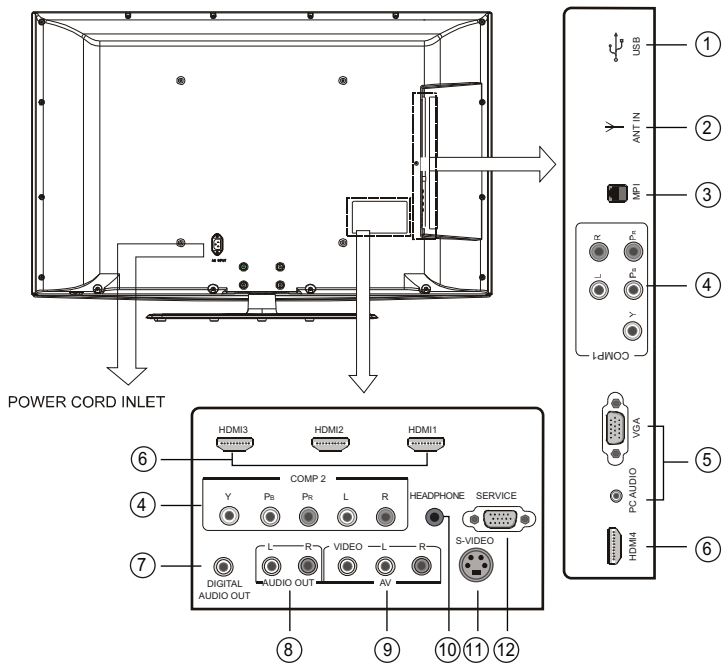

7.87inch(200mm)

7.87inch(200mm)

wall mount screws

TV components
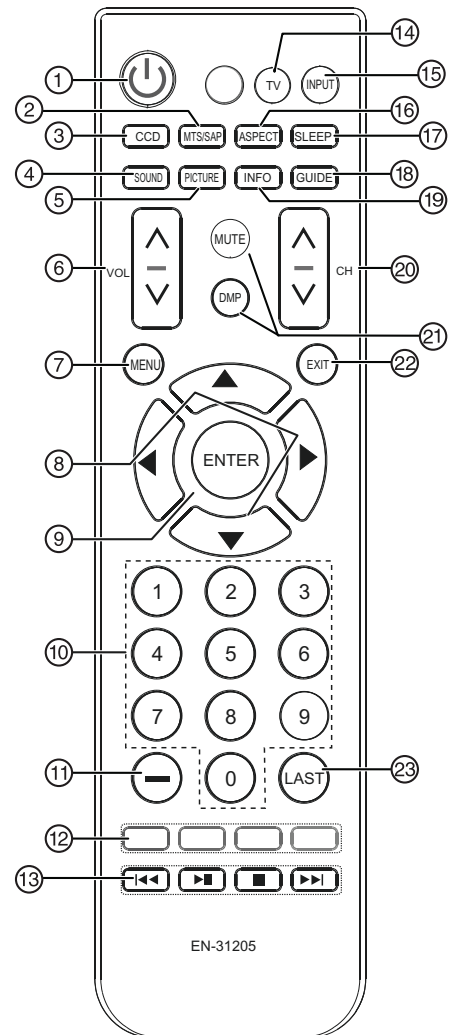## Front and side controls

Item	Name	Description
①	Power indicator	The light shows whether the TV is on or in standby mode.
②	Remote control sensor	Receives signals from the remote control. Please do not block.
③	**MENU**	Display the onscreen display(OSD) or Exit to close the OSD.
④	**INPUT**	Select the **INPUT** menu.
⑤	**VOL▲ / VOL▼**	Volume adjust button. To increase or decrease the volume.
⑥	**CH ▲/CH▼**	Channel select button. To increase or decrease the channel.
⑦	⏻ (power)	Press to turn your TV on or off (standby mode).

Back connections

POWER CORD INLET

Item	Name	Description
①	**USB**	For software updates only. Do not use.
②	**ANT IN** jack	Connect an antenna or cable TV to this jack. For more information, see page 8.
③	**MPI**	Reserved function.
④	**COMP1 COMP2**	Connect component video devices to these jacks.For more information,see page 7.
⑤	**PC AUDIO** jacks **VGA** jack	Connect a computer (audio and video) to these jacks.
⑥	**HDMI 1/2/3/4**	Connect an HDMI device to one of these jacks. For more information, see page 7.
⑦	**DIGITAL AUDIO OUT** jack	Connect a digital coaxial cable to this connector, then to a digital sound system. For more information, see page 9.
⑧	**AUDIO OUT**	Connect a audio cable to this connector.
⑨	**AV** jack	Connect a standard AV device, such as a camcorder or game console, to these jacks.
⑩	◯ (headphone) jack	Plug headphones into this jack. For more information, see page 9.
⑪	**S-VIDEO**	Connect a standard S-VIDEO device,such as a camcorder or game console to this jack.
⑫	**SERVICE**	Connect a RS-232C(serial port) cable to this jack, then to an external control device(such as a computer or A/V control system), to control the TV functions externally.

Remote control

EN-31205

Item	Name	Description
①	**POWER** ⏻	Press to turn on the TV or put the TV in standby mode. **Caution:** The TV will continue to receive power even in standby mode. Unplug the power cord to disconnect power.
②	**MTS/SAP**	In analog TV mode, press to select **STEREO**, **SAP** (secondary audio language), or **MONO**. In digital TV mode (DTV), press to select the audio track.
③	**CCD**	Press to turn closed caption on or off.
④	**SOUND**	Sound mode selecting.
⑤	**PICTURE**	Press to select the video mode.
⑥	**VOL∧ / VOL∨**	Press to increase or decrease the volume.

Item	Name	Description
⑦	**MENU**	Display the main menu. Exit menu display.
⑧	▲ ▼ ◄ ►	Press ▲ or ▼ to move up or down in on-screen menus. Press ◄ or ► to move left or right in on-screen menus or to adjust menu settings.
⑨	**ENTER**	Press to confirm selections in on-screen menus or to open sub-menus.
⑩	Numbers	Press the number buttons to enter channel numbers or the parental control password.
⑪	▬ (dash)	Press to select a digital sub-channel.
⑫	Program guide (EPG) function buttons	After pressing the **GUIDE** button in the digital TV channel option, the same color buttons will appear with explanations on the on-screen display (OSD). Follow the steps shown in the OSD.
⑬	I◄◄ ►►I ►II ■	These buttons do not function.
⑭	**TV**	Press to select the TV as the video input source.
⑮	**INPUT**	Press to open the *INPUT SOURCE* menu, then press ▲ or ▼ to select the video input source you want.
⑯	**ASPECT**	Select screen mode.
⑰	**SLEEP**	Press to set the sleep timer.
⑱	**GUIDE**	Press to open the DTV program guide(if available) .
⑲	**INFO**	Display the current channel information.
⑳	**CH ∧ / CH ∨**	Press to go to the next or previous channel in the channel list.
㉑	**MUTE**	Press to mute the sound. Press again to restore the sound.
	DMP	This button does not function.
㉒	**EXIT**	Press to go back previous on-screen menu.
㉓	**LAST**	Return to previous channel.

Using the remote control

Installing remote control batteries

To install remote control batteries:
1 Press down on the battery compartment cover lock, then remove the remote control cover.
2 Insert two AAA batteries into the battery compartment. Make sure that the + and − symbols on the batteries match the + and − symbols in the battery compartment.
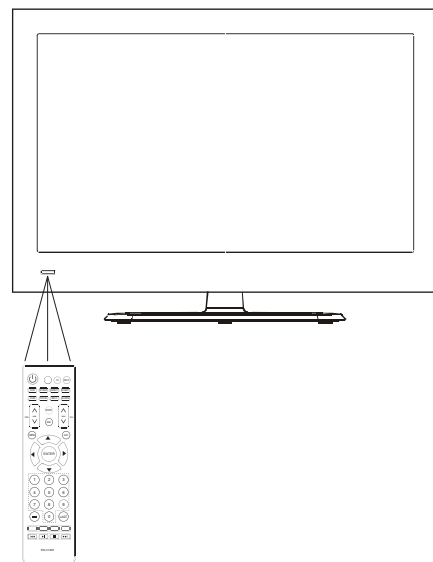3 Replace the cover. Make sure that the lock snaps into place.
4 Install screw.

Battery precautions:

- *Dispose of batteries as hazardous waste.*
- *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 can cause old batteries to leak.*
- *Remove batteries as soon as they become inoperable. Chemicals that can leak from the batteries can cause a rash. If the batteries leak, clean the battery compartment with a cloth.*
- *If the remote control is not used for an extended period of time, remove the batteries.*
- *Do not expose batteries to excessive heat such as sunshine, fire, or other heat sources.*

Aiming the remote control

To aim the remote control:
- Point the remote control towards the remote sensor on the front of your TV.

Notes:

- *Do not expose the remote control to shock or liquids.*
- *Do not use the remote control in an area with high humidity.*
- *Do not place the remote control in direct sunlight.*
- *Do not place objects, such as furniture, between the remote control and the remote sensor.*
- *The remote control may not work if direct sunlight or bright light shines on the remote sensor. Either move your TV or change the angle at which you use the remote control.*
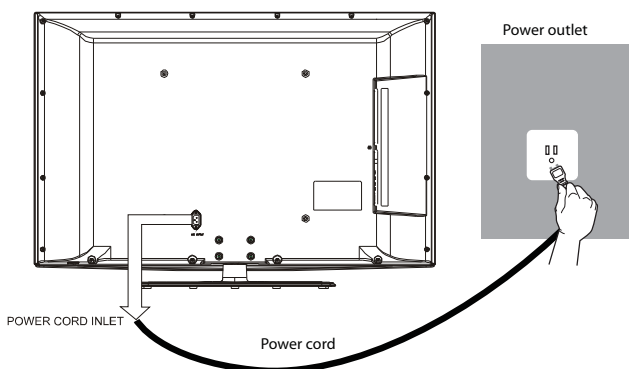
Making connections

Before you make any connections:
- Check the plugs on the ends of cables to make sure that they are the correct type before you try plugging them into jacks on the TV.
- Make sure that all plugs are securely inserted into the jacks. Loose connections can result in image or color problems.
- When connecting devices to the TV, make sure that the TV and the device are turned off and that the power cords are unplugged.

Connecting the power

To connect the power cord:
- Connect the power cable to the **AC IN** jack on the back of the TV, then connect the other end to a power outlet.

Notes:
- *The AC plug on the TV may be different from the one shown.*
- *Make sure that you only use the type of power source indicated on the marking label.*
- *Always unplug the power cord when not using the TV for a long period of time.*

Selecting a location

You should select a location for the TV:
- Where direct light does not reflect on the screen
- That has indirect and soft lighting
- Where the TV has access to an antenna or cable TV connection
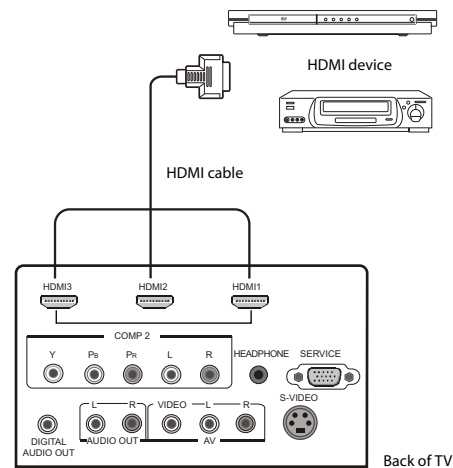- Where the TV has access to a power outlet

Note: Watching TV in total darkness or with a reflection on the screen may cause eye strain.

Connecting an HDMI device

Note: If your device has an HDMI connection, we recommend you use it to get the best picture and sound quality possible.

To connect an HDMI device:
- Connect one end of an HDMI cable (not included) to one of the HDMI jacks on the back of your TV, then connect the other end of the cable to the HDMI OUT jack on the HDMI device.

*Note: To connect a DVI device, use a DVI to HDMI adapter cable to connect to the **HDMI** jack on the TV, then connect an audio cable to the **PC AUDIO** jack on the side of the TV.*
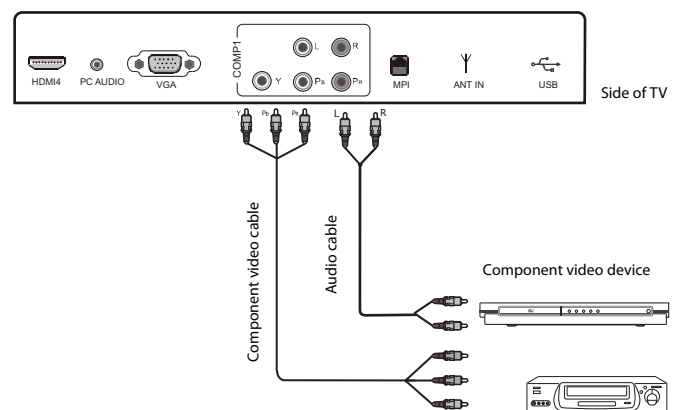
To play from the HDMI device:
1. Turn on the TV, then press **INPUT**. The *INPUT SOURCE* menu opens.
2. Press ▲ or ▼ to select **HDMI1**,**HDMI2**,**HDMI3**,**HDMI4** , then press **ENTER.**
3. Turn on the HDMI device, then set it to the correct mode. Refer to the instructions that came with the HDMI device.

Connecting a component video device

Component cables often have red, green, and blue color-coded video connectors and red and white audio connectors. Match the colors when making connections.

To connect a component video device:
1. Make sure that your TV's power cord is unplugged and the component video device is turned off.
2. Connect a component video cable to the **COMPONENT OUT** jacks on the component video device.

3. Connect the other end of the component video cable to the **COMPONENT** jacks on the back/side of your TV.
4. Connect an audio cable to the **AUDIO OUT** jacks (L/R) on the component device.
5. Connect the other end of the audio cable to the **COMPONENT AUDIO-R** and **AUDIO-L** jacks on the back/side of your TV.

To play from the component video device:

1 Turn on the TV, then press **INPUT**. The *INPUT SOURCE* menu opens.
2 Press ▲ or ▼ to select **YPbPr1 or YPbPr2**, then press **ENTER**.
3 Turn on the component video device and start playback. Refer to the instructions that came with the component video device.
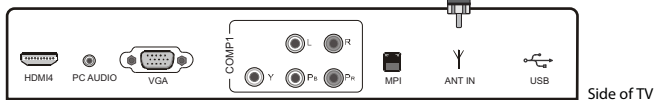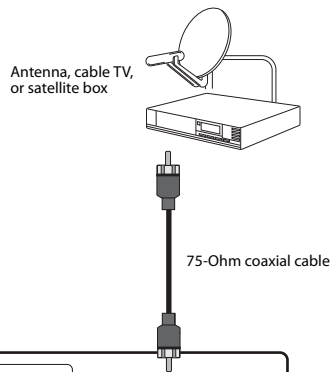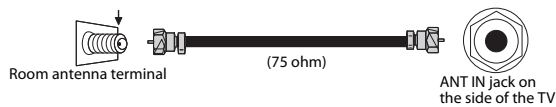
Connecting an antenna, cable TV, or satellite TV box

If you are connecting a satellite TV or cable box, you can use one of the following (if available):
- Best - HDMI cable
- Better - Video component cables
- Good - Video composite cable
- Acceptable - 75-ohm coaxial cable.

To connect an antenna, cable TV, or satellite TV box:
- Connect one end of a 75-Ohm, coaxial cable to the **ANT IN** jack on the side of the TV, then connect the other end of the cable to the antenna or cable TV wall jack.

Room antenna terminal   (75 ohm)   *ANT IN jack on the side of the TV*

Antenna, cable TV, or satellite box

75-Ohm coaxial cable

HDMI4 PC AUDIO VGA   COMP1 Y P_B P_R L R   MPI ANT IN USB   Side of TV

Notes:

- *We recommend using a 75-Ohm, coaxial cable to reduce interference and noise that may be caused by radio wave transmissions.*
- *Do not bundle the coaxial cable with the power cord or any other cables.*
- *If you are using an antenna and reception is not good, contact a service technician to adjust the antenna.*
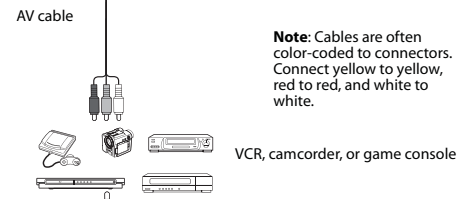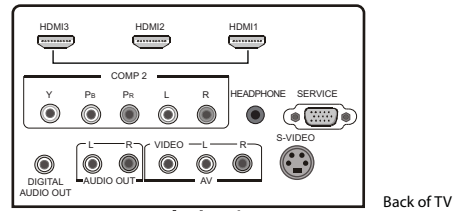
Connecting a VCR, camcorder, or game console

Note: If the VCR, camcorder, or game console has component jacks (better), or an HDMI jack (best), connect them using the best available connection.

To connect a VCR, camcorder, or game console:
1 Make sure that your TV's power cord is unplugged and the VCR, camcorder, or game console is turned off.
2 Connect one end of a standard AV cable (not included) into the **AV** video jack on the back of the TV, then connect the other end of the cable to the **AV OUT VIDEO** jack on the external device.

3 Connect the audio connectors of the AV cable (the red and white connectors) to the **AV OUT AUDIO** jacks of the external device, then connect them to the **AV L** and **R** jacks on the back of your TV.

HDMI3 HDMI2 HDMI1   COMP 2   Y P_B P_R L R HEADPHONE SERVICE   S-VIDEO   L R VIDEO L R   DIGITAL AUDIO OUT   AUDIO OUT   AV   Back of TV

AV cable

Note: Cables are often color-coded to connectors. Connect yellow to yellow, red to red, and white to white.

VCR, camcorder, or game console

To play the external AV device:
1 Turn on the TV, then press **INPUT**. The *INPUT SOURCE* menu opens.
2 Press ▲ or ▼ to select **AV**, then press **ENTER**.
3 Turn on the device, then start playback on the device.
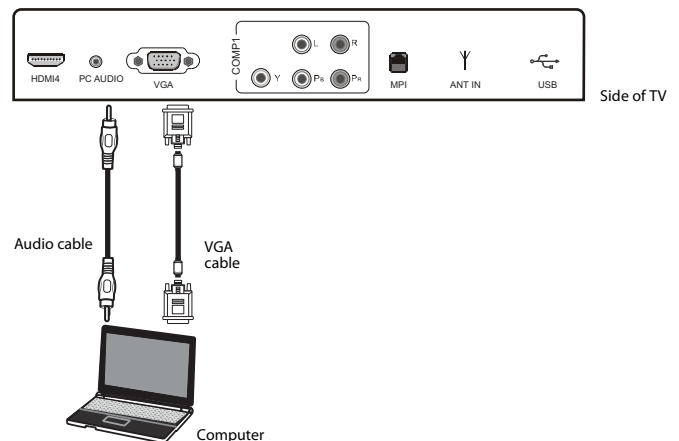
Connecting a computer

To connect a computer:
1 Make sure that your TV's power cord is unplugged and the computer is turned off.
2 Connect one end of a VGA cable (not included) to the **VGA** jack on the side of the TV, then connect the other end of the cable to the **VGA** jack on the computer.
   The D-Sub cable will not supplied with the product.
   We strongly recommend to use D-Sub cable with 2 cores as shown in the figure.

HDMI4 PC AUDIO VGA   COMP1 Y P_B P_R L R   MPI ANT IN USB   Side of TV

Audio cable   *VGA cable*

Computer

3 Connect one end of an audio cable with a stereo mini-plug (not included) to the **PC AUDIO** jack on the side of the TV, then connect the other end of the cable to the **AUDIO OUT** jack on the computer.
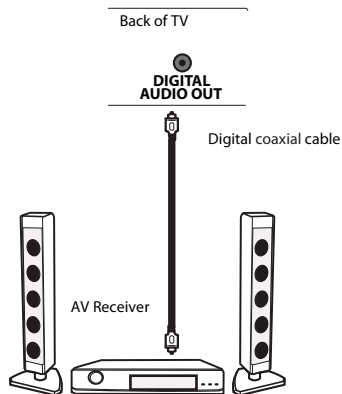
To play video from the computer:
1 Turn on the TV, then press **INPUT**. The *INPUT SOURCE* menu opens.
2 Press ▲ or ▼ to select **VGA**, then press **ENTER**.
3 Turn on the computer, then adjust the computer display properties as needed.

Connecting a AV receiver

Connecting using a digital audio cable

To connect using a digital coaxial cable:

1   Make sure that your TV's power cord is unplugged and the AV receiver is turned off.

2   Connect one end of a digital coaxial audio cable (not included) to the **DIGITAL AUDIO OUT** jack on the back of the TV.

Back of TV

DIGITAL
AUDIO OUT

Digital coaxial cable

AV Receiver

3   Connect the other end of the audio cable to the digital coaxial input jack on the AV receiver.

To play TV sound through a AV receiver:

1   Turn on the TV and select a program to watch.

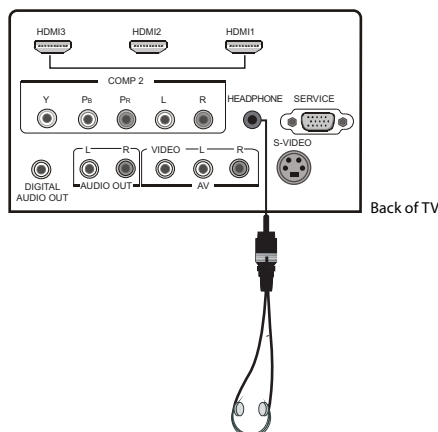2   Turn on the AV receiver and select the TV sound source, then adjust the volume to a comfortable level.

Connecting headphones

Warning: When using headphones, adjust the headphone volume to avoid excessively loud volume which can damage your hearing.

To connect headphones:

•   Plug the headphones (not included) into the ♡ (headphone) jack on the back of the TV.

Note: The TV sound automatically mutes when headphones are connected period.

HDMI3   HDMI2   HDMI1

COMP 2

Y   PB   PR   L   R   HEADPHONE   SERVICE

S-VIDEO

L—R   VIDEO   L—R

DIGITAL   AUDIO OUT   AV
AUDIO OUT

Back of TV

Understanding the basics

Turning your TV on or off

To turn your TV on or off (standby mode):

1   Plug the power cord into an AC power outlet.

2   Press ⏻ (power). Your TV turns on.

3   Press ⏻ again to turn off your TV. When you turn off your TV, it goes into standby mode.

Warning: When your TV is in standby mode, it is still receiving power. To completely disconnect power, unplug the power cord.

Note: If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

Selecting the video input source

To select the video input source:

1   Turn on your TV, then press **INPUT** on the remote control or on the TV. The *INPUT SOURCE* menu opens.

2   Press ▲ or ▼ to highlight the video source you want, then press **ENTER**. Options include **TV**, **AV**, **YPbPr1, YPbPr2, VGA** (computer), **HDMI1, HDMI2, HDMI3, HDMI4, S-VIDEO.**

Selecting a channel

Tip: If you are using a cable or satellite box, use the remote control that came with that device to change channels.

To select a channel:

•   Press **CH ∧ /CH ∨** to go to the next or previous channel.

•   Press the number buttons to enter the channel number you want, then wait for the channel to change, or press **ENTER** to change the channel immediately.

  •   To select a digital channel, press the number buttons to select the main digital channel, then press the dash(-). button, then the number buttons again to select the sub-channel. Wait for the channel to change or press **ENTER** to change the channel.

Note: Button presses must be within three seconds of each other.

•   Press **LAST** to go to the last channel viewed.

•   Press **GUIDE** to display a list of memorized channels, press ▲ or ▼ to select the channel you want from the list, then press ENTER to go to that channel.

Note: If the list has more than one page, press ▲ or ▼ to scroll through the pages.
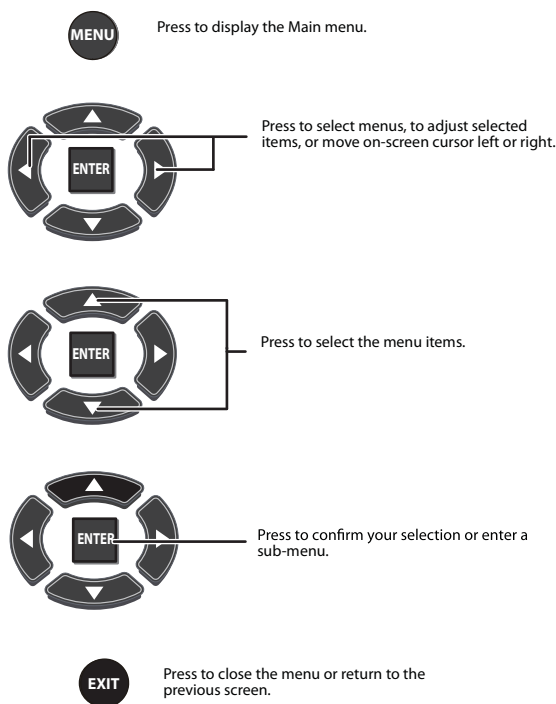
Adjusting the volume

To adjust the volume:

•   Press **VOL ∧ /VOL ∨** to increase or decrease the volume.

•   Press **MUTE** to temporarily turn off all sound. Press **MUTE** again to restore the sound.

Displaying program information
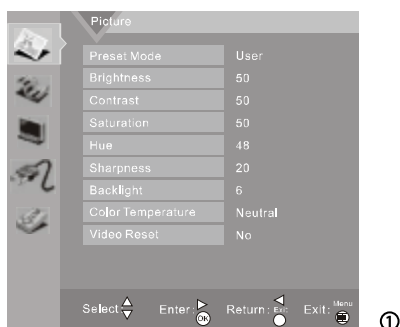
To display program information:

- Press **INFO** to show an information banner. The information banner shows current program information such as channel number, video input source, and resolution.
  - **Digital signal information**—Displays channel number, station name, channel label (if preset), broadcast program name, signal type, audio information, resolution, current program start, and end times when watching a digital channel.
  - **Analog signal information**—Displays channel number, channel label (if preset), signal type, audio information, and resolution when watching an analog channel.
- Press **MENU**,then GUIDE to show the digital program guide, which may show a list of available programs, program times, and program summaries, depending on the information provided by the broadcaster.

Navigating the menus

MENU — Press to display the Main menu.

ENTER — Press to select menus, to adjust selected items, or move on-screen cursor left or right.

ENTER — Press to select the menu items.

ENTER — Press to confirm your selection or enter a sub-menu.

EXIT — Press to close the menu or return to the previous screen.
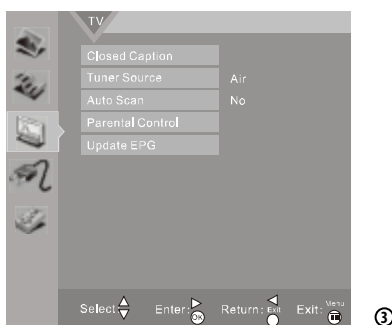
On-screen menu overview

Use the on-screen menu to configure the various operational settings of your TV. To access the menu, press **MENU**. The menus and their corresponding functions are described in the following table:
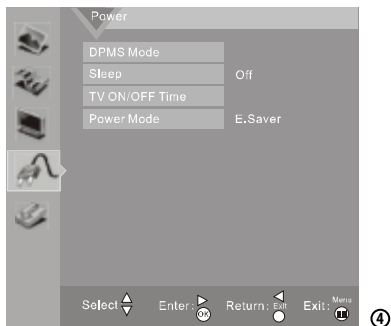
Picture		
Preset Mode	User	
Brightness	50	
Contrast	50	
Saturation	50	
Hue	48	
Sharpness	20	
Backlight	6	
Color Temperature	Neutral	
Video Reset	No	

Select Enter Return: Exit Exit: Menu   ①

① Picture	Preset Mode	Lets you enable one of five preset viewing options optimized for different viewing conditions.
	Brightness	Lets you adjust the level of brightness on the screen. Increasing brightness can add more light to dark areas of the picture.
	Contrast	Lets you adjust the level of picture contrast. Increasing the contrast adds more light to the white areas of the picture.
	Saturation	Lets you adjust the level of color intensity.
	Hue	Lets you adjust the overall color of the picture.(only supported in TV/AV mode)
	Sharpness	Lets you adjust the focus of the picture. Increase sharpness for a clearer picture, or decrease sharpness for a smoother picture.
	Backlight	Lets you control panel overall brightness and background.
	Color Temperature	Lets you select one of three preset color temperature settings: **Cool, Neutral** or **Warm**.
	Video Reset	Change settings back to default.(picture only)

Audio		
MTS	Mono	
Digital Audio		
Speaker	Both	
Balance	0	
Audio Setting		
Virtual Surround		

Select Enter: OK Return: Exit Exit: Menu   ②

② Audio	MTS	Lets you enable the SAP(Second Audio Program) function. This lets you listen to a program using an alternative second language. Function availability depends on your TV provider.
	Digital Audio	Lets you select the language track you prefer for viewing digital TV programs. Available options depend on your digital TV provider.
	Speaker	Lets you select internal speaker,external speakers (connect to stereo Audio jacks, or Digital Audio output jack) or both,headphone jack will turn off internal speaker.
	Balance	Lets you adjust the balance between the left and right speakers.
	Audio Settings	Lets you select the audio frequency you want to adjust and change its value. Lets you enable one of five preset sound options optimized for different sound conditions.
	Virtual Surround	Let you turn the surround sound effect on or off.

TV		
Closed Caption		
Tuner Source	Air	
Auto Scan	No	
Parental Control		
Update EPG		

Select Enter: OK Return: Exit Exit: Menu   ③

③ TV	Closed Caption	Lets you configure the settings for closed captioning (CC,also known as subtitles) in TV programs.
	Tuner Source	Lets you select the signal source for your TV(Antenna,STD calbe,HRC cable or IRC cable).
	Auto Scan	Lets you initiate an automatic channel scan to set up the available channels on your TV.
	Parental control	Lets you select certain programs to be blocked and lets you change access password.
	Update EPG	Lets you update EPG information.

④ Power	DPMS Mode	Use this setting when using your TV with a computer. When using a connected computer, lets the computer control if the screen is on or off.
	Sleep	Lets you select one of five sleep times.
	TV ON/OFF Timer	Lets you set on/off power time.
	Power Mode	Lets you select Energy Saver mode / Normal mode.

⑤ Setting	Language	Lets you select the language for the on-screen display. Choose from English, French, or Spanish.
	Aspect Ratio	Lets you select the aspect ratio of the screen. Choose from full screen(16:9) or normal(4:3).
	Zoom V-Position	The function works with Aspect Ratio=Zoom1 or Zoom2. It allows users to adjust the vertical position of video display.
	OSD Timeout	Set the display time of OSD.
	Transparency	Lets you adjust OSD transparency.
	Date & Time	Lets you configure the system clock, time zone settings and daylight saving.
	Input Source Labeling	Allows you to name each input.

Note: Menu items that are not selectable are grayed out. Menus in this manual are described in TV mode, unless otherwise indicated.

Adjusting the picture

To adjust the picture:
1 Press **MENU**. The *Main* menu opens.
2 Press **ENTER** or ▶. The *Picture* menu opens.

3 Press ▲ or ▼ to highlight an option, then press **ENTER** or ▶ to access the option, and press ◀ or ▶ to adjust the option. You can select:
   • **Picture Mode**—Selects the picture mode. You can select:
     • **Vivid** (a bright and vivid picture)
     • **Normal** (a standard picture)
     • **Game** (a finely detailed picture)
     • **Movie** (the brightness is decreased)
     • **Sports** (a dynamic picture)
     • **User** (customized picture).

   *Note: You can also press **PICTURE** on the remote control to select the picture mode.*

   • **Brightness**—Lets you increase or decrease the brightness of the picture. Increasing the brightness can add more light to dark areas of the picture, while decreasing the brightness can add more darkness to light areas of the picture.
   • **Contrast**—Lets you increase or decrease the contrast of the picture. Increase the contrast to adjust the white areas of the picture or decrease the contrast to adjust the black areas of the picture.
   • **Saturation**—Lets you adjust the intensity of the colors.
   • **Hue**—Lets you adjust the overall color of the picture (only supported in TV/AV mode).
   • **Sharpness**—Lets you increase the sharpness level for clearer images or decrease the sharpness level for smoother images.
   • **Color temperature**—Lets you change the color temperature. You can select the color temperature from three options: **Cool, Neutral,** or **Warm**.
   • **Video Reset**—Lets you reset picture settings to factory default value (picture only).

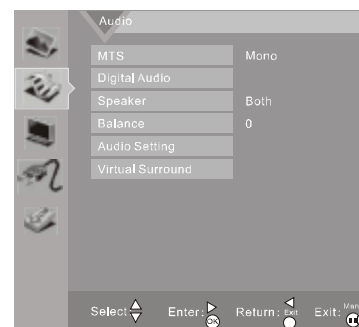4 Press **EXIT** to return to the previous menu, or press **MENU** to close the menu.

Choosing the display format (aspect ratio)

To choose the display format:
1 Press **ASPECT** on the remote control repeatedly to cycle through the available display formats. Options include:
   • **Normal**—Selects the 4:3 aspect ratio to show a picture with black bars on both right and left hand side.
   • **Full Screen**—Shows a full-screen picture.
   • **Zoom1**—Enlarges the picture but may crop the top and bottom of picture. And has less black bars on right and left than Normal aspect mode.
   • **Zoom2**—Enlarges the picture but may crop the top and bottom of picture. And no black bars on right and left.

   • **Panorama**—Stretches the picture at the edges, but maintains a good aspect ratio at the center of the screen.

   Note: In analog TV mode, allows you to select all aspect modes. In digital TV mode, allows you to select Normal mode and full-screen mode. Zoom and panorama modes are not available.

Adjusting the sound

To adjust the sound:
1 Press **MENU**. The *Main* menu opens.
2 Press ▲ or ▼ to highlight **Audio**, then press **ENTER** or ▶. The *Audio* menu opens.

3 Press ▲ or ▼ to highlight an option, then press **ENTER** or ▶ to access the option, and press ◀ or ▶ to adjust the option. You can select:
   • **MTS**—In analog TV mode, lets you select **STEREO, SAP** (secondary audio language), or **MONO**.
   • **Digital Audio**—In digital TV mode, lets you select the audio language for a program (if languages are available).
   • **Speaker**—Lets you select **Internal** (the TV speaker), **External** (connecting with external audio enquipment, such as amplifier or speakers), or **Both**.
   • **Balance**—Adjusts the balance between the left and right audio channels.
   • **Audio Setting**—Lets you access and adjust advanced audio settings, such as Equalizer (In user audio mode, you can select the frequency you want to adjust and change its value), sound mode (you select among Normal, Rock, Jazz, Classic, Pop and User).
   • **Auto Volume Control**—Lets you turn automatic volume control on or off. When this option is turned on, it keeps the audio in a preset range to eliminate large spikes in volume.
   • **Virtual Surround**—Lets you turn surround sound effect on or off.

4 Press **EXIT** to return to the previous menu, or press **MENU** to close the menu.

Selecting the audio mode

To select the audio mode:
   • Press **SOUND** on the remote control one or more times to cycle through the available sound modes. Options include:
     • **Normal** (for normal programs).
     • **Rock** (for music programs).
     • **Jazz** (for music programs).
     • **Classsic** (for music programs).
     • **Pop** (for music programs).
     • **User** (for a customized sound mode).