User Guide 28" LED TV/DVD Combo



NS-28ED200NA14

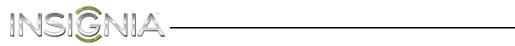


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CHILD SAFETY

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 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 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.

- Read these instructions.
- **2** Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- **5** Do not use this apparatus near water.
- **6** Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **8** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



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

WARNING

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, take extreme care 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.

Servicing

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION

Damage requiring service

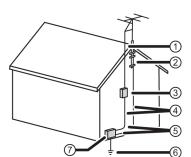
Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged or fraved.
- 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 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
- · 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
- Grounding clamp
- Antenna discharge
- Grounding conductors
- **Ground clamps**
- Power service grounding electrode system
- 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 containing a small amount of mercury. Disposal of this material 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 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.



Insignia 28" LED TV/DVD Combo

Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-28ED200NA14 represents the state of the art in LED TV and DVD player design and is designed for reliable and trouble-free performance.

Installing the stand or wall-mount bracket

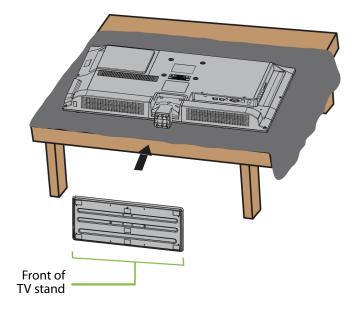
Notes

- If you plan to wall-mount your TV, do not install the stand.
- Store the stand and stand screws in case you decide to use the stand in the future.

Installing the stand

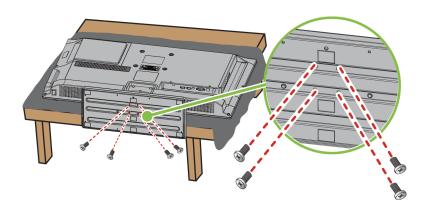
To install the stand:

1 Carefully place your TV face-down on a cushioned, clean surface to protect the screen from damages and scratches.



2 Secure the TV stand to the TV with the four provided screws.







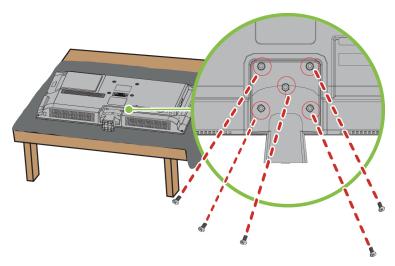
Installing a wall-mount bracket

Warning

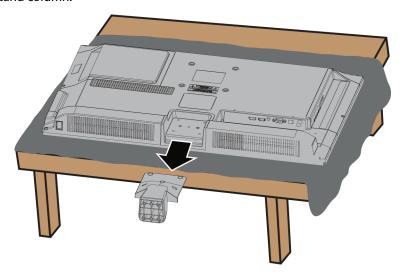
This TV is intended to be supported by a UL Listed wall mount bracket with suitable weight/load. (See "Miscellaneous" on page 70.)

To attach your TV to a wall-mount bracket:

- 1 Carefully place your TV face-down on a cushioned, clean surface to protect the screen from damages and scratches.
- 2 Remove the five screws that secure the stand column to the TV.



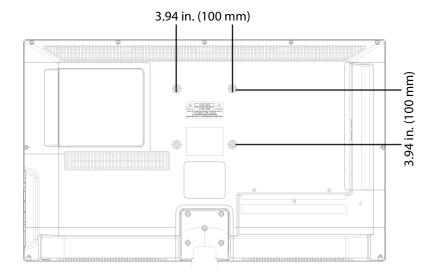
3 Remove the stand column.





4 Attach the wall-mount bracket to your TV using the mounting holes on the back of your TV. See the instructions that came with the wall-mount bracket for information about how to correctly hang your TV.

- The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.
- The mounting holes on the back of your TV take type M4 screws.



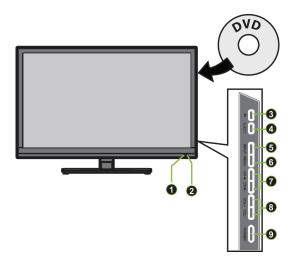
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TV components

Package contents

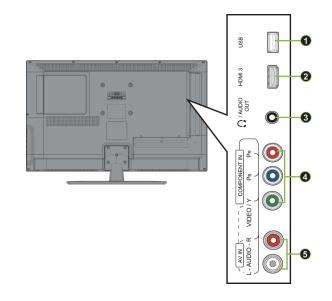
- 28" LED TV/DVD combo
- Remote control and batteries (2 AAA)
- Stand base and screws (4)
- Quick Setup Guide
- Important Information

Front



# Item	Description
1 Power indicator	Turns off when your TV is on. Lights red when your TV is off (standby mode).
Remote control sensor	Receives signals from the remote control. Do not block.
③ ►II (play/pause)	Press to start or pause DVD playback.
4 EJECT	Press to eject a DVD.
⑤ INPUT	Press to open the INPUT SOURCE list, press CH▲ or CH▼ to select the video input source, then press INPUT again. For more information, see "Selecting the video input source" on page 37. In menu mode, press to confirm selections.
6 MENU	Press to open the on-screen menu. For more information, see "Navigating the menus" on page 38.
7 CH▲/CH▼	Press to go to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 39.
8 VOL+/VOL-	Press to increase or decrease the volume.
9 power	Press to turn your TV on or off (standby mode). Warning: When your TV is off, power still flows through it. To completely disconnect power, unplug the power adapter.

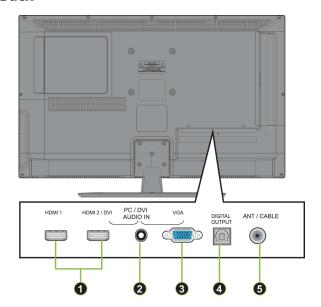
Side



#	Item	Description
1	USB	Connect a USB flash drive to this jack to view compatible JPEG picture files. For more information, see "Connecting a USB flash drive" on page 28 and "Using a USB flash drive" on page 61.
2	HDMI 3	Connect an HDMI device to this jack. For more information, see "Using HDMI (best)" on pages 12, 18, 22, or 26.
3	೧∕AUDIO OUT	Connect headphones, an analog audio amplifier, a home theater system, or a sound bar to this jack. For more information, see "Using analog audio" on page 31.
4	COMPONENT IN/ AV IN VIDEO/Y, PB, PR OR COMPONENT IN/ AV IN VIDEO/Y	The COMPONENT IN/AV IN VIDEO/Y jack works as one of the three component video jacks or as a composite video jack. Connect the video for a component video device to these jacks. For more information, see "Using component video (better)" on page 14, 20, or 23. OR Connect the video for a composite video device to the COMPONENT IN/AV IN VIDEO/Y jack. For more information, see "Using composite video (good)" on page 15, 21, or 24.
⑤	L and R AUDIO	Connect the audio for a component video device to these jacks. For more information, see "Using component video (better)" on page 14, 20, or 23. OR Connect the audio for a composite video device to these jacks. For more information, see "Using composite video (good)" on page 15, 21, or 24.



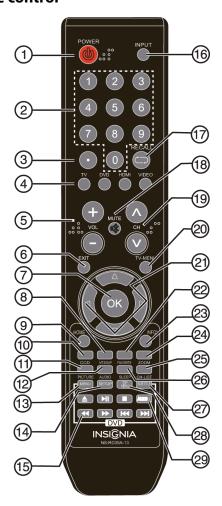
Back



Description
Connect HDMI devices to this jacks. For more information, see "Using HDMI (best)" on pages 12, 18, 22, or 26. OR Connect the video for a DVI device to the HDMI 2/DVI jack. For more information, see "Using DVI (same as HDMI but requires an audio connection)" on pages 13, 19 or 27.
Connect the audio for a computer to this jack. For more information see "Using VGA (most common)" on page 25. OR Connect the audio for a DVI device to the this jack. For more information see, "Using DVI (same as HDMI but requires an audio connection)" on pages 13, 19, or 27.
Connect the video (VGA) for a computer to this jack. For more information, see "Using VGA (most common)" on page 25.
Connect a digital audio amplifier or home theater system to this jack to listen to TV audio through the amplifier speakers. For more information, see "Using digital audio" on page 30.
Connect an antenna or cable TV to this jack. For more information, see "Using coaxial (good)" on page 16 or "Connecting an antenna or cable TV (no box)" on page 17.

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Remote control



#	Button	Description
1	ပံ (power)	Press to turn your TV on or off (standby mode). When your TV is off, power still flows through it. To disconnect power, unplug the power adapter.
2	Numbers	Press to enter channel numbers and the parental control password.
3	•	Press to enter a digital sub-channel number. For more information, see "Selecting a channel" on page 39.
4	Quick Launch Inputs	TV—Press to select your TV as the input source. DVD—Press to select the DVD player as the input source. HDMI—Press one or more times to select the device connected to the HDMI 1, HDMI 2/DVI, or HDMI 3 jack. VIDEO—Press to select the device connected to the COMPONENT IN jacks or AV IN VIDEO jack.
(5)	V0L+/-	Press to increase or decrease the volume.
6	EXIT	Press to close the on-screen menu.
7	OK	Press to confirm selections or changes.

#	Button	Description
8	MTS/SAP	Press to select the audio mode for an analog program. You can select: • MONO—Select this option if there is noise or static on weak stereo broadcasts. • STEREO—Select this option for programs broadcast in stereo. • SAP—Select this option to listen to a secondary audio program, if available. OR Press to select the audio language for a digital program, if alternate languages are available.
(9)	HOME	This button has no function.
10		Press to turn closed captioning on or off. You can select CC Off, CC On , or CC On When Mute . For more information, see "Turning closed captioning on or off" on page 55.
11)	PICTURE	Press to select the picture mode. You can select Vivid , Standard , Energy Savings , Movie , Sports , or Custom . For more information, see "Picture Mode" in "Adjusting the TV picture" on page 43.
12	AUDIO	Press to select the sound mode. You can select Standard, News, Music, Movie , or Custom . For more information, see "Sound Mode" in "Adjusting sound settings" on page 45.
13	MENU	Press to open the DVD menu.
14)	SETUP	Press to open the DVD setup menu.
15)	DVD playback controls	 (eject) (play/pause) (stop) (fast reverse) (fast forward) (previous chapter) (next chapter)
16	INPUT	Press to open the <code>INPUT SOURCE</code> list, press \triangle or \blacktriangledown on the remote control to select the video input source, then press OK . For more information, see "Selecting the video input source" on page 37.
17)	🗘 (return)	In TV mode, press to return to the previous channel. In USB mode, press to go back to a higher level folder.
18	¤≮ /MUTE	Press to mute the sound. Press again to restore the sound.
19	CH ∕/CH ✓	Press to change TV channels. For more information, see "Selecting a channel" on page 39.
20)	TV-MENU	Press to open the on-screen menu for the TV.
21	▲▼∢ ▶	Press to navigate in on-screen menus and to adjust settings.
22	FAVORITE	Press to open the <i>Favorite</i> channel list. For more information, see "Setting up a favorite channel list" on page 49 and "Viewing a favorite channel" on page 49.
23	INFO	Press to display TV status information, such as the channel number, channel name (if available), or signal source. For more information, see "Viewing channel information" on page 39.
24	Z00M	Press to change how the picture looks on the screen (aspect ratio). For more information, see the "Aspect Ratio" option in "Adjusting the TV picture" on page 43.



#	Button	Description
25)	CH-LIST	Press to open the channel list.
26	SLEEP	Press to set the sleep timer. You can select Off, 5, 10, 15, 30, 60, 90, 120, 180, or 240 minutes. For more information, see "Setting the sleep timer" on page 59.
27	SUBTITLE	Press to select a DVD subtitle language, if available.

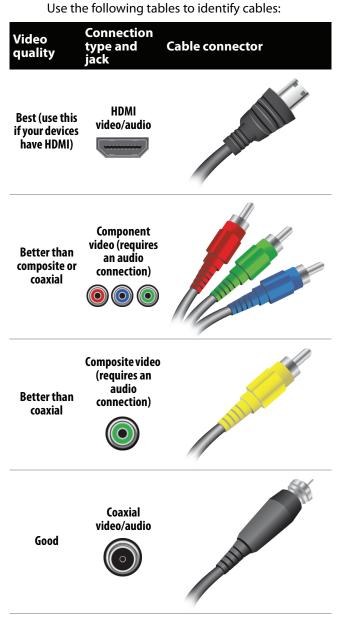
TOP MENU Press to open the DVD title menu.	
29 AUDIO Press to select a different DVD aud available.	io language, if

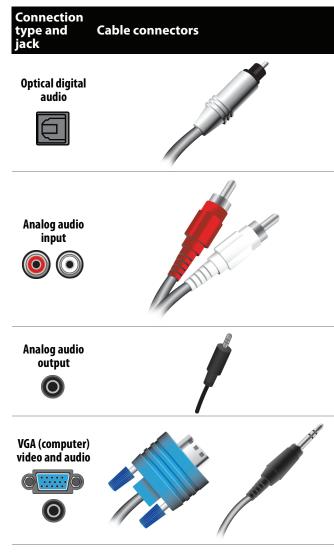


What connection should I use?

Your TV has several connection types for connecting devices to your TV.

For the best video quality, you should connect a device to the best available connection.





You can use the **HDMI 2/DVI** jack on your TV to connect a DVI device to your TV. You need to attach an HDMI-to-DVI adapter to the end of the HDMI cable that connects to the DVI device.

Cautions

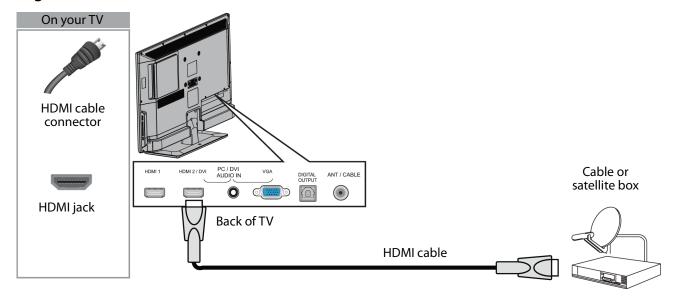
- Check the jacks for position and type before making any connections.
- Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.
- Always unplug the power adapter when connecting external equipment.



Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see "What connection should I use?" on page 11.

Using HDMI (best)



To connect a cable or satellite box using HDMI:

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side or back of your TV and to the **HDMI OUT** jack on the cable or satellite box.
- 4 Plug your TV's power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to highlight HDMI 1, HDMI 2, or HDMI 3, then press OK.

Note

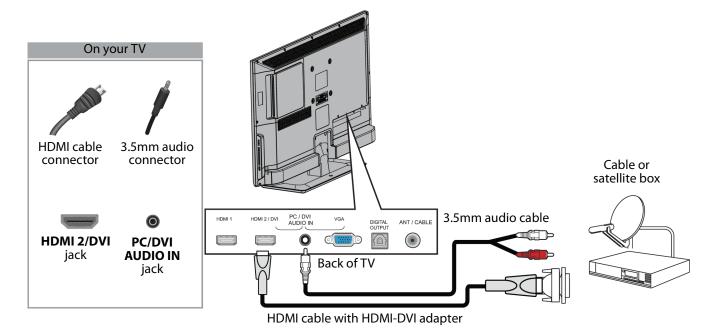
An HDMI cable carries both audio and video. You do not need to use any audio cables.



Using DVI (same as HDMI but requires an audio connection)

Note

You must use the **HDMI 2/DVI** jack to connect a cable or satellite box. If you use another HDMI jack, you will not hear sound from the TV speakers.



To connect a cable or satellite box using DVI:

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- **3** Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect the adapter to the **DVI OUT** jack on the cable or satellite box.
- 4 Connect the other end of the cable to the HDMI 2/DVI jack on the back of your TV.
- 5 Connect a 3.5mm audio cable (not provided) to the **PC/DVI AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** jacks on the cable or satellite box.

Note

When you connect the audio using the **PC/DVI AUDIO IN** jack, the audio output is analog.

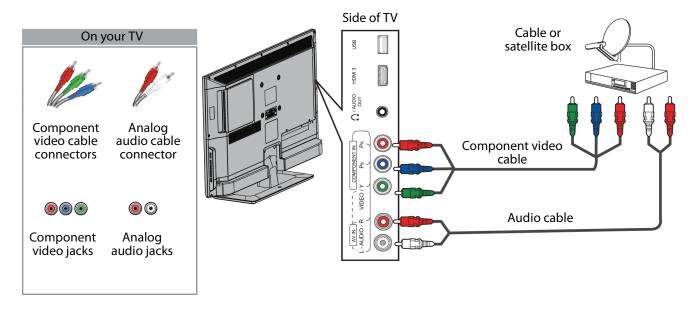
- 6 Plug your TV's power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 7 Press **INPUT** to open the *INPUT SOURCE* list.
- 8 Press ▲ or ▼ to highlight **HDMI 2**, then press **OK**.



Using component video (better)

Note

Cables are often color-coded to match color-coded jacks.



To connect a cable or satellite box using component video:

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- Connect a component video cable (not provided) to the **COMPONENT IN/AV IN VIDEO/Y**, **PB**, and **PR** video jacks on the side of your TV and the component video out jacks on the cable or satellite box.
- **4** Connect an audio cable (not provided) to the **L** and **R AUDIO** jacks on the side of your TV and to the audio out jacks on the cable or satellite TV box.

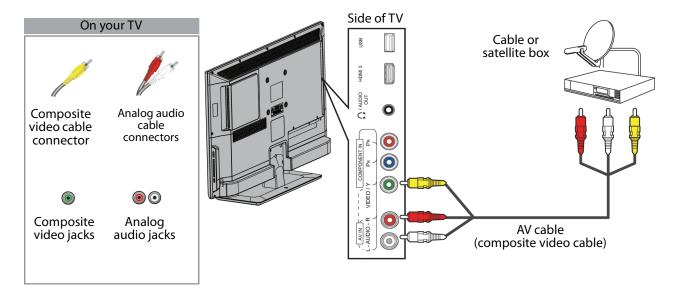
- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device)
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 5 Plug your TV's power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- **6** Press **INPUT** to open the *INPUT SOURCE* list.
- **7** Press **△** or **▼** to highlight **Component/AV**, then press **OK**.



Using composite video (good)

Notes

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green COMPONENT IN/AV IN VIDEO/Y jack.



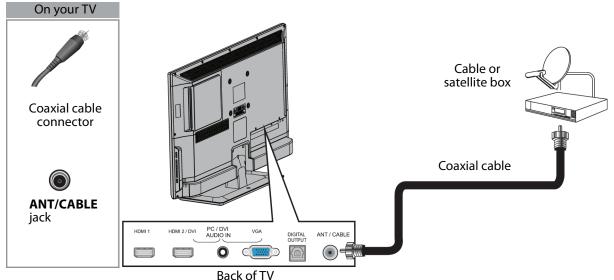
To connect a cable or satellite box using composite video:

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an AV cable (not provided) to the **COMPONENT IN/AV IN VIDEO/Y** jack and **L** and **R AUDIO** jacks on the side of your TV and to the composite video and audio out jacks on the cable or satellite box.

- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device).
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 4 Plug your TV's power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- **6** Press **△** or **▼** to highlight **Component/AV**, then press **OK**.



Using coaxial (good)



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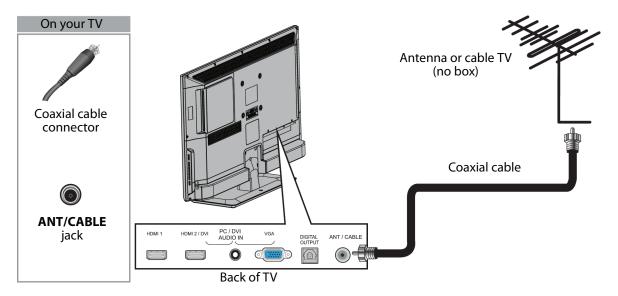
To connect a cable or satellite box using coaxial:

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- **3** Connect a coaxial cable (not provided) to the **ANT/CABLE** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.
- 4 Plug your TV's power adapter into a power outlet, turn on your TV, then turn on the cable or satellite box.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to highlight TV, then press OK.
- 7 If you cannot tune to channels you know exist, scan for channels. See "Automatically scanning for channels" on page 47.

- Use a coaxial cable to eliminate interference and noise from radio waves
- Do not bundle the coaxial cable with the power adapter or other cables.



Connecting an antenna or cable TV (no box)



To connect an antenna or cable TV (no box):

- 1 Make sure that your TV's power adapter is unplugged and all connected equipment is turned off.
- 2 Connect a coaxial cable (not provided) to the ANT/CABLE jack on the back of your TV and to the antenna or cable TV wall jack.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV.
- 4 Press INPUT to open the INPUT SOURCE list.
- **5** Press **△** or **▼** to highlight **TV**, then press **OK**.
- **6** If you cannot tune to channels you know exist, scan for channels. See "Automatically scanning for channels" on page 47.

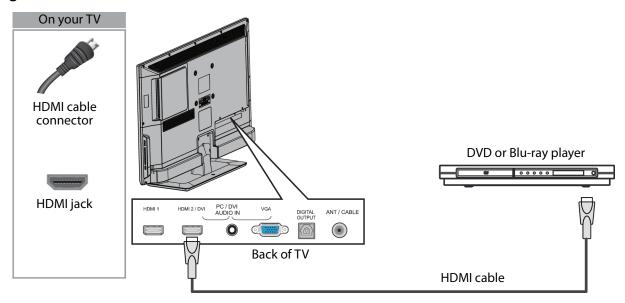
- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power adapter or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.
- If the signal level for a channel is weak, the picture may be distorted. Adjust the antenna or use a highly directional outdoor or set-top antenna with a built-in amplifier.
- If the picture quality is good on some channels and poor on others, the problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.
- If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.
- Many high-definition (HD) channels upscale standard-definition (SD) content. The picture displayed on your TV is still displayed as SD, thus the picture quality will not be as clear or crisp as it would be if the content was originally recorded in HD.



Connecting a DVD or Blu-ray player

Many DVD or Blu-ray players have more than one connection type. To get the best video, you should use the best connection type available. For more information, see "What connection should I use?" on page 11.

Using HDMI (best)



To connect a DVD or Blu-ray player using HDMI:

- 1 Make sure that your TV's power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side or back of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.
- **3** Plug your TV's power adapter into a power outlet, then turn on your TV.
- **4** Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to highlight HDMI 1, HDMI 2, or HDMI 3 then press OK.

Note:

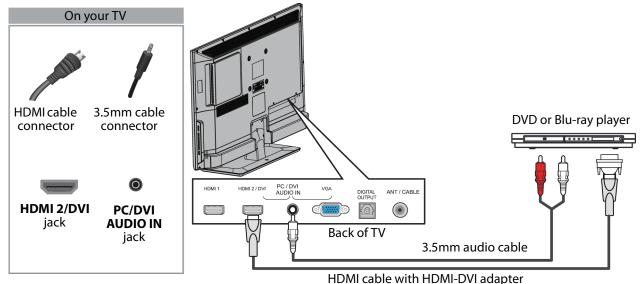
- You can also press **HDMI** repeatedly to select the DVD or Blu-ray player.
- An HDMI cable carries both audio and video. You do not need to use any audio cables.



Using DVI (same as HDMI but requires an audio connection)

Note

You must use the **HDMI 2/DVI** jack to connect a DVD or Blu-ray player using DVI. If you use another HDMI jack, you will not hear sound from the TV speakers.



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To connect a DVD or Blu-ray player using DVI:

- 1 Make sure that your TV's power adapter is unplugged and the DVD or Blu-ray player is turned off.
- **2** Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect the adapter to the **DVI OUT** jack on the DVD or Blu-ray player.
- 3 Connect the other end of the cable to the HDMI 2/DVI jack on the back of your TV.
- 4 Connect a 3.5mm audio cable (not provided) to the PC/DVI AUDIO IN jack on the back of your TV and to the AUDIO OUT jacks on the DVD or Blu-ray player.

Note

When you connect the audio using the **PC/DVI AUDIO IN** jack, the audio output is analog.

- **5** Plug your TV's power adapter into a power outlet, then turn on your TV.
- **6** Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 7 Press INPUT to open the INPUT SOURCE list.
- 8 Press ▲ or ▼ to select HDMI 2, then press OK.

Note

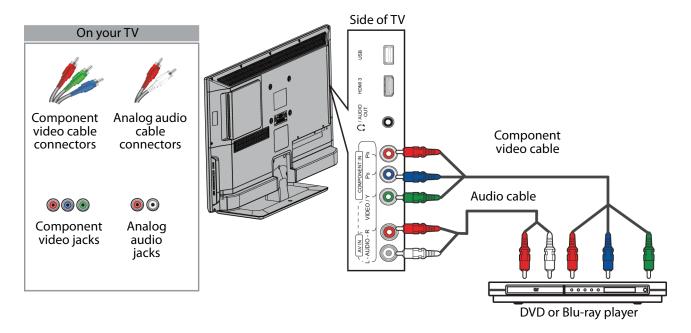
You can also press **HDMI** repeatedly to select the DVD or Blu-ray player.



Using component video (better)

Note

Cables are often color-coded to match color-coded jacks.



To connect a DVD or Blu-ray player using component video:

- 1 Make sure that your TV's power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect a component video cable (not provided) to the **COMPONENT IN/AV IN VIDEO/Y**, **PB**, and **PR** jacks on the side of your TV and to the **COMPONENT OUT** jacks on the DVD or Blu-ray player.
- **3** Connect an audio cable (not provided) to the **L** and **R AUDIO** jacks on the side of your TV and to the **L** and **R AUDIO OUT** jacks on the DVD or Blu-ray player.

Notes

- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device).
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 4 Plug your TV's power adapter into a power outlet, then turn on your TV.
- **5** Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- **6** Press **INPUT** to open the *INPUT SOURCE* list.
- **7** Press **△** or **▼** to select **Component/AV**, then press **OK**.

Note

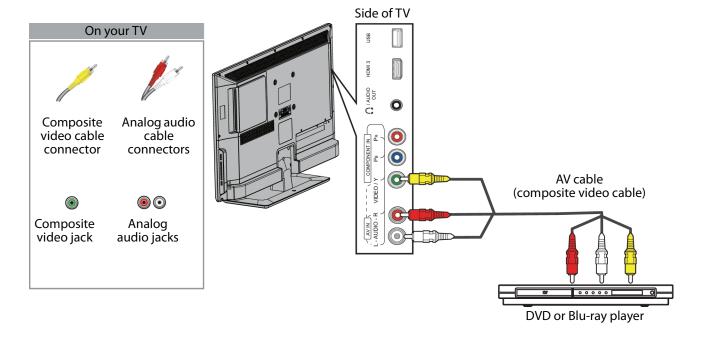
You can also press **VIDEO** repeatedly to select the DVD or Blu-ray player.



Using composite video (good)

Notes

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green COMPONENT IN/AV IN VIDEO/Y jack.



To connect a DVD or Blu-ray player using composite video:

- 1 Make sure that your TV's power adapter is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT IN/AV IN VIDEO/Y** jack and **L** and **R AUDIO** jacks on the side of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player.

Note

- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device).
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV.
- **4** Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- **6** Press **△** or **▼** to select **Component/AV**, then press **OK**.

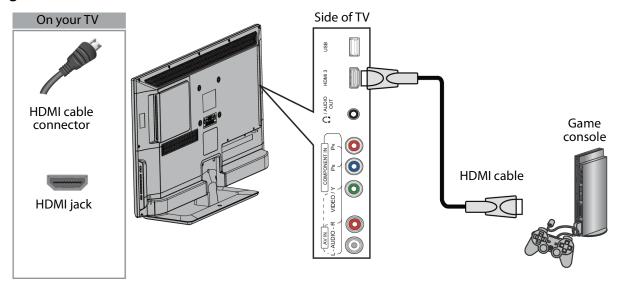
Note

You can also press **VIDEO** repeatedly to select the DVD or Blu-ray player.



Connecting a game console

Using HDMI (best)



To connect a game console using HDMI:

- 1 Make sure that your TV's power adapter is unplugged and the game console is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side or back of your TV and to the **HDMI OUT** jack on the game console.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV.
- **4** Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to highlight HDMI 1, HDMI 2, or HDMI 3 then press OK.

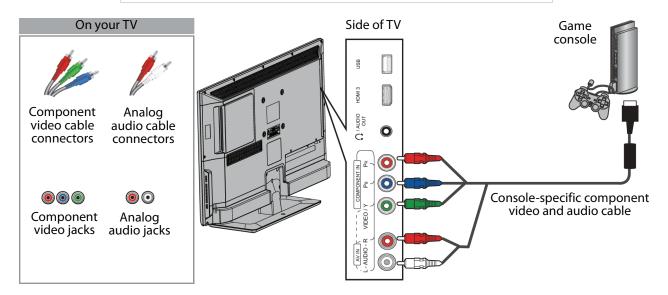
- You can also press HDMI repeatedly to select the game console.
- An HDMI cable carries both audio and video. You do not need to use any audio cables.



Using component video (better)

Note

Cables are often color-coded to match color-coded jacks.



To connect a game console using component video:

- 1 Make sure that your TV's power adapter is unplugged and the game console is turned off.
- 2 Connect the video and audio connectors on the component video cable (not provided) to the **COMPONENT IN/AV IN VIDEO/Y**, **PB**, and **PR** video jacks and **L** and **R AUDIO** jacks on the side of your TV and to the component jack(s) on the game console.

Note

- Your game console may require a special component video cable. See the documentation that came with your game console or check the manufacturer's website.
- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device).
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV.
- **4** Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- **6** Press **△** or **▼** to select **Component/AV**, then press **OK**.

Note

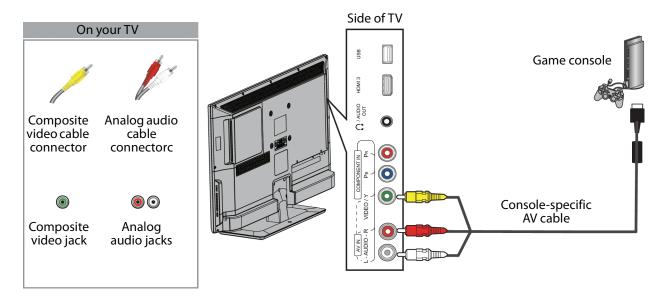
You can also press **VIDEO** repeatedly to select the game console.



Using composite video (good)

Notes

- Cables are often color-coded to match color-coded jacks.
- The yellow video connector on the AV cable connects to the green COMPONENT IN/AV IN VIDEO/Y jack.



To connect a game console using composite video:

- 1 Make sure that your TV's power adapter is unplugged and the game console is turned off.
- 2 Connect the video and audio connectors on the game console's AV cable (not provided) to the COMPONENT IN/AV IN VIDEO/Y jack and L and R AUDIO jacks on the side of your TV and to the composite jack(s) on the game console.

Note

- Most game consoles come with a special AV (composite video) cable.
 See the documentation that came with your game console or check the manufacturer's Web site.
- The COMPONENT IN/AV IN VIDEO/Y, PB, and PR video jacks (used to connect a component device) share the L and R AUDIO jacks with the COMPONENT IN/AV IN VIDEO/Y jack (used to connect a composite device).
- When you connect the audio using the L and R AUDIO jacks, the audio output is analog.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV.
- **4** Turn on the game console, then set it to the correct output mode. For more information, see the documentation that came with the console.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to select Component/AV, then press OK.

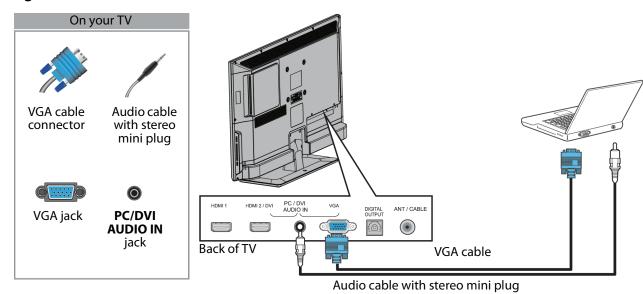
Note

You can also press VIDEO repeatedly to select the game console.



Connecting a computer

Using VGA (most common)

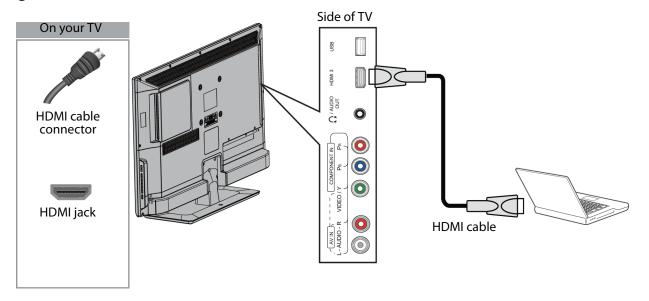


To connect a computer using VGA:

- 1 Make sure that your TV's power adapter is unplugged and the computer is turned off.
- 2 Connect a VGA cable (not provided) to the **VGA** jack on the back of your TV and to the **VGA** jack on the computer.
- 3 Connect an audio cable with a stereo mini plug (not provided) to the **PC/DVI AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** (headphone) jack on the computer.
- 4 Plug your TV's power adapter into a power outlet, then turn on your TV and the computer.
- **5** Press **INPUT** to open the *INPUT SOURCE* list.
- 6 Press ▲ or ▼ to select **VGA**, then press **OK**.
- **7** Adjust the display properties on the computer, if necessary.



Using HDMI (best)



To connect a computer using HDMI:

- 1 Make sure that your TV's power adapter is unplugged and the computer is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side or back of your TV and to the **HDMI OUT** jack on the computer.
- 3 Plug your TV's power adapter into a power outlet, then turn on your TV and the computer.
- 4 Press **INPUT** to open the *INPUT SOURCE* list.
- 5 Press ▲ or ▼ to highlight HDMI 1, HDMI 2, or HDMI 3, then press OK.
- **6** Adjust the display properties on the computer, if necessary.

Notes

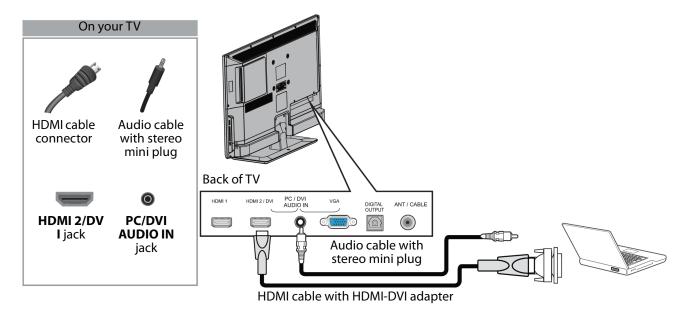
You can also press **HDMI** repeatedly to select the computer.



Using DVI (same as HDMI but requires an audio connection)

Note

You must use the **HDMI 2/DVI** jack to connect a computer using DVI. If you use another HDMI jack, you will not hear sound from the TV speakers.



To connect a computer using DVI:

- 1 Make sure that your TV's power adapter is unplugged and the computer is turned off.
- 2 Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect the adapter to the **DVI OUT** jack on the computer.
- 3 Connect the other end of the cable to the **HDMI 2/DVI** jack on the back of your TV.
- 4 Connect an audio cable with a stereo mini plug (not provided) to the **PC/DVI AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** (headphone) jack on the computer.

Note

When you connect the audio using the **PC/DVI AUDIO IN** jack, the audio output is analog.

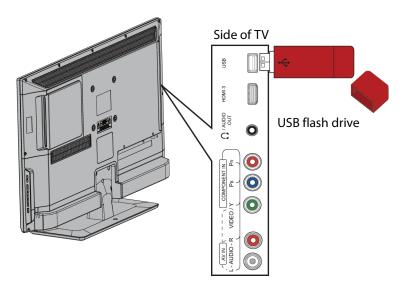
- 5 Plug your TV's power adapter into a power outlet, then turn on your TV and the computer.
- 6 Press INPUT to open the INPUT SOURCE list.
- 7 Press ▲ or ▼ to select **HDMI 2**, then press **OK**.
- **8** Adjust the display properties on the computer, if necessary.

Note

You can also press **HDMI** repeatedly to select the computer.



Connecting a USB flash drive



To connect a USB flash drive:

1 Plug a USB flash drive into the **USB** port on the side of your TV.

Caution

Do not remove the USB flash drive or turn off the TV while using the USB flash drive. You may lose data or damage the USB flash drive.

2 If your TV is turned on when you connect the USB flash drive, press ▲ or ▼ to select **Yes** in the message that appears. The *PHOTOS* menu opens.

OR

If you switch to a different video input source after you plug in the USB flash drive and want to switch back to the drive, press INPUT to open the INPUT SOURCE list, press ▲ or ▼ to select USB (Photos), then press OK. The PHOTOS menu opens.

Note

The **Photos** viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV. For more information, see "Using a USB flash drive" on page 61.

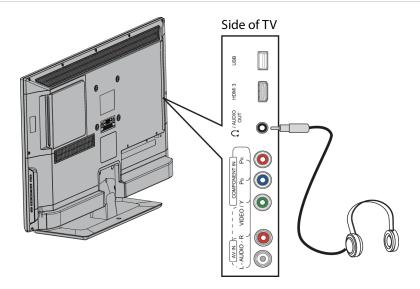


Connecting headphones

When you connect headphones, the TV speakers are muted.

Warning

Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.



To connect headphones:

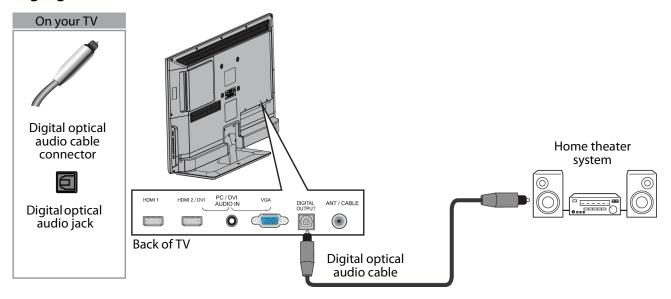
- 1 Connect the headphones to the \(\cappa/\text{AUDIO OUT}\) jack on the side of your TV.
- 2 In the screen that open, press ◀ or ▶ to highlight **Headphones**, then press **OK**. For more information, see "Selecting the audio out mode" on page 46.

- If you connect headphones when your TV is turned off, then you turn on your TV, the TV speakers are muted and the audio plays through the headphones.
- You can also connect an amplifier, home theater system, or sound bar to the ()/AUDIO OUT jack. If you want to connect an amplifier, home theater system, or sound bar, you need to disconnect the headphones.



Connecting a basic home theater system

Using digital audio



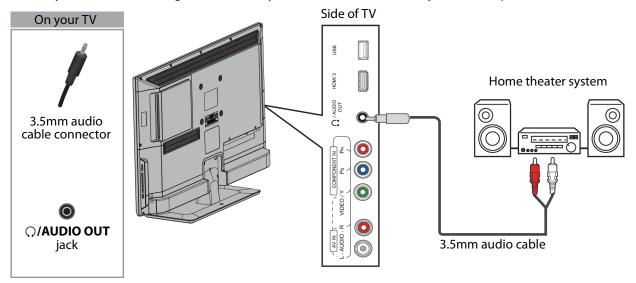
To connect a basic home theater system using digital audio:

- 1 Make sure that your TV's power adapter is unplugged and the home theater system is turned off.
- 2 Connect a digital optical audio cable (not provided) to the **DIGITAL OUTPUT** jack on the back of your TV and to the optical **AUDIO IN** jack on the digital home theater system.
- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- **4** Turn on the home theater system or sound bar, then set it to the correct source. For more information, see the documentation that came with the home theater system or sound bar.
- **5** On your TV, set the **Digital Audio/SPDIF** option on the *AUDIO* menu to **PCM**. For more information, see "Adjusting sound settings" on page 45.



Using analog audio

When you connect an analog home theater system to the \bigcirc /AUDIO OUT jack, the TV speakers are muted.



To connect a home theater system using analog audio:

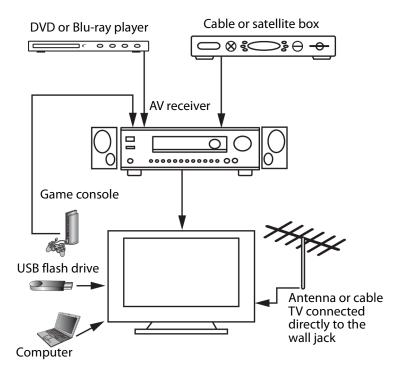
- 1 Make sure that your TV's power adapter is unplugged and the home theater system is turned off.
- 2 Connect a 3.5mm audio cable (not provided) to the \(\cap /\text{AUDIO OUT}\) jack on the side of your TV and to the AUDIO IN jacks on the analog home theater system.
- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- **4** Turn on the home theater system or sound bar, then set it to the correct source. For more information, see the documentation that came with the home theater system or sound bar.

Note

- For information about selecting the audio out mode for a home theater, see the **Headphone/Audio Out** option in "Adjusting sound settings" on page 45.
- You can connect headphones, an amplifier, a home theater system, or a sound bar to the \(\cap\/\text{AUDIO OUT}\) jack. If you want to use headphones, you need to disconnect the amplifier, home theater system, or sound har



Connecting a home theater system with multiple devices

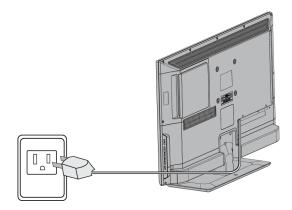


The connections you make depend on the video and audio jacks available on your devices. Refer to the documentation that came with your devices for connection information.

Just remember to use the best connection types available for the best picture and sound. For information about connection types, see "What connection should I use?" on page 11.



Connecting power



To connect the power:

• Plug the AC power adapter into the a power outlet.

Caution

- Your TV should only be operated from the power source indicated on the label.
- Always unplug the AC power adapter from the power outlet when you will not be using your TV for an extended period of time.
- The power adapter is permanently attached to your TV. Do not try to unplug it from the back of your TV.

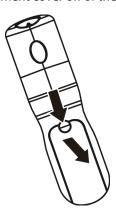


Using the remote control

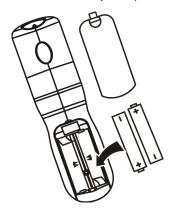
Installing remote control batteries

To install remote control batteries:

1 While pressing the release latch on the back of the remote control, lift the battery compartment cover off of the remote control.



2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and – symbols on the batteries with the + and – symbols in the battery compartment.



3 Replace the battery compartment cover.

Caution

- Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- Make sure that batteries are disposed of correctly. Do not burn or incinerate.

Note:

- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

Aiming the remote control

To aim the remote control:

• Point the remote control towards the remote sensor on the front of your TV.



Turning on your TV for the first time

The first time you turn on your TV, the Setup Wizard opens. The Setup Wizard guides you through setting up basic settings including the menu language, time setting, picture mode, TV signal source, and the channel list.

To set up your TV:

- 1 Make sure that you have:
 - Installed the remote control batteries. (See page 34 for details.)
 - Connected an antenna, cable TV, or satellite TV. (See page 12 through 17 for details.)
 - Connected the power adapter. (See page 33 for details.)
- 2 Press () (power) to turn on your TV. The *Choose Your Menu Language* screen opens.



3 Press ▲ or ▼ to highlight the language you want, then press **OK**. The *Choose Your Time Setting* screen opens.



- 4 Press ▲ or ▼ to highlight Mode, then press ► to access the setting.
- 5 Press ▲ or ▼ to select Manual (to set the date and time manually) or Auto (to set the date and time automatically from a TV signal source based on the time zone you select), then press OK, TV-MENU, or ◄.

If you select **Auto**, the displayed time will be incorrect until your TV gets the correct time from a TV signal source.

- 6 Press ▲ or ▼ to highlight Time Zone, then press
 ▶ to access the setting.
- 7 Press ▲ or ▼ to select your time zone. You can select Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic, or Newfoundland, then press OK, TV-MENU, or ◄.
- 8 Press ▲ or ▼ to highlight **Daylight Saving**, then press ► to access the setting.
- 9 Press ▲ or ▼ to select On (if your viewing area observes Daylight Savings Time) or Off (if your viewing area does not observe Daylight Savings Time), then press OK, TV-MENU, or ◄.
- 10 If you selected Manual for Mode:
 - Press ▲ or ▼ to highlight Year, Month, or Day, then press ► to access the setting. Press ▲ or ▼ to adjust the setting, then press OK.
 - Press ▲ or ▼ to highlight Time, then press ► to access the setting. Press ◀ or ► to highlight the hour, minute, or AM/PM field, then press ▲ or ▼ to adjust the setting. When you are finished, press OK.
- **11** When you have finished setting the time, press **OK**. The *What is your viewing environment* screen opens.



12 Press ▲ or ▼ to highlight Home Use Mode or Store Display Mode, then press OK.

If you selected **Store Display Mode**, the message asks if you are sure you want this mode. Select **Yes** to continue using **Store Display Mode**, or select **No** to change your selection, then press **OK**. **Store Display Mode** is not an energy savings mode and will display a retail banner.

The Choose Your TV Source screen opens.





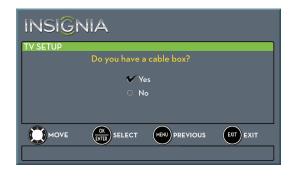
- 13 Press ▲ or ▼ to highlight Antenna, Cable, or Satellite Box, then press OK.
 - A If you select Antenna, your TV scans for available channels. The scan may take several minutes.



Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

B If you select **Cable**, a message asks if you have a cable box:



- Select No, then press OK if no cable box is connected. Your TV scans for available channels. The scan may take several minutes.
- Select Yes, then press OK if a cable box is connected. A message asks how you connected the cable box to your TV.



- Select HDMI, Component, or AV, then press OK if you connected a cable box to your TV using one of these cables. Read the message, then press OK to close the wizard.
- Select Coaxial, then press OK if you connected a cable box to your TV using a coaxial cable. Read the message, then press OK to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.



C If you select **Satellite Box**, a message asks how you connected the satellite box to your TV:



- Select HDMI, Component, or AV, then press OK if you connected a satellite box to your TV using one of these cables. Read the message, then press OK to close the wizard.
- Select Coaxial, then press OK if you connected a satellite box to your TV using a coaxial cable. Read the message, then press OK to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- 14 To watch TV, press INPUT, press ▲ or ▼ to highlight the video input source for your TV in the INPUT SOURCE list, then press OK.
 - If your TV is connected to an antenna, cable TV (no box), or cable or satellite TV box using a coaxial cable, select TV.
 - If your TV is connected to a cable or satellite box using an HDMI cable or HDMI cable with a DVI adapter, select HDMI 1, HDMI 2. or HDMI 3
 - If your TV is connected to a cable or satellite box using a component video cable, select Component/AV.
 - If your TV is connected to a cable or satellite box using a composite video cable, select Component/AV.

Understanding the basics

Turning your TV on or off

To turn your TV on or off:

- 1 Make sure that the power adapter is connected to a power outlet.
- 2 Press () (power) to turn on your TV. The power indicator turns off.
- 3 Press () (power) again to turn off your TV. Your TV enters standby mode, and the power indicator turns red.

Warning

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

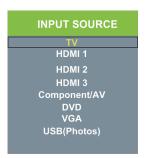
Note

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**. The *INPUT SOURCE* list opens.



2 Press ▲ or ▼ to select a video input source, then press OK.

You can also press a Quick Launch Input button to select the video input source.

- Press TV to select TV (if your TV is connected to an antenna, cable TV (no box), or cable or satellite TV using a coaxial cable).
- Press **DVD** to select the built-in DVD player.
- Press VIDEO to select component or composite input.
- Press HDMI one or more times to cycle between the HDMI inputs.



On-screen menu overview

Notes

- Depending on the signal source selected, you may see different options on your screen. The following menus are shown in TV mode (except the *Photos* menu).
- Menu items that are not selectable are grayed out.
- Menus in this manual are described in TV mode, unless otherwise indicated.
- The screens shown in this manual are for explanation purposes and may vary from the actual screens on your TV.

PICTURE menu (TV mode)



AUDIO menu (TV mode)



CHANNELS menu (TV mode)



SETTINGS menu (TV mode)



PHOTOS menu (USB mode)



Navigating the menus

Press TV-MENU to open the on-screen menu.



Press the right or left arrow to move the cursor on the screen or to adjust a selected item.



Press the up or down arrow to select menu options.



Press **OK** to confirm a selection or enter a sub-menu.



Press **TV-MENU** to return to the previous menu.

Press **EXIT** to close the menu.



Selecting a channel

To select a channel:

- Press the number buttons to enter the channel number you want, then wait for the channel to change or press OK to immediately change the channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press
 (sub-channel), then press the number button for the sub-channel. Wait for the channel to change, or press OK to immediately change the channel. For example, to tune to channel 5.1, press 5, (sub-channel), then 1.

Note

Button presses must be within three seconds of each other.

- Press C/RECALL to go to the last viewed channel.
- Press CH-LIST to open the channel list, press ▲ or
 ▼ to highlight a channel, then press OK. Hidden
 channels are grayed and cannot be selected. See
 "Hiding channels" on page 49.
- Press FAVORITE to open the favorite channel list, press ▲ or ▼ to highlight a channel, then press
 OK. For information about setting up a favorite channel list, see "Setting up a favorite channel list" on page 49.

Note

If a list has more than one page, press ▲ or ▼ to scroll through the pages.

Adjusting the volume

To adjust the volume:

- Press VOL+ or VOL- to increase or decrease the volume
- Press 록/MUTE to turn off the sound. Press
 록/MUTE again to turn the sound back on.

Viewing channel information

To view channel information:

- Press INFO* to view an information banner. The information banner shows the current program information such as channel number, video input source, and resolution.
 - Digital channel information—Displays the channel number, station name, channel label, broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, signal strength, day of the week, date, and current program start and end times, if provided by the broadcaster.
 - Analog channel information—Displays channel number, channel label (if present), signal type, audio information, day of the week, date, and resolution, if provided by the broadcaster.

Using the DVD player

Most DVDs and your DVD player have region codes that help control illegal distribution of DVDs. The region code for your DVD player is **1**. You can only play DVDs with a region code of **1** or **ALL**. The region code for a DVD is printed on the DVD or the DVD packaging. See "DVD player" on page 70 for a list of compatible disc formats.

Warning

Keep your fingers clear of the disc slot when loading or unloading a disc. Neglecting to do so may cause serious personal injury.

Playing a disc

Note

When you insert a disc into the slot, the DVD player automatically pulls the disc into the slot. You do not need to force the disc into the slot.

To play a disc:

- 1 Press ॳ (power) to turn on your TV.
- 2 Insert a disc into the disc slot with the label facing the back of your TV. The picture next to the disc slot shows how to insert a disc.

Playback begins automatically.

Notes

- If your TV is off when you insert a disc or you switch to another video mode, press **DVD** to switch back to the DVD player.
- If a disc is not in the disc slot when you switch to DVD mode, NO DISC appears on the screen.



Controlling disc playback

To control disc playback:

- Press VOL+ or VOL- to adjust the volume.
- Press ▶II (play/pause) to pause playback. Press again to resume playback.
- Press ⋈ (skip back) to go to the previous chapter or track. Press ⋈ (skip forward) to go to the next chapter or track.
- Press
 (fast reverse) to quickly move backward on a disc. Press
 (fast forward) to quickly move forward on a disc. Each time you press one of these buttons, the speed changes. The speeds are 2 ×, 4×, 8×, 16×, 32×. Press
 (play/pause) to resume normal playback.
- Press (stop) once to stop playback. If you press
 II (play/pause), playback resumes where the disc stopped. Press (stop) twice. When you press
 II (play/pause), playback begins at the beginning.

Adjusting DVD player settings

To adjust DVD player settings:

1 While in DVD mode and with playback stopped or no disc in the disc slot, press **SETUP**. The *General Setup Page menu* opens.



- 2 Press ▲ or ▼ to select a setting or press ◀ or ► to select another menu, then press **OK**.
- 3 When a setting is selected, press ◀ or ▶ to adjust the setting, then press **OK**.
- 4 Press ■ to return to the top of the settings list if you want to adjust more settings, or press SETUP to close the menu.

DVD on-screen menus

General Setup Page

• **TV Display**—Select the screen aspect ratio. The default setting is **Wide** (16:9). You cannot change this setting.



 OSD Lang—Selects the language for the on-screen menus. You can select English, French, or Spanish.



 Screen Saver—When this setting is turned on and the DVD player is stopped or paused for a three minutes, a screen saver appears. To close the screen saver, press any DVD control button. You can select On or Off.



 Last Memory—If you turn off your TV with a disc in the disc slot or eject a disc when Last Memory is turned on, then turn on your TV or insert the same disc, playback resumes where it stopped. You can select On or Off.





Audio Setup Page

Press **OK** or **▶** to access the **Speaker Setup** menu.



Downmix—You can select:

- LT/RT—Outputs the audio from a disc recorded with multi-channel audio to the left and right channels.
- **Stereo**—Outputs the audio from a disc recorded with multi-channel audio in stereo.



Dolby Digital Setup

 Dynamic—Sets the compression ratio to control the sound (volume) contrast. The sound contrast is the difference in volume between the loud and soft sounds on a disc's audio track.

Press ▲ or ▼ to select a compression ratio.



Preference Page

Note

This menu is only available when your TV is in DVD mode and playback is stopped or no disc is inserted.

TV Type—You can select:

 NTSC—Displays the TV type. This information is for display only. You cannot change this option.



Audio—Selects the audio language for the DVD, if the DVD was recorded in multiple languages.



Subtitle—Turns subtitles on or off and selects the DVD subtitle language, if the DVD was recorded with subtitles.





Disc Menu—Selects the language for the DVD menu if the DVD was recorded with multiple menu languages.



Parental—Sets the parental control rating level. When you select a level, DVDs recorded with a higher rating level cannot be viewed. You can select:

- KIDSAFE
- G
- PG
- PG 13
- PGR
- R
- NC 17
- ADULT

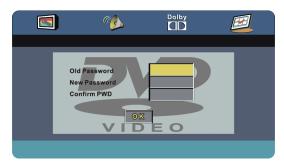


Password—Lets you set or change the parental control password. You must enter the password to set the parental rating level and to view DVDs with a locked rating level.



To change the password:

 Select Password, then press ➤ to highlight Change and press OK. The password screen opens.



- 2 Use the number buttons on the remote control to enter the old password in the **Old Password** box. The default password is (**0000**). If you forget your password, enter **9999**.
- 3 Press ▼ to move to the **New Password** box, then enter a new password.
- **4** Press **▼** to move to the **Confirm PWD** box, then enter the new password again.

Default—Resets all DVD settings, except the parental control setting and password, to the defaults.

Note

When you select Default, the Setup menu closes. To open the menu again, press **SETUP**.



Adjusting the picture

Adjusting the TV picture

You can adjust various settings to improve the quality of the TV picture. Also, you can reset all picture settings to the factory default.

To adjust the TV picture:

1 Press **TV-MENU**. The on-screen menu opens with the *PICTURE* menu displayed.



- 2 Press ▼ or **OK** to access the menu.
- 3 Press ▲ or ▼ to highlight an option, then press OK to access the option. You can select:
 - Picture Mode

 —Selects the picture mode. You can select:
 - Vivid—(a bright and vivid picture).
 Significantly increases the contrast, brightness, and sharpness. This selection is good for video games, animation, and in bright light environments.
 - Standard—(a standard picture).
 Moderately increases the contrast,
 brightness, and sharpness. This selection is good for standard TV broadcasts.
 - Energy Savings—(the backlight brightness is decreased). Your TV has a backlight that provides light for displaying a picture. By reducing the amount of light, your TV uses less energy.
 - Movie—(a finely detailed picture). Adjusts
 the brightness and contrast and lowers the
 sharpness for a more realistic picture. This
 selection is good for watching the highest
 quality video such as Blu-ray Discs, DVDs,
 and HDTV.
 - **Custom**—(customized picture). Lets you manually adjust picture settings such as brightness, contrast, and sharpness.

Note

You can also press **PICTURE** to select the picture mode.

- **Backlight**—Sets the overall brilliance of the screen
- Brightness—Adjusts the brightness of the dark areas of the picture.
- Contrast—Adjusts the brightness of the light areas of the picture.
- Color—Adjusts the color intensity of the picture. A low setting may make the color look faded. A high setting may make the color look artificial.

- Tint—Adjusts the color balance of the picture.
 Use this control to make skin tones look more
 patural
- **Sharpness**—Adjusts the color detail of images. If you set this control too high, dark images may appear with light or white edges.
- Advanced Video—Opens the PICTURE • ADVANCED VIDEO menu where you can adjust additional video options.



 Aspect Ratio—Adjusts how the picture fills the screen. You can select:

Aspect ratio options

Normal:

Displays the image in the original aspect ratio. Black bars appear if the image is not in the widescreen (16:9) aspect ratio.

700m:

Expands the image to fill the screen. The top and bottom of the image may be cropped.

Wide:

Use this option to view content recorded in a 16:9 (wide-screen) aspect ratio.

Cinema:

Stretches the image at the edges, but keeps a clear image in the center.

Auto:

Automatically adjusts the image based on the screen size and the TV program.

Note: Auto is only available when Auto Aspect Ratio in the CHANNELS menu is set to On.

Example











Note

You can also press **ZOOM** to select the aspect ratio.



- Overscan—Extends text and images past the screen edges to hide edge artifacts. You can select On or Off.
- Dynamic Backlight (DCR)—Enhances the contrast ratio between light and dark areas of the picture. You can select Off, Low, or High.
- Color Temperature—Selects the color temperature. You can select Cool (to enhance the blues), Normal, or Warm (to enhance the reds).
- Noise Reduction—Selects the noise reduction mode to reduce picture noise (snow). You can select Off, Low, Middle, or High.
- Adaptive Contrast
 —Automatically adjusts picture detail and brightness. You can select On or Off.
- **Reset Picture Settings**—Resets all picture settings to factory mode.
- Press

 or

 to adjust the option, or press

 or

 to select a setting.
- 5 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting the power on picture mode

You can set the picture mode your TV uses when you turn it on.

To set the power on picture mode:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight **Reset to Default**, then press **OK**. The SETTINGS · RESET TO DEFAULT menu opens.



- 4 Press ▲ or ▼ to highlight Power on in Vivid Mode, then press OK.
- 5 Press ▲ or ▼ to highlight On (when you turn on your TV, it will be in Vivid picture mode) or Off (when you turn on your TV, it will be in the picture mode it was in before you turned it off), then press OK.
- **6** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Adjusting the computer image

When you connect a computer to your TV using the VGA jack, you may need to adjust the computer image to improve the quality.

Note

The **Computer Settings** option is only available when a computer is connected to the VGA jack on the back of your TV.

To adjust the computer image:

- Make sure that your TV is in VGA mode. For more information, see "Selecting the video input source" on page 37.
- 2 Press **TV-MENU**. The on-screen menu opens.
- 3 Press ◀ or ▶ to highlight **SETTINGS**, then press **OK**. The *SETTINGS* menu opens.



4 Press ▲ or ▼ to highlight **Computer Settings**, then press **OK**. The *SETTINGS · COMPUTER SETTINGS* menu opens.



- 5 Press ▲ or ▼ to highlight an option, then press OK to access the option. You can select:
 - Auto Adjust
 —Automatically adjusts the image settings such as position and phase.
 - **H. Position**—Moves the image right or left.
 - V. Position—Moves the image up or down.
 - **Clock**—Minimizes vertical stripes in the screen image.
 - **Phase**—Adjusts the focus of stable images.
 - Reset Computer Settings—Resets all computer settings to factory mode.
- 6 Press ◀ or ▶ to adjust the option, or press ▲ or ▼ to select a setting.
- 7 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Adjusting the sound

Adjusting sound settings

You can adjust sound settings to improve the sound quality. You also can reset all sound settings to the factory default.

To adjust sound settings:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press

 or

 to highlight AUDIO, then press

 or

 OK. The AUDIO menu opens.



- 3 Press ▲ or ▼ to highlight an option, then press OK to access the option. You can select:
 - **Sound Mode**—Selects the sound mode. You can select:
 - Standard—Balances treble and bass. This setting is good for watching standard TV broadcasts.
 - Theater—Enhances treble and bass for a rich sound experience. This setting is good for watching DVDs, Blu-ray discs, and HDTV
 - Music—Preserves the original sound. This setting is good for listening to music.
 - News—Enhances vocals for TV audio. This setting is good for watching news broadcasts.
 - **Custom**—Lets you manually adjust sound settings.
 - **Balance**—Adjusts the balance between the left and right audio channels.
 - Bass—Adjusts the low sounds.
 - Treble—Adjusts the high sounds.
 - TV Speakers—Selects where to play TV audio. When you connect headphones to your TV, audio plays through the headphones. You can select On (default setting) to play audio through the TV speakers, or select Off to turn off the TV speakers and play audio through the headphones.
 - **Digital Audio/SPDIF**—Sends digital audio to an external audio system. You can select:
 - PCM (to output audio in 2-channel stereo).
 - RAW (to pass through the original digital audio sound).
 - Audio Delay—Fine tunes the audio when it is not in sync with the video.



- MTS/SAP—(Analog channels only) Selects the audio mode. You can select:
 - Mono—Select this option if there is noise or static on weak stereo broadcasts.
 - Stereo—Select this option for programs broadcast in stereo.
 - **SAP**—Select this option to listen to a secondary audio program, if available.

Note

You can also press MTS/SAP one or more times to select the audio mode.

- Audio Language—(Digital channels only)
 Selects an alternate audio language, if available.
- Headphone/Audio Out—You can use the ()/AUDIO OUT jack on the side of your TV to connect headphones, an amplifier, a home theater system, or a sound bar. When a device is connected to the ()/AUDIO OUT jack, the TV speakers are muted. This option selects where the audio is played. You can select:
 - **Headphones**—Select this option if you connected headphones.
 - Audio Out Fixed—Select this option to use the remote control that came with the amplifier, home theater system, or sound bar you connected to the ○/AUDIO OUT jack to control the audio.
 - Audio Out Variable—Select this option to use the remote control that came with your TV to control the audio from the amplifier, home theater system, or sound bar you connected to the ○/AUDIO OUT iack
- **Reset Audio Settings**—Reset all audio settings to factory defaults.
- 4 Press

 or

 to adjust the option, or press

 or

 v to select a setting.
- 5 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.

Selecting the audio out mode

If your TV is on when you connect a device into the ()/AUDIO OUT jack on the side of your TV, a screen opens where you select which audio out mode you want to use.

To select the audio out mode:

 Connect headphones, an amplifier, a home theater system, or a sound bar to the ○/AUDIO OUT jack on the side of your TV. The following screen opens.



- 2 Press ◀ or ▶ to highlight the audio out mode you want to use, then press **OK**. You can select:
 - **Headphones**—Select this option if you connected headphones.
 - Audio Out Fixed

 Select this option to use
 the remote control that came with the
 amplifier, home theater system, or sound bar
 you connected to the \(\cap /AUDIO OUT \) jack to
 control the audio.
 - Audio Out Variable—Select this option to use the remote control that came with your TV to control the audio from the amplifier, home theater system, or sound bar you connected to the ○/AUDIO OUT jack.



Playing TV audio only

You can turn off the picture on your TV and listen to the program audio only.

To play TV audio only:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **OK**. The *CHANNELS* menu opens.



- 3 Press ▲ or ▼ to highlight Audio Only, then press OK.
- 4 Press ▲ or ▼ to select On.
- 5 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Notes

- The picture turns off in about five seconds.
- Audio Only works only when the input source is TV, and your TV is receiving a broadcast signal.
- To exit audio only mode, press any button. When you exit audio only mode, the **Audio Only** option is automatically reset to **Off**.

Changing channel settings

Automatically scanning for channels

When you scan for channels, your TV searches for channels with signals and stores the channel information in the channel list. When you press CH ∧ or CH √, your TV goes to the next or previous channel in the channel list.

If the TV signal source changes, for example you change from an outdoor antenna to cable TV (no box), you need to scan for channels.

To automatically scan for channels:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **OK**. The *CHANNELS* menu opens.



3 Press ▲ or ▼ to highlight Auto Channel Search, then press OK. The CHANNELS · AUTO CHANNEL SEARCH screen opens.





- 4 Press ▲ or ▼ to highlight Antenna, Cable, or Satellite Box, then press OK.
 - A If you select Antenna, your TV scans for available channels. The scan may take several minutes.



Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

B If you select **Cable**, a message asks if you have a cable box:



- Select No, then press OK if no cable box is connected. Your TV scans for available channels. The scan may take several minutes.
- Select Yes, then press OK if a cable box is connected. A message asks how you connected the cable box to your TV:



- Select HDMI, Component, or AV, then press OK if you connected a cable box to your TV using one of these cables. Read the message, then press OK to close the wizard.
- Select Coaxial, then press OK if you connected a cable box to your TV using a coaxial cable. Read the message, then press OK to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

C If you select Satellite Box, a message asks how you connected the satellite box to your TV.



- Select HDMI, Component, or AV, then press OK if you connected a satellite box to your TV using one of these cables. Read the message, then press OK to close the wizard.
- Select Coaxial, then press OK if you connected a satellite box to your TV using a coaxial cable. Read the message, then press OK to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.



Hiding channels

You can hide channels in the channel list. When you press **CH** ∧ or **CH** ∨, your TV skips the hidden channels. You can still tune to a hidden channel by pressing the number buttons for the channel.

To hide channels:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight CHANNELS, then press ▼ or OK. The CHANNELS menu opens.



3 Press ▲ or ▼ to highlight Add/Skip Channels, then press OK. The CHANNELS · ADD/SKIP CHANNELS screen opens.



4 Press ▲ ▼ ◀ or ▶ to highlight the channel you want to hide, then press OK. The check mark disappears.

Notes

- If you highlight a channel in the list for two to four seconds, your TV displays the channel in the background.
- A channel with a check mark is not hidden. A channel with no check mark is hidden.
- If the list has more than one page, press ▲ or ▼ to scroll through the pages.
- 5 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Setting up a favorite channel list

You can create a favorite channel list so you can quickly browse through your favorite channels by pressing **FAVORITE**, then selecting a channel from the favorite channel list.

To set up a favorite channel list:

- 1 Press **TV-MENU**. The on-screen menu opens.



3 Press ▲ or ▼ to highlight Favorites, then press OK. The CHANNELS · FAVORITES screen opens.



4 Press ▲ ▼ ◀ or ▶ to highlight the channel you want to add to the favorites list, then press OK. A check mark appears next to the channel.

Notes

- If you highlight a channel in the list for two to four seconds, your TV displays the channel in the background.
- To remove a channel from the favorites list, highlight the channel, then press OK. The check mark disappears and the channel is removed from the list.
- If the list has more than one page, press ▲ or ▼ to scroll through the pages.
- 5 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.

Viewing a favorite channel

To view a favorite channel:

- 1 Press **FAVORITE**. The favorite channel list opens.
- 2 Press ▲ or ▼ to highlight a channel, then press OK.



Adding or changing a channel label

If a channel is not already labeled, you can label the channel to make it easier to identify. You can also relabel a channel that is already labeled.

To add or change a channel label:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **OK**. The *CHANNELS* menu opens.



3 Press ▲ or ▼ to highlight Channel Labels, then press OK. The CHANNELS · CHANNEL LABELS screen opens with the channel number field highlighted.



4 Press ▲ or ▼ to select the channel you want to label, then press ► to move to the channel label field.



- 5 Press ▲ or ▼ to select a character, then press ◀ or ► to move to the previous or next character position. Repeat this step to enter additional characters. You can enter as many as 11 characters.
- **6** When you have completed the label, press **OK**.
- **7** Press **EXIT** to close the menu.

Checking the digital signal strength

You can check the digital signal strength to determine if you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

To check the digital signal strength:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **CHANNELS**, then press ▼ or **OK**. The *CHANNELS* menu opens.



3 Press ▲ or ▼ to highlight Channel Strength, then press OK. The Channel Strength screen opens showing the signal strength meter.



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



Automatically adjusting the aspect ratio

Auto Aspect Ratio automatically changes how the picture looks on the screen (aspect ratio) based on the TV program you are viewing.

To automatically adjust the aspect ratio:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight CHANNELS, then press ▼ or OK. The CHANNELS menu opens.



- 3 Press ▲ or ▼ to highlight Auto Aspect Ratio, then press OK.
- 4 Press ▲ or ▼ to select On (automatically adjust the aspect ratio) or Off (does not automatically adjust the aspect ratio), then press OK.
- 5 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Setting parental controls

Setting or changing the password

Parental controls let you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program (with some exceptions, such as news and sports) and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter a password.

To set or change the password:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Parental Controls, then press OK. The Enter password screen opens.



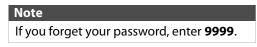
4 Press the number buttons to enter the four-digit password. The default password is **0000**. You should change the password to a number you can remember. The SETTINGS · PARENTAL CONTROLS menu opens.



5 Press ▲ or ▼ to highlight Change Password, then press OK. The SETTINGS · PARENTAL CONTROLS · CHANGE PASSWORD screen opens.



6 Press the number buttons to enter a password, then enter the password again. The SETTINGS · PARENTAL CONTROLS menu opens again.



7 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Locking control buttons

When the button lock is turned **On**, the buttons on the side of your TV are locked, and you can only operate your TV using the remote control.

To lock control buttons:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Parental Controls, then press OK. The Enter password screen opens.



4 Press the number buttons to enter the four-digit password. The *SETTINGS · PARENTAL CONTROLS* menu opens.



- 5 Press ▲ or ▼ to highlight Button Lock, then press OK.
- 6 Press ▲ or ▼ to select On (locks the buttons) or Off (unlocks the buttons).
- 7 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Blocking unrated TV

Some TV programs, such as news and sports shows are not rated. When **Block Unrated TV** is turned on, TV programs that do not have ratings are blocked. When you try to watch a blocked program, you are prompted to enter the parental controls password.

To block unrated TV:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Parental Controls, then press OK. The Enter password screen opens.



4 Press the number buttons to enter the four-digit password. The *SETTINGS · PARENTAL CONTROLS* menu opens.



- 5 Press ▲ or ▼ to highlight Block Unrated TV, then press OK.
- **6** Press **△** or **▼** to select **On** (to block unrated TV) or **Off** (to unblock unrated TV).
- **7** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Setting parental control levels

You can set parental controls for the U.S. and Canada.

U.S. rating levels

U.S. TV ratings	
NONE	Not rated
TV-Y	All children
TV-Y7	Suitable for children 7 and older
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parental guidance strongly suggested
TV-MA	Mature audiences only

Some of the age-based TV Parental Guidelines ratings also have content-based ratings.

U.S. TV content ratings	
All	All ratings are blocked
FV	Fantasy violence
L	Strong language
S	Sexual situations
V	Violence
D	Suggestive dialog

U.S. movie (MPAA) ratings	
None	Movie not rated
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only

Canadian rating levels

Canadian English ratings	
E	Exempt programming
C	Suitable for all children
C8+	Suitable for children 8 and older
G	General audiences
PG	Parental guidance suggested
14+	Suitable for children 14 and older
18+	Adult only

Canadian French ratings	
E	Exempt programming
G	General audiences
8ans+	Suitable for children 8 and older
13ans+	Suitable for children 13 and older
16ans+	Suitable for children 16 and older
18ans+	Adult only

To set parental control levels:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Parental Controls, then press OK. The Enter password screen opens.



4 Press the number buttons to enter the four-digit password. The *SETTINGS · PARENTAL CONTROLS* menu opens.





5 Press ▲ or ▼ to highlight USA Parental Locks, then press OK. (To set Canadian ratings, select Canadian Parental Locks.)

USA Parental Locks



Canadian Parental Locks



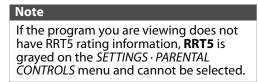
- **6** Press **◄** or **▶** to highlight:
 - Movie Ratings or TV Ratings for USA ratings.
 - Canadian English or Canadian French for Canadian ratings.
- 7 Press ▲ or ▼ to select the rating. If a rating has sub-ratings, press ◀ or ▶ to highlight a sub-rating.

Note When you block a rating, that rating and all higher ratings are blocked.

- **8** Press **OK** to confirm. A lock symbol appears when a rating is blocked.
- **9** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.

Downloading rating information

If the program you are viewing has downloadable rating information, you can download the information to use when setting parental controls.



To download rating information:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Parental Controls, then press OK. The Enter password screen opens.



4 Press the number buttons to enter the four-digit password. The *SETTINGS · PARENTAL CONTROLS* menu opens.





5 Press ▲ or ▼ to highlight RRT5, then press OK. The SETTINGS · PARENTAL CONTROLS · RRT5 screen opens. The screen that opens may vary depending on the broadcaster.



6 Press ▲ ▼ ◀ or ▶ to select the program and content types you want to block, then press OK. The SETTINGS · PARENTAL CONTROLS menu opens.



- 7 To reset the RRT5 information to the factory default, press ▲ or ▼ to highlight Reset RRT5, then press OK. A box opens.
- 8 Press ▲ or ▼ to highlight Yes or No, then press OK.
- 9 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Using closed captioning

Closed captioning displays a text version of the TV program audio or displays information provided by the broadcaster.

Turning closed captioning on or off

To turn closed captioning on or off:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Closed Caption, then press OK. The Settings · Closed Caption menu opens.



- 4 Press ▲ or ▼ to highlight Caption Control, then press OK. A menu opens.
- 5 Press ▲ or ▼ to select CC Off (turns off closed captioning), CC On (turns on closed captioning), or CC on When Mute (turns on closed captioning when the sound is muted).
- **6** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.





Selecting the analog closed captioning mode

Analog channels usually have one or more closed captioning modes. The CC1 mode usually displays a text version of the TV program audio in a small banner. The other CC modes display information provided by the broadcaster. The Text modes display information in a box that covers half of the screen.

To select the analog closed captioning mode:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Closed Caption, then press OK. The Settings · Closed Caption menu opens.



- 4 Press ▲ or ▼ to highlight Analog Caption, then press OK. A menu opens.
- 5 Press ▲ or ▼ to select an analog caption setting. You can select:
 - CC1 through CC4—Closed captioning appears in a small banner across the bottom of the screen. CC1 is usually the "printed" version of the audio. CC2 through CC4 display content provided by the broadcaster.
 - Text1 through Text4—Closed captioning covers half or all of the screen. Text1 through Text4 display content provided by the broadcaster.
- 6 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.

Selecting the digital closed captioning mode

Digital channels usually have one or more closed captioning modes. The CC1 mode usually displays a text version of the TV program audio in a small banner. The other CC modes display information provided by the broadcaster. CS1 mode displays a text version of the audio in the same language as the audio.

To select the digital closed captioning mode:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Closed Caption, then press OK. The SETTINGS · CLOSED CAPTION menu opens.



- **4** Press **△** or **▼** to highlight **Digital Caption**, then press **OK**. A menu opens.
- 5 Press ▲ or ▼ to select an analog caption setting. You can select:
 - CS1 through CS6—CS1 is usually the "printed" version of the audio. CS2 through CS6 display content provided by the broadcaster. You can change the way digital closed captioning is displayed on the screen. For more information, see "Customizing digital closed captioning settings" on page 57.
 - CC1 through CC4—Closed captioning appears in a small banner across the bottom of the screen. CC1 is usually the "printed" version of the audio. CC2 through CC4 display content provided by the broadcaster.



Customizing digital closed captioning settings

To customize digital closed captioning styles:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Closed Caption, then press OK. The SETTINGS · CLOSED CAPTION menu opens.



4 Make sure that **Digital Caption** is turned on. For more information, see "Selecting the digital closed captioning mode" on page 56. 5 Press ▲ or ▼ to highlight Digital CC Settings, then press OK. The SETTINGS · CLOSED CAPTION · DIGITAL CC SETTINGS menu opens with Style highlighted.



- **6** Press **OK**, then press **◄** or **▶** to select **Custom**.
- 7 Press ▲ or ▼ to highlight an option, then press OK. You can select:
 - **Size**—Selects the font size.
 - Font—Selects the font style.
 - **Text Color**—Selects the color for the words.
 - **Text Opacity**—Selects the opacity level for the words.
 - **Background Color**—Selects the color for the background.
 - **Background Opacity**—Selects the opacity level for the background.
 - Edge Effect—Selects the style of the window edge.
 - Edge Color—Selects the color of the window edge.
- 8 Press TV-MENU to return to the previous menu, or press EXIT to close the menu.



Adjusting time settings

When you set up your TV for the first time, the clock was set up. If you move your TV to a different time zone, you need to reset the clock to the correct time

Setting the clock

To set the clock:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight **Time**, then press **OK**. The *SETTINGS* · *TIME* menu opens.



4 Press ▲ or ▼ to highlight Date/Time, then press OK. The SETTINGS · TIME · DATE/TIME menu opens.



- 5 Press ▲ or ▼ to highlight Mode, then press OK. A menu opens.
- 6 Press ▲ or ▼ to highlight Manual (to set the options manually) or Auto (the options are automatically set by the TV signal source).
- 7 Press **OK** to close the menu.
- 8 Press ▲ or ▼ to highlight **Time Zone**, then press **OK**. The *TIME · TIME ZONE* menu opens.
- 9 Press ▲ or ▼ to select your time zone, then press OK. You can select Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic or Newfoundland.
- 10 Press OK to close the menu.
- 11 If your viewing area observes daylight savings time, press ▲ or ▼ to highlight Daylight Savings, then press OK.
- **12** Press **△** or **▼** to select **On** or **Off**, then press **OK** to close the menu.
- 13 If you selected Manual for Mode:
 - Press ▲ or ▼ to highlight Year, Month, or Day, then press ► to access the setting. Press ▲ or ▼ to adjust the setting, then press OK.
 - Press ▲ or ▼ to highlight Time, then press ► to access the setting. Press ◀ or ► to highlight the hour, minute, or AM/PM field, then press ▲ or ▼ to adjust the setting. When you are finished, press OK.
- **14** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Setting the sleep timer

You can specify the amount of time before your TV automatically turns off.

To set the sleep timer:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight **Time**, then press **OK**. The *SETTINGS* · *TIME* menu opens.



- **4** Press **△** or **▼** to highlight **Sleep Timer**, then press **OK**. A menu opens.
- 5 Press ▲ or ▼ to select the amount of time before your TV turns off automatically. You can select Off, 5, 10, 15, 30, 60, 90, 120, 180, or 240 minutes.

To turn off the sleep timer, select **Off**.

6 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Adjusting menu settings

Selecting the menu language

Your TV can display the on-screen menu in English, French, or Spanish. When you set your TV up for the first time, the language was selected. You can change the menu language to a different language.

To select the menu language:

- 1 Press **TV-MENU**. The on-screen menu opens.



- 3 Press ▲ or ▼ to highlight Menu Language, then press OK. A menu opens.
- 4 Press ▲ or ▼ to highlight a language, then press OK. You can select English, Français, or Español.
- 5 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Labeling an input source

You can add a label to an input source to make it easier to identify.

To label an input source:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



3 Press ▲ or ▼ to highlight Input Labels, then press OK. The SETTINGS · INPUT LABELS screen opens with the input source field highlighted.



4 Press ▲ or ▼ to select the input source you want to label, then press ► to move to the label field.



- **6** When you have completed the label, press **OK**.
- 7 Press TV-MENU to return to save your label and return to the previous menu. The next time you press INPUT, your label will appear in the INPUT SOURCE list.
- 8 Press **EXIT** to close the menu.

Turning Input Sensor on or off

When the Input Sensor feature is turned on, your TV automatically detects which video jacks have devices connected to them. Your TV uses this information to determine what options you can select on the INPUT SOURCE list when you press INPUT.

To turn Input Sensor on or off:

- 1 Press TV-MENU. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



- 3 Press ▲ or ▼ to highlight Auto Input Sensing, then press OK. A menu opens.
- **4** Press **△** or **▼** to select **On** (turns on the input sensor) or **Off** (turns off the input sensor).
- 5 Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Using a USB flash drive

You can connect a USB flash drive to your TV to view compatible JPEG pictures.

Notes

- Never remove the USB flash drive or turn off your TV while viewing JPEG pictures.
- The JPEG picture viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV.

Switching to USB mode

To switch to USB mode:

- 1 Make sure that you have connected the USB flash drive to the USB port on your TV.
- 2 If your TV is turned on when you connect the USB flash drive, press ▲ or ▼ to highlight Yes in the message that appears, then press OK. The PHOTOS menu opens.

OR

If you connected the USB flash drive, then changed to a different video input source, press **INPUT** to open the *INPUT SOURCE* list, press ▲ or ▼ to highlight **USB (Photos)**, then press **OK**. The *PHOTOS* menu opens.

Note

To exit USB mode, press **INPUT** to open the *INPUT SOURCE* list, then select another input source, or press a Quick Launch Input button.

Browsing photos

To browse photos:

1 Switch to USB mode. See "Switching to USB mode" on page 61. The PHOTOS menu opens.



2 Press ▲ or ▼ to highlight Browse Photos, then press OK. The screen displays folder names and photo files stored on the USB flash drive in a thumbnail index with the first photo or folder highlighted. A control bar appears at the bottom of the screen.

Note

Photos are shown in the order they appear on the USB flash drive. They may not be listed in file name order.



- **3** To navigate the thumbnail index screen, press:
 - ▲ ▼ ◀ or ▶ to browse through the files and folders.
 - **OK** to view a highlighted photo full-screen or open a highlighted folder.
 - TV-MENU to open the PHOTOS menu.
 - **FAVORITE** to add or remove a photo from the favorite photo list. A heart appears on a photo that has been added to the favorite photo list.
 - Press **EXIT** to close the control bar.

When a photo is displayed full-screen, a control bar appears at the bottom of the photo. The file name, picture resolution, size, and date are displayed on the bottom of the control bar. If you do not press a button within 10 seconds, the control bar closes. Press any button to open the control bar again.



- **4** To navigate on the photo screen, press:
 - ◀ to go to the previous photo.
 - ▶ to go to the next photo.
 - **OK** to rotate the photo clockwise.
 - ZOOM one or more times to enlarge the image by 2×, or 4× or to select Fill (to fill the screen). You can press ▲ ▼ ◀ or ▶ to pan the photo.
 - EXIT to return to the thumbnail index.
 - TV-MENU to return to the PHOTOS menu.



Viewing favorite photos

After you created your favorite photo list, you can browse among your favorite photos quickly.

To view favorite photos:

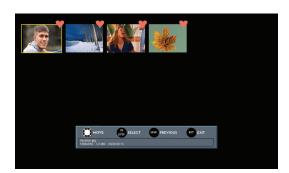
1 Switch to USB mode. See "Switching to USB mode" on page 61. The PHOTOS menu opens.



2 Press ▲ or ▼ to highlight Favorite Photos, then press OK. A thumbnail index of your favorite photos opens with a control bar at the bottom of the screen. A heart appears on a favorite photo.

Note

Photos are shown in the order they appear on the USB flash drive. They may not be listed in file name order.



You select photos and navigate on the photo screen in the same way you do when you are browsing through photos. For more information, see "Browsing photos" on page 61.

Viewing photos in a slideshow

You can view your photos in a slideshow.

To view photos in a slideshow:

- 1 Switch to USB mode. See "Switching to USB mode" on page 61. The PHOTOS menu opens.
- 2 If the photos you want to view are in a folder on the USB flash drive, select the folder. For information about selecting a folder, see "Browsing photos" on page 61 or "Viewing favorite photos" on page 62.
- **3** Press **TV-MENU**. The *PHOTOS* menu opens again.



- **4** Press ▲ or ▼ to highlight **View Slideshow**, then press **OK**. A slideshow starts with the first photo in the current folder.
- **5** To control the slideshow, press:
 - **OK** to pause or start the slideshow.
 - **EXIT** to exit the slideshow and return to the thumbnail index.
 - TV-MENU to go to the PHOTOS menu.



Customizing slideshow settings

You can customize the slideshow settings, including Repeat, Shuffle, Speed, and Transition.

To customize slideshow settings:

1 Switch to USB mode. See "Switching to USB mode" on page 61. The PHOTOS menu opens.



2 Press ▲ or ▼ to highlight **Settings**, then press **OK**. The *Photos · Settings* menu opens.



- 3 Press ▲ or ▼ to highlight an option, then press OK. You can select:
 - Repeat—Repeats the slideshow when it reaches the end. You can select On or Off.
 - **Shuffle**—Displays the slideshow photos in random order. You can select **On** or **Off**.
 - Speed—Sets the amount of time a photo is displayed before the slideshow moves to the next photo. You can select 4 Sec, 6 Sec, or 8 Sec.
 - Transition—Selects the way photos transition when moving to the next file in the slideshow. You can select:
 - None—No transition effect.
 - Fade to Black—Fades the screen to black between photos.
 - Vertical Wipe—Wipes the screen from left to right between photos.
 - **Horizontal Wipe**—Wipes the screen from top to bottom between photos.
 - Random—Randomly selects a transition effect.
- 4 Press **EXIT** to close the menu.

Maintaining

- Do not use your TV in areas that are too hot or too cold, because the cabinet may warp or the screen may malfunction. Your TV works best in temperatures that are comfortable to you.
- Storage temperatures are 32° to 122°F (0° to 50°C).
- Working temperatures are 41° to 104°F (5° to 40°C).
- Do not place your TV in direct sunlight or near a heat source.

Cleaning the TV cabinet

Clean the cabinet with a soft, lint-free cloth. If the cabinet is especially dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe the cabinet with the cloth. Use a clean cloth to dry the cabinet.

Cleaning the TV screen

Clean the screen with a soft, lint-free cloth.

Care and handling of discs

Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.





Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.





Troubleshooting

Warning

Do not try to repair your TV yourself. Contact authorized service personnel.

Restoring settings to the defaults

When you restore default settings, all the settings you have customized (including parental controls) are reset.

To restore settings to the defaults:

- 1 Press TV-MENU. The on-screen menu opens.



3 Press ▲ or ▼ to highlight Reset to Default, then press OK. The SETTINGS · RESET TO DEFAULT menu opens.



- 4 Press ▲ or ▼ to highlight Reset to Default, then press OK. A message asks if you want to reset all TV settings to the default settings.
- 5 Press

 or

 to select Yes (to reset) or No (to not reset), then press OK.
 - If you select **Yes**, your TV turns off, then turns on again. The TV SETUP wizard opens.
- **6** Go through the *TV SETUP* wizard. For more information, see "Turning on your TV for the first time" on page 35.

Viewing system information

You may need to view system information during troubleshooting.

To view system information:

- 1 Press **TV-MENU**. The on-screen menu opens.
- 2 Press ◀ or ▶ to highlight **SETTINGS**, then press ▼ or **OK**. The *SETTINGS* menu opens.



- 3 Press ▲ or ▼ to highlight System Info, then press OK. Information about the TV software version is displayed.
- **4** Press **TV-MENU** to return to the previous menu, or press **EXIT** to close the menu.



Video and audio

Problem	Solution
Picture does not fill the screen. There are black bars around the picture.	Change the aspect ratio. An increasing amount of digital TV and movies are presented in wide screen (16:9). See the "Aspect Ratio" option in "Adjusting the TV picture" on page 43.
No picture (screen is not lit) and no sound.	 Press () on the TV or the remote control. Make sure that the Audio Only option is set to Off. See "Playing TV audio only" on page 47. Make sure that the video cables are connected securely to your TV. Adjust the contrast and brightness. See "Adjusting the TV picture" on page 43. Make sure that the power adapter is plugged in. Make sure that the correct video input source is selected. See "Selecting the video input source" on page 37. Try another channel. The station may be experiencing problems. Make sure that the incoming signal is compatible. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. Check the closed caption settings. Some TEXT modes can block the screen.

Problem	Solution
Dark, poor, or no picture (screen is lit), but sound is good.	 Try another channel. The station may be experiencing problems. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. Adjust the brightness. See "Adjusting the TV picture" on page 43. Make sure that the correct picture mode is selected. See "Adjusting the TV picture" on page 43. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50. If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. Make sure that the video cables are connected securely to your TV. The video cable(s) you are using may be bad. Try a new set. Try another channel. The station may be experiencing problems.
No color, dark picture, or color is not correct.	 Try another channel. The station may be experiencing problems. Adjust the color settings. See "Adjusting the TV picture" on page 43. Make sure that the video cables are connected correctly and securely to your TV. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50. If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.



Problem	Solution
Only snow (noise) appears on the screen.	 Try another channel. The station may be experiencing problems. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50. If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
Picture quality is good on some channels and poor on others. Sound is good.	 The problem may be caused by a poor or weak signal from the broadcaster or cable TV provider. If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.

Problem	Solution
Dotted lines or stripes appear on the screen.	 Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50. If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. Make sure that the video cables are connected securely to your TV. The video cable(s) you are using may be bad. Try a new set. Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
Double images.	 Use a highly directional outdoor antenna, cable TV, or satellite TV.
The picture has a few bright or dark spots.	 A few bright or dark spots on an LCD screen is normal. It does not affect the operation of your TV.



Problem	Solution
Good picture, but no sound.	 Increase the volume. Make sure that the sound is not muted. Make sure that you do not have headphones connected. When headphones are connected, no sound comes from the TV speakers. Make sure that the correct audio mode is selected. Make sure that the audio cables are connected correctly and securely to your TV. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 12 or "Connecting an antenna or cable TV (no box)" on page 17. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50. The audio cable(s) you are using may be bad. Try a new set.
Poor picture.	 Make sure that the room is not too bright. Light reflecting off the screen can make the picture difficult to see. If an S-VHS camera or a camcorder is connected while another connected device is turned on, the picture may be poor. Turn off one or more devices.
Good sound, but poor color.	Adjust the contrast, color, and brightness settings. See "Adjusting the TV picture" on page 43.
Audio noise.	Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.

Problem	Solution
No output from one of the speakers.	 Adjust the audio balance. See "Adjusting sound settings" on page 45. Make sure that the audio cables are connected correctly and securely to your TV.
After images appear.	Do not display a still image, such as a logo, game, or computer image, for an extended period of time. This can cause a permanent after-image to be burned into the screen. This type of damage is not covered by your warranty.

Remote control

Remote Control		
Problem	Solution	
Remote control does not work.	 Make sure that the power adapter is correctly connected to your TV and a power outlet. Make sure that there are no obstructions between the remote control and the remote control sensor on the front of the TV. Point the remote control directly at the remote control sensor on your TV. For the location of the remote control sensor, see "Aiming the remote control" on page 34. The supplied batteries are wrapped tightly in clear plastic. Make sure that you have removed this plastic from the batteries. Make sure that the batteries are installed correctly. See "Installing remote control batteries" on page 34. Replace dead batteries with new batteries. See "Installing remote control batteries" on page 34. 	
Trouble programming your existing universal remote control.	See instructions and a table of common codes in "Programming universal remote controls" on page 71. Codes are subject to change. For up-to-date codes, go to www.insigniaproducts.com/remotecodes Replace dead batteries with new batteries. See "Installing remote control batteries" on page 34. Refer to the User Guide that accompanied your universal remote control and contact the manufacturer if problems persist.	



General

Problem	Solution
No power.	 Make sure that the power adapter is correctly connected to your TV and a power outlet. Unplug the power adapter, wait 60 seconds, then plug the cord back in and turn on your TV. Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
"No signal" error message is displayed.	 Press INPUT and make sure that you have selected the correct input for the device or service you are trying to use. If you are using a cable or satellite box, use the remote that came with that box to change channels. Make sure that you have the correct input selected to view channels from the cable or satellite box.
After Auto Channel Search, there are no channels.	 Reception can vary by channel depending on the broadcast power level of a given station. Contact your cable or satellite TV provider. Make sure that the antenna or cable/satellite TV is connected securely to your TV. Try replacing the cable between the antenna/cable or cable/satellite box and your TV.

Problem	Solution
One or more channels do not display.	 Make sure that the channels are not blocked. See "Setting parental control levels" on page 53. Make sure that the channels are not hidden. The channel may have been deleted from the channel list. You can tune to the channel by pressing the number buttons or you can add the channel back to the channel list. See "Hiding channels" on page 49. If you are using a cable or satellite box, use the remote that came with that box to change channels. Make sure that you have the correct input selected to view channels from the cable or satellite box. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 50.
Password is lost.	• Enter 9999 to access parental controls, then set a new password. See "Setting or changing the password" on page 51.
Some settings cannot be accessed.	 If a setting is grayed, the setting is not available in the current video input mode.
TV cabinet creaks.	When the TV is in use, the temperature rises naturally and may cause the cabinet to expand or contract which can cause a creaking noise. This is not a malfunction.
Control buttons do not work.	 Make sure that the Button Lock option is set to Off. See "Locking control buttons" on page 52. Unplug the power adapter, wait a few seconds, then plug the cord back in and turn on your TV.
TV keeps turning off.	Make sure that the sleep timer is not turned on. See "Setting the sleep timer" on page 59.
A retail banner is displayed.	You selected "Retail Mode" when you ran the TV setup wizard. Reset your TV to the factory defaults, then select Home Use Mode on the What is your viewing environment screen. See "Restoring settings to the defaults" on page 64.



Disc playback

Problem	Solution
Playback does not start.	 Make sure that a disc is inserted in the disc slot with the label facing the back of the TV. The disc may be dirty. Clean the disc. See "Cleaning discs" on page 63. The disc format may not be supported. For more information, see "DVD player" on page 70.
No picture.	 Press INPUT and make sure that DVD is selected. For more information, see "Selecting the video input source" on page 37.
No sound.	 Make sure that headphones are not connected to your TV. When headphones are connected the internal speakers are muted. If your TV is connected to a sound system, make sure that the volume on the sound system is turned up.
Picture is distorted during fast forwarding or reversing.	This is not a malfunction. When you resume normal playback the distortion should disappear.
Some playback features do not work.	 Depending on the disc, some playback features such as stopping, skipping, or repeat playback may not work.
The audio language or subtitle language cannot be changed.	Not all discs have multiple languages. Check the disc menu or disc packaging.
No subtitles.	Press SUBTITLE and make sure that subtitles are set to on.

Note

If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

Specifications

Specifications are subject to change without notice.

Dimensions and weight

Without stand	25.6 × 2.2 × 15.6 in. (65 × 5.5 × 39.7cm) 11.88 lbs. (5.4 kg)
With stand	25.6 × 6.3 × 17.5 in. (65 × 16 × 44.4 cm) 13.42 lbs. (6.1 kg)

Screen

Screen size measured diagonally	27.5 in.
Display type	LED
Panel 60 Hz vs.120 Hz	60Hz
Display resolution	720p
Panel resolution	1366 (H) × 768 (V)
Aspect ratio	16:9
Contrast ratio (typical)-panel	2000:1
Dynamic contrast ratio— list value	24,000:1
TV Brightness (minimum) cd/m2	240 nits
Comb filter	3d y/c digital
Response time	6.5 ms
Horizontal viewing angle	160°
Vertical viewing angle	160°

Display resolutions

Component video suggested	HDMI suggested resolutions	1080p, 1080i, 720p, 480p, 480i
resolutions 1080i, 720p, 480p, 480i	Component video suggested resolutions	1080i, 720p, 480p, 480i

Tuner

Analog	NTSC
Digital	ATSC, 8-VSB, Clear-QAM

Inputs

	1 (side)/2 (back)
HDMI	E-EDID compliant
	HDCP compliant
Component video	1 (side)
Composite video	1 (side)
	Shared with component Y
Shared audio (component and composite)	Yes
S-Video	No
PC/VGA	1 (back)
3.5mm PC audio input	1 (back)
	1 (back)
DVI	HDMI 2/DVI jack
	1 (side)
USB	Supports JPEG and firmware upgrade
Antenna/Cable	1 (back)



Outputs

Video	No
Analog audio/Headphone	1 (side)
Digital audio	1 (optical) (back)
WiFi	No
Ethernet	No

Audio

	Speakers	Number: 2
		Watts per channel: 6W

Power

	On: 45W
Power consumption	Standby: <1W
Power input	120 V, 60Hz

Miscellaneous

OSD languages	English, French, Spanish
INlink	No
Game Mode	No
ENERGY STAR qualified	Yes
Internet connectable	No
TV base screws	B4 type (18 mm length) (4 pcs.)
V-Chip (version 2.0)	Yes
Sleep timer	Yes
Channel labeling	Yes
VESA mount (mm) (horizontal × vertical)	100×100
VESA mount screws	M4

Note

The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.

DVD player

Tray vs. slot load	Slot load
Disc capacity	1
Progressive scan	Yes
Skip protection	No audio skipping during CD playback under typical usage conditions
Optical disc support	Supports: CD Digital Audio 12 cm, CD-R, CD-RW, DVD-Video 12 cm, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-R DL Dual Layer, DVD+R Dual Layer
	Does not support: CD Digital Audio 8 cm, DVD-Video 8 cm, DVD-RW Dual Layer, DVD+RW Dual Layer, Blu-ray, 3D
Audio decoder	Supports: CD Digital Audio, Dolby Digital
	Does not support: Simulated Surround (e.g. SRS), MP3, WMA, WMA Lossless
Digital audio output formats supported via HDMI output	No
Digital audio decode capability (HDMI Output)	No
Digital audio decode capability (digital coaxial output)	Supports: Dolby Digital to 2-channel downmix PCM
	Does not support: DTS to 2-channel downmix PCM
Video decoder	Supports: DVD Video
	Does not support: JPEG, WMV (Window Media Video) 9.1, VCD 1.1, VCD 2.0, SVCD, DivX, or XviD



Programming universal remote controls

You can operate your Insignia TV with a new or existing universal remote control.

To program a universal remote control:

- 1 See the table in "Common universal remote control codes" for common codes. If you have problems programming your remote or need a different remote control code, visit www.insigniaproducts.com/remotecodes for the latest remote control code information.
- 2 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

For additional help and information:

- Visit: http://www.insigniaproducts.com/remotecodes
- Call technical support for the universal remote control or cable/satellite company of the remote/set-top box you are trying to program.
- Call the Insignia Customer Care Center 1-877-467-4289.

Common universal remote control codes

The following is a list of the most common remote control codes. Codes for other remote controls are available online at:

http://www.insigniaproducts.com/remotecodes or check with your cable or satellite TV provider for the remote control code.

Insignia TV codes for universal remote controls (for all Insignia TVs manufactured after Jan. 1, 2007)

Universal remote control makes and models		
One for All	0054	
Phillips	0198, 0490	
RCA	135	
Sony	068, 069, 078, 096, 100, 164, 168, 229, 026	

Set-top box makes and models	
Cablevision	068, 069, 078, 096, 100, 164, 168, 229, 026
Charter	2002, 1204, 1423, 1517, 0171, 1963, 0463, 1463, 0842, 1326, 167, 415, 424, 450, 456, 461, 507, 523, 567, 577, 586
Comcast	10171, 11204, 11326, 11463, 11517, 11641, 11780, 11785, 11892, 11963, 12002
Сох	1326, 1463
DirectTV	10171, 11204, 11326, 11517, 11564, 11641, 11963, 12002
Dish Network	720
Time Warner	400, 450, 461, 456, 10463, 1463, 0463
TiVo	0091
Verizon	0198, 0490

Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.



Legal notices

FCC Statement

This device complies with Part 15 of the 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 measure

- 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

Warnina

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

Cables

Connections to this device must be made with shielded cables with metallic RF/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canadian Notice

CAN ICES-3 (B)/NMB-3(B)

Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

IC Statement

This device complies with Industry Canada licence—exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Dolby License Notice and Trademark Acknowledgement



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HDMI



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Energy Star



Your Insignia TV is ENERGY STAR® qualified in the "Energy Savings" mode. It meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of these government agencies, designed to promote energy efficient products and practices. Changes to certain features, settings, and functionalities of this TV (i.e. Picture, Sound) can increase or change the power consumption. Depending upon such changed settings, the power consumption may exceed the limits required for the ENERGY STAR qualification in the "Energy Śavings" mode.



One-year limited warranty - Insignia Televisions

Definitions:

Insignia Products ("Insignia") warrants to you, the original purchaser of this new Insignia-branded television ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy or Future Shop authorized dealer of Insignia brand products only that are packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy or Future Shop retail store location and your television Product has a screen size of less than 42 inches, please take your original receipt and the Product to any Best Buy or Future Shop store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy or Future Shop online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 42 inches or larger, in the United States call 1-888-BESTBUY, Canada call 1-866-BESTBUY for Future Shop call 1-800-663-2275. Call agents will diagnose and correct the issue over the phone or will have an Insignia-approved repair technician dispatched to your home.

Where is the warranty valid?

This warranty is valid only in the United States and Canada at Best Buy or Future Shop branded retail stores or websites to the original purchaser of the product in the county where the original purchase was made.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- · Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse, unintentional or intentional
- Abuse, unintentional or intentional
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- · Connection to an incorrect voltage or power supply

- "Outages, static or other problems with over -the-air reception of television broadcast signals.
- Attempted repair by any person not authorized by Insignia to service the Product
- · Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.
- Up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Problems with delay in motion or action of video images while playing first-person style video games.

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY FOR BREACH OF WARRANTY. INSIGNIA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS OR LOST PROFITS. INSIGNIA PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY HASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

Contact Insignia:

For customer service please call 1-877-467-4289

www.insigniaproducts.com

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