

**DYNE X** <sup>TM</sup> ●●●

22" LCD TV

**DX-LCD22-09**

**USER GUIDE**

# Dynex DX-LCD22-09

## 22" LCD TV

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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 to 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 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:

- 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 (such as UL, CSA, or ETL) 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.





**Warning:** To reduce the risk of electric shock, do not remove the cover or back. No user serviceable parts inside. Refer servicing to qualified service personnel.

**Warning:** To reduce the risk of fire or electric shock, do not expose your TV to rain or moisture.

**Warning:** To prevent electric shock, match the wide blade on the power cord plug to the wide slot on an electric outlet. If the plug does not fit, consult a licensed electrician to replace the obsolete outlet. Do not modify the power cord plug, or you will defeat this safety feature.



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.

**Warning:** Your TV contains a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at [www.eia.org](http://www.eia.org).

## Important safety instructions

### Read instructions

Read all of the safety and operating instructions before you use your TV.

### Retain instructions

Retain safety and operating instructions for future reference.

### Follow warnings and instructions

Follow all warnings on your TV and in the operating instructions. Follow all operating and use instructions.

### Water and moisture

Do not use your TV near water. For example, do not use it near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

### Cleaning

Unplug your TV before cleaning. Do not use liquid or aerosol cleaners. Use only a damp cloth to clean the exterior of your TV.

**Note:** If your TV requires uninterrupted service for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, ignore the instruction to unplug your TV before cleaning.

### Ventilation

Slots and openings in the cabinet and the back or bottom are provided for ventilation, reliable operation, and protection from overheating. These openings must not be blocked or covered. Do not block the openings by placing your TV on a bed, sofa, rug, or other similar surface. Do not place your TV near or over a radiator or heat register. Do not place your TV in a built-in installation, such as a bookcase or rack, unless you provide correct ventilation or follow the manufacturer's instructions.

### Heat

The unit emits heat when in operation. Do not place any covers or blankets on the unit, this may cause overheating. Do not block ventilation holes, or set up near radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. Do not place in direct sunshine. When placing on a shelf leave 10 cm (4 inches) free space around the entire unit.

### Grounding or polarization

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 grounding prong. The wide blade or grounding prong are provided for your safety. If the plug does not fit, contact an electrician to replace the obsolete outlet.

### Power cord protection

Route power cords so that they are not likely to be walked on or pinched by items placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from your TV.

### Attachments

Do not use attachments not recommended by Dynex because they may cause hazards.

### Stand

Do not place your TV on an unstable cart, stand, tripod, bracket, or table. Your TV may fall, causing serious personal injury and serious damage to your TV. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with your TV. If you mount your TV to the wall, follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer. Your TV and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause your TV and cart combination to overturn.



### Servicing

Do not attempt to service your TV yourself because opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### Overloading

Do not overload power outlets and extension cords because this can result in a risk of fire or electric shock.

### Object and liquid entry

Never push objects of any kind into your TV through openings because objects may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on your TV.

### Handling the LCD panel

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
- 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 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.

### Damage requiring service

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

- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.

- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

**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 TV, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

**Wall or ceiling mounting**

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

**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 your TV dealer or local power company.

**Lightning**

For added protection for your TV's 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 the antenna or cable system. This helps prevent damage to your TV from lightning and power line surges.

**Screen protection**

Your TV's screen is made of glass. Do not drop your TV or hit the glass screen. If the screen breaks, be careful of broken glass.

**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.

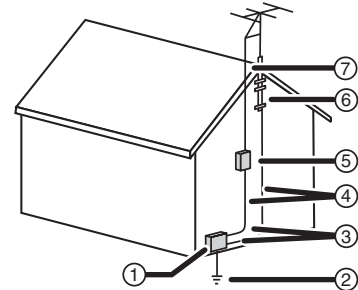
**Power lines**

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light of power circuits, or where it can fall into such power lines or circuits.

When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

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

**Note to CATV system installer**

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for correct grounding and in particular, specifies that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

**About after-image**

The extended use of fixed image program material can cause a permanent after-image on the screen. This background image is viewable on normal programs in the form of a stationary, fixed image. This type of irreversible screen deterioration can be limited by observing the following steps:

- Reduce the brightness/contrast settings to a minimum viewing level.
- Do not display a fixed image for extended periods of time.
- Turn the power off when not in actual use.

**Important information regarding the use of video games, computers, captions, or other fixed-image displays.**

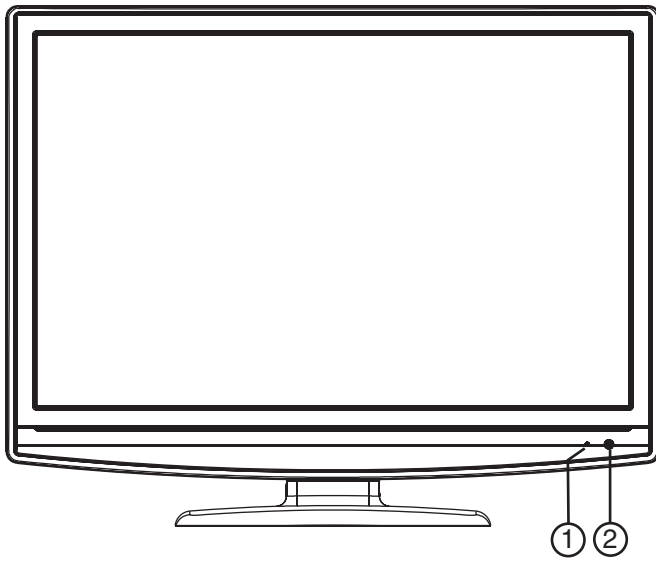
Do not allow a still picture to be displayed for an extended period of time, because this can cause a permanent after-image to remain on the screen. Examples of still pictures include logos, video games, computer images, teletext, and images displayed in 4:3 mode.

**Cautions:**

*The permanent after-image on the screen, resulting from fixed image use, is not an operating defect and, as such, is not covered by the warranty. This product is not designed to display fixed images for extended periods of time.*

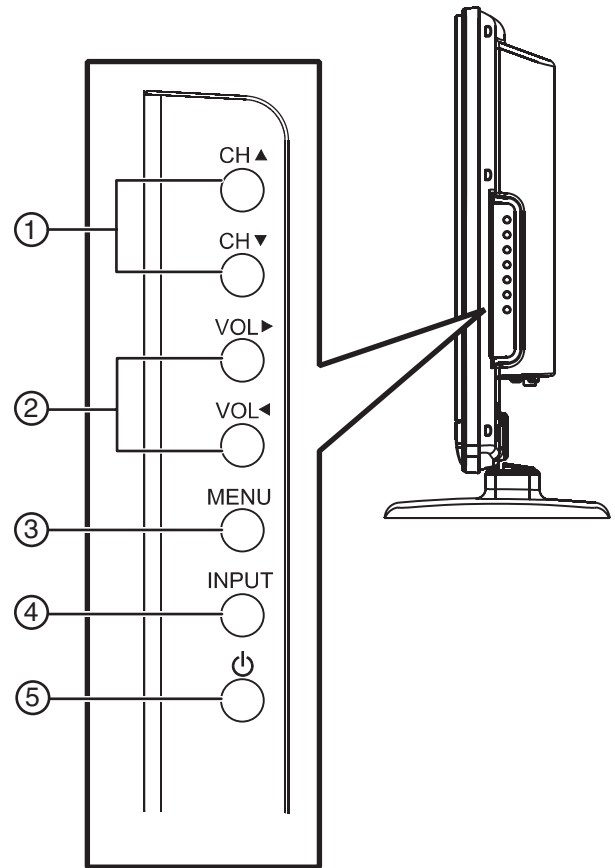
# TV components

## Front



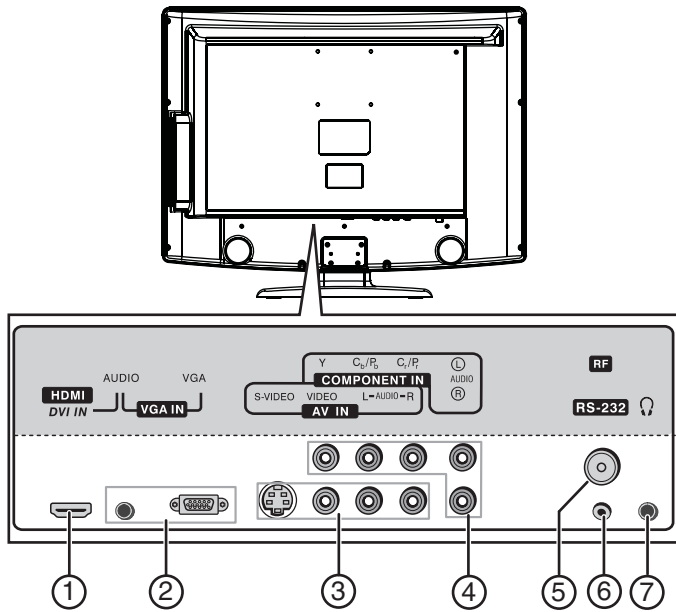
#	Component	Description
1	Power indicator LED	Lights green when your TV is turned on.
2	Remote control sensor	Receives signals from the remote control. Do not block.

## Left side



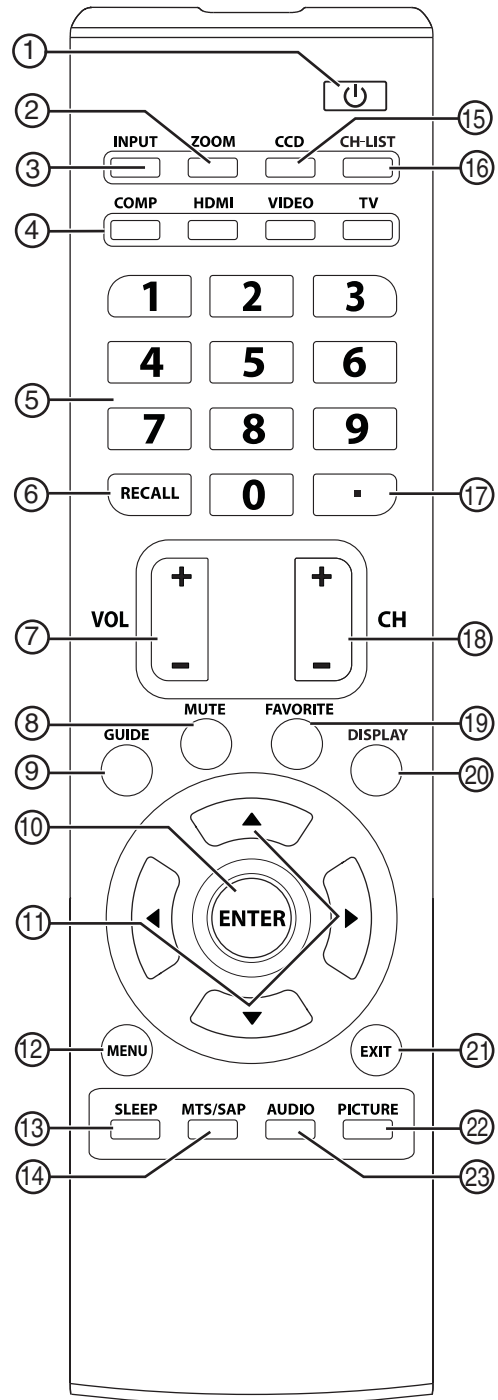
#	Component	Description
1	CH ▲ / ▼	Press to tune to the next higher or next lower channel in the channel list. For information about creating the channel list, see "Memorizing channels" on page 12. In menu mode, press to navigate up or down.
2	VOLUME ◀ / ►	Press to increase (▲) or decrease (▼) the volume. In menu mode, press to navigate left or right.
3	MENU	Press to open the on-screen menus.
4	INPUT	Press to select the video input source.
5	⏻ (POWER)/Standby	Press to turn your TV on. Press again to turn your TV to standby mode.

Back



#	Jack	Description
1	HDMI/DVI IN	Connect an HDMI or DVI device to this jack. To connect a DVI device, you need to connect an HDMI-DVI cable and connect an audio cable to the <b>VGA AUDIO IN</b> jack.
2	VGA/AUDIO IN	Connect a computer with a VGA cable to this jack. Connect the audio output from a computer or DVI source to the mini jack.
3	VIDEO (composite)/S-VIDEO/AUDIO IN	Connect the composite video output cable (Video), or the S-Video output cable and audio cables (L/R) from an external AV source to these jacks.
4	COMPONENT/AUDIO IN	Connect the component output cables (Y, Cb/Pb, Cr/Pr) and audio cables (L/R) from an external AV source to these jacks.
5	RF (ANT) IN	Connect a TV antenna or cable TV cable to this jack.
6	RS-232 IN	For service only. Do not use.
7	Headphone jack	Connect your headphones to this jack.

Remote control



#	Button	Description
1	⏻ (POWER)/Standby	Press to turn your TV on. Press again to turn your TV to standby.
2	ZOOM	Press to select the aspect ratio of your TV picture. Options include <b>Normal</b> , <b>Wide1</b> , <b>Wide2</b> , <b>Zoom</b> , and <b>Cinema</b> .
3	INPUT	Press to open the menu to select the input source.
4	COMP/HDMI/VIDEO/TV	Press to directly select the TV input source.
5	Numbers	Press to enter a channel number or input a password.

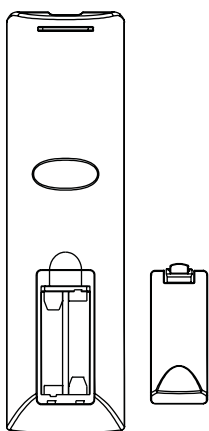
#	Button	Description
6	RECALL	Press to return to the last TV channel viewed.
7	VOL +/-	Press to increase (+) or decrease (-) the volume.
8	MUTE	Press to mute the sound. Press again to restore the sound.
9	GUIDE	Press to display information about a DTV program (if available).
10	ENTER	Press to confirm option settings in the on-screen menu.
11	▲ ▼ ◀ ▶	Press to navigate in the on-screen menu.
12	MENU	Press to open the on-screen menus.
13	SLEEP	Press to set the sleep timer.
14	MTS/SAP	Press to select <b>Stereo</b> , <b>SAP</b> , or <b>Mono</b> sound in analog TV mode. In DTV mode, press to select the audio track.
15	CCD	Press to turn closed captioning on or off.
16	CH-LIST	Press to display the channel list.
17	•	Press to enter a program number for multiple program channels. For example <b>2•1</b> or <b>2•2</b> .
18	CH +/-	Press to go to the next or previous channel in the TV channel list.
19	FAVORITE	Press to display your favorite channel list.
20	DISPLAY	Press to display the information banner.
21	EXIT	Press to exit the menu.
22	PICTURE	Press to select the picture mode.
23	AUDIO	Press to select the preset sound mode. Options include <b>News</b> , <b>Music</b> , <b>Movie</b> , and <b>Personal</b> .

## Setting up your TV

### Installing remote control batteries

#### To install remote control batteries:

- 1 Remove the battery compartment cover.



- 2 Insert two AAA batteries into the battery compartment. Make sure that the + and - symbols on the batteries match the + and - symbols in the battery compartment.
- 3 Replace the battery compartment cover.

#### Notes:

Make sure that you match the + and - symbols on the batteries with the symbols in the battery compartment.

Do not mix different types of batteries or old and new batteries.

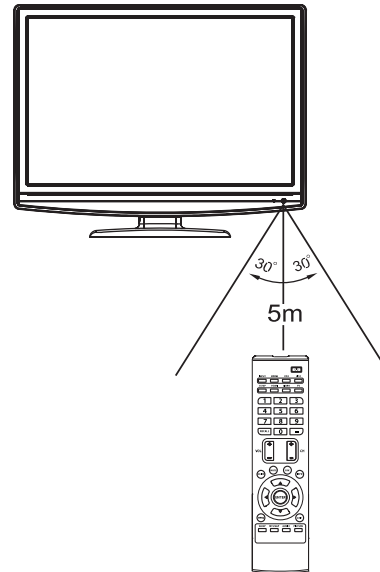
If you do not intend to use the remote control for an extended period of time, remove the batteries to prevent leakage.

Do not try to recharge non-rechargeable batteries. They may overheat and rupture.

### Using the remote control

#### To use the remote control:

- Point the remote control directly at your TV, within a 60° angle horizontally (30° to either side) and within 30° vertically of the remote control sensor on the front of your TV, and within 16 feet (about 5 m) of your TV.



#### Caution

Do not expose the remote control to liquids, direct sunlight, or shock. Do not mix batteries of different types.

#### Notes

Objects between the remote control and the remote control sensor may block the remote control signal.

The range of the remote control may be diminished if direct sunlight or other strong light is shining on the remote control sensor. In this case, change the angle of the lighting, move your TV, or operate the remote control closer to the remote control sensor.

### Connecting to AC power

#### Notes:

The AC power cord has a grounding-type AC line plug. If the supplied AC cord does not match your AC power outlet, contact a qualified electrician. Do not defeat the purpose of a grounded plug.

#### To connect to AC power:

- 1 Plug the AC cord into an AC power outlet.

#### Warnings:

Do not connect this TV to power using any device other than the supplied AC power cord. This could cause fire, electrical shock, or damage.

Do not use with a voltage other than the power voltage indicated on the marking label. This could cause fire, electrical shock, or damage.

Do not plug or unplug the plug when your hands are wet. This may cause electrical shock.

#### Cautions:

When this TV is not used for a long time, (such as away on a trip) in the interest of safety, be sure to unplug it from the AC power outlet.

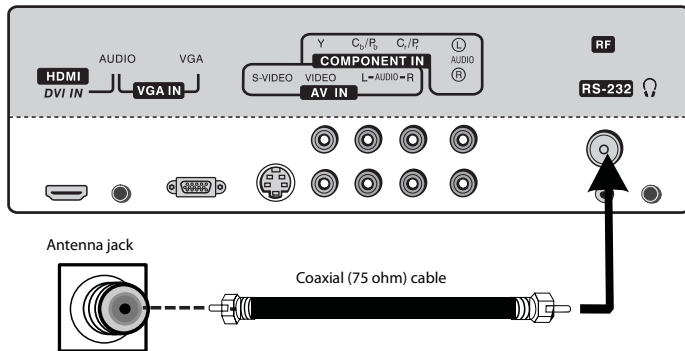
If you need to replace the supplied AC power cord, contact customer service.



## Connecting an antenna or basic cable

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

- Connect one end of a 75 ohm coaxial cable to the antenna or basic cable wall jack, then connect the other end of the cable to the **RF (ANT) IN** jack on the back of your TV.



**Notes:**

Always unplug the coaxial cable when you move your TV.  
 If you want to switch between antenna and cable, install an antenna selector.  
 If you need help connecting cable TV, contact your cable TV provider.

To connect a combination VHF/UHF antenna with separate VHF and UHF 300 ohm twin-lead wires:

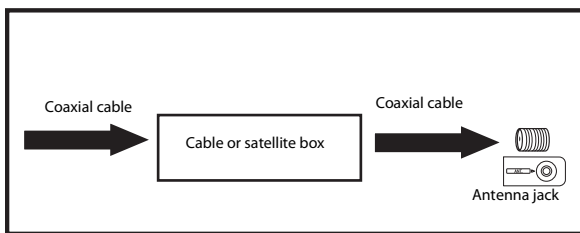
- Connect the UHF 300 ohm twin-lead wire to the combiner (not supplied). Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm matching transformer. Attach the transformer to the combiner, then attach the combiner to the **RF (ANT) IN** jack on the back of your TV.

## Connecting a cable or satellite box

**Note:** Installation methods may vary depending on the type of cable or satellite box. Contact your cable or satellite provider for more information.

To connect a cable or satellite box:

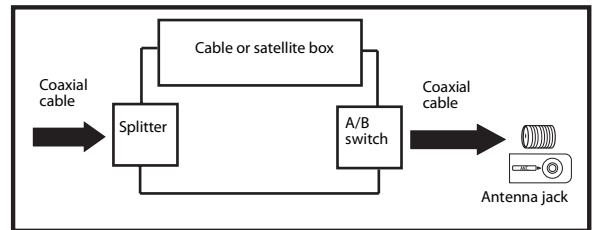
- 1 Connect a 75 ohm cable to the cable or satellite TV wall jack, then connect the other end to the **Antenna IN** jack on the cable or satellite TV box.



- 2 Connect a 75 ohm coaxial cable to the **RF OUT** jack on the cable or satellite TV box, then connect the other end to the **RF (ANT) IN** jack on the back of your TV.

## An alternate method

If you subscribe to a cable TV service in which basic channels are unscrambled and premium channels require the use of a converter/descrambler box, you may want to use a signal splitter and an A/B switch box (available from the cable TV company or an electronics supply store). Use the connections shown below. With the switch in the "B" position you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to tune scrambled channels.



## Making audio and video connections

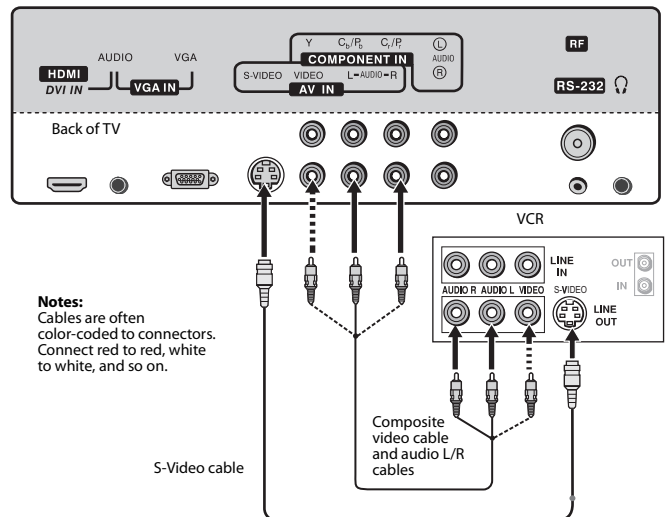
### Cautions before connecting your TV

- Carefully check the terminals for position and type before making any connections.
- The illustrations of external equipment may be different than the equipment that you own.
- Loose connections can result in image or color problems. Make sure that all connections are secure.
- Refer to the operating manuals of your external equipment.
- When connecting an external device, turn off the power to avoid any issues.

### Connecting a composite video device

To connect a composite video device:

- 1 Connect an AV cable or S-Video cable to the **VIDEO OUT** or **S-VIDEO OUT** jack on the external device (such as a VCR), then connect the other end of the cable to the **VIDEO IN** or **S-VIDEO IN** jack on the back of your TV.



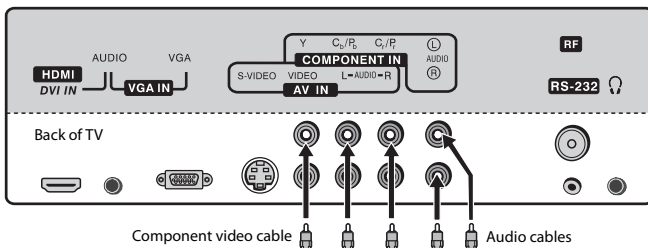
**Notes:**  
 Cables are often color-coded to connectors. Connect red to red, white to white, and so on.

- 2 Connect an RCA audio cable to the **AUDIO L** and **R** jacks on the video device, then connect the other end of the cable to the **AUDIO L** and **R IN** jacks on the back of your TV.
- 3 Press **INPUT**. The *Input Source* menu opens.
- 4 Select **AV** (or **S-Video** if using the **S-VIDEO IN** jack) to select the input source, then press **ENTER** to confirm. You can also select video input directly by pressing **Video**.

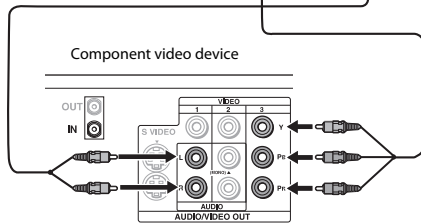
## Connecting a component video device

To connect a component video device:

- 1 Connect a component video cable to the **COMPONENT VIDEO OUT** (Y, Cb/Pb, and Cr/Pr) jacks on the component device, then connect the other end of the cable to the **COMPONENT IN** jacks on the back of your TV.



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



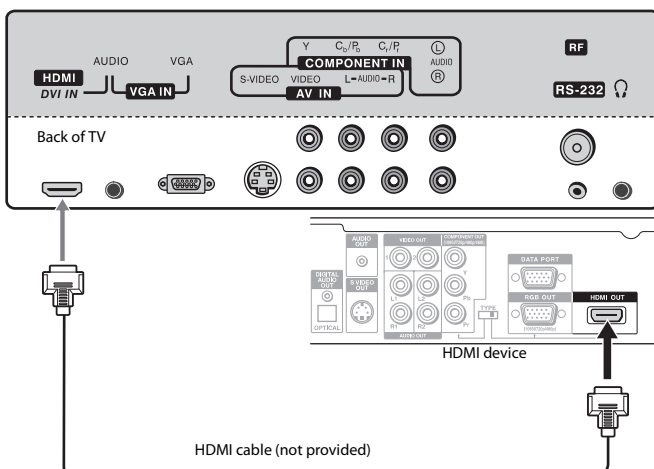
- 2 Connect an RCA audio cable to the **AUDIO L** and **R** jacks on the component video device, then connect the other end of the cable to the **AUDIO L** and **R** jacks on the back of your TV. Make sure that you connect the audio cable to the audio jacks associated with the component jacks you connected the component video cable to.
- 3 Press **INPUT**. The *Input Source* menu opens.
- 4 Select **Component**, then press **ENTER** to confirm. You can also select component input directly by pressing **COMP**.

## Connecting an HDMI or DVI device

To connect an HDMI or DVI device:

- 1 Connect one end of an HDMI cable to the **HDMI OUT** jack on the HDMI device, then connect the other end of the cable to the **HDMI IN** jack on the back of your TV.

When you connect to a DVI device with a HDMI-to-DVI adapter cable, it transfers only video signal. A separate analog audio cord is required.



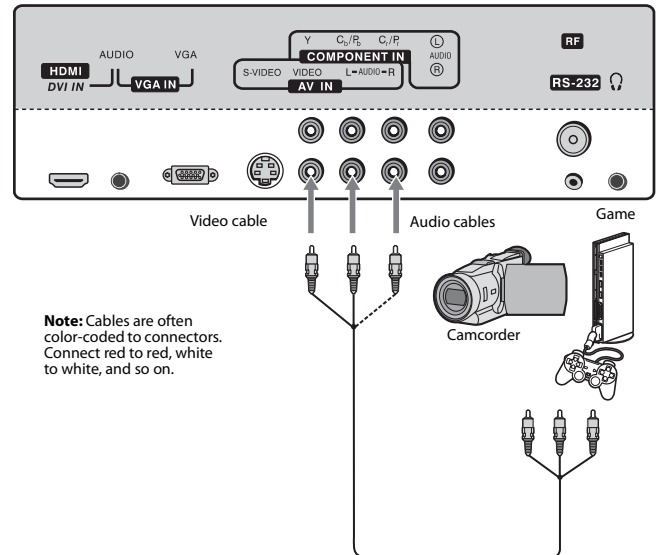
**Note:** If the external device only has DVI output, use a DVI-to-HDMI adapter cable to connect to the HDMI jack. If you use this configuration, you also need to connect an audio cable from the DVI device to the VGA AUDIO IN jack on the back of the TV.

- 2 Press **INPUT**. The *Input Source* menu opens. Select **HDMI**, then press **ENTER** to confirm. You can also select **HDMI** input directly by pressing **HDMI**.

## Connecting a camcorder, game, or VCR

To connect a camcorder, game, or VCR:

- 1 Connect one end of a video cable to the **VIDEO OUT** jack on the camcorder, game, or VCR, then connect the other end to the **VIDEO IN** jack on the back of your TV.



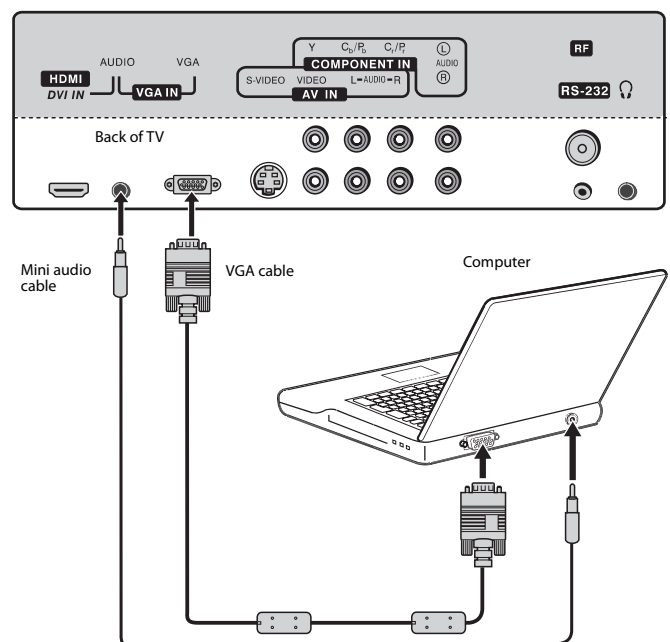
**Note:** Cables are often color-coded to connectors. Connect red to red, white to white, and so on.

- 2 Connect one end of an audio cable to the **AUDIO OUT** jacks on the camcorder, camera, or VCR, then the other end of the cable to **AUDIO L/R IN** jacks on the back of your TV.
- 3 Press **INPUT**. The *Input Source* menu opens.
- 4 Select **AV** to select the input source, then press **ENTER** to confirm. You can also select video input directly by pressing **Video**.

## Connecting a computer

To connect a computer:

- 1 Connect one end of a VGA cable to the **VGA** jack on the computer, then connect the other end of the cable to the **VGA IN** jack on the back of your TV.



- 2 Connect one end of a mini-plug audio cable to the **AUDIO LINE OUT** jack on the computer, then connect the other end of the cable to the **VGA AUDIO IN** jack on the back of your TV.
- 3 Press **INPUT**. The *Input Source* menu opens.
- 4 Select **VGA**, then press **ENTER** to confirm.

**Notes:**

The on-screen displays will have a different appearance in PC mode than in TV mode.

If there is no video signal from the computer when the unit is in PC mode, "No signal" will appear on the TV screen.

## Using your TV

**To use your TV:**

- 1 Plug in your TV (see "Connecting to AC power" on page 8).
- 2 Press **POWER**.  
**Warning:** When you press **POWER** to turn off your TV, your TV goes into Standby mode. It is still receiving electrical power. To completely disconnect power, unplug the power cord.  
**Note:** When your TV does not receive a signal and you do not press any buttons for several minutes, your TV goes into Standby mode.
- 3 Adjust the volume by pressing **VOL+** or **VOL-**. You can also press **MUTE** to switch off the sound. The TV's sound will be turned off and "Mute" will appear on the screen. The sound can be turned back on by pressing this button again.
- 4 Set the signal type to the appropriate position (see "To select the signal type:" on page 12).
- 5 Select a channel by pressing and releasing **CH +** or **-**. The channel automatically stops at the next channel set into memory. See "Memorizing channels" on page 12.

- OR -

Select a channel by pressing the number buttons (0-9, \*).

**To select analog channels:**

- 1-9: Press **1-9** as needed. For example, to select channel 2, press **2**.
- 10-99: Press the two digits, in order. For example, to select channel 12, press **1, 2**.
- 100-125: Press the three digits, in order. For example, to select channel 120, press **1, 2, 0**.

**To select digital channels:**

- Press the major channel number, then press the **\*** button, followed by the remaining number. For example, to select channel 15.1, press **1, 5, \*, 1**.

- OR -

Press **CH.LIST** (for a list of all memorized channels) or **FAVORITE** (for a list of your favorite channels), then press **▲** or **▼** to select the channel you want to watch and press **ENTER** to go to that channel. If either list has more than one page, you can scroll through the pages by pressing **◀** or **▶**.

- OR -

Press **RECALL** to go back to the last channel you were watching. Press **RECALL** again to return to the original channel.

- 6 Select the video input source by pressing **INPUT**, then press **▲** or **▼** to select the input, then press **ENTER**. You can select **TV**, **AV**, **S-Video**, **Component**, **HDMI**, or **VGA**, depending on which input jacks you used to connect your devices and which devices are connected.

You can also select the input source directly by pressing **TV**, **VIDEO**, **COMP**, or **HDMI**.

- 7 Press **DISPLAY** to display information about the program on the screen.
  - Digital information includes channel number, station name, channel label (if preset), broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, current program start, and end play times.
  - Analog information includes channel number, channel label (if preset), signal type, audio information (Stereo or SAP or Mono), and resolution.

**Note:**

The information contents may vary depending on the broadcaster and your setting.

Press **DISPLAY** again to clear the display, or wait a few seconds and the TV returns to normal operation automatically. You can also press **GUIDE** to show the program guide information.

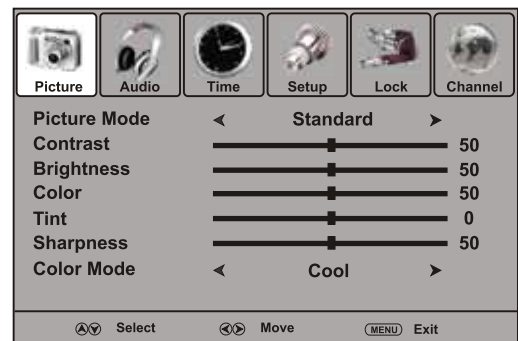
- 8 Press **SLEEP** on the remote control to set the TV to turn off after a specified interval. To cancel the sleep timer, press **SLEEP** repeatedly until the display turns to **Off**.

## Setting up for the first time

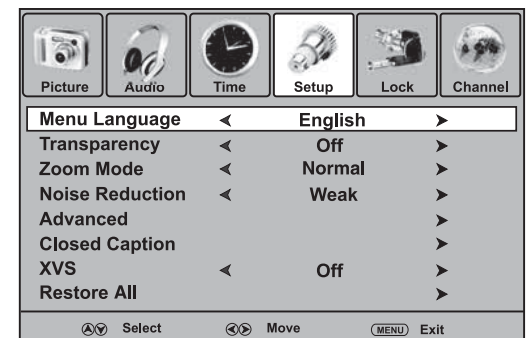
The first time you turn on your TV, you need to select a language for the on-screen menus and scan for available channels.

**Setting the on-screen language****To set the on-screen language:**

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Setup**, then press **▼**. The *Setup* menu opens.



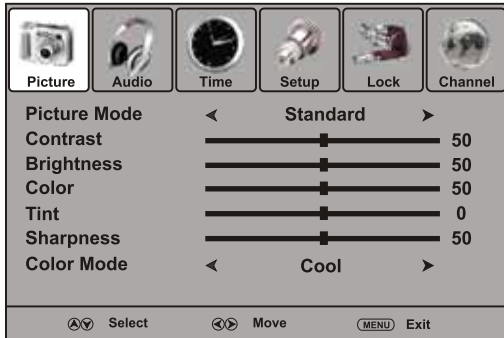
- 3 Press **▲** or **▼** to select **Menu Language**, then press **◀** or **▶** to select **English**, **Spanish (Español)**, or **French (Français)**.
- 4 Press **EXIT** to return to normal viewing.

## Memorizing channels

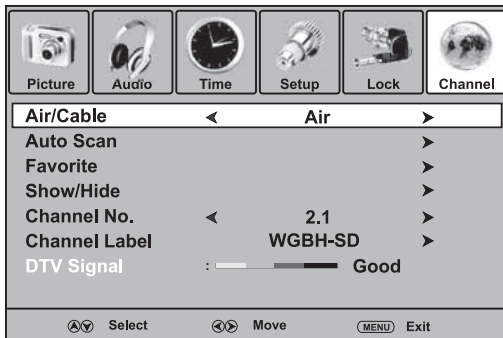
This TV is equipped with a channel memory feature which lets you skip channels up or down to the next channel in memory, skipping over unwanted channels. Before selecting channels in this manner, they must be programmed into the TV's memory. To use this TV with an antenna, set the **Air/Cable** option to the **Air** mode. When shipped from the factory, this menu option is in the **Cable** mode.

### To select the signal type:

- 1 Press **MENU**. The *Picture* menu opens.



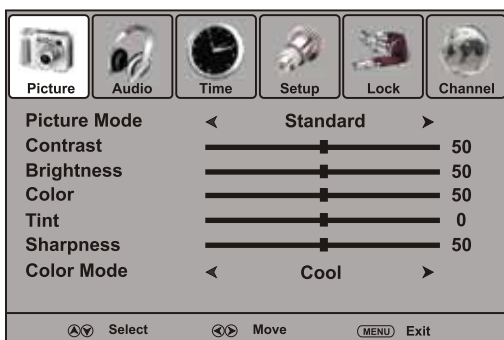
- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.



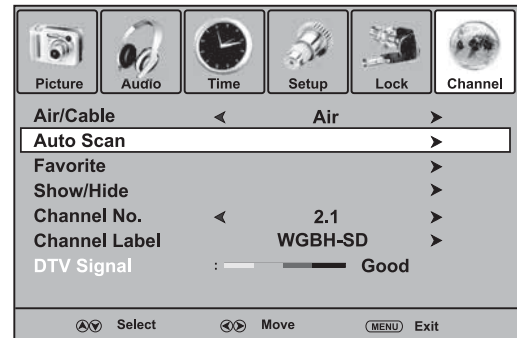
- 3 Press **▲** or **▼** to highlight **Air/Cable**, then press **◀** or **▶** to select **Air** (for VHF/UHF) or **Cable** (if using a cable TV provider).
- 4 Press **EXIT** to return to normal viewing.

### To automatically scan for and memorize channels (Air):

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.



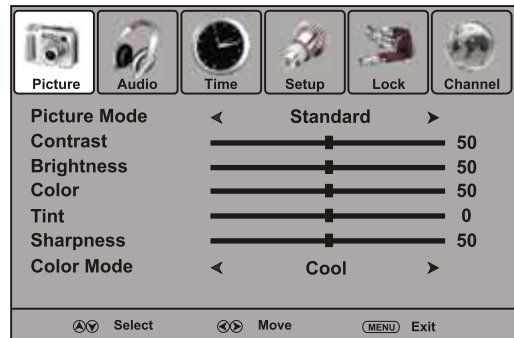
- 3 Press **▼** to highlight **Auto Scan**, then press **▶** or **ENTER**.
- 4 Press **▼** to highlight **Start to Scan**, then press **▶** or **ENTER** to begin the automatic channel search. The TV begins memorizing all TV/DTV channels available in your area.

## Checking DTV signal strength

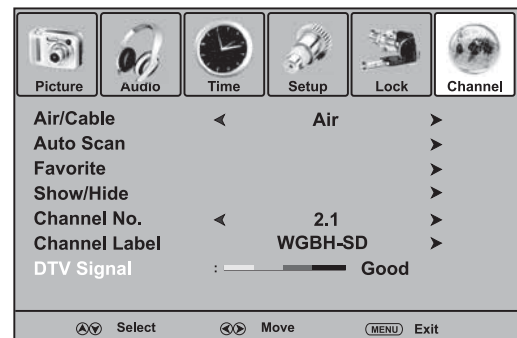
You can use the DTV signal strength bar to check how strong your DTV signal is and to determine whether you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

### To determine DTV signal strength:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.



The DTV signal bar is shown at the bottom of the menu, indicating the level and quality of the signal.

## Changing TV settings

### Understanding U.S. channel numbers

An ATSC PSIP (Advanced Television Systems Committee - Program and System Information Protocol) channel has a two-part channel number, which includes a *major channel number* and a *minor channel number*. For example, for channel 5.1, the major channel number is **5** and the minor channel number is **1**.

In the U.S., the major channel number is usually the same for both analog and digital channels (equal to the NTSC channel number for existing broadcasters). A minor channel number of zero (0) is used for a broadcaster's analog channel.

For example, if the original NTSC channels for an area are 5, 8, 11, and 13, the NTSC + ATSC channels for that area would probably be the following:

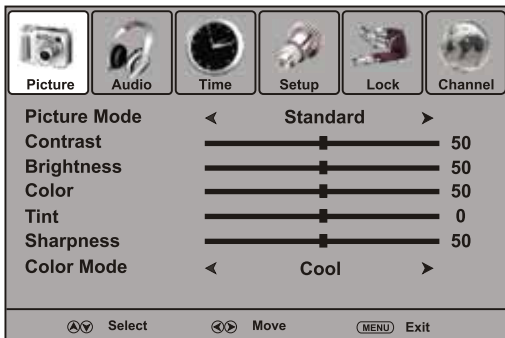
- Existing analog channels—5.0, 8.0, 11.0, and 13.0.
- Digital channels (possible)—5.1, 5.2, 8.1, 8.2, 8.3, 8.4, 13.1, 13.2, and so on.

### Adding channels

If you find a new channel you like, you can add it to the channel memory.

#### To automatically scan for and memorize channels (cable):

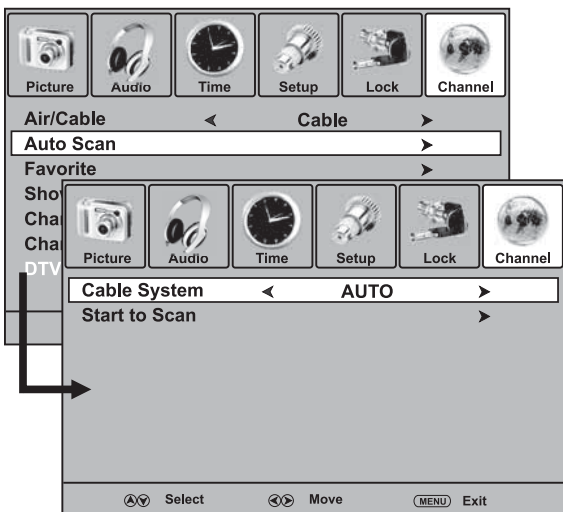
- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.



- 3 Press **▼** to highlight **Auto Scan**, then press **▶** or **ENTER**. The *Auto Scan* menu opens.



- 4 With **Cable System** highlighted, press **◀** or **▶** to select **Auto**.

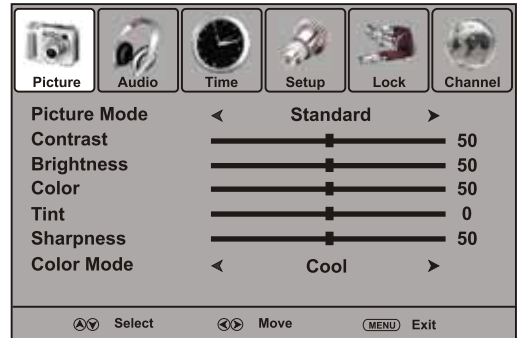
- 5 Press **▲** or **▼** to highlight **Start to Scan**, then press **▶** or **ENTER** to begin the automatic channel search. The TV begins memorizing all CATV/CADTV channels available in your area.

### Skipping unwanted channels

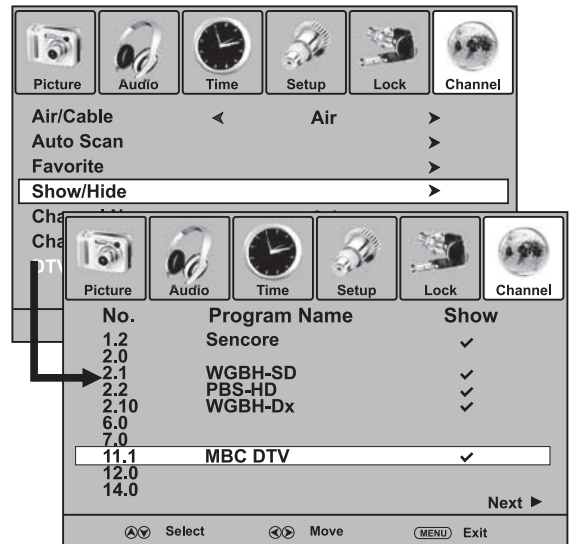
After memorizing channels, you can skip unwanted channels so that only the channels you want to watch are selected by pressing **CH +** or **CH -**.

#### To skip unwanted channels:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.



- 3 Press **▼** to highlight **Show/Hide**, then press **▶** or **ENTER**. The *Show/Hide* menu opens.
- 4 Press **▲** or **▼** to highlight a program, then press **ENTER** to show (with a check mark), or hide (no check mark) the selected program.  
If the program list has more than one page, you can press **◀** or **▶** to scroll through the pages.
- 5 Press **EXIT** to resume normal viewing.

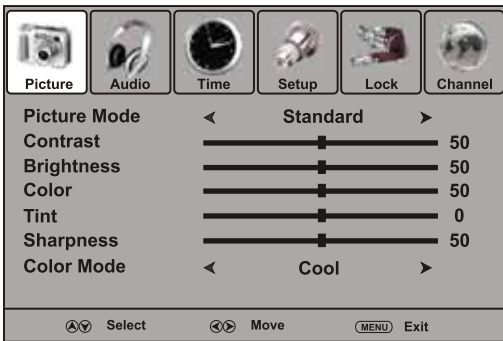
After exiting the menu, the channels you selected to hide are skipped when you change channels using **CH +** or **CH -**. You can access hidden channels directly by entering the channel number with the number buttons.



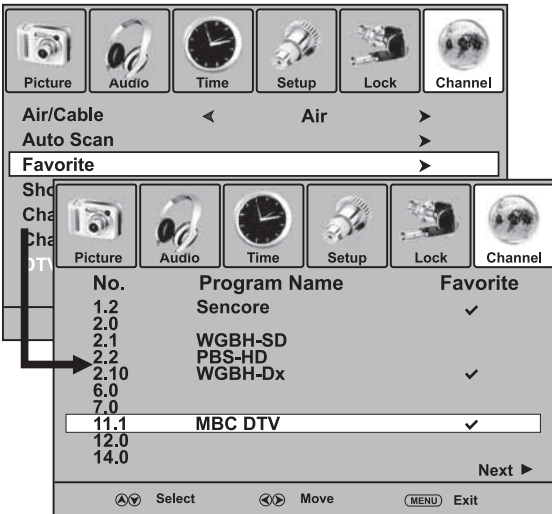
### Creating a favorite channels list

To create a favorite channels list:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.

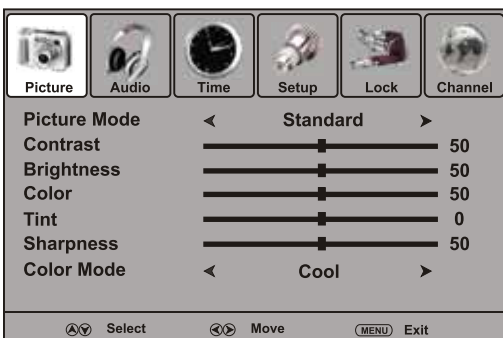


- 3 Press **▼** to highlight **Favorite**, then press **▶** or **ENTER**. The *Favorite* menu opens.
- 4 Press **▲** or **▼** to highlight a program, then press **ENTER** to mark it as a favorite (with a check mark). To remove it from the favorites list, press **ENTER** again.  
If the program list has more than one page, you can press **◀** or **▶** to scroll through the pages.
- 5 Press **EXIT** to resume normal viewing.  
When you have set up a favorites list, you can press **FAVORITE** to bring up the list, press **▲** or **▼** to browse through the list, then press **ENTER** to go to the channel you want.

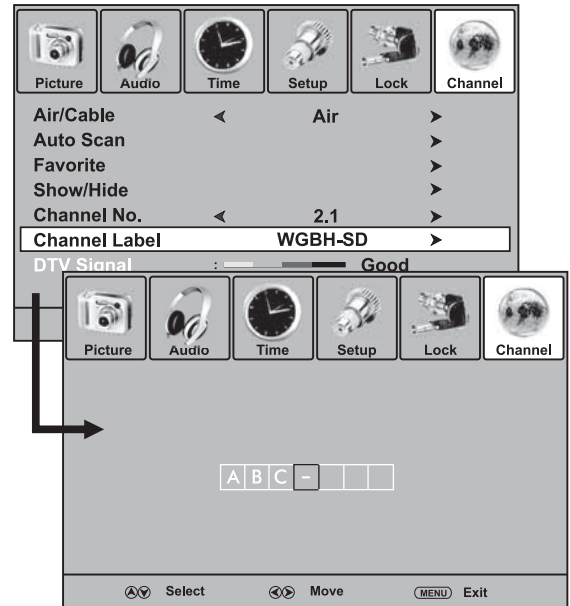
### Labeling the channels

To label channels:

- 1 Press **CH +** or **CH -** to navigate to a channel you want to label.
- 2 Press **MENU**. The *Picture* menu opens.



- 3 Press **◀** or **▶** to select **Channel**, then press **▼**. The *Channel* menu opens.

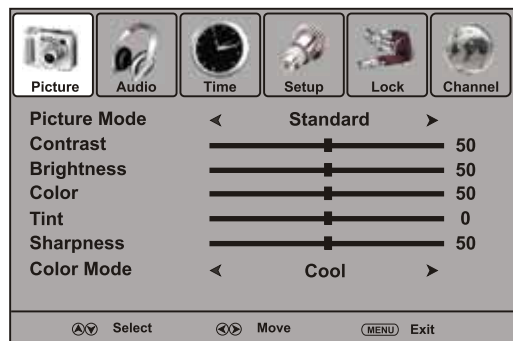


- 4 Press **▼** to highlight **Channel Label**, then press **▶** or **ENTER**. The Channel Label editing screen opens.
- 5 Press **▲** or **▼** to select a character, then press **◀** or **▶** to move the cursor to the next box.
- 6 Press **ENTER** to confirm your label, or press **MENU** to return to the *Channel* menu. The channel has been assigned the label.
- 7 Repeat Steps 1 through 8 to label additional channels.

### Adjusting the picture

To adjust the picture:

- 1 Press **MENU**. The *Picture* menu opens. Press **▼** to enter the *Picture* menu.



- 2 Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to adjust that option. Available options include:

Option	Description
<b>Picture Mode</b>	Lets you select a preset picture mode: <ul style="list-style-type: none"> <li>• <b>Standard</b>—A standard picture</li> <li>• <b>Dynamic</b>—A bright and vivid picture</li> <li>• <b>Soft</b>—A finely detailed picture</li> <li>• <b>Personal</b>—You make the settings</li> </ul> Note: You can also cycle through the picture modes by pressing <b>PICTURE</b> .
<b>Contrast</b>	Lets you adjust the image contrast.
<b>Brightness</b>	Lets you adjust the screen brightness.
<b>Color</b>	Lets you adjust the color saturation.

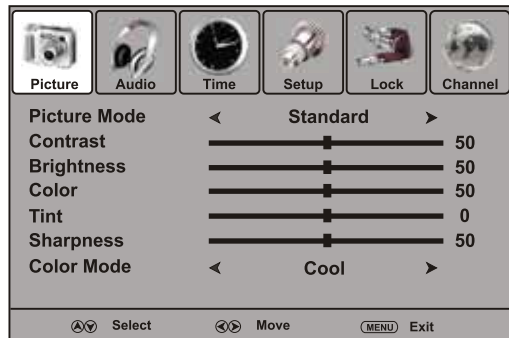
Option	Description
<b>Tint</b>	Lets you adjust the image tint.
<b>Sharpness</b>	Lets you adjust the image sharpness.
<b>Color Mode</b> (color temperature)	Lets you select a preset color mode: <ul style="list-style-type: none"> <li>• <b>Warm</b>—Enhances red tones</li> <li>• <b>Cool</b>—Enhances blue tones</li> <li>• <b>Normal</b>—The default setting</li> </ul>

- 3 Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

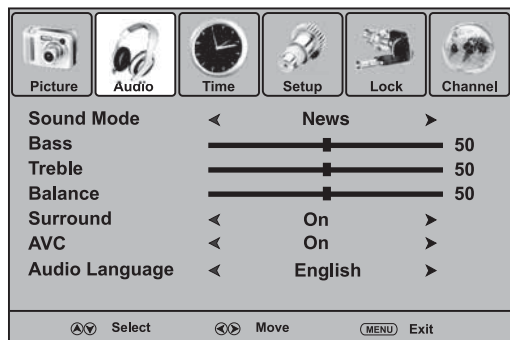
### Adjusting the sound

To adjust the sound:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Audio**, then press **▼**. The *Audio* menu opens.



- 3 Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to adjust that option. Available options include:

Option	Description
<b>Sound Mode</b>	Lets you select preset sound mode: <ul style="list-style-type: none"> <li>• <b>News</b>—For news programs</li> <li>• <b>Music</b>—For music programs</li> <li>• <b>Movie</b>—For movie programs</li> <li>• <b>Personal</b>—You make the settings</li> </ul> <b>Note:</b> You can also cycle through the sound modes by pressing <b>AUDIO</b> .
<b>Bass</b>	Lets you adjust the low (bass) sounds.
<b>Treble</b>	Lets you adjust the high (treble) sounds.
<b>Balance</b>	Lets you balance the volume left to right.
<b>Surround</b>	Lets you turn surround sound effects on or off.
<b>AVC</b> (auto volume control)	Lets you turn AVC on, to equalize overall volume levels across all channels, or off.
<b>Audio Language</b> (digital programs)	Lets you select an alternate language, if the program has this option.

- 4 Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

### Receiving MTS/SAP broadcasts

Your TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies those programs, if the station transmits them.

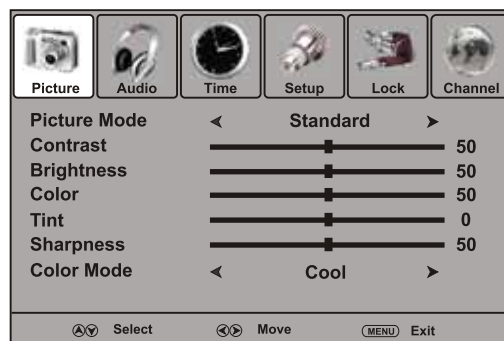
To receive MTS/SAP broadcasts:

- Press **MTS/SAP** to cycle through the available stereo modes. Options include:
  - **Mono**—Select for mono reception or to reduce noise on weak stereo programs.
  - **Stereo**—Select for stereo programs.
  - **SAP**—Select to automatically receive secondary audio programming when available.

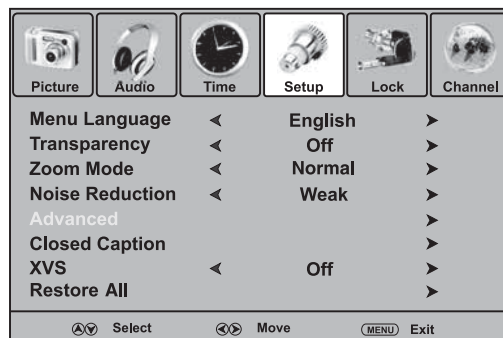
### Changing the system settings

To change the system settings:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Setup**, then press **▼**. The *Setup* menu opens.



- 3 Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to adjust that option. Press **▶** or **ENTER** to access a sub-menu (such as *Advanced* or *Closed Caption*). Available options include:

Option	Description
<b>Menu Language</b>	Lets you select the language for the on-screen menus.
<b>Transparency</b>	Lets you turn the on-screen menu transparency on or off.
<b>Zoom Mode</b>	Lets you select the picture aspect ratio according to the video signal type: <ul style="list-style-type: none"> <li>• <b>Normal</b>—Adjusts the aspect ratio to match the signal source (4:3 or 16:9)</li> <li>• <b>Wide1</b>—Enlarges the picture. The left and right sides may be cropped.</li> <li>• <b>Wide2</b>—Displays a full-screen picture.</li> <li>• <b>Zoom</b>—Enlarges the picture. May crop the top and bottom.</li> <li>• <b>Cinema</b>—Stretches the picture at the edges while maintaining a good proportion at the center of the screen.</li> </ul> <b>Note:</b> You can also cycle through the zoom modes by pressing <b>ZOOM</b> .

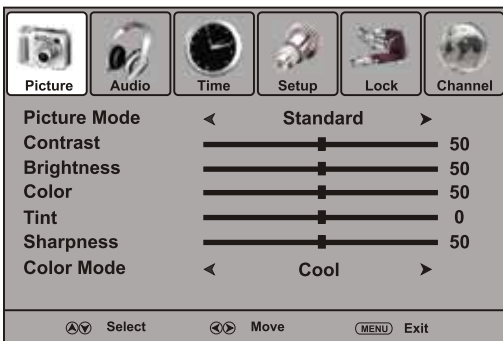
Option	Description
<b>Noise Reduction</b>	Lets you select a preset noise reduction setting to reduce snow in the picture. Options include: <ul style="list-style-type: none"> <li>• <b>Weak</b></li> <li>• <b>Middle</b></li> <li>• <b>Strong</b></li> <li>• <b>Off</b></li> </ul>
<b>Advanced</b>	Lets you access a sub-menu where you can select advanced PC setup options. See "Adjusting advanced VGA settings" on page 20.
<b>Closed Caption</b>	Lets you access a sub-menu to make closed caption settings. See "Setting up closed captioning" on page 16.
<b>XVS</b>	Lets you turn picture optimization on or off.
<b>Restore All</b>	Lets you reset all TV settings to factory defaults by following the on-screen instructions. <b>Note:</b> Using the Restore <b>All</b> option clears all of your customized settings, including programs and channel lists you have set up. Make sure that you want to reset all of your settings before you proceed.

- 4 Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

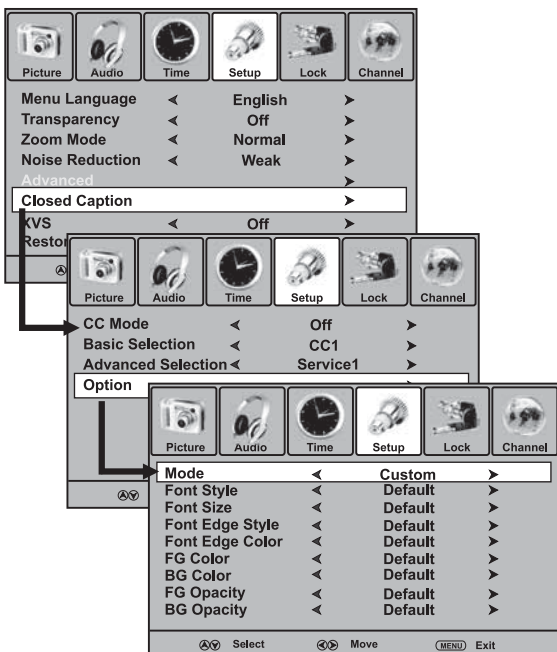
### Setting up closed captioning

To set up closed captioning:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Setup**, then press **▼**. The *Setup* menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **▶** or **ENTER** to open the *Closed Caption* sub-menu.

- 4 Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to change that option. You can also press **▶** or **ENTER** to access the *Option* sub-menu. Available options include:

Option	Description
<b>CC Mode</b>	Lets you select the closed caption mode. Settings include: <ul style="list-style-type: none"> <li>• <b>On</b>—Turns closed captions on</li> <li>• <b>CC on Mute</b>—Turns closed captions on automatically when you mute the sound</li> <li>• <b>Off</b>—Turns closed captions off</li> </ul> <b>Note:</b> You can also cycle through the CC modes by pressing <b>CCD</b> .
<b>Basic Selection</b>	Lets you select closed caption options. Options include: <ul style="list-style-type: none"> <li>• <b>CC1~CC4</b>—Displays a printed version of the program dialog or sound effects. Use CC1 for most programs.</li> <li>• <b>Text1~Text4</b>—Displays network or station information using a half or full screen.</li> </ul>
<b>Advanced Selection</b> (digital programs only)	Lets you select advanced options for digital programs.
<b>Option</b> (digital programs only)	Lets you customize digital closed captions. Open the <i>Option</i> sub-menu, then press <b>▲</b> or <b>▼</b> to highlight an option and <b>◀</b> or <b>▶</b> to change that option. First set the <b>Mode</b> to <b>Custom</b> , then select the options you want change. Options include: <ul style="list-style-type: none"> <li>• <b>Font Style</b></li> <li>• <b>Font Size</b></li> <li>• <b>Font Edge Style</b></li> <li>• <b>Font Edge Color</b></li> <li>• <b>FG</b> (foreground) <b>Color</b></li> <li>• <b>BG</b> (background) <b>Color</b></li> <li>• <b>FG Opacity</b></li> <li>• <b>BG Opacity</b></li> </ul>

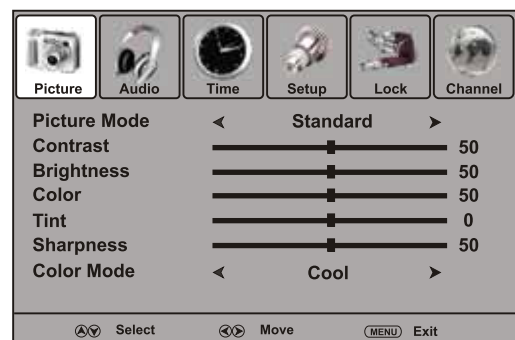
- 5 Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

### Setting up the clock

The digital clock on your TV is set automatically from a signal provided by a digital channel.

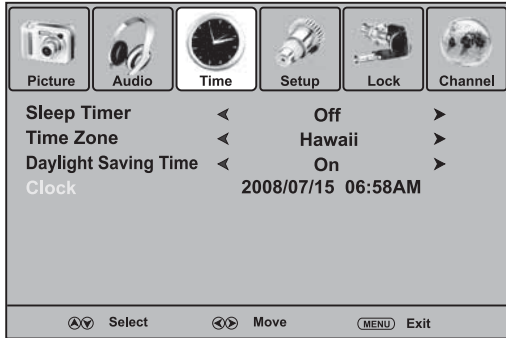
To set up the clock:

- 1 Press **MENU**. The *Picture* menu opens.





- Press **◀** or **▶** to select **Time**, then press **▼**. The *Time* menu opens.



- Press **▼** to highlight **Time Zone**, then press **◀** or **▶** to select your time zone. Options include **Atlantic, Eastern, Central, Mountain, Pacific, Alaska, and Hawaii**.
- If your area observes daylight saving time, press **▲** or **▼** to highlight **Daylight Saving Time**, then press **◀** or **▶** to select **On**.

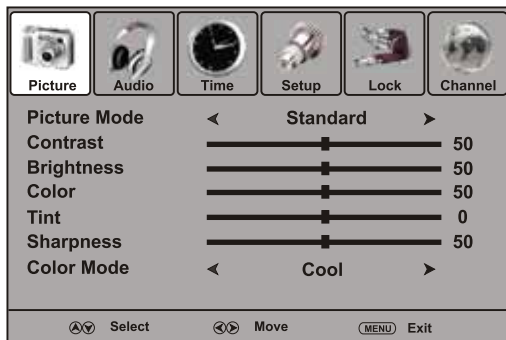
The last line of the menu shows the current time. If the time indicated is incorrect, review your settings and make changes as necessary.

### Setting the sleep timer

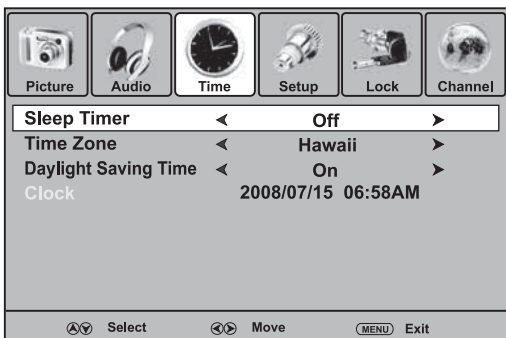
The sleep timer lets you set a time interval that your TV remains on, then turns itself off automatically.

#### To set the sleep timer:

- Press **MENU**. The *Picture* menu opens.



- Press **◀** or **▶** to select **Time**, then press **▼**. The *Time* menu opens.



- Press **▼** to highlight **Sleep Timer**, then press **◀** or **▶** to select the time that your TV remains on before turning itself off automatically. Set this to **Off** to turn the sleep timer off.

**Note:** You can also set the sleep timer by pressing **SLEEP** on the remote control.

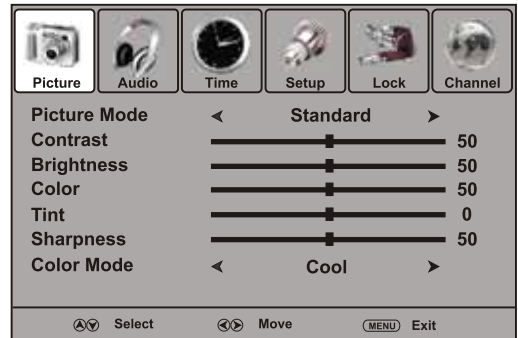
### Setting up parental controls

Your TV is equipped with a parental lock feature, which lets parents control the TV programs that their children are permitted to watch. The parental lock reads the ratings for the programs that your TV receives (except for news, sports, unedited movies on premium channels, and Emergency System signals), then blocks programs that exceed the limits that you set.

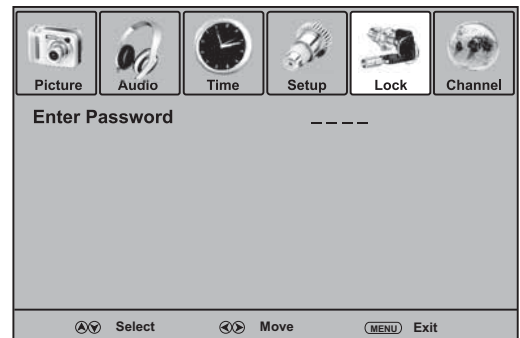
To use parental controls, you first need to set a password.

#### To set a password:

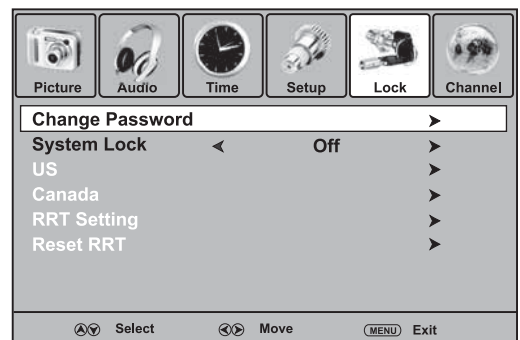
- Press **MENU**. The *Picture* menu opens.



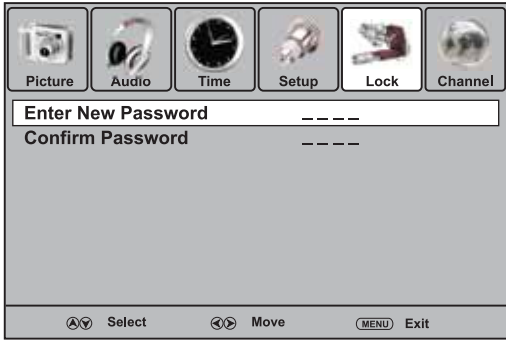
- Press **◀** or **▶** to select **Lock**, then press **▼**. The *Enter Password* screen opens.



- Press the number buttons (**0-9**) to enter the password (the default password set by the factory is "**0000**"). The *Lock* menu opens.



- Press **▲** or **▼** to highlight **Change Password**, then press **▶** or **ENTER**. The *Change Password* menu opens.



- Enter the new password by pressing the number buttons (**0-9**), then enter the same password again to confirm. The screen returns to the *Lock* menu and your password is changed.

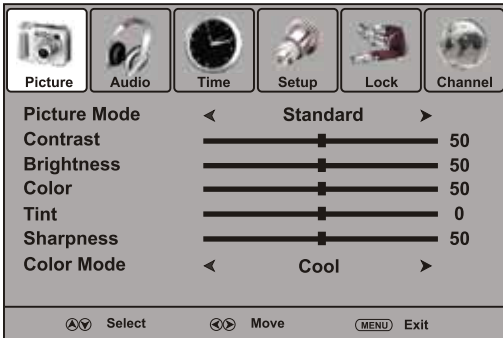
**Notes:**

To avoid forgetting your password, write it down and keep it in a safe place.

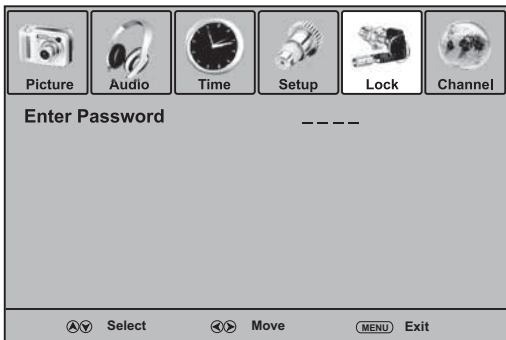
If you forget the password, you can enter a master password (**1397**) to access the *Lock* menu. Remember to set a new password.

**To enable parental controls:**

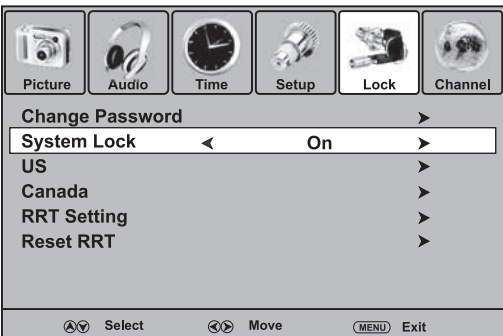
- Press **MENU**. The *Picture* menu opens.



- Press **◀** or **▶** to select **Lock**, then press **▼**. The *Enter Password* screen opens.



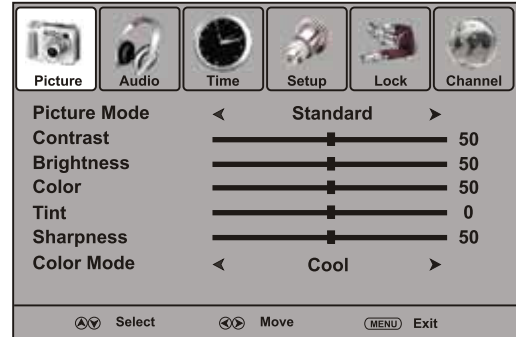
- Press the number buttons (**0-9**) to enter your password. The *Lock* menu opens.



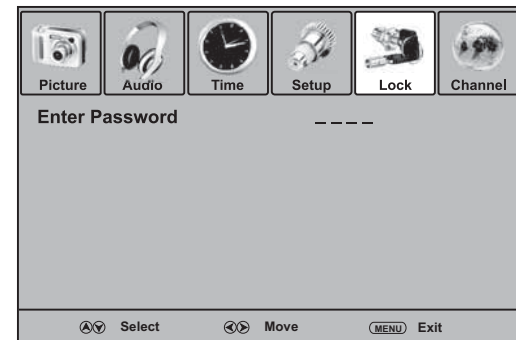
- Press **▲** or **▼** to highlight **System Lock**, then press **◀** or **▶** to change the setting to **On**. To set the rating and to enable the rating you set up, you should set the **System Lock** to **On**. To disable parental controls, turn this setting to **Off**.
- Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

**To set parental control rating levels:**

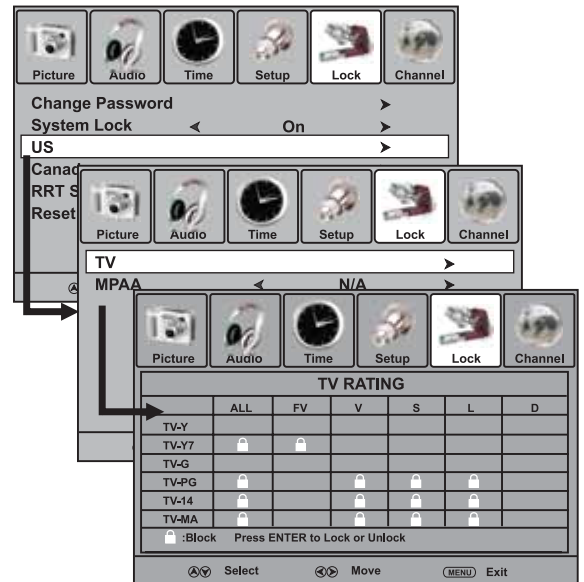
- Press **MENU**. The *Picture* menu opens.



- Press **◀** or **▶** to select **Lock**, then press **▼**. The *Enter Password* screen opens.



- Press the number buttons (**0-9**) to enter your password. The *Lock* menu opens.



- Press **▲** or **▼** to highlight the rating category you want to set (**US** in the example), then press **▶** or **ENTER**. The rating category sub-menu opens.

- Press **▲** or **▼** to highlight the rating type you want to set (**TV** in the example), then press **▶** or **ENTER**. The rating type sub-menu opens.

- Press **▲**, **▼**, **◀**, or **▶** to navigate to the rating you want to set, then press **ENTER** to change the setting. A lock icon on the rating indicates that the rating is blocked. No icon indicates that the rating is not blocked.

**Age-based TV ratings**

Use these rating guidelines to prevent your children from watching certain TV programs, based on the rating limits set.

Rating	Description
TV-Y	All children
TV-Y7	Children over seven years of age
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audiences only

**Content-based TV ratings**

Rating	Description
FV	Fantasy violence
L	Adult language
S	Sexual situations
V	Violence
D	Sexually suggestive dialog

**US MPA (movie) ratings**

Prevents children from watching certain movies, based on the rating limits set. You can set the rating limits by blocking out all the movies with ratings above a certain level. These ratings apply only to movies, not to TV programs.

Rating	Description
G	General audiences
PG	Parental guidance suggested. Some material may not be suitable for children
PG-13	Parental guidance strongly suggested. Some material may not be suitable for children under 13 years of age
R	Restricted. Not suitable for children under 17 years of age unless accompanied by a parent or guardian
NC-17	Not suitable for children under 17 years of age
X	Adults only
N/A	Not rated

**Canadian English ratings**

Rating	Description
C	Children
C8+	Children 8 years and above
G	General audience
PG	Parental guidance suggested
14+	14 years old and above
18+	Adult programming
E	Exempt programming

**Canadian French ratings**

Rating	Description
G	General audiences
8ans+	Children 8 years and above
13ans+	Children 13 years and above
16ans+	Children 16 years and above
18ans+	Adult programming
E	Exempt programming

**RRT Setting**

If the broadcast program uses RRT5 (Rating Region Table - Region 5) ratings, in accordance with FCC rules, its rating can be downloaded to this TV and can be used for parental controls.

**Reset RRT**

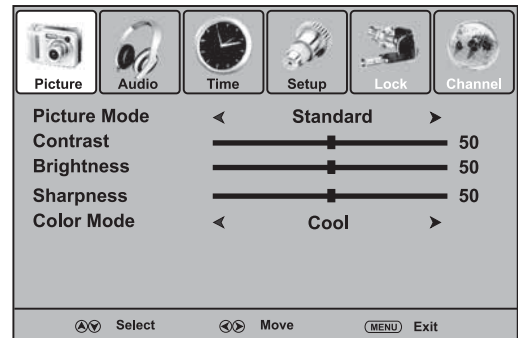
Select this option to clear the downloaded RRT rating.

**Adjusting VGA mode images**

**Adjusting VGA images**

To adjust VGA images:

- In VGA mode, press **MENU**. The *Picture* menu opens. Press **▼** to enter the *Picture* menu.



- Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to adjust that option. Available options include:

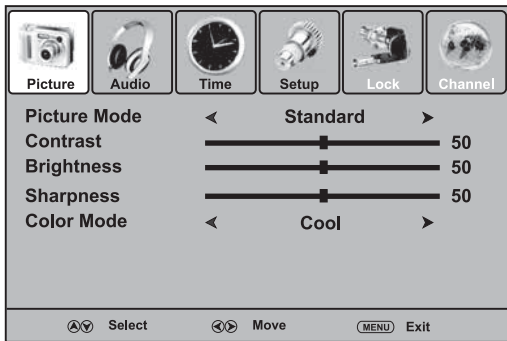
Option	Description
<b>Picture Mode</b>	Lets you select a preset picture mode: <ul style="list-style-type: none"> <li>• <b>Standard</b>—A standard picture</li> <li>• <b>Dynamic</b>—A bright and vivid picture</li> <li>• <b>Soft</b>—A finely detailed picture</li> <li>• <b>Personal</b>—You make the settings</li> </ul> Note: You can also cycle through the picture modes by pressing <b>PICTURE</b> .
<b>Contrast</b>	Lets you adjust the image contrast.
<b>Brightness</b>	Lets you adjust the screen brightness.
<b>Sharpness</b>	Lets you adjust the image sharpness.
<b>Color Mode</b> (color temperature)	Lets you select a preset color mode: <ul style="list-style-type: none"> <li>• <b>Warm</b>—Enhances red tones</li> <li>• <b>Cool</b>—Enhances blue tones</li> <li>• <b>Normal</b>—The default setting</li> </ul>

- Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

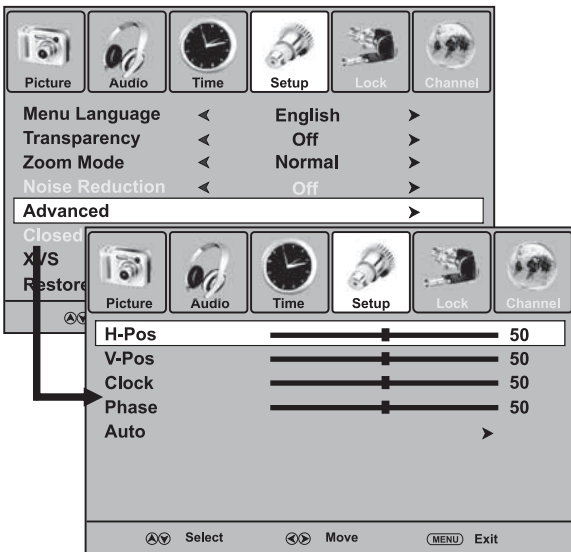
## Adjusting advanced VGA settings

To change the advanced VGA settings:

- 1 Press **MENU**. The *Picture* menu opens.



- 2 Press **◀** or **▶** to select **Setup**, then press **▼**. The *Setup* menu opens.



- 3 Press **▲** or **▼** to highlight **Advanced**, then press **▶** or **ENTER**. The *Advanced* sub-menu opens.
- 4 Press **▲** or **▼** to highlight an option, then press **◀** or **▶** to adjust the option. Available options include:

Option	Description
<b>H-Pos</b>	Lets you adjust the horizontal position of the image to the left or right.
<b>V-Pos</b>	Lets you adjust the vertical position of the image up or down.
<b>Clock</b>	Lets you adjust the sample frequency of the image.
<b>Phase</b>	Lets you adjust the phase of the image to improve the focus.
<b>Auto</b>	Lets you activate the auto adjustment setting, which automatically optimizes the image.

- 5 Press **MENU** to return to the previous menu or **EXIT** to resume normal viewing.

# Assembling the stand and removing the stand column

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

### Cautions:

Read these instructions thoroughly before attempting this installation. Make sure that you handle your TV very carefully when attempting assembly or removal of the stand. If you are not sure of your ability to do this, or of your ability to use the tools necessary to complete this job, refer to a professional installer or service personnel. The manufacturer is not responsible for any damages or injuries that occur due to mishandling or improper assembly.

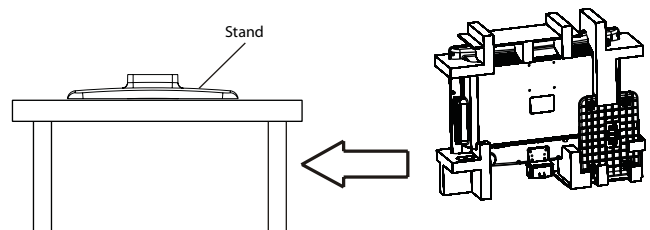
When using a table or bench as an aid to assembly, make sure that you put down a soft cushion or covering to prevent accidental scratching or damage to your TV's finish.

The speaker is not intended to support the weight of your TV. Do not move or handle your TV by the speaker. This can cause damage to your TV that is not covered by the manufacturer's warranty.

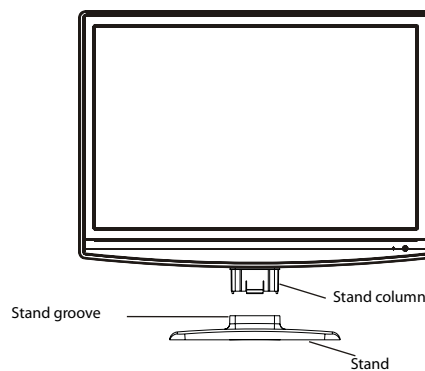
Before attempting assembly or removal of the stand, unplug the AC power cord.

### To install the stand:

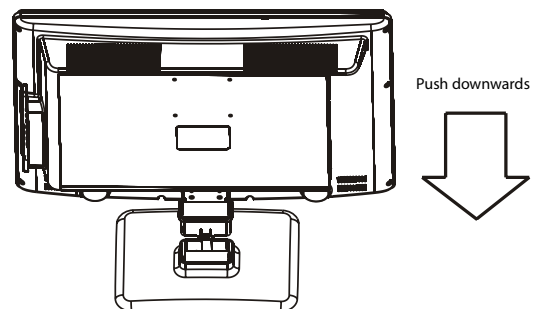
- 1 Remove the stand from the box and place it on a table or bench.



- 2 Hold your TV upright and align the stand column on the TV with the stand groove on the stand, then insert the TV into the stand.

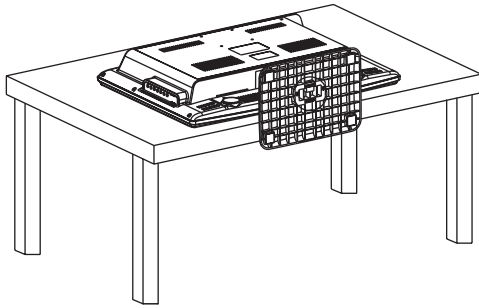


- 3 Gently push downward on the TV until it clicks into place.

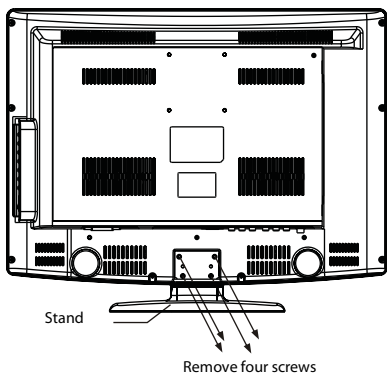


**To remove the stand and stand column:**

- 1 Lay your TV flat (screen down) on a table or bench. Make sure that you put down a soft cushion or cloth so that your TV is not scratched).

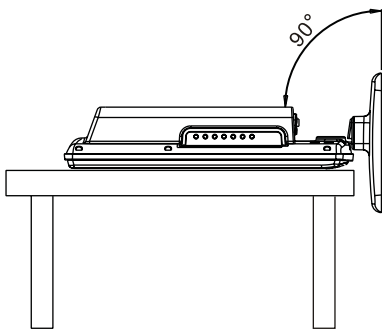


- 2 Remove the four screws holding the stand column to your TV, then remove the stand column and stand.

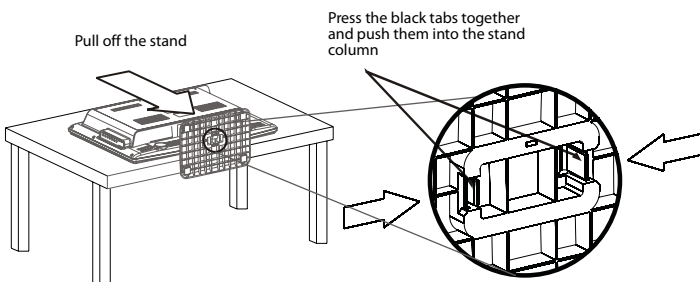


**To remove the stand from the stand column:**

- 1 Lay your TV flat (screen down) on a table or bench. Make sure that you put down a soft cushion or cloth so that your TV is not scratched).
- 2 Adjust the stand so that the angle between the stand and the TV is 90°.



- 3 Press the two black tabs on the bottom of the stand together and push them into the stand column, then pull the stand off the stand column.



**Note:** The appearance of this product in these illustrations may differ from your actual product, and is for comparative purposes only.

# Maintaining

## Cleaning

- Before cleaning the screen, unplug your TV from the power outlet.
- Wipe the front panel and other exterior surfaces of your TV with a soft cloth immersed in luke warm water, then wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near your TV. Such chemicals may cause damage and discoloration to the exposed surfaces.

## Servicing

Do not try to repair your TV yourself. There are no user-serviceable parts inside. Turn off your TV, unplug the power cord, then contact an authorized service center.

## Troubleshooting

Use the following checklist for troubleshooting when you have problems with your TV. If problems persist, try unplugging your TV, then plugging it in again. If that does not work, consult your local dealer or service outlet.

Make sure that all connections are made correctly.

**Caution:** Never attempt to repair a defective TV yourself.

Problem	Solution
<b>General problems</b>	
One or more channels cannot be viewed	<ul style="list-style-type: none"> <li>• The channel(s) may be blocked. Check parental controls.</li> <li>• The channel(s) may be hidden. Try accessing the channel directly by using the number buttons (0-9).</li> </ul>
Lost password	Use the master password (1397) to access the Lock menu and set a new password.
Some options cannot be accessed.	If a setting appears grayed out, the setting is not available in the current mode.
The TV cabinet creaks	When your TV is in use, there are changes in temperature which cause the cabinet to expand and contract. This may cause a creaking noise. This is not a malfunction.
The control buttons do not work	Disconnect the TV power cord and wait a few seconds, then reconnect it.
<b>Video and audio problems</b>	
No picture (the screen is not lit) and no sound.	<ul style="list-style-type: none"> <li>• Make sure that the power cord is plugged in.</li> <li>• Press <b>POWER</b> on the TV or the remote control.</li> <li>• Try another channel. The problem may be at the broadcasting station.</li> </ul>
Dark, poor, or no picture, good sound	<ul style="list-style-type: none"> <li>• Make sure that the picture mode is correct.</li> <li>• Adjust the brightness of the picture.</li> <li>• Make sure the antenna/cable connections are correct.</li> </ul>
No color, dark picture, or the color is not right	Adjust the color saturation in the video setting.
Snow and noise on the screen	<ul style="list-style-type: none"> <li>• Try another channel. The problem may be at the broadcasting station.</li> <li>• Make sure the antenna/cable connections are correct.</li> </ul>
Dotted lines or stripes on the screen	<ul style="list-style-type: none"> <li>• Move the TV away from noise sources, such as cars, neon signs, or hair dryers.</li> <li>• Make sure the antenna/cable connections are correct.</li> </ul>

Problem	Solution
Double images or "ghosts"	Use a highly directional antenna or cable TV.
Good picture but no sound	<ul style="list-style-type: none"> <li>• Make sure that the sound is not muted. Press <b>MUTE</b> to cancel.</li> <li>• Make sure that the stereo mode is set to <b>Stereo</b> or <b>Mono</b>.</li> </ul>
Audio noise	Problems may occur if infrared communications equipment (such as infrared cordless phones) are used near the TV. Move the infrared communications equipment away from the TV until the noise is eliminated.
<b>Remote control</b>	
The remote control does not work	<ul style="list-style-type: none"> <li>• Aim the remote control at the remote control sensor.</li> <li>• Operate within about 15 feet of the TV, or reduce the light in the room.</li> <li>• Clear the path of the infrared beam.</li> <li>• The batteries may be weak. Replace the batteries.</li> <li>• Make sure that the batteries are inserted correctly.</li> </ul>

## Specifications

<b>Type</b>	LCD TV
<b>Panel</b>	22" TFT LCD
<b>TV system</b>	NTSC-M, ATSC
<b>Receiving channels</b>	VHF 2-13, UHF 14-69, CATV 1-125, CDTV 1-135, DTV 2-69
<b>Audio multiplex</b>	BTSC system
<b>Power requirement</b>	AC 120 V, 60 Hz
<b>Power consumption</b>	48 W
<b>Dimensions (W × H × D)</b>	20.24 × 16.14 × 7.09 inches (514 × 410 × 180 mm)
<b>Weight</b>	11.5 lbs (5.2 kg)
<b>Input terminals</b>	Composite video/audio L/R (1) S-Video (1) Component video/audio L/R (1) HDMI interface (1) VGA/Audio (1) Antenna (1)
<b>Output terminals</b>	Headphone jack (1)
<b>Control</b>	RS-232 (1)

Specifications are subject to change without notice. Weight and dimensions shown are approximate.

## Legal notices

### FCC Part 15

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

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

### FCC warning

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



## One-year limited warranty

Dynex Products ("Dynex") warrants to you, the original purchaser of this new **DX-LCD22-09** ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period"). This Product must be purchased from an authorized dealer of Dynex brand Products and packaged with this warranty statement. This warranty does not cover refurbished product. If you notify Dynex during the Warranty Period of a defect covered by this warranty that requires service, terms of this warranty apply.

### How long does the coverage last?

The Warranty Period lasts for one year (365 days) from the date you purchased the Product. The 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 Dynex repair center or store personnel, Dynex 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 Dynex and are not returned to you. If service of products and 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 Dynex 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 retail store location, take your original receipt and the Product to the store you purchased it from. 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 an 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 25 inches or larger, call 1-888-BESTBUY. Call agents will diagnose and correct the issue over the phone or will have an Dynex-approved repair person dispatched to your home.

### Where is the warranty valid?

This warranty is valid only to the original purchaser of the Product in the United States and Canada.

### What does the warranty not cover?

This warranty does not cover:

- Customer instruction
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as lightning strikes
- Accident
- Misuse
- Abuse
- Negligence
- Commercial use
- Modification of any part of the Product
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).

This warranty also does not cover:

- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage supply
- Attempted repair by anyone other than a facility authorized by Dynex to service the Product
- Products sold as is or with all faults
- Consumables, such as fuses or batteries
- Products where the factory applied serial number has been altered or removed

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. DYNEX 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. DYNEX PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, ALL EXPRESS AND IMPLIED WARRANTIES FOR 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 LASTS, 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 Dynex:

For customer service please call 1-800-305-2204

[www.dynexproducts.com](http://www.dynexproducts.com)

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