

**DYNEX**  <sup>TM</sup> ● ● ●

32" LCD TV

**DX-L321-10A**

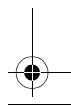
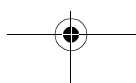
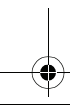
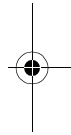
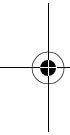
**USER GUIDE**



# Dynex DX-L321-10A 32" LCD TV

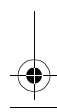
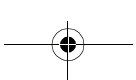
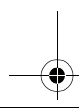
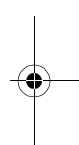
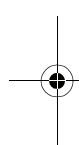
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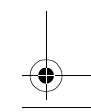
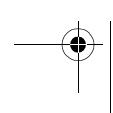
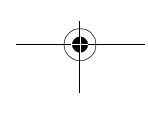
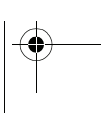
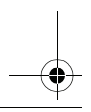
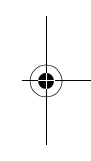
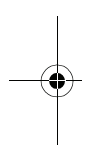
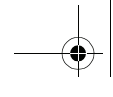
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## CHILD SAFETY

### 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 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.



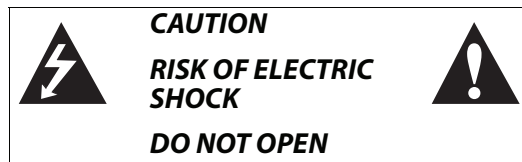
#### *Wall mounting*

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

- 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. One size of wall mount does not fit all.
- 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



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



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

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with a dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15 The wall plug is the disconnecting device. The plug must remain readily operable.
- 16 An apparatus with a three-prong, grounding-type plug is a Class I apparatus, which needs to be grounded to prevent possible electric shock. Make sure that you connect this Class I television to a grounding-type, three-prong outlet.
- 17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.

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

### Warnings

#### Electric shock hazard

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

#### Lightning

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

#### Power lines

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

#### Handling the LCD panel

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

#### Replacement parts

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

#### Safety check

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

#### Power source

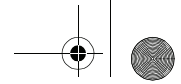
Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

### Cautions

#### Damage requiring service

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

- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.
- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other

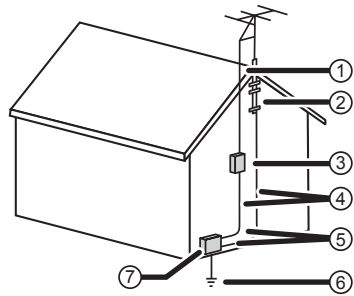


controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.

- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

#### Outdoor antenna grounding

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



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

#### Note to CATV system installer

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

#### Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually. Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

#### Mobile telephone warning

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

#### End of life directives

Your TV contains tin-lead solder and a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. Your TV also contains material that can be

recycled and reused. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at [www.eia.org](http://www.eia.org) to find a recycler in your area.

#### Non-active pixels

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

## Installing and removing the stand

You must install your TV into the stand 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.

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

#### 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 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.

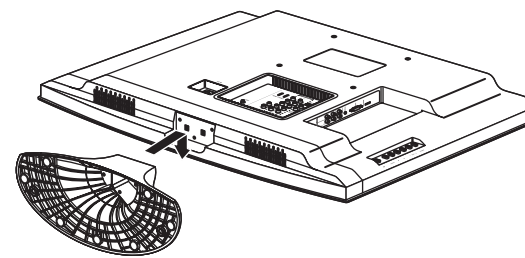
When using a table or bench as an aid to assembly, make sure that you place the TV on a soft cushion or covering to prevent accidental scratching or damage to your TV's finish.

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.

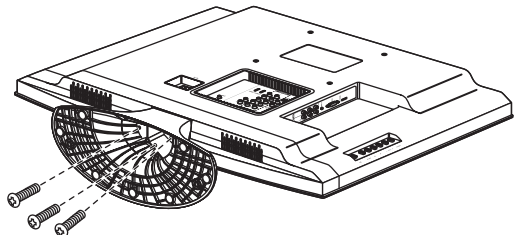
## Installing the stand

#### To install the stand:

- 1 Remove the stand from the box and place it on a table or bench.
- 2 Lay your TV flat, screen down, on a clean, flat, stable surface, such as a tabletop. Make sure that you put down a soft cushion or cloth so that your TV is not scratched.



- Align the base with the bottom of the TV, then secure the base to the TV with the three M4 x L10mm screws provided.

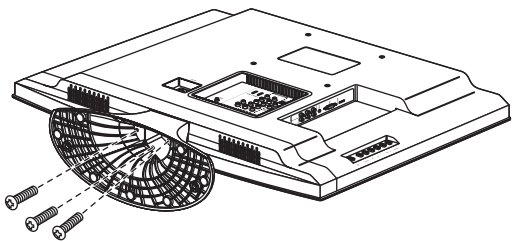


- Set your TV upright on a stable surface.

### Removing the stand

To remove the stand from the stand column:

- Lay your TV face down on a table or bench. Make sure that you put down a soft cushion or cloth so that your TV is not scratched).
- Remove the three M4 x L10 mm screws securing the base to the TV, then remove the base.



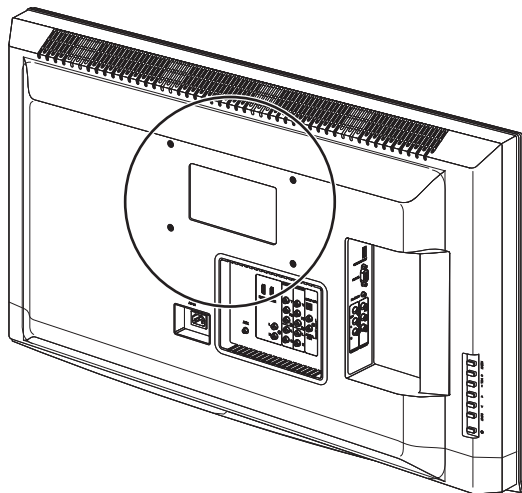
### Installing a wall-mount bracket

If you want to attach the TV to a wall-mount bracket (not provided), you should first remove the stand pedestal if it is pre-attached (see above).

To attach your TV to a wall-mount bracket:

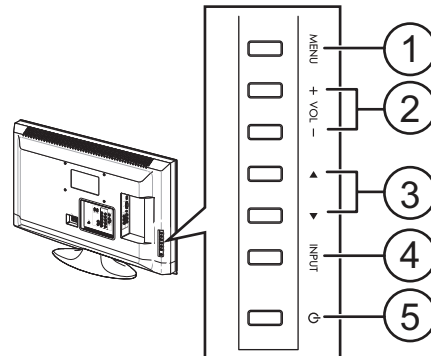
**Warning:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of hazards, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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



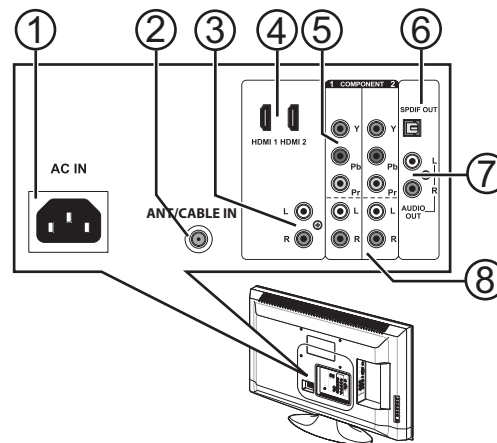
## TV components

### Side controls



#	Component	Description
1	MENU	Press to open the on-screen menu.
2	VOL+/VOL-	Press to increase or decrease the volume.
3	▲/▼	Press to go to the next or previous channel in the channel list.
4	INPUT	Press to select the video input source.
5	⏻ (Power) button	Press to turn on your TV. Press again to put your TV in standby mode.

### Back connections

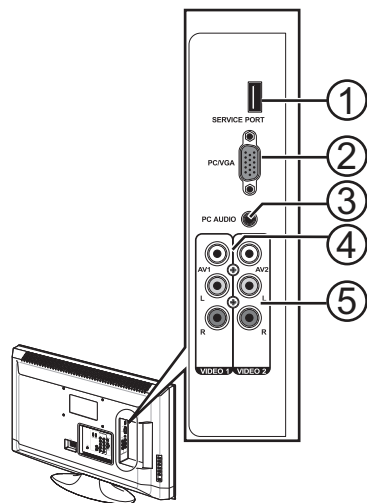


##	Component	Description
1	AC in	Connect the AC power cord to this connector.
2	ANT/CABLE IN jack	Connect an antenna, cable TV, or a satellite box to this jack. For more information, see "Connecting an antenna, cable TV, or satellite TV box" on page 7.
3	HDMI/DVI Audio in jacks	Connect audio cables (L and R) from an external audio source, such as a DVD player with HDMI/DVI connections, to these jacks. <b>Note:</b> HDMI devices do not require separate audio connections since the audio is carried in the HDMI cable, however if you are using an HDMI-to-DVI converter cable you will require separate audio connections.



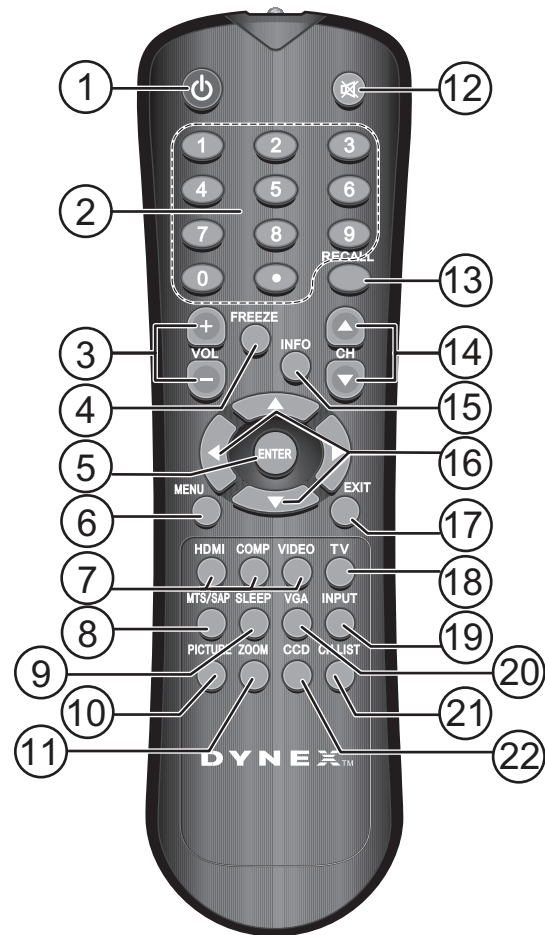
##	Component	Description
4	HDMI 1 and 2 jacks	Connect an HDMI device, such as a cable box or DVD player, to one of these jacks. An HDMI cable carries both video and audio, so you do not need to make an audio connection. For more information, see "Connecting an HDMI device" on page 9.
5	COMPONENT IN (Y, Pb, Pr) jacks	Connect a component video device to these jacks. Cables are often color-coded to connectors. For more information, see "Connecting a component video device" on page 10.
6	SPDIF out jack	Connect a digital optical cable from this jack to an external digital audio receiver.
7	Audio output jacks (L and R)	Connect audio cables (L and R) from these jacks to an external audio amplifier or receiver.
8	Component audio input jacks (L and R) 1 and 2	Connect audio cables (L and R) from an external audio source, such as a DVD player, to these jacks.

Side connections



##	Component	Description
1	Service port	For service update only. Do not use.
2	PC VGA jack	Connect a 15-pin VGA cable from a computer to this jack. For more information, see "Connecting a computer" on page 10.
3	PC Audio	Connect a mini audio cable from your computer sound card AUDIO OUT jack to this jack.
4	AV1 and AV2 jacks	Connect the video output from an external video device to one of these jacks. For more information, see "Connecting a VCR" on page 8.
5	Composite audio output jacks (L and R) 1 and 2	Connect audio cables (L and R) from these jacks to an external analog audio amplifier or receiver.

Remote control



#	Button	Description
1	⏻ (Power)	Press to turn on your TV. Press again to put your TV in Standby mode.
2	Numbers/. (dot)	Press to enter channel numbers or the parental control password. Press the • (dot) button to select a digital sub-channel.
3	VOL+/VOL-	Press to increase or decrease the volume.
4	<b>FREEZE</b>	Press once to view an image capture of the display in a separate screen, while the programming continues to run. Press again to display the image capture using the entire screen. To continue with the regular programming display, press the button one more time.
5	<b>ENTER</b>	During TV viewing, press to switch to the keyed in channel entry. In menu mode, press to confirm selections in an on-screen menu or to open a submenu.
6	<b>MENU</b>	Press to open the on-screen menu.
7	<b>HDMI, COMP, VIDEO</b>	Press HDMI to select the HDMI 1 or HDMI 2 video input source. Press COMP to select the Component 1 or Component 2 video input source. Press VIDEO to select Video 1 or Video 2 as the video input source.
8	<b>MTS/SAP</b>	Press to enable the SAP (Second Audio Program) function. This lets you listen to a program using an alternative second language. Function availability depends on your TV provider.

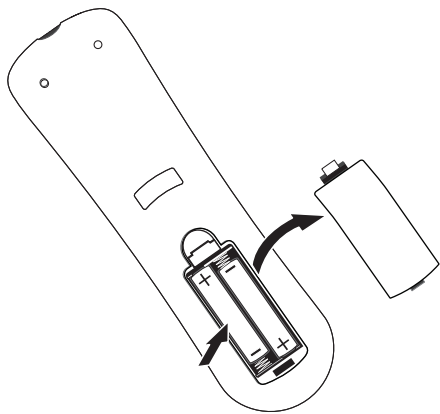
#	Button	Description
9	<b>SLEEP</b>	Press to set the sleep timer to have your TV turn off automatically.
10	<b>PICTURE</b>	Press to select the video mode.
11	<b>ZOOM</b>	Press to select the video display format.
12	⊗ (Mute)	Press to turn off the sound. Press again to turn on the sound.
13	<b>RECALL</b>	Press to return to the channel you were previously viewing.
14	CH ▲/▼	Press to go to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 13.
15	<b>INFO</b>	Press to display the information banner. For more information, see "Displaying additional information" on page 13.
16	▲ ▼ ▶ ◀	Press to navigate through the on-screen menus.
17	<b>EXIT</b>	Press to close the on-screen menu.
18	<b>TV</b>	Press to select the TV as the video source.
19	<b>INPUT</b>	Press to open the <i>INPUT SOURCE</i> menu, then press ▲ or ▼ to select the video input source. You can select <b>Tuner, Video1, Video2, Component1, Component2, HDMI1, HDMI2, or VGA.</b>
20	<b>VGA</b>	Press to select VGA as the video input source.
21	<b>CH LIST</b>	Press to display the channel list of available channels.
22	<b>CCD</b>	Press to turn closed captioning on or off. For more information, see "Turning closed captioning on or off" on page 19 or "Selecting the closed captioning mode" on page 19.

## Using the remote control

### Installing remote control batteries

#### To install remote control batteries:

- 1 Open the battery compartment cover by lifting it off when you press the release button.
- 2 Insert two AAA batteries into the battery compartment. Make sure that the + and – symbols on the batteries match the + and – symbols in the battery compartment.



- 3 Replace the cover.

#### Notes:

Do not mix different types of batteries.

Do not mix old and new batteries.

Remove batteries when they no longer have a charge. Chemicals may leak into the battery compartment. Battery chemicals can cause a rash. If chemicals leak, clean the battery compartment with a cloth.

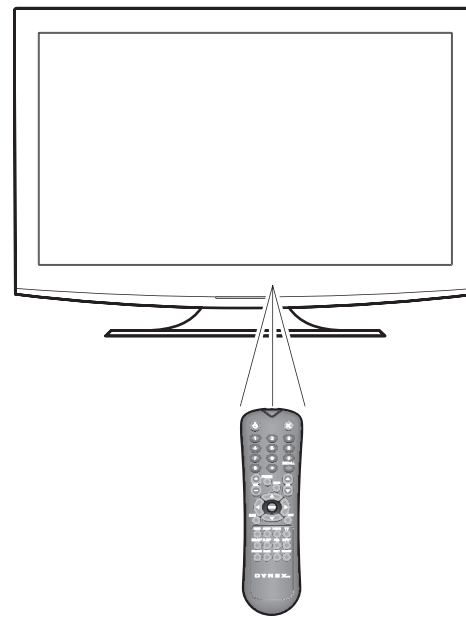
Remove the batteries if you do not intend to use the remote control for an extended amount of time.

Do not dispose of batteries in a fire. Dispose of them as hazardous waste.

### Aiming the remote control

#### To use the remote control:

- Point the remote control towards the remote sensor on the front of your TV. The remote control should be used within 26 feet (7.9 m) of your TV.



#### Notes:

Do not expose the remote control to shock or liquids.

Do not use the remote control in an area with high humidity.

Do not place the remote control in direct sunlight.

Do not place objects, such as furniture, between the remote control and the remote sensor.

The remote control may not work if direct sunlight or bright light shines on the remote sensor. Either move your TV or change the angle at which you use the remote control.

## Programming a universal remote control to work with your TV

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

### To program a universal remote control:

- 1 Find the code for your universal remote control by identifying its model (or your set-top box's remote control manufacturer and model) on the charts below, then make note of the numbered code below it. You will use the numbered code to program your remote control to work with your TV.

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

##### Universal remote control manufacturer and model

Philips PHDVD5, PH5DSS, PMDVR8, PDVR8	RCA RCU807	One for All URC-6690	Sony RM-VL600
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<b>115</b>	<b>135</b>	<b>0464</b>	<b>8043</b>
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##### Set-top box manufacturer and model

Comcast M1057	Dish Network VIP508, VIP622	Motorola DRC800	TIVO Series 3, HD	DirectTV RC23
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<b>0463</b>	<b>720</b>	<b>0463</b>	<b>0091</b>	<b>10463</b>
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Codes for other remote controls are available online at:  
[www.dynexproducts.com/t-customer\\_support.aspx](http://www.dynexproducts.com/t-customer_support.aspx)

#### 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.
- 2 Follow your universal remote control's instructions to enter the 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 your TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

- 3 If all else fails, you must use a different universal remote control that can operate both your set-top box and your TV. Five such remotes are listed on the chart, but many other compatible models are available in the market.

For more help, call technical support for your universal remote control or set-top box manufacturer, or call the Dynex Customer Care Center at 1-800-305-2204.

## Making connections

### Cautions:

Check the terminals 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 in these illustrations may be different from your equipment. If you have questions, refer to the user manual that came with your equipment.

Always turn the power off when connecting external equipment.

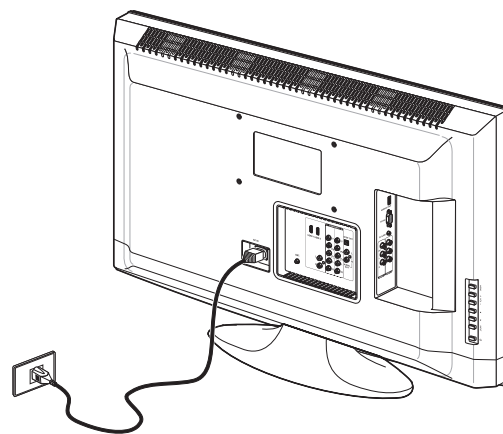
Your TV does not support DTS audio format. If you choose a DTS audio format, you may not hear the correct audio output from the TV speakers.

## Connecting the power

### To connect the power:

- Connect the power cord to the AC in connector on the back of your TV, then plug the cord into an AC power outlet.

**Important:** Your TV only works on 120 V, 60 Hz power.



### Notes:

Your TV should only be operated from the power source indicated on the label.

Always unplug the AC power cord from the AC power outlet when you will not be using your TV for an extended period of time.

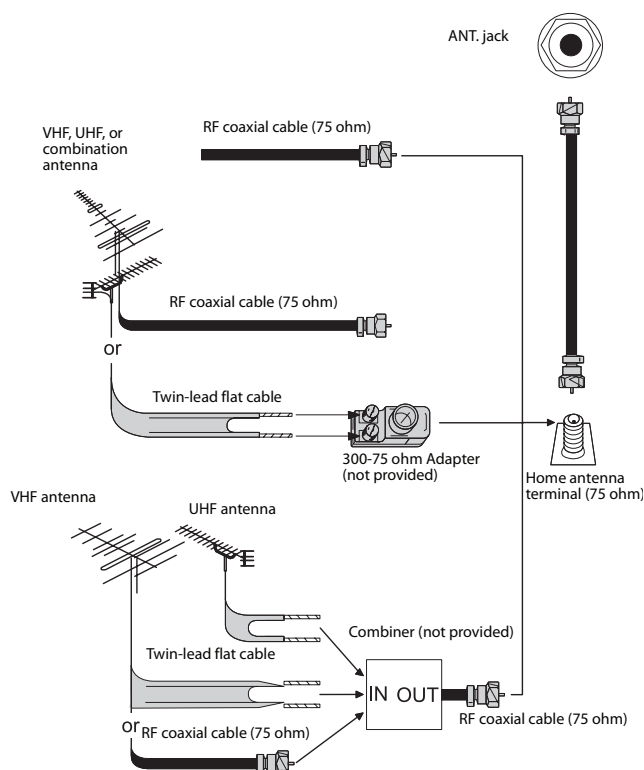
## Connecting an antenna, cable TV, or satellite TV box

**Important:** The antenna connector should only be finger-tightened. Do not tighten this connector with any tool, or you may damage your TV.

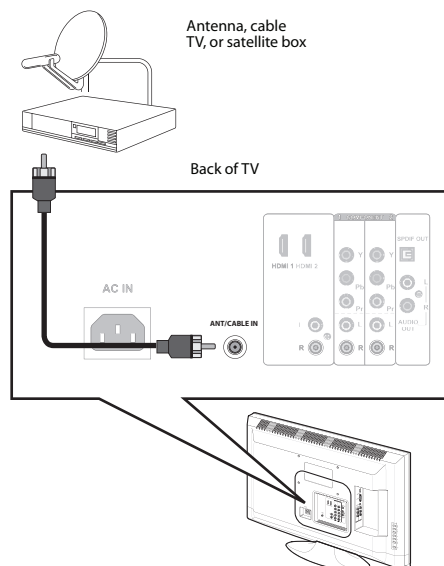
### To connect an antenna, cable TV, or satellite TV box:

- 1 Turn off the TV before connecting the antenna.

- 2 Connect one end of a coaxial cable (not included) to the **RF OUT** jack on the antenna or on the cable or satellite TV box. If you are using an antenna with twin-lead cable, you may need a 300-75 ohm adapter (not provided) to connect it to the back of your TV. Likewise, if you are using several antennas, you may need a combiner (not provided).



- 3 Connect the other end of the cable to the **ANT/CABLE IN** jack on the back of your TV.



**Notes:**

Use a coaxial cable to eliminate interference and noise from radio waves.

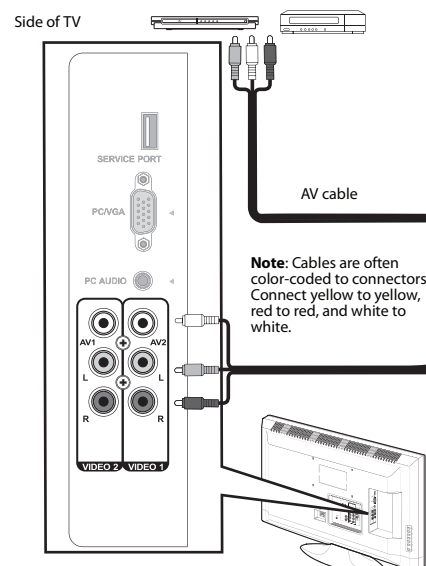
Do not bundle the coaxial cable with the power cord or other cables.

If the antenna is not installed correctly, contact qualified service personnel to correct the problem.

## Connecting a VCR

**To connect a VCR:**

- 1 Make sure that your TV's power cord is unplugged and the VCR is turned off.
- 2 Connect an AV cable to the **AV VIDEO OUT** jack on the VCR.



- 3 Connect the other end of the cable to the **Video1** or **Video2** jack on the side of your TV.
- 4 Connect an audio cable to the **AV AUDIO OUT** jacks on the VCR.
- 5 Connect the other end of the cable to the **Video1** or **Video2** audio in jacks on the side of your TV.

**To play from the VCR:**

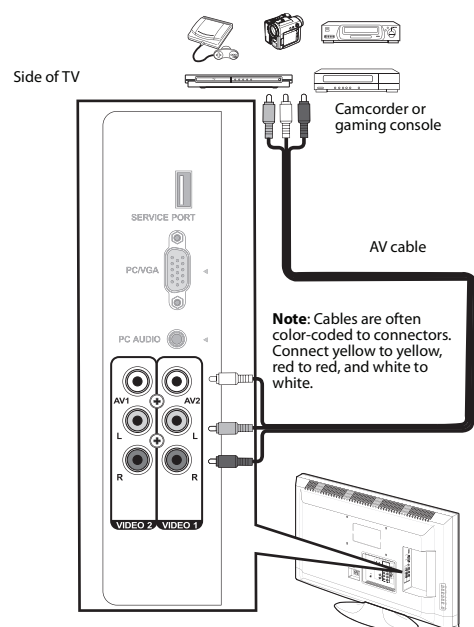
- 1 Turn on your TV, then press **INPUT**. The **INPUT SOURCE** menu opens.
- 2 Press **▲** or **▼** to select **Video1** or **Video2**, then press **ENTER**.  
*Note: You can also press VIDEO once for Video1 or twice for Video2.*
- 3 Turn on the VCR, insert a videotape, then press **PLAY** on the VCR.

## Connecting a camcorder or gaming console

**Tip:** Some game consoles have an HDMI connector, which can be used for a better picture.

### To connect a camcorder or game:

- 1 Make sure that your TV's power cord is unplugged and the camcorder or gaming console is turned off.
- 2 Connect an AV cable to the **AV OUT VIDEO**, **AUDIO-L**, and **AUDIO-R** jacks on the camcorder or gaming console.



- 3 Connect the other end of the cable to the **Video1** or **Video2** in jack and the **Video1** or **Video2** audio in jacks on the side of your TV.

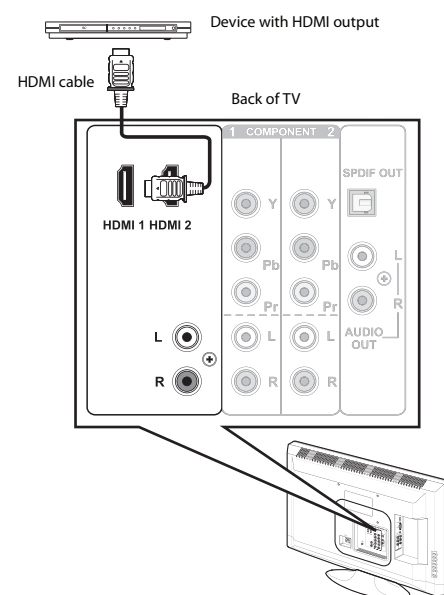
### To play from a camcorder or gaming console:

- 1 Turn on your TV, then press **INPUT**. The **INPUT SOURCE** menu opens.
- 2 Press **▲** or **▼** to select **Video1** or **Video2**, then press **ENTER**.  
**Note:** You can also press **VIDEO** once for **Video1** or twice for **Video2**.
- 3 Turn on the camcorder or game, and set it to the correct output mode. See the camcorder's or gaming console's user guides for more information.

## Connecting an HDMI device

### To connect an HDMI device:

- 1 Make sure that your TV's power cord is unplugged and the HDMI device is turned off.
- 2 Connect an HDMI cable to the **HDMI OUT** jack on the HDMI device.

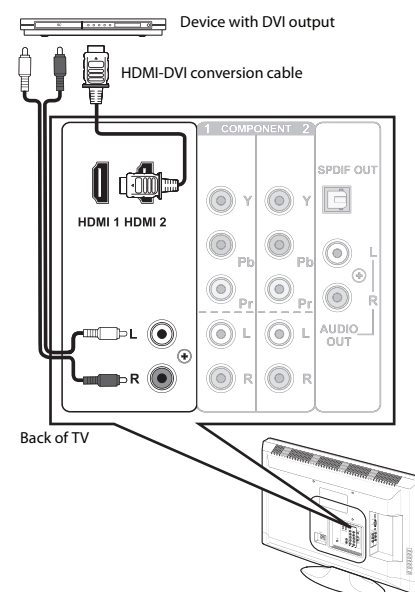


- 3 Connect the other end of the cable to the **HDMI 1** or **HDMI 2** jack on the back of your TV.

### To play from the HDMI device:

- 1 Turn on your TV, then press **INPUT**. The **INPUT SOURCE** menu opens.
- 2 Press **▲** or **▼** to select **HDMI 1** or **HDMI 2**, then press **ENTER**.  
**Tip:** You can also press **HDMI** once for **HDMI 1** or twice for **HDMI 2**.
- 3 Turn on the HDMI device, and set it to the correct output mode. See the HDMI device's user guide for more information.

**Note:** If the external device has DVI output only, use a DVI-to-HDMI adapter to connect to the **HDMI** jack, then connect an audio cable to the **HDMI/DVI Audio in** jack.



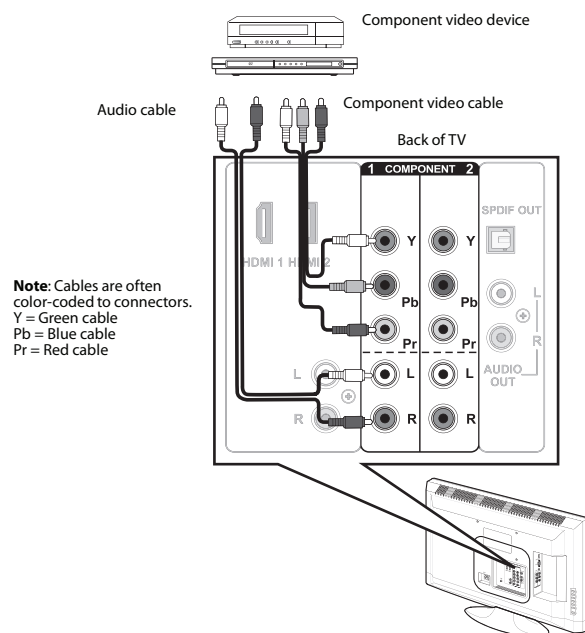
**Note:** An HDMI picture can be displayed only when a 640 x 480, 480P, 720P, or 1080i signal is received. When you connect to the HDMI terminal with a DVI-HDMI conversion cable, there is a possibility that the picture may not display correctly.

### Connecting a component video device

A component (Y, Pb, Pr) picture can be displayed only when a 480i, 480P, 720P, or 1080i signal is received.

#### To connect a component video device:

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



- 3 Connect the other end of the component video cable to the **COMPONENT 1** or **COMPONENT 2** jacks on the back of your TV.
- 4 Connect an audio cable to the **AUDIO OUT** jacks (L/R) on the component device.
- 5 Connect the other end of the audio cable to the **COMPONENT 1** or **COMPONENT 2** audio jacks on the back of your TV.

#### To play from a component device:

- 1 Turn on your TV, then press **INPUT**. The **INPUT SOURCE** menu opens.
- 2 Press **▲** or **▼** to select **Component**, then press **ENTER**.  
**Tip:** You can also press **COMP** once for **COMPONENT 1** or twice for **COMPONENT 2**.
- 3 Turn on the component video device and set it to the correct output mode. See the component video device's user guide for more information.

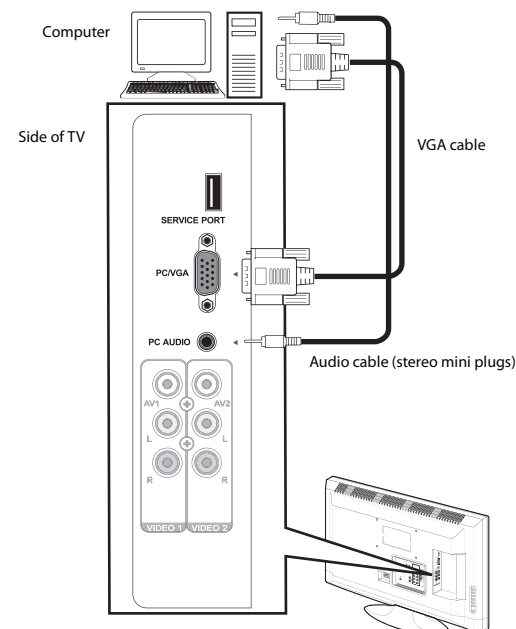
### Connecting a computer

**Tip:** Some computers have an HDMI connector, which can be used for a better picture.

#### To connect a computer:

- 1 Make sure that your TV's power cord is unplugged and the computer is turned off.
- 2 Connect a VGA cable to the **VGA** jack on the computer, then connect the other end of the cable to the **PC/VGA** jack on the side of your TV.

**Note:** The VGA cable should be a 15-pin D-Sub (analog RGB) cable.



- 3 Connect an audio cable to the **AUDIO OUT** jack on the computer, then connect the other end of the cable to the **PC AUDIO** jack on the side of your TV.

**Note:** The audio cable should have a stereo mini plug.

#### To play video from a computer:

- 1 Turn on your TV, then press **INPUT**. The **INPUT SOURCE** menu opens.
- 2 Press **▲** or **▼** to select **VGA**, then press **ENTER**.  
**Tip:** You can also press **VGA** on the remote control.
- 3 Turn on the computer, then adjust the display properties, if necessary.

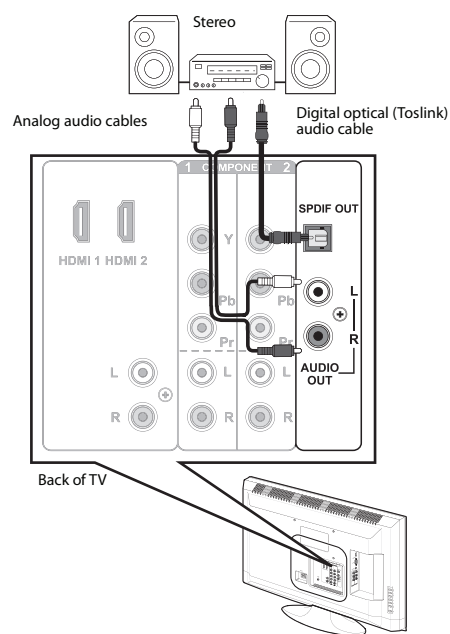
## Connecting an external audio device

### To connect an external audio device:

- 1 Make sure that your TV's power cord is unplugged and the component video device is turned off.
- 2 Connect a digital optical (Toslink) cable to the **SPDIF IN** jack on the digital audio device.

- or -

Connect audio cables (L and R) to the **AUDIO IN** jacks on the analog audio device.



- 3 Connect the other end of the digital optical (Toslink) cable to the **SPDIF OUT** jack on the back of your TV.

- OR -

Connect the other end of the audio cables (L and R) to the **AUDIO OUT** jacks on the back of your TV.

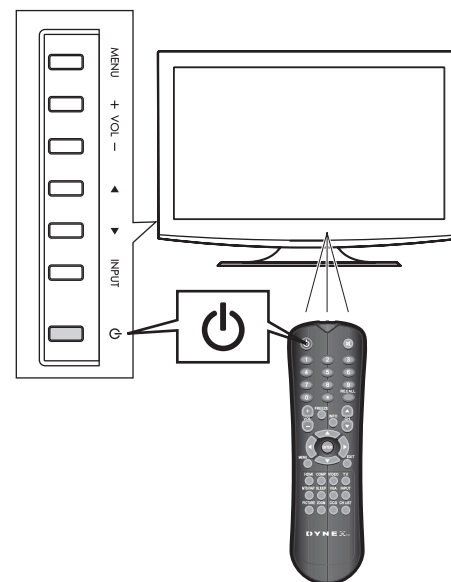
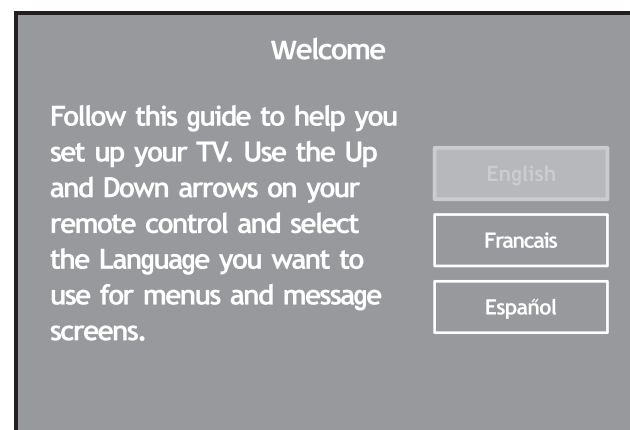
### To play audio from an external audio device:

- 1 Turn on your TV.
- 2 Turn on the external audio device and set it to the correct output mode. See the audio device's user guide for more information.

## Turning on your TV for the first time

### To configure your TV:

- 1 Make sure that you have inserted the batteries in the remote control, connected the antenna to the TV, and connect the AC power.
- 2 Press **⏻** (Power), then wait several seconds. The setup wizard opens (only the first time you turn on your TV) and guides you through setting up your TV's operational settings.



- 3 Follow the on-screen prompts to finish setting up your TV.

### Note:

- Channel auto scan is not necessary if you are using a satellite or cable box.
- If you are using an antenna for a standard or HD TV signal, select **Air**.
- If your signal cable is directly connected to the TV (the tuner box is not used), select **Cable**.



## Understanding the basics

### Turning your TV on or off

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

- 1 Plug the power cord into an AC power outlet.
- 2 Press (Power). Your TV turns on.
- 3 Press (Power) again to turn off your TV. When you turn off your TV, it goes into standby mode.

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

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

### Selecting the video input source

#### To select the video input source:

- 1 Turn on your TV, then press the **INPUT** key on the remote, or the **INPUT** button on the TV. The **INPUT SOURCE** menu opens.
- 2 Press or to highlight the video source, then press **ENTER**. You can also select the input source using the following remote control buttons:
  - **COMP**—Press once to select **COMPONENT 1**, twice to select **COMPONENT 2**.
  - **HDMI**—Press once to select **HDMI 1**, twice to select **HDMI 2**.
  - **VIDEO**—Press once to select **Video1**, twice to select **Video2**.
  - **VGA**—Press to select **PC/VGA**.
  - **TV**—Press to select **TV**.

### On-screen menu overview

Use the on-screen menu to configure the various operational settings of the TV. To access the menu, press **MENU**. The menus and their corresponding functions are described in the following table:

<b>Picture</b>	Settings	Adjust the level of picture brightness, contrast, tint, color, and sharpness.
	Mode	Enable one of five preset viewing options optimized for different viewing conditions.
	Aspect Ratio	Select the default display aspect ratio. For more information, see "Choosing the display format" on page 14.
	Advanced	Enable advanced features for different viewing conditions and adjust the backlight, noise reduction, and color temperature.
	Reset	Reset all picture-related settings to their factory default settings.

<b>Audio<sup>1</sup></b>	Bass/Treble/Balance	Adjust the sound pitch quality and the balance between the left and right speakers.
	MTS <sup>2</sup>	Select the preferred audio stream for viewing analog TV programs.
	Audio Language <sup>3</sup>	Select the language track you prefer for viewing digital TV programs. Available options depend on your digital TV provider.
	Digital Audio <sup>4</sup>	Select the preferred audio format for SPDIF audio signals. SPDIF is only available on digital channels or when using an HDMI device.
	Auto Volume	Select whether to apply the audio settings for all input sources, as well as for both analog and digital TV channels (OFF), or only to the current one (ON).
	TV Speaker	Toggles the TV speaker on and off.
	Audio Only	Enables audio output only, with no video display (such as when listening to a CD or the music from a music program).
	Reset	Reset all audio-related settings to their factory default settings.
<b>Channels<sup>5</sup></b>	Channel List	View the channel list and scan for available TV channels in your area. You can also choose to enable/disable all available channels or enable digital channels only.
	Antenna Scan	Scan for available over-the-air and digital channels in your area.
	Cable Scan	Scan for available cable and digital channels in your area.
<b>Settings</b>	Closed Captions	Configure the settings for closed captioning (CC, also known as subtitles) in TV programs.
	Sleep Timer	Select the duration after which the TV will automatically turn off.
	Menu Language	Select which language to use for on-screen menu display. There are three options: English, French, and Spanish.
	Date & Time	Configure the system clock and time zone settings. You can also choose to enable the Daylight Saving Time (DST) and Date/Time <sup>6</sup> features.
	Input Label	Assign a device label for each of the I/O terminals. These labels will be displayed when you press any of the individual input source keys.
	FW Version	View the TV's serial number and firmware version.
	Reset All <sup>7</sup>	Select Yes on this submenu to reset all operational settings to their default factory value. Do this only if any of the following conditions occurs: <ul style="list-style-type: none"> <li>• The system fails to respond to the remote control (make sure the remote control batteries are still working and that you are within the transmission range).</li> <li>• The new configuration settings caused unexpected results.</li> <li>• You forget the system PIN.</li> </ul>





<b>Locks</b>	Ratings Locks	Set allowable video content for TV programs based on their rating levels. This provides a level of parental control on the kind of programs children can access.
	Change PIN	Use this submenu to change the system PIN in case the original one has been compromised. You will need to key in the original PIN. If you forget the original PIN, you need to perform the Reset All option under the Settings menu.
	Button Lock	Select <b>ON</b> on this menu to lock the control panel on the left side of the TV.
	Reset Locks	Reset all ratings lock settings to their default unlock status.

<sup>1</sup> These settings apply to the TV speakers only, not to any connected audio device.

<sup>2</sup> This menu is only visible when there is an analog TV connection.

<sup>3</sup> This menu is only visible when there is a digital TV connection.

<sup>4</sup> This menu is only visible when there is a digital TV or an HDMI connection.

<sup>5</sup> This menu is only visible when the input source is Tuner (TV connection) and the Channel List panel is populated. Make sure the antenna is properly connected to the TV tuner before you access this menu. If a system PIN has been set up, you will be prompted to key it in before you can perform an antenna or cable scan.

<sup>6</sup> When Date/Time is set to Auto, the date and time settings will be based on the TV broadcast stream.

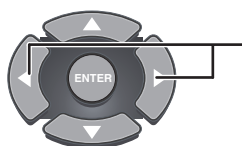
<sup>7</sup> If a system PIN was set up earlier, you will be prompted to enter it to access this submenu. If you have forgotten your PIN, key in **9999**. This is the default PIN.

## Navigating the menus

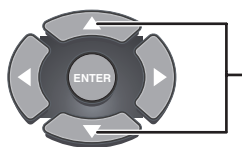
MENU



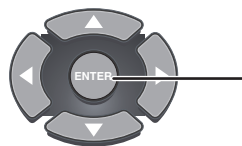
Press to display the on-screen menu.



Press to select menu items, to adjust selected items, or move the on-screen cursor left or right.



Press to select the submenu items.



Press to confirm your selection or enter a submenu

EXIT



Press to close the menu or return to the previous screen.

## Selecting a channel

### To select a channel:

- Press **CH ▲** or **CH ▼** to go to the next or previous channel on the memorized channel list.
- Press the number buttons to enter the analog or digital (main) channel number you want, then wait for the channel to change, or press **ENTER** to change the channel immediately.
  - To select a digital sub-channel, press the number buttons to select the main digital channel, then press the dot (.) button to select the sub-channel. Wait for the channel to change, or press **ENTER** to change the channel immediately.

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

- Press **RECALL** to go to the last channel viewed.

### Digital sub-channels

A digital TV signal transmits more data than an analog signal. This increase in data provides a better picture and sound with less static and interference. The increased data capacity also lets broadcasters fit several channels into the same bandwidth as an analog signal. Broadcasters may use these sub-channels to transmit a variety of information, such as weather forecasts, foreign languages, and commercials. A digital sub-channel is indicated by the main channel number, followed by a dot, then the sub-channel number. For example, 5.1 indicates sub-channel 1 of main channel 5.

## Adjusting the volume

### To adjust the volume:

- Press **VOL+** or **VOL-** to increase or decrease the volume. A bar indicator and volume number shows you the change.
- Press **MUTE** (Mute) to temporarily turn off all sound. Press **MUTE** (Mute) again to restore the sound.

## Displaying additional information

### To display additional information:

- Press **INFO** to show an information banner. The information banner shows current program information such as channel number, video input source, and resolution.
  - Digital mode information—Displays channel number, station name, channel label (if preset), broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, and current program start and end times.
  - Analog mode information—Displays channel number, channel label (if preset), signal type, audio information, and resolution.



## Adjusting the picture

### Choosing the display format

#### To choose the display format:

- Press **ZOOM** repeatedly to cycle through the available display formats. Options include:
  - **Normal**—Picture is displayed in a 4:3 aspect ratio.
  - **Zoom**—Picture is displayed to cover the entire screen.
  - **Wide**—Picture uses a widescreen aspect ratio.
  - **Cinema**—Picture is displayed in a 21:9 aspect ratio.
  - **Auto**—Picture is displayed in its original size. This option is only available when there is a TV signal connection.

#### Notes:

- To view these zoom options, you can also press **MENU**, then select the *Pictures, Aspect Ratio* submenu.
- The default aspect ratio for all input sources, excluding TV, is *Wide*. For TV, the default settings is *Normal*.

### Adjusting Advanced Video settings

Your TV supports advanced video functions so you can tailor the picture to match your viewing habits. You can select a preset picture setting or you can choose to enable any of the advanced picture functions.

#### Selecting a preset picture setting

##### To select a preset picture setting:

- 1 Press **PICTURE** on the remote control. The *Mode* popup opens with the current mode displayed.



- 2 Press **PICTURE** repeatedly to cycle through the optional modes. The display changes as you go through the options. Options include:

- **Vivid**—Increased color and sharpness for a vibrant picture display.
- **Standard**—Picture is viewed in its original display mode.
- **Theater**—Picture quality is suited for viewing under dim lighting conditions to deliver a “movie house” experience.
- **Sport**—High contrast display for clear-cut images ideal for viewing sports events.
- **Energy Saving**—Picture brightness and backlight levels are reduced for a lower power consumption.
- **Custom**—Use this option to apply the settings values you enabled in the Settings and Advanced options of the Picture menu.

**Notes:** To view these video modes, you can also press **MENU**, then select the *Pictures, Mode* submenu.

#### Configuring advanced video functions

##### To configure advanced video functions:

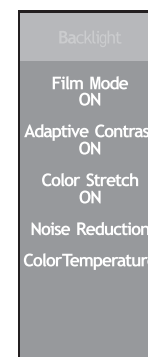
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Picture**, then press **ENTER**. The *Picture* menu opens.



- 3 Press **▲** or **▼** to highlight **Advanced**, then press **ENTER**. The *Advanced* menu opens.



- 4 Press **▲** or **▼** to select an option. Options include:

- **Backlight**—Different viewing conditions can affect the quality of the display. Adjust the LCD backlight to suit the current viewing condition. Select this item, then press **ENTER** to view the feature's adjustment bar. Press **◀** or **▶** to set your preferred backlight level.



- **Film Mode**—This feature improves the appearance of movies converted from film (originally encoded at 24 frames/second) to video, including DVD titles. When enabled, the picture is less jerky and has a cinematic picture quality. Select this item then press **ENTER** to toggle the feature on or off.
- **Adaptive Contrast**—This feature enables automatic contrast adjustment based on the picture brightness. Select this item, then press **ENTER** to toggle the feature on or off.
- **Color Stretch**—This feature allows for a more vivid color display. Select this item then press **ENTER** to toggle the feature on or off.
- **Noise Reduction**—This feature improves picture quality from a weak broadcast signal. Select this item then press to view the feature's adjustment bar. Press **◀** or **▶** to choose your preferred setting.



- **Color Temperature**—Color temperature refers to the level of white balance in the display. Select this item then press to view the feature's adjustment bar.





Press ◀ or ▶ to choose your preferred setting.

- **Cool**—Pictures appear with a bluish tint.
- **Normal**—Pictures appear more white.
- **Warm**—Pictures appear more reddish.

- **Digital Audio**—Select the preferred audio format for SPDIF audio signals. SPDIF is only available on digital channels or when using an HDMI device.
- **Reset**—Resets the audio settings to factory default.

## Freezing the picture

There may be instances when you want to jot down information displayed on the TV but you have no pen handy. In such cases, use the **FREEZE** button to capture the currently displayed image and view it in a separate screen.

### To freeze the picture:

- 1 Press **FREEZE** once to view an image capture of the display in a separate screen while the programming continues to run.
- 2 Press **FREEZE** again to display the image capture using the entire screen.
- 3 To continue with the regular programming, press **FREEZE** one more time.

## Adjusting the sound

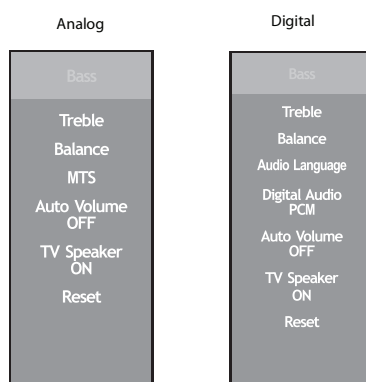
### Adjusting the sound

#### To adjust the sound:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press ◀ or ▶ to highlight **Audio**, then press **ENTER**. The **Audio** menu opens. The list of Audio submenus will vary depending on the type of TV connection—analogue or digital.



- 3 Press ▲ or ▼ to highlight an option, then press **ENTER** to view the adjustment bar for that option or to change the setting. Press ◀ or ▶ to make adjustments. Options include:

- **Bass**—Adjusts the low sounds.
- **Treble**—Adjusts the high sounds.
- **Balance**—Adjusts the balance between the left and right audio channels.
- **Auto Volume**—The TV speaker volume is set automatically.
- **TV Speaker**—Turns the TV speaker on or off.
- **Audio Only**—Turns off the video and lets you listen to the sound only.
- **MTS**—Select the preferred audio stream for viewing analog TV programs.
- **Audio Language**—Select the language track you prefer for viewing digital TV programs. Available options depend on your digital TV provider.

## Changing channel settings

### Automatically scanning for channels

Depending on the type of TV service you're using, you can scan for available channels in your area.

#### Notes:

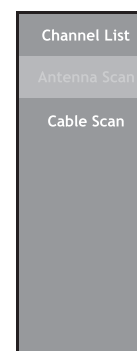
- Make sure the antenna is properly connected to the TV before you start a channel scan.
- If a system PIN has been set up, you will be prompted to key it in before you can perform a channel scan.

#### To auto scan for over-the-air and digital TV channels:

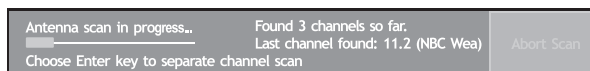
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press ◀ or ▶ to highlight **Channels**, then press **ENTER**. The **Channels** menu opens.



- 3 Press ▲ or ▼ to highlight **Antenna Scan**, then press **ENTER**. You will be prompted to confirm the channel scan.
- 4 Select **Yes**, then press **ENTER** to confirm. Your TV automatically scans for available channels.



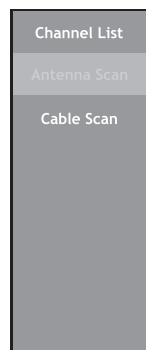
#### To auto scan for cable TV channels:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.

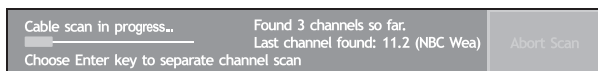




- 2 Press **◀** or **▶** to highlight **Channels**, then press **ENTER**. The **Channels** menu opens.



- 3 Press **▲** or **▼** to highlight **Cable Scan**, then press **ENTER**. You will be prompted to confirm the channel scan.



- 4 Select **Yes**, then press **ENTER**. Your TV automatically scans for available channels.

## Hiding channels

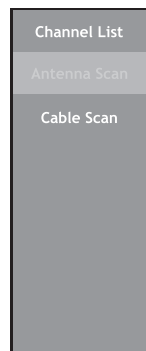
You can hide channels from the channel list so that your TV skips the channels when you press **CH ▲** or **▼**.

### To hide channels:

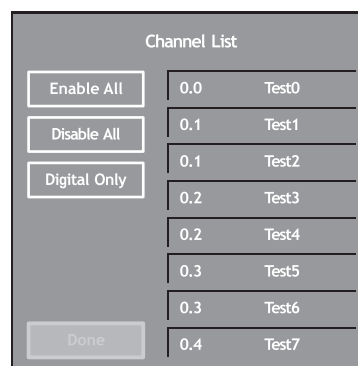
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Channels**, then press **ENTER**. The **Channels** menu opens.



- 3 Press **▲** or **▼** to highlight **Channel List**, then press **ENTER**. The **Channel List** opens.



- 4 Press **▲** or **▼** to select an option. Options include:

- **Enable All**—View all channels when channel browsing.
- **Disable All**—All channels will be hidden.
- **Digital Only**—View only digital channels when channel browsing.

- 5 To exit, select **Done**, then press **ENTER**.

## Setting parental controls

Parental controls let you prevent your children from watching inappropriate material on your 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 PIN.

### Setting or changing the PIN

#### To set the parental controls PIN:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Locks**, then press **ENTER**. The **Enter New PIN** box opens.



- 3 Using the number keys, enter a four-digit PIN number. Write this number down so you don't forget it. You are prompted to enter the number again to confirm it.

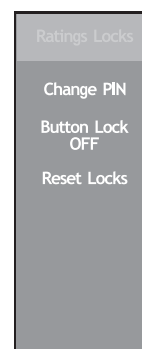




- 4 Enter the PIN again. The *Locks* menu opens.



- 3 Using the number keys, enter the PIN number you set. The *Locks* menu opens.



#### To change the parental controls PIN:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Locks**, then press **ENTER**. The *Enter PIN* box opens.



- 3 Using the number keys, enter the original four-digit PIN number. (If you have forgotten the original PIN, you need to perform a Reset All, from the Settings menu. Key in 9999 when prompted.) The *Enter New PIN* box opens.



- 4 Using the number keys, enter a new four-digit PIN number. Write this number down so you don't forget it. You are prompted to enter the number again to confirm it.



- 4 Press **▲** or **▼** to highlight **Ratings Locks**, then press **ENTER**. The *Ratings Locks* menu opens.



- 5 Press **▲** or **▼** to highlight your location (USA or Canada), then press **ENTER**. One of the following menus opens, depending on which location you selected.



- 6 If you selected USA, press **▲** or **▼** to highlight **USA - TV** or **USA - Movie**, then press **ENTER**.

- OR -

If you selected Canada, press **▲** or **▼** to highlight **CAN - French** or **CAN - English**, then press **ENTER**.

The ratings panel for the sub-menu you selected opens.

- 7 Press **▲**, **▼**, **◀**, or **▶** to select a rating box.

- 8 Press **ENTER** to block the rating of your choice.

## Setting parental control levels

#### To set parental controls:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Locks**, then press **ENTER**. The *Enter PIN* box opens.





- 9 When you are finished, select **Done**, then press **ENTER**.

<b>U.S. TV ratings (age-based)</b>	
These ratings are determined by the Federal Communications Commission (FCC)	
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.

<b>U. S. TV ratings (content-based)</b>	
FV	Fantasy violence.
D	Suggestive dialog.
L	Strong language.
S	Sexual situations.
V	Violence.

<b>U.S. movie (MPAA) ratings</b>	
These ratings are determined by the Motion Picture Association of America (MPAA).	
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.

<b>Canadian English ratings</b>	
These ratings are based on the Canadian Home Video Rating System determined by the Canadian Motion Picture Distributors Association (CMPDA).	
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+	Adults only.

<b>Canadian French ratings</b>	
These ratings are based on the classification categories determined by La Régie du cinéma du Québec.	
G	General audiences.
8 ans+	Suitable for children 8 and older.
13 ans+	Suitable for children 13 and older.
16 ans+	Suitable for children 16 and older.
18 ans+	Adults only.

## Blocking unrated TV

### To block unrated TV:

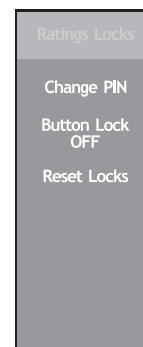
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press ◀ or ▶ to highlight **Locks**, then press **ENTER**. The *Enter PIN* box opens.



- 3 Using the number keys, enter the PIN number you set. The *Locks* menu opens.



- 4 Press ▲ or ▼ to highlight **Ratings Locks**, then press **ENTER**. The *Ratings Locks* menu opens.



- 5 Select **Block Unrated Shows**, then press **ENTER** until the setting changes to **ON**.

## Locking control panel buttons

### To lock control panel buttons:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.

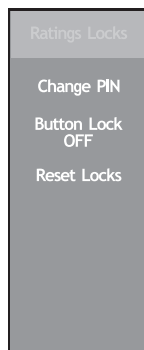


- 2 Press ◀ or ▶ to highlight **Locks**, then press **ENTER**. The *Enter PIN* box opens.





- 3 Using the number keys, enter the PIN number you set. The **Locks** menu opens.



- 4 Press **▲** or **▼** to highlight **Button Lock**, then press **ENTER** until the setting changes to **ON**. Once the panel is locked, all buttons are disabled.

**Note:** Locking control panel buttons does not lock the buttons on the remote control. To unlock the control panel, reverse the locking procedure by using the remote control.

- 3 Press **▲** or **▼** to highlight **Closed Captions**, then press **ENTER**. The **Closed Captions** menu opens.



- 4 Press **ENTER** until **Closed Caption** is **ON**.

**Tip:** You can also press **CCD** on the remote control to turn closed captioning on or off.

## Using closed captioning

Closed captions (CC or subtitles) are primarily intended to provide people who are deaf or hearing impaired access to TV programs. However, this feature is also useful for viewers who are learning a new language, beginning to read, or in a noisy environment. As the picture is shown, text captions are displayed that transcribe speech and often other relevant sounds.

**Note:** Closed caption availability and content depends on the TV provider and may vary across channels and programs.

## Turning closed captioning on or off

To turn closed captioning on or off:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The **Settings** menu opens.



## Selecting the closed captioning mode

To select the closed captioning mode:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The **Settings** menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Captions**, then press **ENTER**. The **Closed Captions** menu opens.





- 4 Press **▲** or **▼** to highlight **Caption Preference**, then press **ENTER**. The *Closed Caption Preference* menu opens.



- 5 Press **▲** or **▼** to select an option. Options include:
- **Always Basic**—Use the CC Basic Selection setting. This setting can show either **captions (CC)**—an on-screen display of the program's dialogue, narration, and sound effects, or **text**—an on-screen display of information not related to the current program, such as weather forecast or news bulletins.
  - **Always Advanced**—Use the CC Advanced Selection setting. This option is only available for digital TV programs.
  - **Automatic**—Use the program's default CC content.

### Customizing DTV closed captioning styles

You can customize the way DTV closed captioning is displayed.

#### To customize DTV closed captioning:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



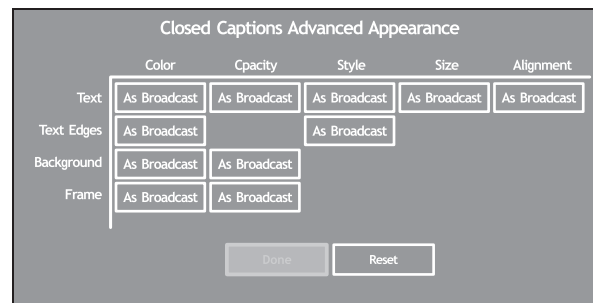
- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Captions**, then press **ENTER**. The *Closed Captions* menu opens.



- 4 Press **▲** or **▼** to highlight **Advanced Appearance**, then press **ENTER**. The *Closed Caption Advanced Appearance* menu opens.



- 5 Press **▲**, **▼**, **◀**, or **▶** to select the aspect of the closed caption display you want to customize, then press **ENTER** to cycle through the available options for the aspect you selected.
- 6 When you are finished, select **Done**, then press **ENTER**.

### Adjusting time settings

Use the Date & Time menu to set the TV clock and time zone settings.

**Note:** When the Date/Time option under the Settings, Date & Time menu is set to **ON**, the clock setting is automatically synched with the TV broadcast signal. The Set Date and Set Time options are disabled.

#### Setting the TV clock

##### To set the TV clock:

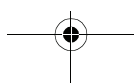
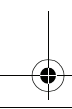
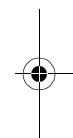
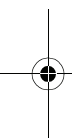
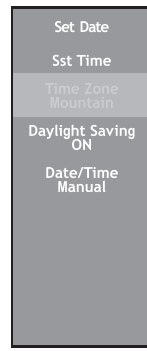
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The *Settings* menu opens.



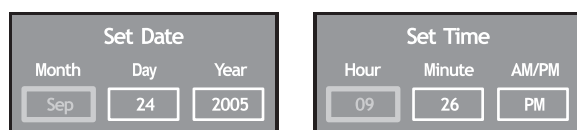
- 3 Press **▲** or **▼** to highlight **Date & Time**, then press **ENTER**. The *Date & Time* menu opens.







- 4 Press **▲** or **▼** to select **Set Date** or **Set Time**, then press **ENTER**. The *Set Date* or *Set Time* box opens.



- 5 Press **◀** or **▶** to select the date or time segment you want to change, then press **▲** or **▼** to adjust the setting. For **Day**, **Hour**, and **Minute** settings you can use the number keys to input the numerical values.
- 6 Press **ENTER** to apply the new clock setting.

## Setting the sleep timer

You can specify the amount of time you want your TV to wait before it automatically turns off.

### To set the sleep timer:

- 1 Press **SLEEP** on the remote control. The *Sleep Timer* popup screen opens.



- 2 Press the **SLEEP** button repeatedly to toggle each timer setting on. Options include: 10, 15, 30, 45, 60, 90, 120, 180, and 240 minutes; and OFF (sleep timer is disabled). Your TV will automatically turn off after the interval specified.

**Note:** To view these sleep timer settings, you can also press **MENU**, and select the *Settings*, *Sleep Timer* submenu.

## Adjusting menu settings

### Selecting the menu language

#### To select the on-screen menu language:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Menu Language**, then press **ENTER**. The *Menu Language* menu opens.



- 4 Press **▲** or **▼** to select the language you prefer, then press **ENTER** to apply the new language setting.

### Labeling an input source

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

#### To label an input source:

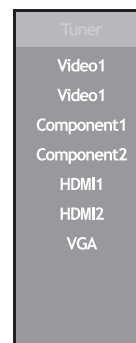
- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The *Settings* menu opens.

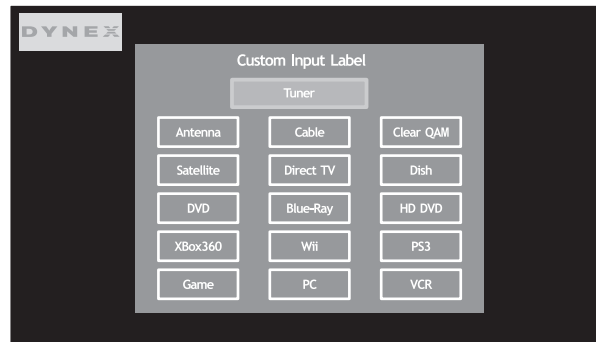


- 3 Press **▲** or **▼** to highlight **Input Label**, then press **ENTER**. The *Input Label* menu opens.



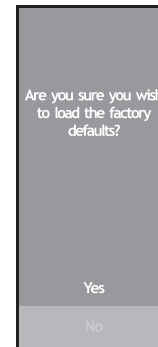


- 4 Press **▲** or **▼** to select the input source you want to assign a label to, then press **ENTER**. The *Custom Input Label* screen for that input source opens.



- 5 Press **▲**, **▼**, **◀**, or **▶** to select a label for the input source, then press **ENTER** to apply the new label.
- 6 Repeated Steps 3–5 to apply labels to other input sources. These labels are displayed when you press **INPUT** or any of the individual input source keys.

**Note:** If you have forgotten your PIN, the default number is **9999**.



- 5 Press **▲** or **▼** to select **Yes**, then press **ENTER** to load the default menu settings.

After the system reset the Welcome prompt appears. Perform a channel scan to reload the channels to your TV and then access the on-screen menus to reconfigure the TV settings.

## Restoring default settings

**Caution:** When you restore default settings, all the settings (except the password and parental rating) you have customized are reset.

To restore default settings:

- 1 Press **MENU** on the remote control, or **MENU** on the control panel of your TV. The on-screen menu bar opens.



- 2 Press **◀** or **▶** to highlight **Settings**, then press **ENTER**. The *Settings* menu opens.

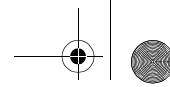


- 3 Press **▲** or **▼** to highlight **Reset All**, then press **ENTER**. You are asked for your PIN.
- 4 Enter your PIN number. A confirmation box opens.

## Troubleshooting

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

Problem	Solution
No power	<ul style="list-style-type: none"> <li>Make sure that the power indicator is illuminated blue.</li> <li>Make sure that the power cord is securely connected to the AC-in jack and is plugged into a functional AC outlet. You may want to plug in another electrical device to the power outlet to verify that it is supplying the proper voltage.</li> </ul>
Power is suddenly turned off	Press <b>MENU</b> and select <b>Settings, Sleep Timer</b> to make sure the <b>Leave TV Off</b> option is selected.
Your PIN is compromised	<ol style="list-style-type: none"> <li>Press <b>MENU</b> and select <b>Settings, Reset All</b>, and then <b>Yes</b>.</li> <li>Access the on-screen menu again and select <b>Locks</b>.</li> <li>Key in and reconfirm your new PIN.</li> </ol>
Remote control does not work	<ul style="list-style-type: none"> <li>Replace the batteries. For more information, see "Installing remote control batteries" on page 6.</li> <li>Make sure that the batteries are inserted correctly. For more information, see "Installing remote control batteries" on page 6.</li> <li>Make sure that the power cord is plugged into an AC power outlet.</li> </ul>
The remote control code cannot be detected by a universal remote	<ul style="list-style-type: none"> <li>Purchase a separate learning remote control.</li> <li>Go to <a href="http://www.dynexproducts.com">www.dynexproducts.com</a> for a list of remote control codes.</li> </ul>



Problem	Solution
No picture	<ul style="list-style-type: none"> <li>Make sure that the video input cable is correctly connected to the appropriate terminal, and that the correct input mode is enabled. To illustrate, when a VGA cable is connected to display a computer screen, the PC input mode must be enabled.</li> <li>In TV mode, verify that the antenna is correctly connected and that the preferred channel is enabled in the channel list. Press <b>MENU</b> and select <b>Channels, Channel List</b>.</li> <li>Press <b>MENU</b> and select <b>Picture</b> to adjust the display settings.</li> <li>If you are using a Macintosh computer that is older than a G3 model, you need a Macintosh adapter.</li> </ul>
No picture or the <i>No Signal</i> message appears when a VGA cable is connected	<ul style="list-style-type: none"> <li>Make sure that the VGA cable is correctly connected to the TV's VGA port.</li> <li>Decrease the video resolution setting on the computer and try again.</li> <li>Press <b>MENU</b> and select <b>Picture</b> to adjust the display settings.</li> <li>Decrease the video resolution setting on the computer and try again.</li> </ul>
The picture is cut off or appears in a sidebar screen	<ul style="list-style-type: none"> <li>Press <b>ZOOM</b> and make sure that the <b>Normal</b> option is selected.</li> </ul>
Poor image quality in TV mode (such as a cutoff picture, snowy images)	<ul style="list-style-type: none"> <li>Check your antenna connection. If necessary, rotate the antenna and wait up to ten seconds for a signal.</li> <li>Reduce the use of signal splitters and excessively long cables.</li> <li>Replace poor antenna cables and/or connectors to improve signal quality.</li> <li>Press <b>ZOOM</b> and make sure that the <b>Normal</b> option is selected.</li> <li>Press <b>MENU</b>, select <b>Picture, Advanced</b>, then adjust the <b>Noise Reduction</b> setting.</li> <li>In HDMI mode, make sure that the external device is compatible with your TV.</li> </ul>
Wrong, abnormal, or missing colors	<ul style="list-style-type: none"> <li>If any colors (such as red, green, or blue) are missing, check the video cable to make sure that it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.</li> <li>Press <b>MENU</b> and select <b>Picture, Settings</b> to adjust the <b>Tint</b> and <b>Color</b> settings. You can also select <b>Picture, Advanced</b> to adjust the <b>Color Temperature</b> setting.</li> <li>Connect the TV to another computer and check to determine if the problem is with the computer screen.</li> </ul>
No sound	<ul style="list-style-type: none"> <li>Make sure that the audio input cable is correctly connected to the appropriate terminal and that the correct input mode is enabled.</li> <li>The volume may be muted, press <b>Mute</b> or the <b>Vol+</b> key to turn on the volume.</li> <li>Press <b>MENU</b> and select <b>Audio</b> to adjust the <b>Bass</b>, <b>Treble</b>, and <b>Balance</b> settings.</li> <li>If you are using the TV speakers, press <b>MENU</b> and select <b>Audio</b> to make sure that the <b>TV Speakers</b> option is set to <b>ON</b>.</li> <li>If you are using an external audio device, press <b>MENU</b> and select <b>Audio</b> to make sure that the <b>TV Speakers</b> option is set to <b>OFF</b>, then make sure that the volume on the external audio device is turned on.</li> </ul>

**Notes:**

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

Contact us by logging on to [www.dynexproducts.com](http://www.dynexproducts.com) or by calling DYNEX Customer Service at (800) 304-2204 (USA and Canada only).

## Maintenance

Just like with any other household appliance, the performance and life-expectancy of your TV depends on how well you maintain it. Follow the procedures described here to clean the TV case and the LCD screen.

**Cautions:**

- Make sure that the TV is turned off and the power cord is disconnected from the power outlet before cleaning the TV.
- Never spray or pour any liquid directly onto the screen or the case.

## Cleaning

- Clean your TV with a soft, dry cloth. If surfaces are extremely dirty, use a soft cloth dampened with a small amount of non-ammonia, non-alcohol-based, mild, non-abrasive detergent.
- Clean the screen with a clean, soft, lint-free cloth. If additional cleaning is necessary, apply a small amount of non-ammonia, non-alcohol-based glass cleaner onto a clean, soft, lint-free cloth, then wipe the screen.

## Specifications

Design and specifications are subject to change without notice. Dimensions and weight are approximate.

<b>TV model</b>	DX-L321-10A	
<b>TV panel</b>	Type	31.5-inch Active matrix WXGA TFT LCD
	Resolution	1366 x 768 (RGB vertical stripe)
	Color	16.2 million
	Viewing angle	176° horizontal, 176° vertical
	Contrast ratio	3000:1
<b>Brightness</b>		400 nits
	<b>Response time</b>	8.5 ms
	<b>Audio/video input terminals</b>	VGA (75 ohms, 0.7 Vp-p) + PC audio-in (mini-stereo) H/V separated (TTL) for PC; fh: 30-63 kHz, fv: 50-75 Hz HDMI 1 and HDMI 2 + RCA (L/R) stereo
<b>TV tuner</b>	Component 1 (Y,Pb,Pr) and Component 2 (Y,Pb,Pr) + RCA (L/R) stereo	
	Composite 1 and Composite 2 + two RCA (L/R) stereo	
	RCA (L/R) stereo	
<b>Audio/video output terminals</b>	SPDIF (optical)	
<b>Speaker output</b>	5W x 2 channels	
<b>Image processor</b>	ATI Xilleon™ 241	
<b>TV system support</b>	NTSC and ATSC	
<b>TV compatibility</b>	480i, 480P, 720P, 1080i	



<b>PC compatibility</b>	Recommended	1360 x 768 @ 60 Hz
	(reduced blanking)	1366 x 768 @ 60 Hz
	Supported	1280 x 720 @ 60 Hz
	H = 30-63 KHz	1024 x 768 @ 60 Hz
	V = 50-75 Hz	720 x 400 @ 70 Hz
		640 x 480 @ 60, 75 Hz
<b>Power voltage</b>	120 VAC, 60 Hz, 3A	
<b>Power consumption</b>	On	<150 W (blue illumination)
	Off in energy saving mode	<1 W
<b>Preset timing mode</b>	Pre-adjusted to reduce blanking - 1366 x 768 @ 60 Hz	
<b>Operating conditions</b>	Temperature	59 to 95°F (15 to 35°C) (humidity <75%)
	Relative humidity	20 to 90% non-condensing (Ta <35%)
	Altitude	0 to 6562 ft. (0 to 2000 m)
<b>Storage conditions</b>	Temperature	68 to 140°F (20 to 60°C) (humidity <35%)
	Relative humidity	10 to 90% non-condensing
	Altitude	0 to 39370 ft (0 to 12,000 m)
<b>Physical specifications</b>	Dimensions (WxDxH)	With base: 30.7 x 8.27 x 21.9 in (780 x 210 x 556 mm)
	Weight (net)	Without base: 30.7 x 4.17 x 20 in (780 x 106 x 508 mm)
		With base: 24.5 lb (11.1 kg)
		Without base: 23.4 lb (10.6 kg)
<b>Regulatory compliance</b>	UL/C-UL and FCC-B	

**Canada ICES-003 statement**

This Class B digital apparatus complies with Canadian ICES-003. Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

**Notices**

Specifications and features are subject to change without notice or obligation.

For service and support call (800) 305-2204.

**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-L321-10A** ("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 30 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, Canada, and Mexico.

### 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

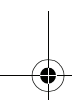
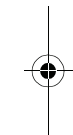
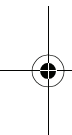
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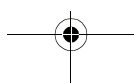
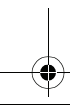
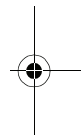
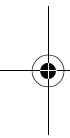
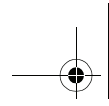
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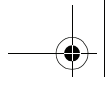
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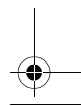
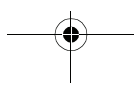
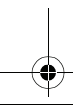
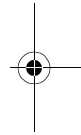
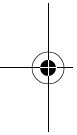
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*One-year limited warranty*



**DYNEX™**

[www.dynexproducts.com](http://www.dynexproducts.com) (800) 305-2204

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