

**DYNE X**™ ●●●

22" LCD TV with DVD Player

**DX-LTDVD22-09**

**USER GUIDE**

# Dynex DX-LTDVD22-09

## 22" LCD TV with DVD Player

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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).

#### CAUTION - Laser safety:

This digital video player employs a laser system. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location—see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to the laser beam, do not try to open the enclosure. Radiation may be present when the enclosure is opened. Do not stare into the beam.

## Important safety instructions

- 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 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 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.



S3125A

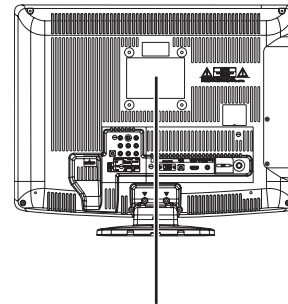
13) Unplug this apparatus during lightning storms or when unused for long periods of time.

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) Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.

#### Location of the required marking

The rating sheet and the safety caution are on the rear of the unit.



Certification: Complies with FDA radiation performance standards, 21 CFR Subchapter J

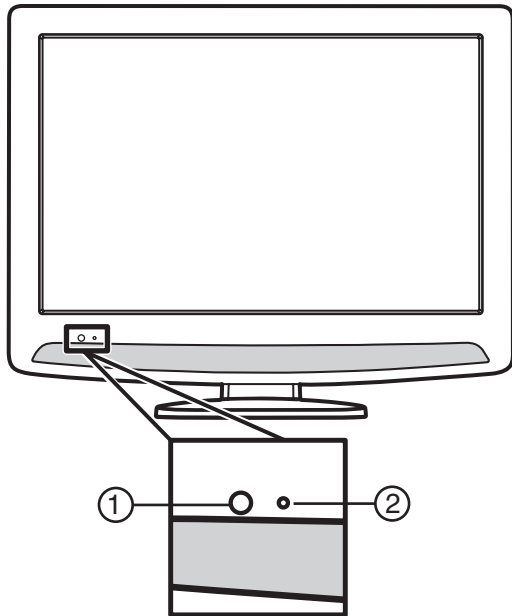
# Features

## Accessories

- Remote control
- AAA batteries (2)
- AC power cord
- *User Guide*

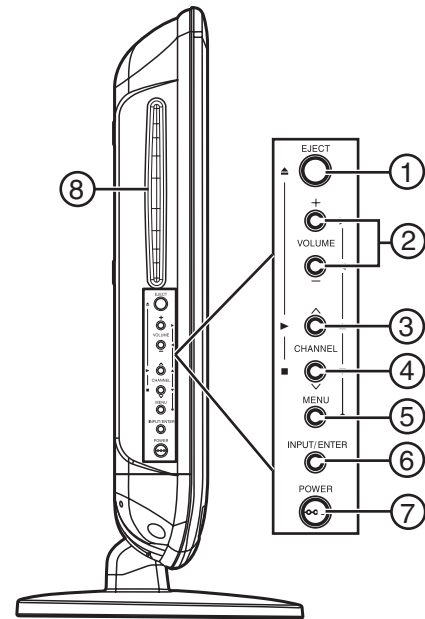
**Note:** Cables are not supplied. You can purchase cables at most electronics stores.

## Front



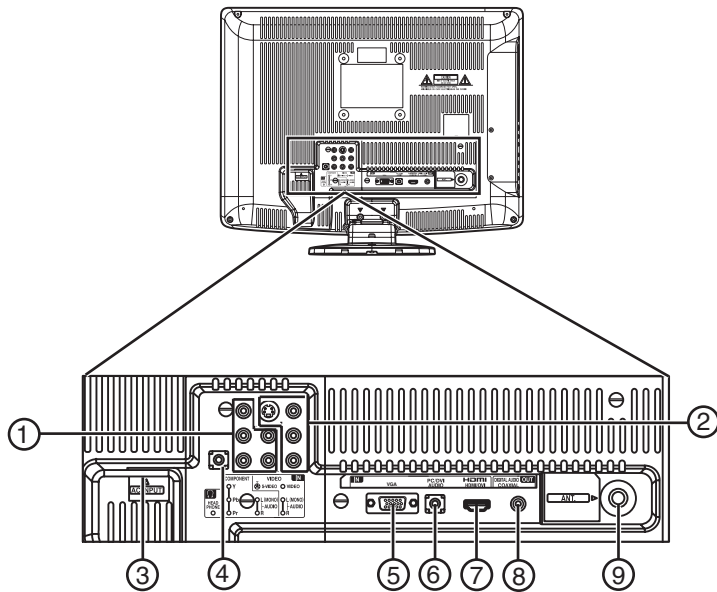
#	Component	Description
1	Remote control sensor	Receives signals from the remote control. Do not block.
2	Power indicator LED	Lights green when your TV is turned on.

## Left side



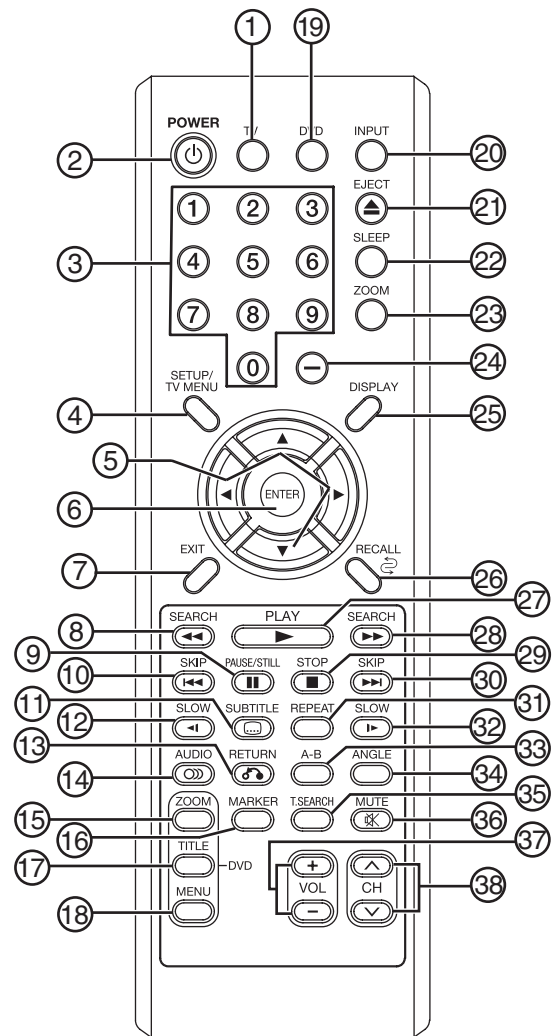
#	Component	Description
1	EJECT ▲	Press to eject the disc from the DVD player.
2	VOLUME +/-	In TV or DVD modes, press to increase (+) or decrease (-) the volume. In menu mode, press to navigate the menus and select settings.
3	CHANNEL ▲ / ► (PLAY)	In TV mode, press to tune to the next higher channel in the channel list. For information about creating the channel list, see "Memorizing channels" on page 11. In DVD mode, press to begin playback. In menu mode, press to select a menu.
4	CHANNEL ▼ / ■ (STOP)	In TV mode, press to tune to the next lower channel in the channel list. For information about creating the channel list, see "Memorizing channels" on page 11. In DVD mode, press to stop playback. In menu mode, press to select a menu.
5	MENU	Press to open the on-screen menus.
6	INPUT/ENTER	In TV or DVD mode, press to select the video input source. In menu mode, press to confirm a selection.
7	POWER	Press to turn your TV on or off.
8	Disc slot	Insert a disc in this slot to start playback.

## Back



#	Jack	Description
1	COMPONENT/AUDIO IN	Connect the component output cables (Y, Pb, Pr) and audio cables (L/R) from an external AV source to these jacks.
2	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.
3	AC INPUT	Plug the power cord into this socket.
4	Headphone jack	Plug your headphones into this jack.
5	VGA IN	Connect the VGA cable from a computer to this port.
6	PC/DVI AUDIO IN	Connect the audio output from a computer or DVI source to this jack.
7	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>AUDIO IN L/R</b> jacks.
8	DIGITAL AUDIO OUT (COAXIAL)	Connect a digital audio device to this jack.
9	RF (ANT) IN	Connect a TV antenna or cable TV cable to this jack.

## Remote control



#	Button	Description
1	TV	Press to change to TV mode.
2	POWER	Press to turn your TV on or off.
3	Numbers	Press to enter a channel number. If you want to select a digital sub-channel, press — to select the sub-channel.
4	SETUP/TV MENU	In TV mode, press to open the menus. In DVD mode, press to open the initial setup mode.
5	▲ ▼ ◀ ▶	Press to navigate in the on-screen menu.
6	ENTER	Press to confirm option settings in the on-screen menu.
7	EXIT	Press to exit the on-screen menus or reset the information on a menu to the previous settings.
8	SEARCH ◀◀	Press to fast reverse DVD or CD playback.
9	PAUSE/STILL	Press to pause playback of a disc.
10	SKIP  ◀◀	Press to skip back a chapter (DVD) or track (CD).
11	SUBTITLE	Press to cycle through the available subtitle languages on a DVD.

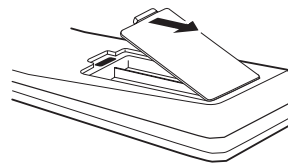
#	Button	Description
12	SLOW ◀	Press to slow reverse playback of a DVD.
13	RETURN	Press to exit the DVD setup menus.
14	AUDIO	Press to cycle through the languages available on a DVD.
15	ZOOM	Press to zoom in the picture.
16	MARKER	Press to open a marker dialog box, which lets you mark three scenes on a DVD to access directly.
17	TITLE	In DVD mode, press to open the top menu.
18	MENU	In DVD mode, press to open the DVD setup menu.
19	DVD	Press to change to DVD mode.
20	INPUT	Press to open the Input Source Select menu.
21	▲ EJECT	Press to eject the disc from the DVD player.
22	SLEEP	Press to set the sleep timer.
23	ZOOM	Press to open the Picture Size menu where you can choose the size of the picture.
24	-	Press to access TV digital sub-channels.
25	DISPLAY	For TV or DVD, press to display information about the TV program or the DVD playing.
26	RECALL	In TV mode, press to switch between the current and last channel viewed.
27	PLAY ▶	Press to begin playback of a DVD or CD.
28	SEARCH ▶▶	Press to fast forward DVD or CD playback.
29	STOP ■	In DVD mode, press to stop playback.
30	SKIP ▶▶	Press to skip forward a chapter (DVD) or track (CD).
31	REPEAT	Press to select the playback mode.
32	SLOW ▶	Press to slow the playback of a DVD.
33	A-B	Press to repeat a specific portion of a DVD or CD. Press once to set the beginning point, then press again to set the end point.
34	ANGLE	Press to view a DVD from an alternate angle (if available).
35	T.SEARCH	Press to find a specific title, chapter, or time on a DVD.
36	MUTE	Press to mute the sound. Press again to restore the sound.
37	VOL +/-	Press to increase (+) or decrease (-) the volume.
38	CH ▲/▼	Press to go to the next or previous channel in the TV channel list.

## Setting up your TV

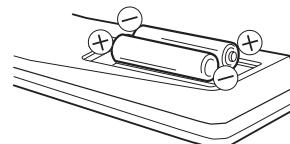
### Installing remote control batteries

To install remote control batteries:

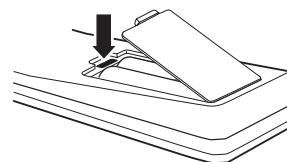
- 1 Open the battery compartment.



- 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 Close the battery compartment.



**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.

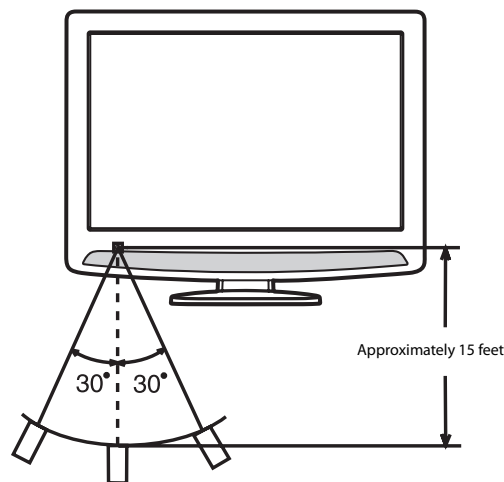
If you do not intend to use the remote control for an extended period of time, remove the batteries to prevent leakage.

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 15 feet of your TV.



**Caution**

Do not expose the remote control to liquids, direct sunlight, or shock.

**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 at 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 the power

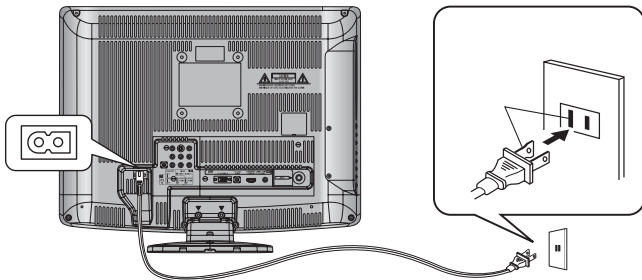
### Notes:

Make sure to insert the cord securely at both the LCD TV and the power outlet.

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

### To connect power:

- 1 Plug the AC cord into the TV's AC IN jack.
- 2 Connect the AC cord into an AC power outlet.



### Warnings:

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

Do not use with a voltage other than the power voltage displayed on the marking label of the TV. 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:

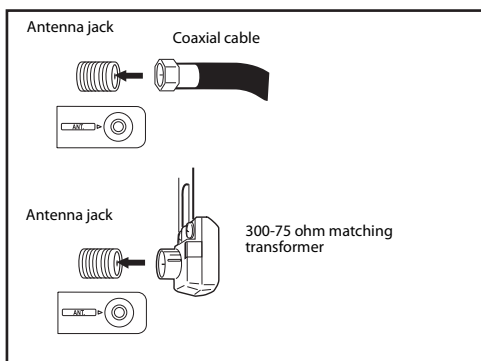
When this TV is not used for a long time, (such as, away on a trip) in the interest of safety, make sure that you unplug it from the AC outlet.

If you need to replace the supplied AC 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 **ANT.** 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:

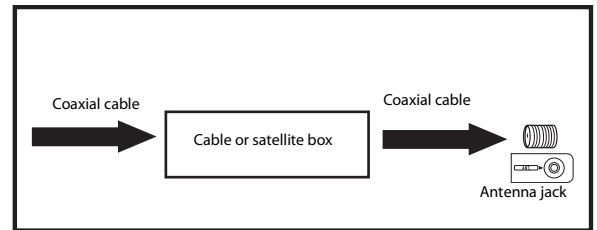
- 1 Connect the UHF 300 ohm twin-lead wire to the combiner (not supplied).
- 2 Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm matching transformer.
- 3 Attach the transformer to the combiner, then attach the combiner to the **ANT.** jack on the back of your TV.

## 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:

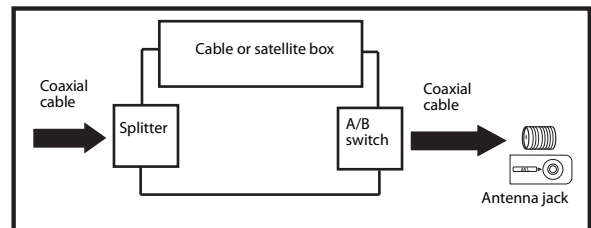
- 1 Connect a 75 ohm cable to the cable or satellite TV wall jack, then connect the other end to the **Antenna IN** jack on the cable or satellite TV box.



- 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 **ANT.** 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.

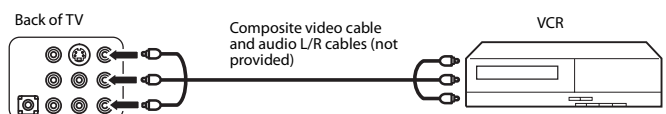


## Making audio and video connections

### Connecting a composite video device

#### To connect a composite video device:

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



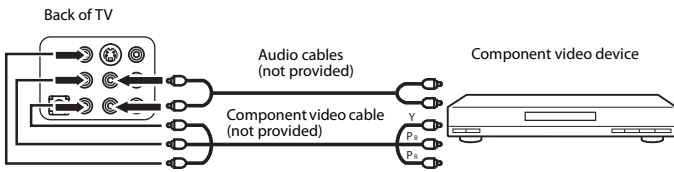
- 2 Connect an RCA audio cable to the **AUDIO L** and **R** jacks on the video device, then connect the other end of the cable to the audio portion of the **AUDIO L (MONO)** and **R IN** jacks on the back of your TV.



### Connecting a component video device

To connect a component video device:

- 1 Connect a component video cable to the **COMPONENT VIDEO OUT** (Y, Pb, and 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.



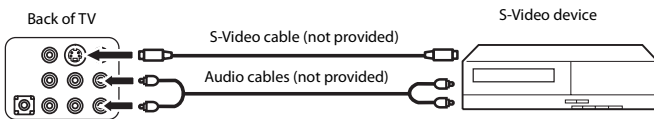
- 2 Connect an RCA audio cable to the **AUDIO L** and **R** jacks on the component video device, then connect the other end of the cable to the **AUDIO L (MONO)** and **R** jacks on the back of your TV. Make sure that you connect the audio cable to the audio jacks associated with the component jacks you connected the component video cable to.

**Note:** Your TV accepts 480i, 480p, 720p, and 1080i video signals.

### Connecting an S-Video device

To connect an S-Video device:

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



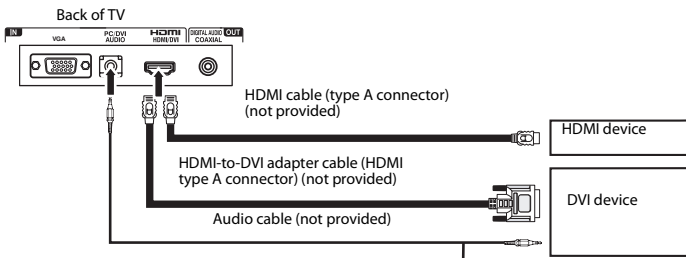
- 2 Connect one end of an audio cable to the **AUDIO OUT L/R** jacks on the S-Video device, then connect the other end of the cable to the **AUDIO L (MONO)** and **R** jacks that are near the S-Video jack you connected the S-Video cable to.

**Note:** If you connect an S-Video device and a standard video device to the TV, the S-Video device has priority.

### Connecting an HDMI or DVI device

To connect an HDMI or DVI device:

- 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/DVI IN** jack on the back of your TV.
- When you connect to a DVI device with an HDMI-to-DVI adapter cable, it transfers only video signal. Separate analog audio cords required.



**Notes:**

When using HDMI/DVI to connect your HDMI or DVI devices, you must select the corresponding audio input source (HDMI or DVI) on the menu screen (see "To select the HDMI audio input source:" on page 22). Otherwise, you only see the image with no sound.

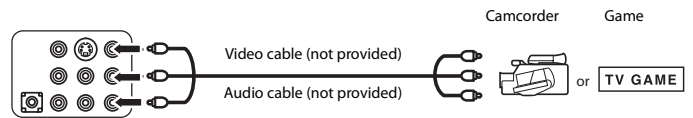
If you connect an external component (such as a cable box or satellite receiver) to this LCD TV using an HDMI cable or a DVI-to-HDMI cable, the image will not display if the output resolution of the component is set to 480i. To receive the picture, you must change the output resolution on the external component.

If you need further instruction, contact the manufacturer of the external component.

### 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.

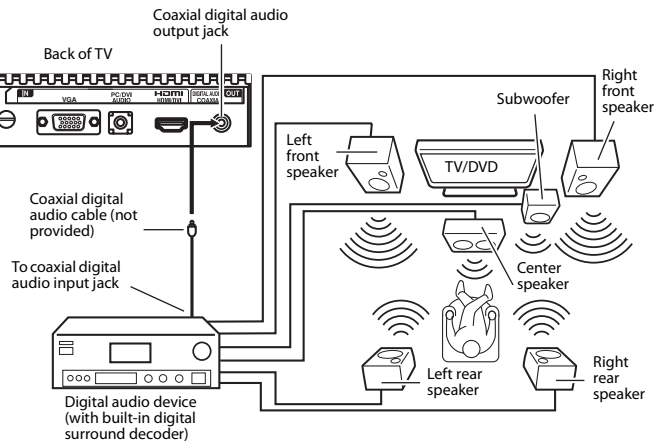


- 2 Connect one end of an audio cable to the **AUDIO OUT** jacks on the camcorder, camera, or VCR, then the other end of the cable to the **AUDIO L/R IN** jacks on the back of your TV. Make sure that you connect the audio cable to the audio jacks associated with the video jack you connected the video cable to.

### Connecting a digital audio device

To connect a digital audio device:

- Connect one end of a digital audio coaxial cable to the **DIGITAL AUDIO IN** jack on the audio device, then connect the other end of the cable to the **COAXIAL DIGITAL AUDIO OUTPUT** jack on the back of your TV.

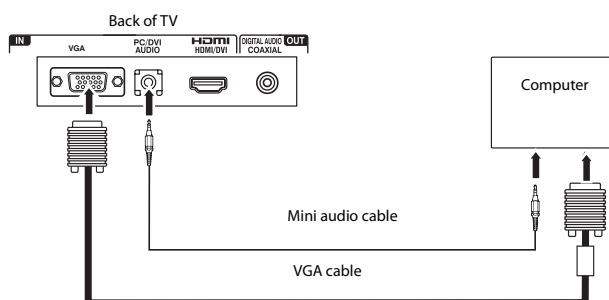


## Connecting a computer

The TV can operate as the computer monitor.

### 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 **PC/DVI AUDIO IN** jack on the back of your TV.
- 3 Press **INPUT SELECT** on the remote control to select **PC** mode. Turn on the computer.
- 4 To return to normal mode, press **INPUT** again and select another mode.

### Notes:

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

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

Mode	Resolution	Refresh rate
VGA	640 × 480	60 Hz
VGA	720 × 400	70 Hz
SVGA	800 × 600	60 Hz
XGA	1024 × 768	60 Hz
WXGA	1280 × 768	60 Hz
WXGA	1280 × 720	60 Hz
WXGA	1360 × 768	60 Hz

**Note:** This TV does not support Plug and Play connection to PC. Also, the PC may need to be set for proper resolution, based on above chart.

## Using your TV

### About the $\circ$ symbol

The  $\circ$  symbol may appear on your TV display during operation and indicates that the function is not permitted by your player or specific media.

### Turning your TV on or off

#### To use your TV:

- 1 Plug in your TV (see "Connecting the 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 15 minutes, your TV goes into Standby mode.

- 3 Adjust the volume by pressing **VOL+** or **-**. You can also press **MUTE** to turn off the sound. The TV's sound turns off and "Mute" appears on the screen. The sound can be turned back on by pressing this button again or the **VOL +** or **-**.
- 4 Set the signal type to the appropriate position (see "To select the signal type:" on page 11).
- 5 Select a channel by pressing **CH**  $\wedge$  or  $\vee$ . The channel automatically stops at the next channel set into memory. See "Memorizing channels" on page 11.

- OR -

Select a channel by pressing the number buttons (0-9). (If you press only the channel number, channel selection is delayed for a few seconds.)

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. Example, to select channel 120, press **1, 2, 0**.

To select digital channels:

Press the first three digits, then press the **-** button, followed by the remaining number. For example, to select channel 015-001, press **0, 1, 5, -, 0, 0, 1**.

- If a channel with only audio content is selected, "Audio only" is displayed on the screen.
- If a channel with a weak digital signal is selected, "Digital channel signal strength is low" is displayed on the screen.
- The same program may be available on either an analog channel or a digital channel. You can choose to watch either format.
- If a channel to which you have not subscribed is selected, "Digital channel is encrypted" is displayed on the screen.

Air	Cable
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC
	14-36 (A) (W)
	37-59 (AA) (WW)
	60-85 (AAA) (ZZZ)
	86-94 (86) (94)
	95-99 (A-5) (A-1)
	100-125 (100) (125)
	01 (5A)

### Notes:

If a channel with no broadcast is selected, the sound is automatically muted.

It may take a few seconds for a digital channel picture to appear on the screen after being selected.

- 6 Select the video input source by pressing **INPUT**, then press  $\blacktriangle$  or  $\blacktriangledown$  or the corresponding number buttons (**0-5**), then press **ENTER**. You can select **TV**, **Video**, **Component**, **HDMI**, **PC**, or **DVD**, depending on which input jacks you used to connect your devices and which devices are connected.
- 7 Press **DISPLAY** to display information about the program on the screen.
  - Digital information includes channel number, channel label (if preset), broadcast program name, V-chip rating, signal type, sleep timer, audio language, program guide, picture size, and resolution. Analog information includes channel

number, channel label (if preset), V-chip rating, signal type, sleep timer, picture size, audio information (stereo or SAP), and resolution.

Press **DISPLAY** again to clear the display, or wait a few seconds and the TV returns to normal operation automatically.

- 8 Press **RECALL** to go back to the last channel you were watching, and press **RECALL** again to return to the original channel.
- 9 Press **SLEEP** on the remote control to set the TV to turn off after a specified interval. The interval increases with each press of the **SLEEP** button (**Off, 0h 5m, 0h 10m, 0h 15m, 0h 30m, ..., 4h 0m**). After the sleep timer is programmed, the display appears briefly to remind you that the sleep timer is operating. To confirm the sleep timer setting, press **SLEEP** and the remaining time is displayed for a few seconds. To cancel the sleep timer, press **SLEEP** repeatedly until the display turns to **Off**.

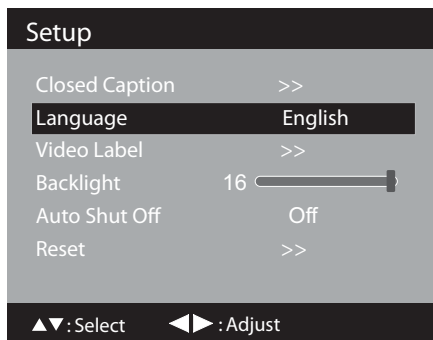
## Setting up for the first time

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 Make sure that your TV is plugged in and connected to an antenna, cable TV, or satellite TV.
- 2 Press **POWER**. You may have to wait a few seconds for your TV to initialize.
- 3 Press **TV** to select **TV mode**.
- 4 Press **SETUP/TV MENU**. The initial on-screen menu opens.
- 5 Press **▲** or **▼** to select **Setup**, then press **▶** or **ENTER**. The *Setup* menu opens.



**Note:** When you press **SETUP/TV MENU** the first time after purchasing this TV, the above screen opens automatically.

- 6 Press **▲** or **▼** to select **Language**.
- 7 Press **◀** or **▶** to select **English, French (Français), or Spanish (Español)**.
- 8 Press **EXIT/CANCEL** to return to normal viewing.

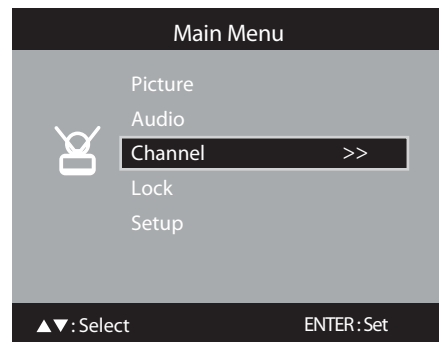
### Memorizing channels

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

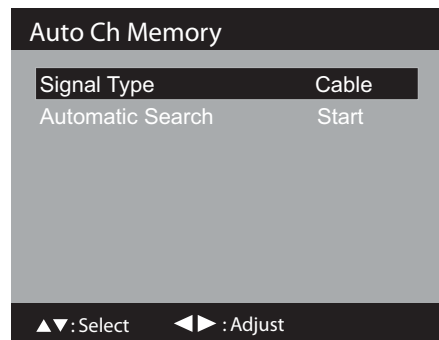
#### To select the signal type:

- 1 Make sure that your TV is plugged in and connected to an antenna, cable TV, or satellite TV.
- 2 Press **POWER**. You may have to wait a few seconds for your TV to initialize.
- 3 Press **TV** to select **TV mode**.

- 4 Press **SETUP/TV MENU**. The initial on-screen menu opens.



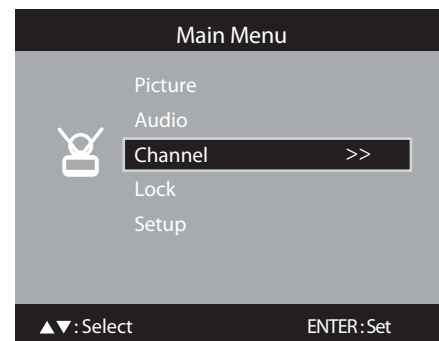
- 5 Press **▲** or **▼** to select **Channel**, then press **▶** or **ENTER**.
- 6 Press **▲** or **▼** to select **Auto Ch Memory**, then press **▶** or **ENTER**. The *Auto Ch Memory* menu opens.



- 7 Press **▲** or **▼** to highlight **Signal Type**, then press **◀** or **▶** to select **Air** or **Cable**.
- 8 Press **EXIT** to return to normal viewing.

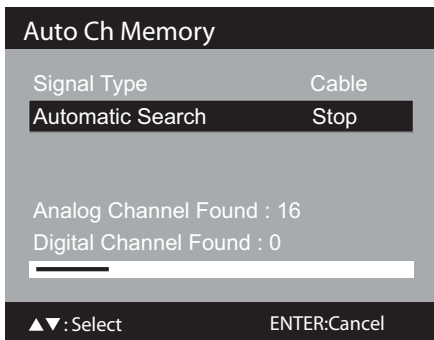
#### To automatically scan for and memorize channels:

- 1 Make sure that your TV is plugged in and connected to an antenna, cable TV, or satellite TV.
- 2 Press **POWER**. You may have to wait a few seconds for your TV to initialize.
- 3 Press **TV** to select **TV mode**.
- 4 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 5 Press **▲** or **▼** to select **Channel**, then press **▶** or **ENTER**.

- 6 Press ▲ or ▼ to select **Auto Ch Memory**, then press ► or **ENTER**. The *Auto Ch Memory* menu opens.



- 7 Press ▲ or ▼ to highlight **Automatic Search**, then press ► or **ENTER**.

The TV begins memorizing all of the channels available in your area. It may take about 5 minutes to complete memorizing digital cable channels. Depending on the reception condition, a bar display may not advance for several minutes.

**Notes:**

*Memorizing channels is best accomplished during evening "Primetime" hours, because more stations are broadcasting digital signals at that time. Channel memorization can only be accomplished while a station is broadcasting a digital signal.*

*If you are unsure of the digital channels available in your area, you can visit [www.antennaweb.org](http://www.antennaweb.org) to receive a list based on your address or Zip code.*

*New digital channels may be added to your area periodically. We recommend that you perform the "Automatic Search" procedure regularly.*

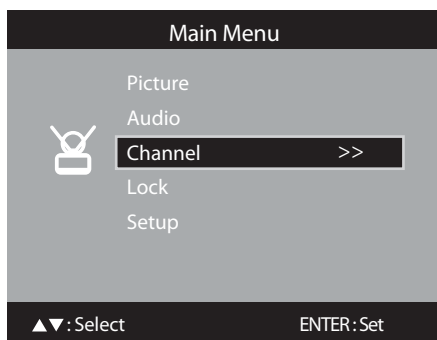
*All channel labels are cleared when you automatically scan for channels.*

### Adding channels

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

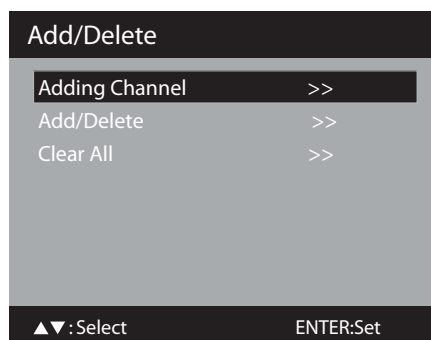
**To add a new channel to memory:**

- 1 In TV mode, tune to the new channel.
- 2 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 3 Press ▲ or ▼ to select **Channel**, then press ► or **ENTER**.

- 4 Press ▲ or ▼ to select **Add/Delete**, then press ► or **ENTER**. The *Add/Delete* menu opens.

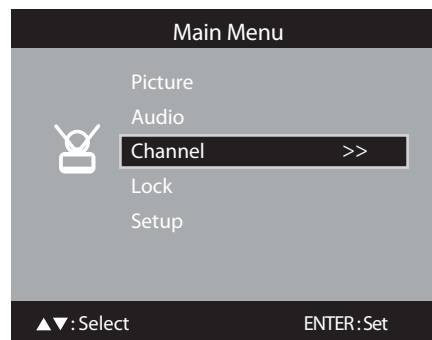


- 5 Press ▲ or ▼ to highlight **Adding Channel**, then press ► or **ENTER**. The new channel is added to the channel memory.
- 6 Press **EXIT** to return to normal viewing.

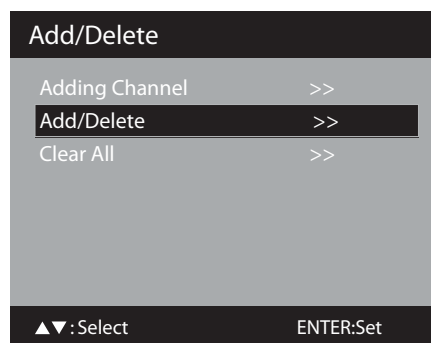
### Deleting channels

You can select a channel that you want to delete from the channel list.  
**To delete a channel from the channel list:**

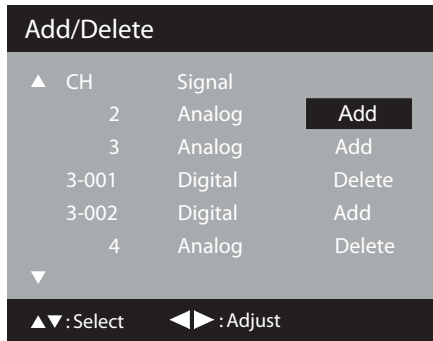
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press ▲ or ▼ to select **Channel**, then press ► or **ENTER**.
- 3 Press ▲ or ▼ to select **Add/Delete**, then press ► or **ENTER**. The *Add/Delete* menu opens.



- Press **▲** or **▼** to highlight **Add/Delete**, then press **▶** or **ENTER**. The *Add/Delete* menu opens.



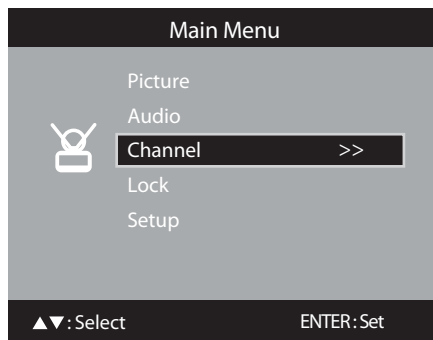
- Press **▲** or **▼** to select the channel you want to delete, then press **◀** or **▶** to select **Delete**.
- Repeat Steps 4 and 5 to select other channels you want to delete.
- Press **EXIT** to return to normal viewing.

### Deleting all channels from channel memory

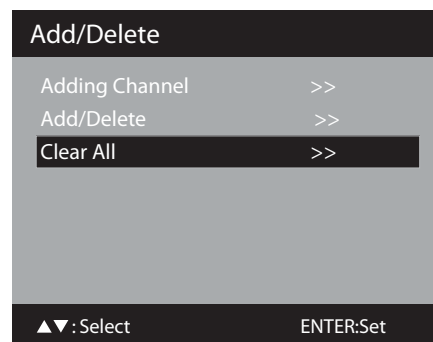
You can delete all channels from the channel list.

#### To delete all channels from the channel list:

- Press **SETUP/TV MENU**. The initial on-screen menu opens.



- Press **▲** or **▼** to select **Channel**, then press **▶** or **ENTER**.
- Press **▲** or **▼** to select **Add/Delete**, then press **▶** or **ENTER**. The *Add/Delete* menu opens.



- Press **▲** or **▼** to highlight **Clear All**, then press **▶** or **ENTER**. All channels are cleared from channel memory.
- Press **EXIT** to return to normal viewing.

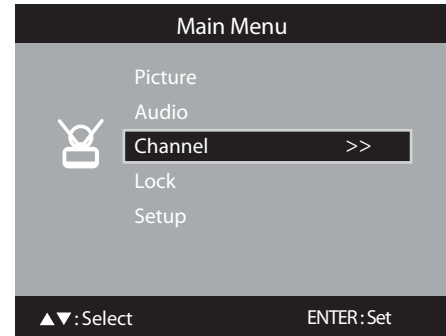
## Changing the TV settings

### Labeling the channels

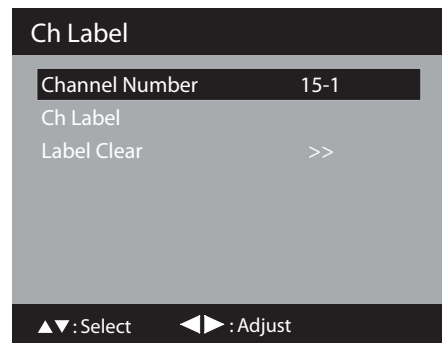
Channel labels appear with the channel number display each time you turn on the TV, select a channel, or press **DISPLAY**. You can choose any four characters to identify a channel.

#### To label a channel:

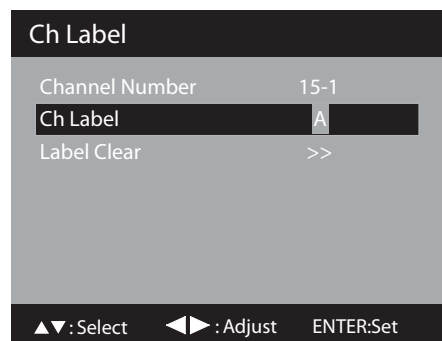
- Press **SETUP/TV MENU**. The initial on-screen menu opens.



- Press **▲** or **▼** to select **Channel**, then press **▶** or **ENTER**.
- Press **▲** or **▼** to select **Ch Label**, then press **▶** or **ENTER**. The *Ch Label* menu opens.



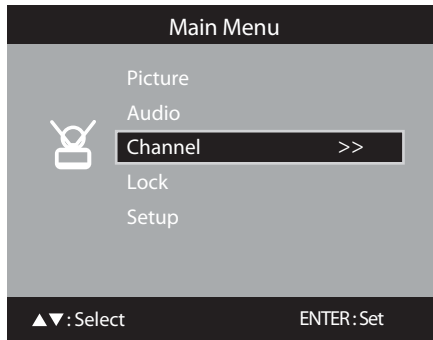
- Press **◀** or **▶** to select the channel you want to label, then press **▼**.



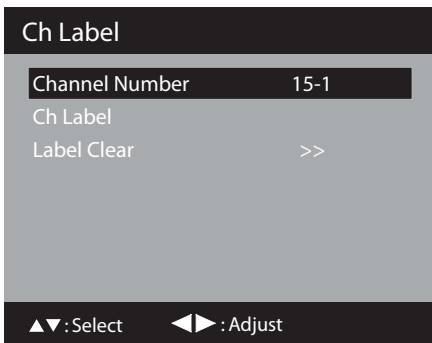
- Press **◀** or **▶** repeatedly until the first character of the channel label you want appears in the first space, then press **ENTER**.
- Repeat Step 5 until you have entered all four characters of the channel label.
- When you finish entering the channel label, press **EXIT** to return to normal viewing.
- Repeat Steps 4 through 7 for any additional channels you want to label. You can label all memorized channels.

**To delete a channel label:**

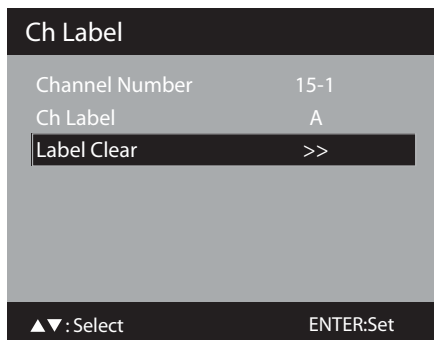
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press ▲ or ▼ to select **Channel**, then press ► or **ENTER**.
- 3 Press ▲ or ▼ to select **Ch Label**, then press ► or **ENTER**. The *Ch Label* menu opens.



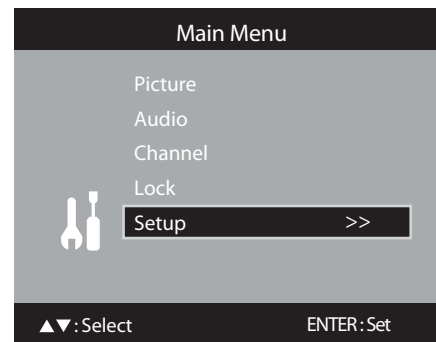
- 4 Press ◀ or ▶ to select the channel from which you want to delete the label, then press ▼. The *Ch Label* menu opens.



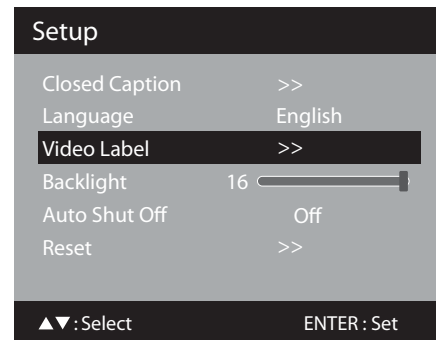
- 5 Press ▲ or ▼ to highlight **Label Clear**, then press ► or **ENTER**. The channel label is deleted.
- 6 When you finish deleting the channel label, press **EXIT** to return to normal viewing.

**Labeling video inputs****To label video inputs:**

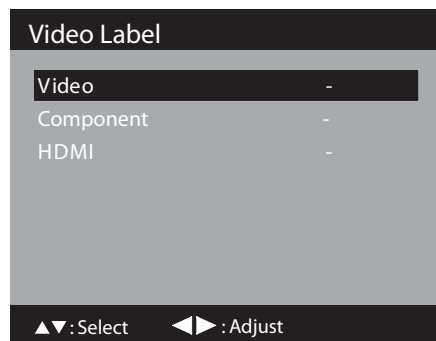
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press ▲ or ▼ to select **Setup**, then press ► or **ENTER**. The *Setup* menu opens.



- 3 Press ▲ or ▼ to select **Video Label**, then press ► or **ENTER**. The *Video Label* menu opens.



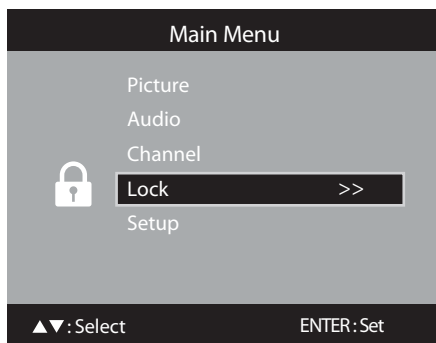
- 4 Press ▲ or ▼ to select the input which you want to label.
- 5 Press ◀ or ▶ to select the label you want for that input. Options include:
  - **VCR**—Video cassette recorder
  - **DVD**—DVD video
  - **DTV**—Digital TV set-top box
  - **SAT**—Satellite box
  - **CBL**—Cable box
  - **HD**—HDMI device (only for HDMI inputs)
- 6 When you finish labeling the video input, press **EXIT** to return to normal viewing.

## Setting parental controls (V-chip)

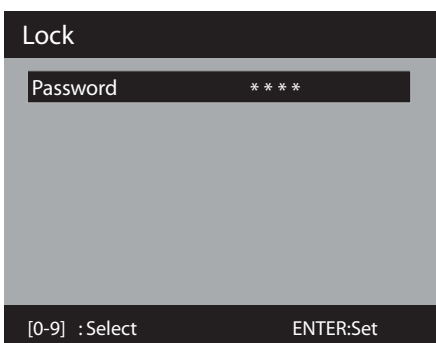
You can set an age limitation on your TV to restrict children from viewing or hearing violent scenes or pictures that you choose to exclude. The restriction applies to "TV Rating" and "Movie Rating," if this data is transmitted. You may set this restriction separately. To use the V-chip feature, you must set and use a password.

### To set a password:

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



- 2 Press **▲** or **▼** to select **Lock**, then press **▶** or **ENTER**. The *Password* screen opens.



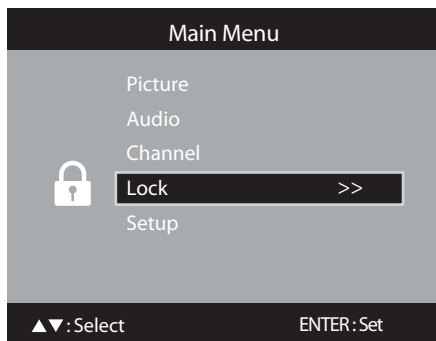
- 3 Select and enter your password using the number buttons (**0-9**), then press **ENTER**. Asterisks (\*) appear on the screen instead of the numbers you enter.
- 4 When the confirmation screen opens, re-enter the same password, then press **ENTER** again. Your password is now set.

### Notes:

If you forget the password, contact Customer Service for assistance. Your original remote control will be required. To avoid forgetting the password, write it down and keep in a safe place.

### To set the parental controls (V-Chip):

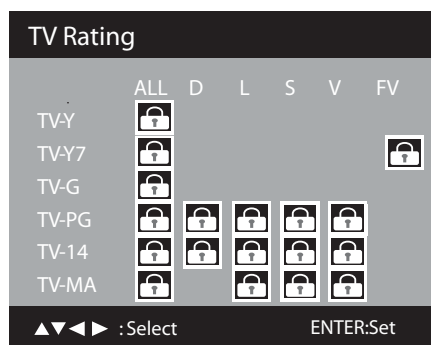
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press **▲** or **▼** to select **Lock**, then press **▶** or **ENTER**. The *Password* screen opens.
- 3 Enter your password using the number buttons (**0-9**), then press **ENTER**. The *Lock* menu opens.
- 4 Press **▲** or **▼** to select **V-Chip Set**, then press **◀** or **▶** to select **ON**.

- 5 Press **▲** or **▼** to select **TV Rating** or **Movie Rating**, then press **▶** or **ENTER**.

If you are setting the TV Rating, the following screen opens:



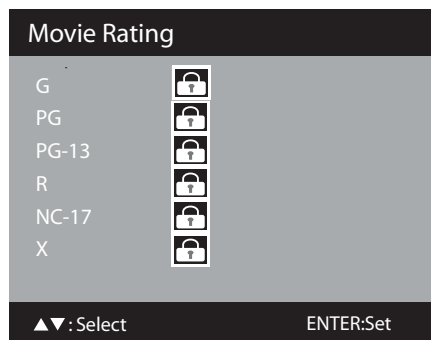
Set the following TV ratings based on the age:

- **TV-Y**—All children
- **TV-Y7**—7 years old and above
- **TV-G**—General audiences
- **TV-PG**—Parental guidance suggested
- **TV-14**—14 years old and above
- **TV-MA**—17 years old and above

Set the following TV ratings based on genre:

- **ALL**—All
- **D**—Dialogue
- **L**—Language
- **S**—Sex
- **V**—Violence
- **FV**—Fantasy Violence

- 6 If you are setting the Movie Rating, the following screen opens:



Set the following movie ratings based on the age:

- **G**—All ages
- **PG**—Parental guidance
- **PG-13**—Parental guidance for children under 13 years old
- **R**—Parental guidance for children under 17 years old
- **NC-17**—17 years old and above
- **X**—Adults only

- 7 Press **▲**, **▼**, **◀**, or **▶** to select the desired rating, then press **ENTER**.

- 8 Press **EXIT** to return to normal viewing.

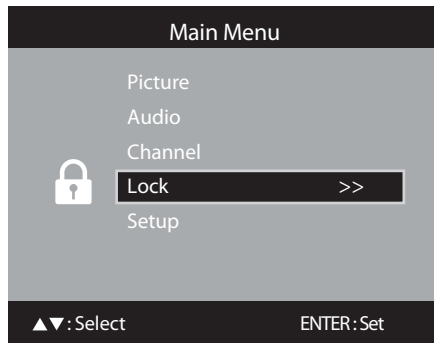
When a program is received that is blocked by the V-Chip, press **MUTE**, then enter your password. The protection is temporarily overridden. If the TV is turned off or the channel is changed, the V-chip restriction will be reactivated.

### Note:

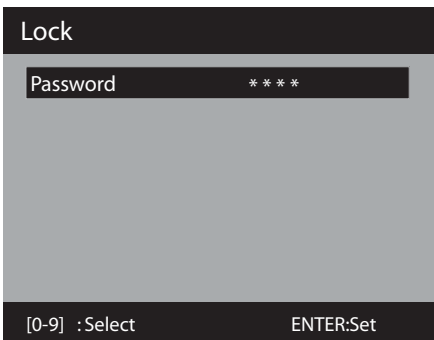
The V-chip feature is activated only on programs and input sources that include a rating signal.

**To change your password:**

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



- 2 Press ▲ or ▼ to select **Lock**, then press ► or **ENTER**. The *Password* screen opens.



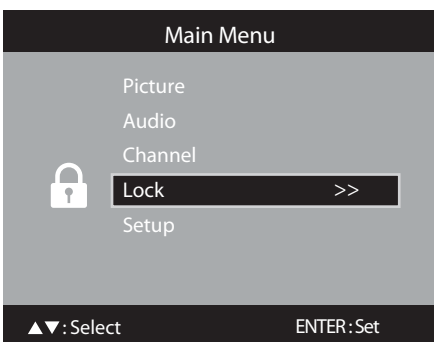
- 3 Enter your password using the number buttons (**0-9**), then press **ENTER**. The *Lock* menu opens.
- 4 Press ▲ or ▼ to select **Change Password**, then press ► or **ENTER**. The *Change Password* screen opens.
- 5 Enter your new password using the number buttons (**0-9**), then press **ENTER**.
- 6 When the confirmation screen opens, re-enter the same password, then press **ENTER** again. Your password is now changed.

**Downloading an additional V-chip rating system**

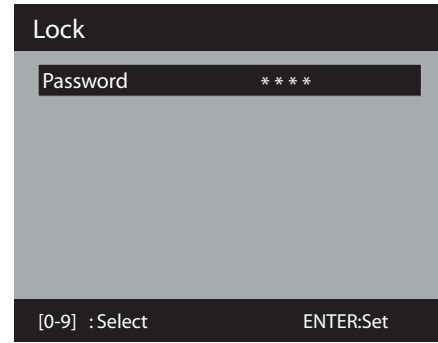
As a supplement to the standard V-chip rating system, your television will be able to download an additional rating system, if such a system becomes available in the future.

**To download an additional V-chip rating system (when available):**

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



- 2 Press ▲ or ▼ to select **Lock**, then press ► or **ENTER**. The *Password* screen opens.



- 3 Enter your password using the number buttons (**0-9**), then press **ENTER**. The *Lock* menu opens.
- 4 Press ▲ or ▼ to select **V-Chip Set (DTV)**, then press ► or **ENTER**. If your TV does not have the new rating system, it begins downloading the new rating system. This may take several minutes to complete.
- 5 Set your preferred level of control using the new rating system.

**Notes:**

*You can only download the additional V-chip rating system when your TV is receiving a digital signal.*

*The V-Chip rating information and system are not determined or controlled by the TV.*

*The standard V-chip rating system is available whether your TV is receiving a digital signal or not. It blocks both analog and digital programs.*

*The downloadable V-chip rating system is an evolving technology, and availability, content, and format may vary.*

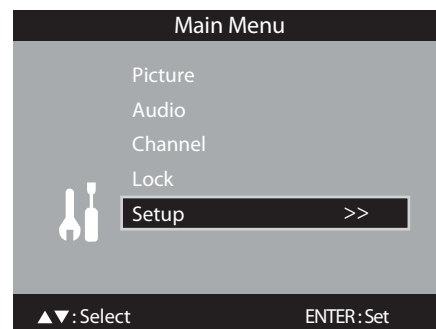
**Using closed captioning**

This television has the capability to decode and display closed captioned television programs. Closed captioning displays text on the screen for hearing impaired viewers or it can translate and display text in another language.

- **Captions**—This closed caption mode displays text on the screen in English or another language. Generally, closed captions in English are transmitted on C1 and closed captions in other languages are transmitted on C2.
- **Text**—This closed caption mode usually fills half of the screen with a programming schedule or other information.

**To set closed captioning:**

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



- 2 Press ▲ or ▼ to select **Setup**, then press ► or **ENTER**. The *Setup* menu opens.
- 3 Press ▲ or ▼ to select **Closed Caption**, then press ► or **ENTER**. The *Closed Caption* menu opens.
- 4 Press ◀ or ▶ to select **CC Setting**.
  - **On**—Captions are displayed on the screen.
  - **Off**—Captions are not be displayed on the screen.



- 5 Press **▲** or **▼** to select **Analog Caption** or **Digital Caption**.
  - Analog Caption options include **C1, C2, C3, C4, T1, T2, T3,** and **T4**.
  - Digital Caption options include **CS1, CS2, CS3, CS4, CS5,** and **CS6**.

- 6 Press **◀** or **▶** to select the closed caption mode you want for both analog and digital captions.
- 7 Press **▲** or **▼** to select **CC Priority**, then press **◀** or **▶** to select **Digital CC** or **Analog CC**.

*Note: Depending on the broadcast signal, some analog captions can function with a digital broadcast signal. This step prevents the two types of captions from overlapping.*

- 8 Press **EXIT** to return to normal viewing.

**Notes:**

*If the program or video you selected is not closed captioned, no captions are display on-screen.*

*If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the **CC Setting** to **Off**.*

*When selecting closed captions, the captioning will be delayed about 10 seconds.*

*If no closed caption signal is received, no captions appear, but the television remains in the Caption mode.*

*Misspellings or unusual characters may occasionally appear during closed captioning. This is normal with closed captioning, especially with live programs. This is because during live programs, captions are entered live. These transmissions do not allow time for editing.*

*When captions are being shown, on-screen displays such as volume and mute may be seen but may interfere with closed captions.*

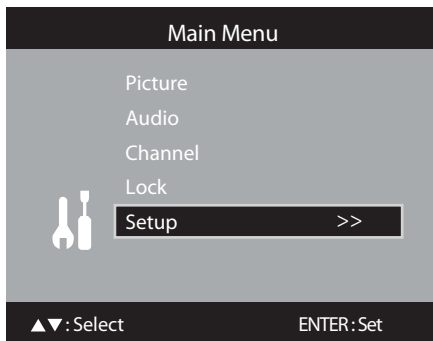
*Some cable systems and copy protection systems may interfere with the closed captioned signal.*

*If you use an indoor antenna, or if TV reception is very poor, the closed caption decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.*

**Changing advanced closed caption options**

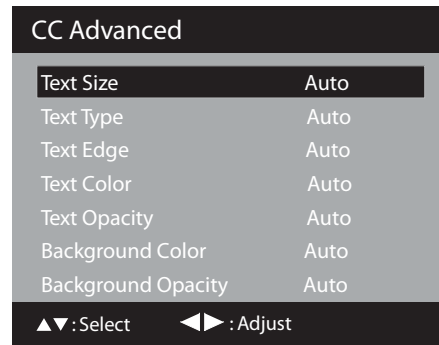
**To change advanced closed caption options:**

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



- 2 Press **▲** or **▼** to select **Setup**, then press **▶** or **ENTER**. The *Setup* menu opens.
- 3 Press **▲** or **▼** to select **Closed Caption**, then press **▶** or **ENTER**. The *Closed Caption* menu opens.
- 4 Press **▲** or **▼** to select **Digital CC Preset**, then press **◀** or **▶** to select **Custom**.

- 5 Press **▲** or **▼** to select **CC Advanced**, then press **▶** or **ENTER**. The *CC Advanced* menu opens.



- 6 Press **▲** or **▼** to select the item you want to change, then press **◀** or **▶** to change the setting. You can choose from the following options:

- **Text Size**—Auto, Small, Standard, Large
- **Text Type**—Auto, Style1, Style2, Style3, Style4, Style5, Style6, Style7
- **Text Edge**—Auto, None, Raised, Depressed, Uniform, Left Shadow, Right Shadow
- **Text Color**—Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
- **Text Opacity**—Auto, Solid, Transparent, Translucent, Flashing
- **Background Color**—Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
- **Background Opacity**—Auto, Solid, Transparent, Translucent, Flashing

- 7 Press **EXIT** to return to normal viewing.

**Notes:**

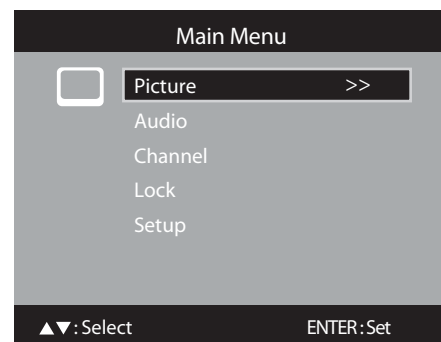
*You cannot set both the **Text Color** and **Background Color** the same color.*

*You cannot set both **Text Opacity** and **Background Opacity** to **Transparent**.*

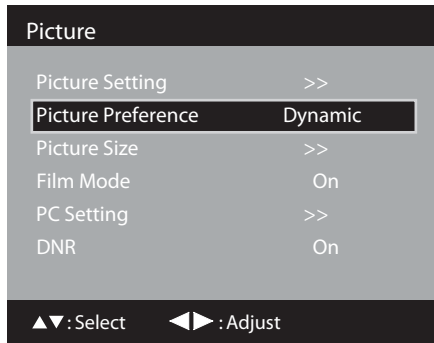
**Changing picture settings**

**To set the picture mode:**

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



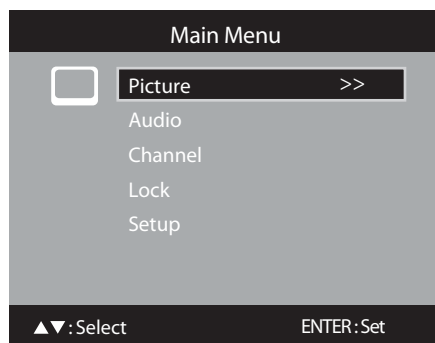
- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The *Picture* menu opens.



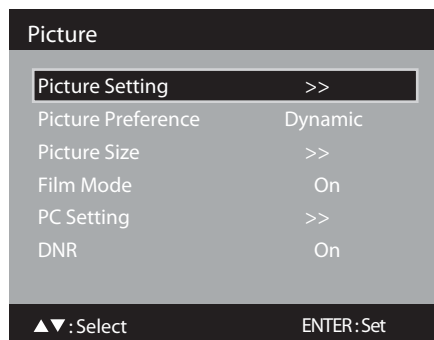
- 3 Press **▲** or **▼** to select **Picture Preference**, then press **◀** or **▶** to select the preset picture mode you want. Options include:
- **Dynamic**—A bright and dynamic picture
  - **Standard**—Standard picture quality
  - **Movie**—A movie-like picture setting
  - **Memory**—Sets your personal preferences (see “To set custom picture settings:” on page 18)
- 4 After you have set the picture mode, press **EXIT** to return to normal viewing.

#### To set custom picture settings:

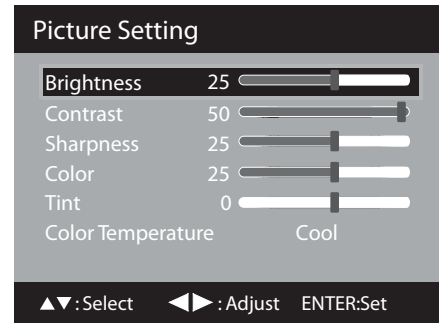
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The *Picture* menu opens.



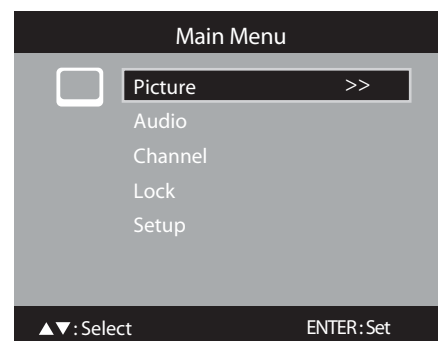
- 3 Press **▲** or **▼** to select **Picture Setting**, then press **▶** or **ENTER**. The *Picture Setting* menu opens.



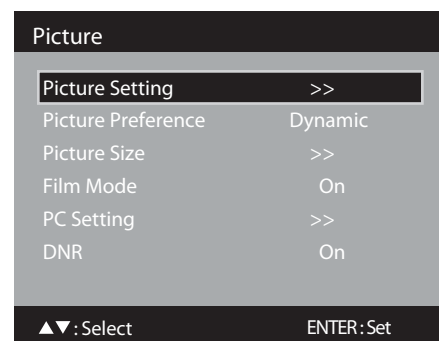
- 4 Press **▲** or **▼** to select the option you want to adjust, then press **◀** or **▶** to make the adjustment. Available options include:
- **Brightness**—Lets you adjust the overall picture brightness
  - **Contrast**—Lets you adjust the overall picture contrast (the default setting is maximum)
  - **Sharpness**—Lets you adjust the picture focus
  - **Color**—Lets you adjust the color intensity of the picture
  - **Tint**—Lets you adjust the overall tint (red-green) of the picture
- 5 Press **ENTER** to return to the *Picture Setting* menu. Repeat Step 4 to adjust additional settings.
- 6 After making the adjustments you want, press **EXIT** to return to normal viewing.

#### To set the color temperature:

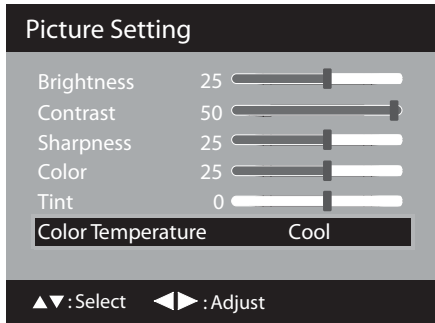
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The *Picture* menu opens.



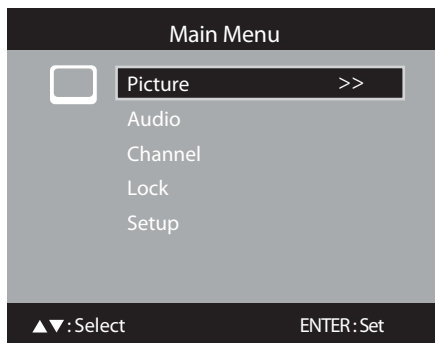
- Press **▲** or **▼** to select **Picture Setting**, then press **▶** or **ENTER**. The *Picture Setting* menu opens.



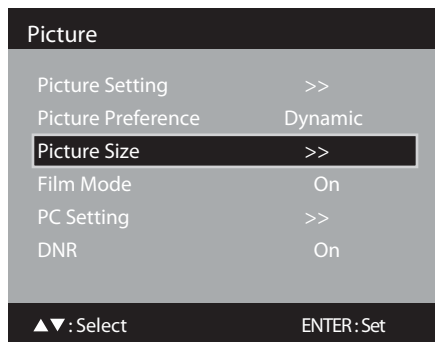
- Press **▲** or **▼** to select **Color Temperature**, then press **◀** or **▶** to select the color temperature preset you want. Available options include:
  - **Cool**—Gives the picture a bluish tint
  - **Normal**—Gives the picture a neutral tint
  - **Warm**—Gives the picture a redish tint
- After choosing the preset you want, press **EXIT** to return to normal viewing.

**To set the picture size:**

- Press **SETUP/TV MENU**. The initial on-screen menu opens.



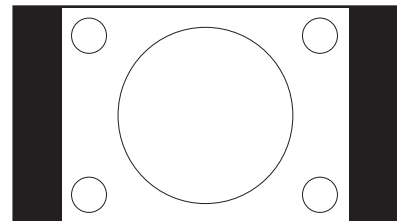
- Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The *Picture* menu opens.



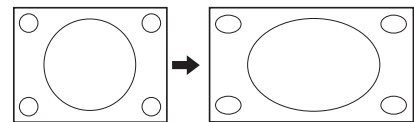
- Press **▲** or **▼** to select **Picture Size**, then press **▶** or **ENTER**. The *Picture Size* menu opens.



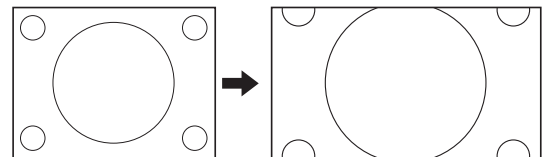
- Press **▲** or **▼**, or the corresponding number buttons, to select the picture size you want. Options include:
  - **Natural**—In some cases, this image displays the size of standard 4:3 with a black side bar.



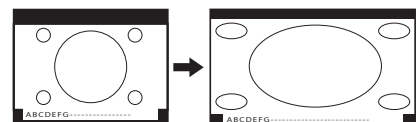
- **Cinema Wide1** (for 4:3 format programs)—To fill the screen, the right and left edges are extended. However the center of the picture remains near its former ratio. The top and bottom edges of the picture may be hidden.



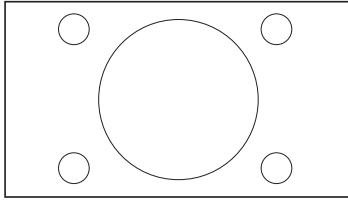
- **Cinema Wide2** (for 4:3 format programs) The top and bottom edges of the picture may be hidden.



- **Cinema Wide3** picture size (for letterbox programs with subtitles)—To fill the width of the screen, it is extended horizontally. However it is only slightly extended at the top and the bottom. The top and bottom edges of the picture may be hidden.



- **Full** picture size (for 16:9 source programs)—Displays the picture at the maximum size.



- 5 After choosing the picture size you want, press **EXIT** to return to normal viewing.

**Notes:**

Selectable picture sizes may vary, depending on the input source or broadcast signal.

The Picture Size menu can also be opened by pressing **ZOOM** on the remote control.

Some high definition and/or digital broadcasts may not let you change the picture size.

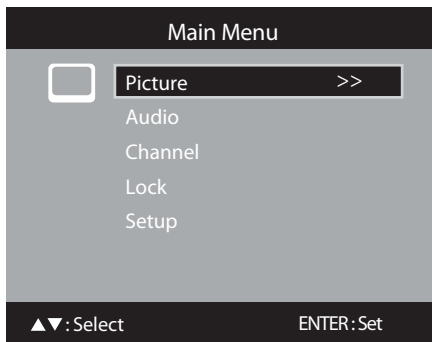
In **HDMI** or **COMPONENT** mode, with a scanning rate of 720p or 1080i, only the Cinema Wide2 and Full sizes are available.

In **PC Mode**, only the Natural and Full picture sizes are available.

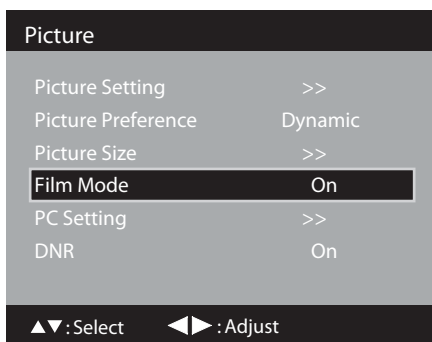
Additionally, this feature does not work when display mode is **WXGA**.

**To set the film mode:**

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



- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The **Picture** menu opens.



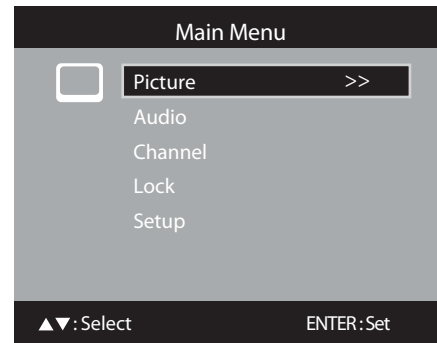
- 3 Press **▲** or **▼** to select **Film Mode**, then press **◀** or **▶** to select **On** or **Off**.

**Note:** For smoother motion, set the Film Mode to **On** when you view a DVD.

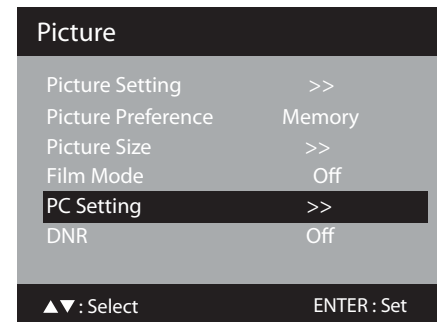
- 4 After choosing the setting you want, press **EXIT** to return to normal viewing.

**To set the picture in PC mode:**

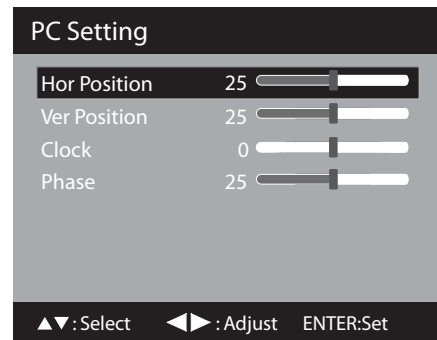
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The **Picture** menu opens.



- 3 Press **▲** or **▼** to select **PC Setting**, then press **▶** or **ENTER**. The **PC Setting** menu opens.



- 4 Press **▲** or **▼** to select the setting you want to adjust. Available options include:

- **Hor Position**—Lets you adjust the horizontal position of the image.
- **Ver Position**—Lets you adjust the vertical position of the image.
- **Clock**—Lets you adjust the clock, to eliminate vertical bars or stripes on the picture background.
- **Phase**—Lets you adjust the phase, after the frequency has been set, to optimize the picture.

- 5 After you adjust one setting, press **ENTER** to return to the **PC Setting** menu to adjust the other settings.

- 6 After you have set the PC settings, press **EXIT** to return to normal viewing.

**Notes:**

If no buttons are pressed for more than about 40 seconds, the menu screen returns to normal automatically.

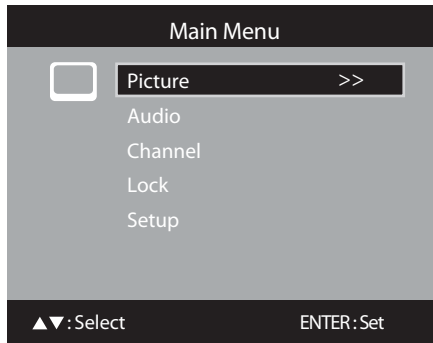
The computer settings do not affect other input modes.

**Setting the DNR**

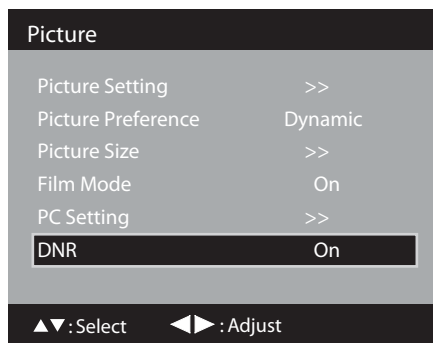
DNR (Digital Noise Reduction) can reduce the roughness of the picture (only for analog broadcasts).

**To set the DNR:**

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



- 2 Press **▲** or **▼** to select **Picture**, then press **▶** or **ENTER**. The *Picture* menu opens.

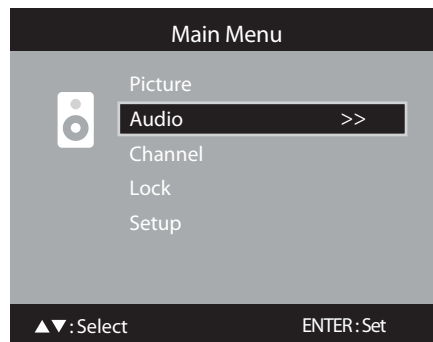


- 3 Press **▲** or **▼** to select **DNR**, then press **◀** or **▶** to select **On** or **Off**.
- 4 Press **EXIT** to return to normal viewing.

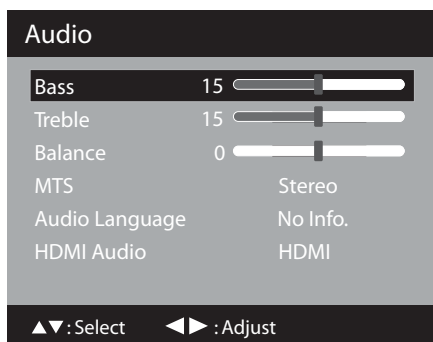
**Changing the audio settings**

**To adjust the audio settings:**

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



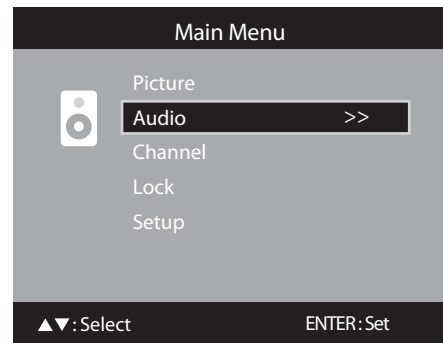
- 2 Press **▲** or **▼** to select **Audio**, then press **▶** or **ENTER**. The *Audio* menu opens.



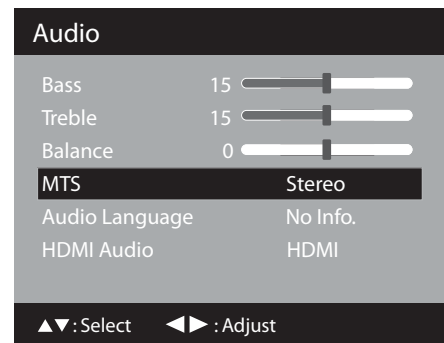
- 3 Press **▲** or **▼** to select the item you want to adjust, then press **◀** or **▶** to make the adjustment. Available options include:
  - **Bass**—Lets you adjust the bass sounds.
  - **Treble**—Lets you adjust the treble sounds.
  - **Balance**—Lets you adjust the sound balance (left to right).
- 4 After you have adjusted the sound settings, press **EXIT** to return to normal viewing.

**To select the stereo and SAP settings:**

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



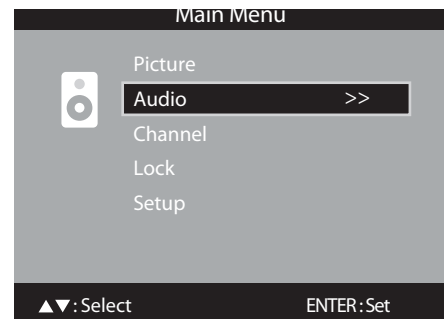
- 2 Press **▲** or **▼** to select **Audio**, then press **▶** or **ENTER**. The *Audio* menu opens.



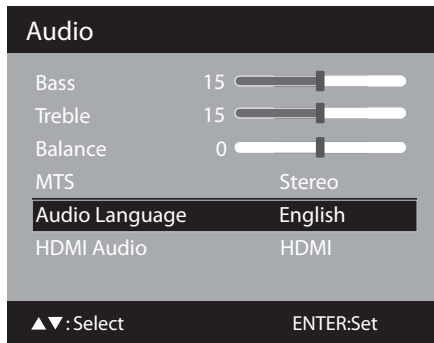
- 3 Press **▲** or **▼** to select **MTS**, then press **◀** or **▶** to select the audio program type. Available options include:
  - **Stereo**—Lets you listen to stereo audio (this setting automatically outputs the type of sound being broadcast, either stereo or mono).
  - **SAP**—Lets you listen to a second audio program (SAP) instead of normal audio.
  - **MONO**—Lets you listen to monaural sound only.
- 4 Press **EXIT** to return to normal viewing.

**To select the audio language:**

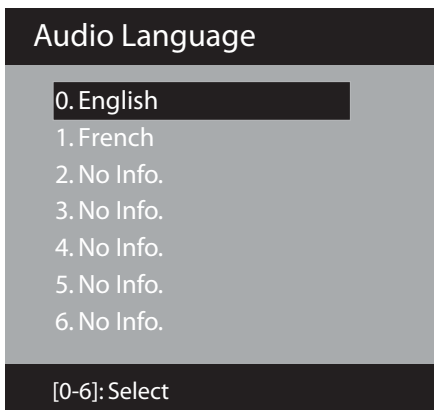
- 1 Press **SETUP/TV MENU**. The initial on-screen menu opens.



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



- Press **▲** or **▼** to select **Audio Language**, then press **▶** or **ENTER**. The *Audio Language* menu opens.



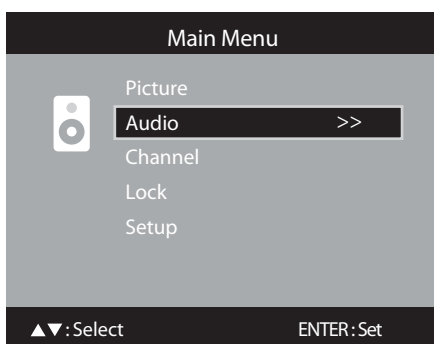
- Press **▲**, **▼**, or the number buttons (**0-6**) to select the language you want.
- Press **EXIT** to return to normal viewing.

### Selecting the HDMI audio input source

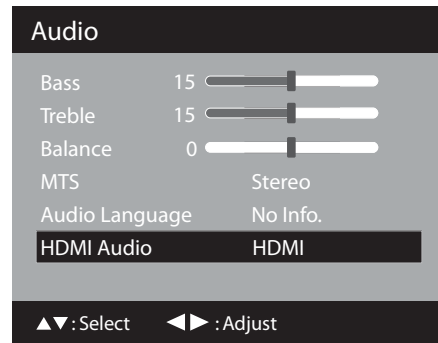
When you have an HDMI or DVI device connected to the PC/DVI AUDIO IN jack, with an HDMI or DVI device, you must select either an HDMI or DVI audio input source.

#### To select the HDMI audio input source:

- Press **SETUP/TV MENU**. The initial on-screen menu opens.



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



- Press **▲** or **▼** to select **HDMI Audio**, then press **◀** or **▶** to select one of the following options:
  - HDMI**—When you connect an HDMI device to your TV.
  - DVI**—When you connect a DVI device to your TV and connect the sound with an analog sound cable.
- Press **EXIT** to return to normal viewing.

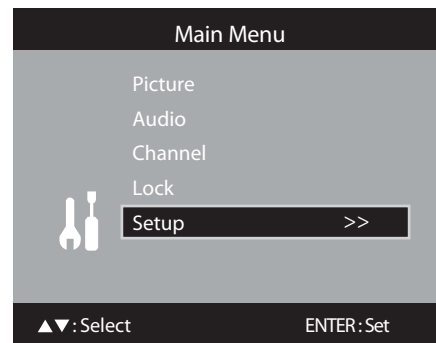
## Changing miscellaneous settings

### Adjusting the back lighting

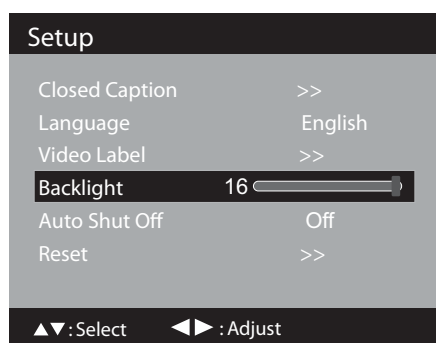
You can adjust the back lighting of the screen to improve picture clarity.

#### To adjust the back lighting:

- Press **SETUP/TV MENU**. The initial on-screen menu opens.



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



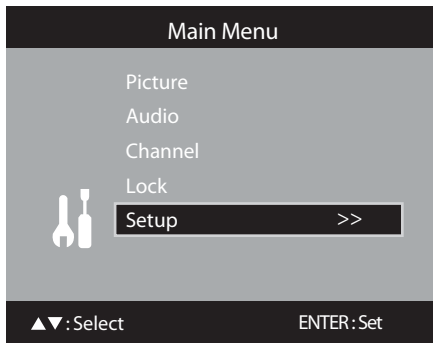
- Press **▲** or **▼** to select **Backlight**, then press **◀** or **▶** to adjust the setting.
- Press **EXIT** to return to normal viewing.

### Setting the automatic shut off

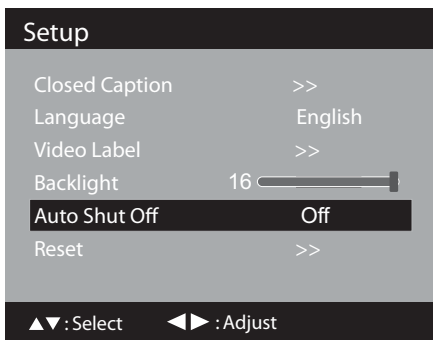
The Auto Shut Off feature automatically turns the TV off after 15 minutes if the station being viewed stops broadcasting or the TV is not operated in that time.

**To set the auto shut off:**

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



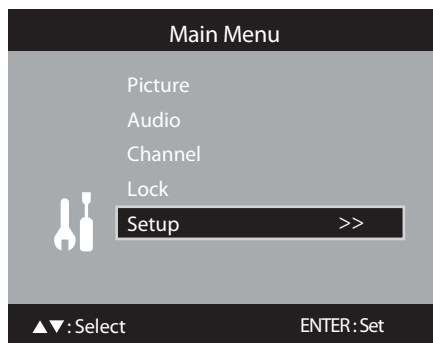
- 2 Press **▲** or **▼** to select **Setup**, then press **▶** or **ENTER**. The *Setup* menu opens.



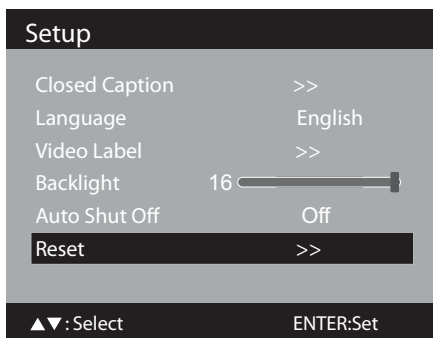
- 3 Press **▲** or **▼** to select **Auto Shut Off**, then press **◀** or **▶** to select **On** (or **Off** if you want to turn it off).
- 4 Press **EXIT** to return to normal viewing.

**Resetting your TV to factory default settings****To reset your TV to factory default settings:**

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



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



- 3 Press **▲** or **▼** to select **Reset**, then press **▶** or **ENTER**. "Reset" appears on the screen for about three seconds, then the TV returns to normal viewing.

**Note:** *MTS and HDMI Audio are not reset by this procedure.*

## Using the DVD player

### Disc organization

**Title**

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "Title."

**Chapter**

The titles can be subdivided into many sections. Each section is called a "Chapter."

**Track**

An audio CD can contain several items. These are assigned to the tracks.

### Regional code

Your player has a regional code **1** printed on the back of the case. Your player can play only DVDs labeled with the same regional code **1** or **ALL**.

**Notes:**

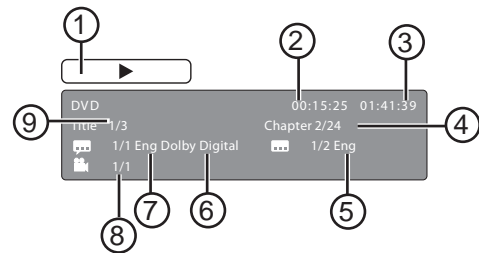
*Most DVDs have a globe with one or more numbers in it clearly visible on the cover. This number must match your player's regional code or the DVD cannot play.*

*If you try to play a DVD with a different regional code from your player, the message "Check Regional Code" appears on the TV screen.*

### Understanding the disc status screen

**To view the disc status screen:**

- 1 Press **DISPLAY**. The disc status screen opens.



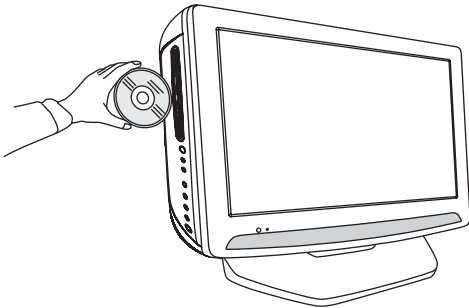
#	Information
1	Current disc operation
2	Elapsed time
3	Total time
4	Chapter number playing
5	Subtitle language selected
6	Audio type selected
7	Audio language selected
8	Angle selected
9	DVD title number






- 2 When you are finished viewing the disc status screen, press **DISPLAY** again to return to normal viewing.



## Playing DVDs

### To play a DVD:

- 1 Press **TV/DVD** to change to DVD mode (each time you turn the TV on, it starts in the TV mode). The DVD startup screen appears.
- 2 If you are using an amplifier, turn it on.
- 3 Place the disc in the disc slot with the label side facing forward. Hold the disc by the edges, without touching either of its surfaces.



On the screen,  changes to "Reading" and playback begins. If the disc has a menu feature, the menu screen may appear. In this case, press , , , or  and **ENTER** to navigate the menu.






- 4 Press **STOP** to end playback. The unit memorizes the stopped point and  appears on the screen. Press **PLAY** to resume playback (from the memorized point).
- 5 If you press **STOP** again, or unload the disc, the unit clears the memorized stop point.
- 6 Press  (eject). Remove the disc and then press **POWER**. The unit turns off.







### Notes:

- If your unit does not operate properly, it may be affected by static electricity. Disconnect the AC power cord, then connect it again.
- If a non-compatible disc is loaded, "Incorrect Disc," "Region Code Error," or "Parental Error" appears on the TV screen, depending on the type of disc loaded. See "Playable discs" on page 31.
- Some discs may take about a minute to start playback.
- If an 8 cm disc is loaded and picture playback or menu display does not begin automatically, press **PLAY** to begin playback.
- A "Prohibition" symbol "X" may appear at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the player cannot access the feature at this time. This does not indicate a problem with the player.
- If you load a single-faced disc backwards, "Reading" appears on the screen, then "Incorrect Disc" is displayed.
- Some DVD playback operations may be intentionally preset by the manufacturer. Since this player plays DVDs according to the disc content recorded, some playback features may not be available. Refer to the instructions supplied with the DVD.

## Controlling playback

### To control playback:

- **Fast Forward Playback**—Press **SEARCH**  during normal playback. Each time you press **SEARCH** , the speed increases (DVD -  $\times 2$ ,  $\times 4$ ,  $\times 8$ ,  $\times 15$ ) (CD -  $\times 2$ ,  $\times 4$ ,  $\times 8$ ,  $\times 20$ ). Press **PLAY** to resume normal playback.
- **Fast Reverse Playback**—Press **SEARCH**  during normal playback. Each time you press **SEARCH** , the speed increases (DVD -  $\times 2$ ,  $\times 4$ ,  $\times 8$ ,  $\times 15$ ) (CD -  $\times 2$ ,  $\times 4$ ,  $\times 8$ ,  $\times 20$ ). Press **PLAY** to resume normal playback.
- **Pause**—Press **PAUSE/STILL**  during normal playback to pause the program. Press **PLAY** to resume normal playback.

- **Frame Advance**—Press **PAUSE/STILL**  during normal playback to pause the program. Each time you press **PAUSE/STILL**  the program is advanced one frame. Press **PLAY** to resume normal playback.
- **Slow-motion Playback**—Press **SLOW**  reverse or **SLOW**  forward during normal playback or still playback. Each press of either button decreases the speed of the program ( $\times 1/2$ ,  $\times 1/4$ ,  $\times 1/6$ ,  $\times 1/7$ ). Press **PLAY** to resume normal playback.
- **Locating a chapter or track**—Press **SKIP**  forward or **SKIP**  reverse during playback to locate a chapter that you want to watch. Each time you press the button, a chapter or track is skipped.

### Notes:

The unit is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen.

There may be a slight delay between when you press the button and the feature activating.



## Locating a specific scene on a DVD

You can use the title, chapter, and time recorded on the disc to locate a specific point to play back.

### To locate a specific scene on a DVD:

- 1 Press **T.SEARCH** during playback or in stop mode. The *T.Search* menu opens.

T.Search	
Title	---
Chapter	---
Time	--:--:--

- 2 Press  or  to select the **Title**, **Chapter**, or **Time**.
- 3 Press the number buttons (**0–9**) to enter the number. Refer to the package supplied with the disc to check the numbers. If you enter a wrong number, press **EXIT**.
- 4 Press **ENTER**. Playback starts.

When you change the title, playback starts from Chapter 1 of the selected title.

Some discs may not work in the above operation.



## Marking your favorite scenes

The TV stores the points that you want to watch again. You can resume playback from that scene.

### To mark the scenes you want:

- 1 Press **MARKER** during playback. The *Marker* menu opens.

Marker 1	00 :27 :54
Marker 2	-- :-- :--
Marker 3	-- :-- :--

- 2 Press  or  to select a blank marker, then press **ENTER** at the desired scene. Up to three scenes can be selected. If you want, you can repeat this procedure to set the other two scenes.
- 3 Press **MARKER** again to close this dialog box.



**To replay marked scenes:**

- 1 Press **MARKER** during playback or stop mode. The *Marker* dialog box opens.

Marker 1	00 :27 :54
Marker 2	01 :16 :25
Marker 3	02 :08 :31

- 2 Press **▲** or **▼** to select **Marker 1-3**, then press **ENTER**. Playback starts from the marked scene.

**To cancel the mark:**

- 1 Press **MARKER** during playback or stop mode. The *Marker* menu opens.

Marker 1	00 :27 :54
Marker 2	01 :16 :25
Marker 3	02 :08 :31

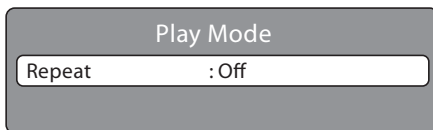
- 2 Press **▲** or **▼** to select **Marker 1-3**, then press **EXIT**. The marker is removed.

**Notes:**

Marking is canceled when you eject the disc or turn the power off.  
Some subtitles recorded around the marker may fail to appear.

**Repeating DVD playback****To repeat a Title or Chapter:**

- 1 Press **REPEAT** during playback or stop mode. The *Play Mode* menu opens.



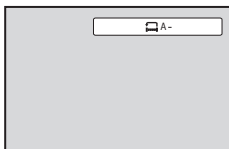
- 2 Press **ENTER** repeatedly to select **Chapter** or **Title**.
- 3 Press **REPEAT** again to make the menu disappear. The unit automatically starts to repeat playback after finishing the current title or chapter. In stop mode, press **PLAY** to start repeat playback.
- 4 To resume normal playback, open the *Play Mode* menu again, then select **Off**.

**Using A-B Repeat**

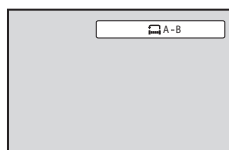
A-B Repeat lets you repeat a specific segment of a DVD between two selected points.

**To repeat a specific segment of a DVD:**

- 1 Press **A-B** during playback. The start point is selected.



- 2 Press **A-B** again. The end point is selected.



Playback starts at the point (A) that you selected. Playback stops at the end point (B), then returns to point A automatically and starts again.

- 3 To resume normal playback, press **A-B** again. "**Off**" appears on the screen.

**Notes:**

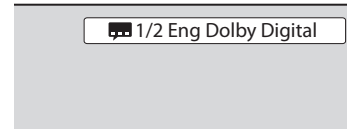
Some discs may not work with the A-B Repeat feature.  
In A-B Repeat mode, subtitles near point A or B may not appear.

**Changing the soundtrack language**

You can select the language when you play a multilingual disc.

**To select a different soundtrack language:**

- 1 Press **AUDIO** during playback. The current soundtrack language is shown on the screen.



- 2 Press **AUDIO** repeatedly until the desired language is selected. The on-screen display disappears after a few seconds.

**Notes:**

If the desired language is not heard after pressing **AUDIO** several times, the language is not recorded on the disc.

The alternate soundtrack language is cancelled when you eject the disc and the initial (default) language will be heard if the disc is played back again.

**Displaying subtitles**

While playing a DVD, you can turn on subtitles and select the subtitle language.

**To turn subtitles on, select the subtitle language, or turn subtitles off:**

- 1 Press **SUBTITLE** repeatedly during playback to cycle through the available subtitle languages.



Stop when you reach the language you want. The on-screen display disappears after a few seconds.

- 2 To turn subtitles off, press **SUBTITLE** again repeatedly until **Off** is selected.

**Notes:**

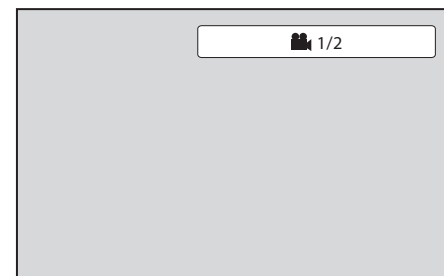
The selected subtitle language is cancelled when you eject the disc. Some features may not work on some DVDs. You may not be able to turn subtitles on or off or change subtitles. While playing a DVD, the subtitle may change when you eject the disc or change the title. In some cases, the subtitle language is not changed to the selected one immediately.

**Changing the viewing angle**

When playing back a disc recorded with multiple angles, you can change the viewing angle.

**To change the viewing angle:**

- 1 Press **ANGLE** during playback. The current angle is shown on the screen.



- 2 Press **ANGLE** repeatedly until the desired angle is selected.

**Note:** Depending on the DVD, you may not be able to change the angles, even if multiple angles are recorded on it.

### Selecting the title

Some DVDs are recorded with two or more titles. If a title menu is recorded on the disc, you can select the title you want.

#### To select a title:

- 1 Press **DVD TITLE** during playback. The *Title* menu opens.
- 2 Press **▲**, **▼**, **◀**, or **▶** to select the title you want, then press **ENTER** or **PLAY**. The selected title starts playing.

**Note:** Depending on the DVD, you may not be able to select a title. Depending on the DVD, a "title menu" may be called a "menu" or "title" in the instructions supplied with the disc.

### Using the DVD menu

Some DVDs let you select the disc contents using the menu. When you play these DVDs, you can select the subtitle language, soundtrack language, and so on, using the DVD menu.

#### To use the DVD menu:

- 1 Press **DVD MENU** during playback. The *DVD* menu opens.
- 2 Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.
- 3 Press **▲**, **▼**, **◀**, or **▶** to select the title you want, then press **ENTER**. The menu continues to another screen. Repeat Steps 2 and 3 to set additional items.

### Using the Zoom feature

Your player lets you zoom in on the frame image. You can then make selections by switching the position of the frame.

#### To use the Zoom feature:

- 1 Press **ZOOM** during playback. The center part of the image is magnified. Each time you press **ZOOM**, the magnification changes **Q 1** = ×1.3, **Q 2** = ×1.5) and **Q 3** = ×2.0.
- 2 Press **▲**, **▼**, **◀**, or **▶** to view a different part of the picture.
- 3 Press **ZOOM** repeatedly to return to a 1:1 view (**Q Off**).

#### Notes:

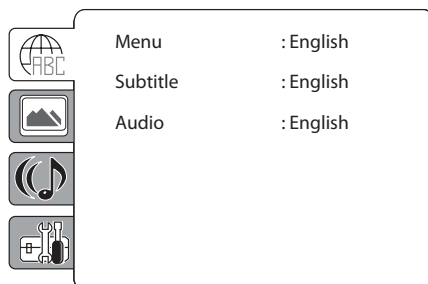
While in zoom mode, you can use *Pause*, *Slow*, or *Search*.  
Zoom may not work with some discs.

### Setting the language

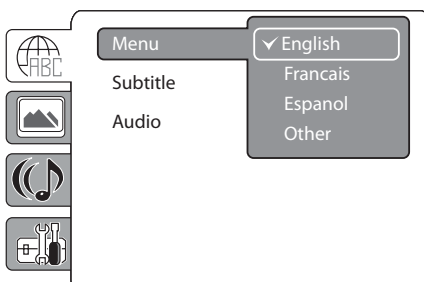
You can select the language of the menu, subtitle, and soundtrack if more than one language is recorded onto the disc.

#### To set the language:

- 1 Press **SETUP/TV MENU** while in stop mode. The *DVD* menu opens.



- 2 Press **▲** or **▼** to select the **Language icon** , then press **◀** or **▶** or **ENTER**. The *Language* menu opens.



- 3 Press **▲** or **▼** to select the desired option, then press **▶** or **ENTER**.

- 4 Press **▲** or **▼** to select the language you want, then press **ENTER**. Available options include:

- **English**
- **French (Français)**
- **Spanish (Español)**
- **Other**—Additional languages can be selected using the "Language code list" on page 31.
- **Off** (Subtitle)—Turns subtitles off.
- **Original** (Audio)—Subtitle will appear in the original language of the disc.

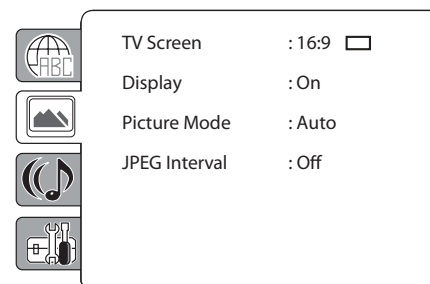
- 5 Press **SETUP/TV MENU** to close the menu screen.

**Note:** If the selected language is not recorded on the disc, the first priority language is selected.

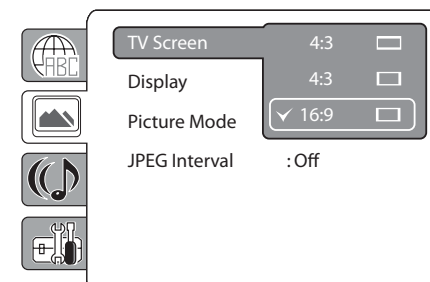
### Setting the aspect ratio

#### To set the aspect ratio:

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The *DVD* menu opens.



- 2 Press **▲** or **▼** to select the **Display icon** , then press **◀** or **▶** or **ENTER**. The *Screen* menu opens.



- 3 Press **▲** or **▼** to highlight **TV Screen**, then press **▶** or **ENTER**.

- 4 Press **▲** or **▼** to select the screen type you want, then press **ENTER**. Available options include:

- **4:3 Letterbox**—When playing a wide-screen DVD, this option displays the wide picture with black bands at the top and bottom.
- **4:3 Panscan**—Displays a wide picture on the whole screen, with left and right edges automatically cut off.
- **16:9 Wide**—Displays wide-screen pictures full size.

- 5 Press **SETUP/TV MENU** to close the menu screen.

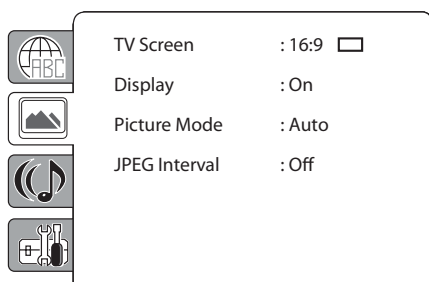
**Note:** It is not always possible for the DVD to display the picture in your preferred picture setting. For example, the disc may not offer "4:3 Panscan." In this case the picture would display in the format available on the disc.

### Setting the on-screen display

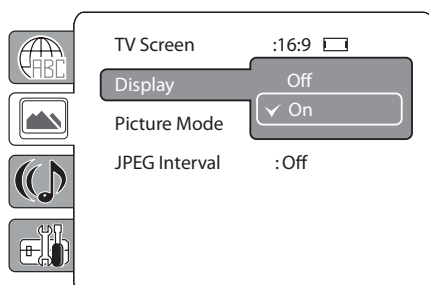
The on-screen display can be turned on or off when you press any buttons.

#### To set the on-screen display:

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Display icon** (🖥️), then press **◀** or **▶** or **ENTER**. The *Screen* menu opens.



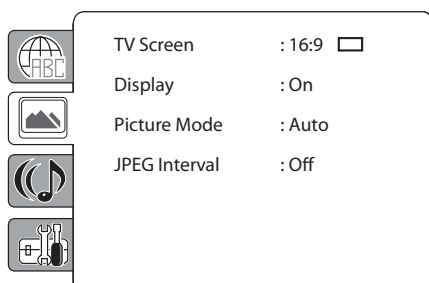
- 3 Press **▲** or **▼** to highlight **Display**, then press **▶** or **ENTER**.
- 4 Press **▲** or **▼** to select the setting you want, then press **▶** or **ENTER**. Available options include:
  - **Off**—On-screen displays are not shown, except when you press **SUBTITLE, REPEAT, MUTE, VOLUME, MARKER, DISPLAY, AUDIO,** and **T.SEARCH**.
  - **On**—On-screen displays are shown when you press the buttons (default).
- 5 Press **SETUP/TV MENU** to close the menu screen.

### Setting the picture mode

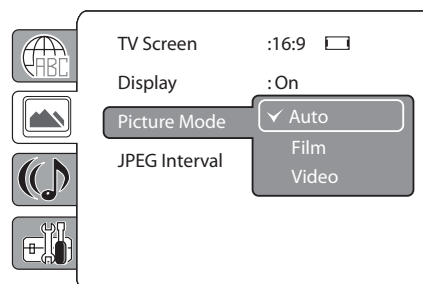
There are two types of source content in pictures recorded on DVDs. These include *film content* (pictures recorded from films at 24 frames per second) and *video content* (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

#### To set the picture mode:

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Display icon** (🖥️) then press **◀** or **▶** or **ENTER**. The *Screen* menu opens.



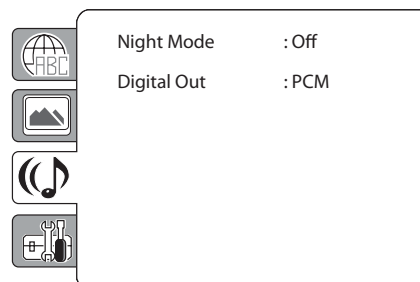
- 3 Press **▲** or **▼** to highlight **Picture Mode**, then press **▶** or **ENTER**.
- 4 Press **▲** or **▼** to select the setting you want, then press **ENTER**. Available options include:
  - **Auto**—Select this option for normal viewing. The unit automatically detects the source content.
  - **Film**—Suitable for film content.
  - **Video**—Suitable for video content.
- 5 Press **SETUP/TV MENU** to close the menu screen.

### Setting the night mode

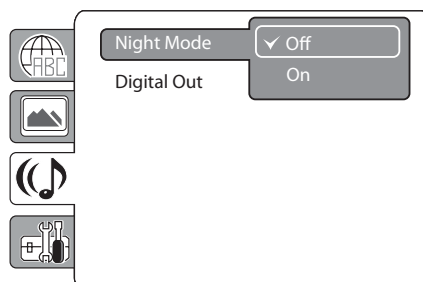
Night mode lets you control the dynamic range of your equipment.

#### To set the night mode:

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Audio icon** (🔊), then press **◀** or **▶** or **ENTER**. The *Audio* menu opens.



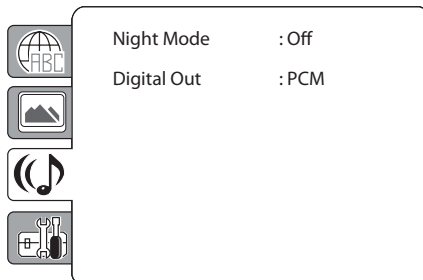
- 3 Press **▲** or **▼** to highlight **Night Mode**, then press **▶** or **ENTER**.
- 4 Press **▲** or **▼** to select the setting you want, then press **ENTER**. Available options include:
  - **On**—Loud sounds, such as explosions, are toned down slightly.
  - **Off**—Audio is played as recorded.
- 5 Press **SETUP/TV MENU** to close the menu screen.

### Setting the digital sound output

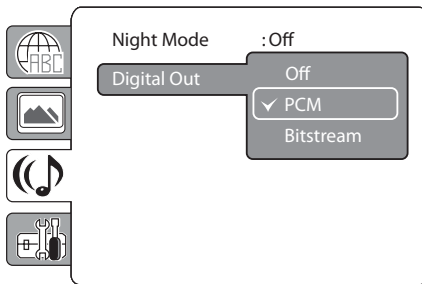
You can select the digital sound output, based on your system connection.

**To set the digital sound output:**

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Audio icon** (musical note), then press **◀** or **▶** or **ENTER**. The *Audio* menu opens.



- 3 Press **▲** or **▼** to highlight **Digital Out**, then press **▶** or **ENTER**.
- 4 Press **▲** or **▼** to select the setting you want, then press **ENTER**. Available options include:

- **Off**—No sound output from the DIGITAL AUDIO OUT jack.
- **PCM**—Changes Dolby Digital to PCM output. Choose this option when your player is connected to a 2-channel digital stereo amplifier.
- **Bitstream**—Disc audio bitstream data is output.

- 5 Press **SETUP/TV MENU** to close the menu screen.

**Notes:**

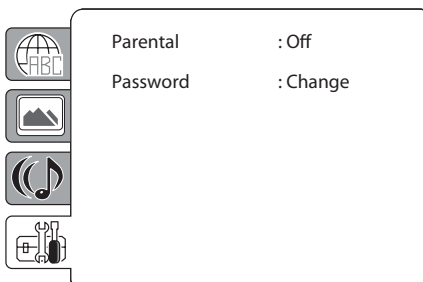
*This feature works only during playback of Dolby-Digital recorded discs. Even if you select "Bitstream," MPEG audio will be output in PCM format.*

**Setting parental controls**

Some discs are specified "not suitable for children." You can limit playback of these discs on your TV/DVD.

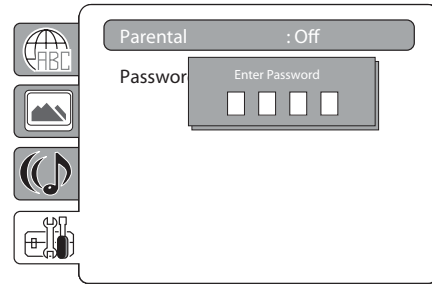
**To set the password and parental control level:**

- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Parental icon** (globe), then press **◀** or **▶** or **ENTER**. The *Parental Control* menu opens.

- 3 Press **▲** or **▼** to select the **Parental**, then press **▶** or **ENTER**. The *Enter Password* screen opens.



- 4 Enter "0000" using the number buttons (**0-9**), this is the preset password, then press **ENTER**. The parental level list opens. If you enter a wrong number, press **EXIT** and try again.
- 5 Press **▲** or **▼** to select the setting you want, then press **ENTER**. Available options include:
  - **Level Off**—No control.
  - **Level 8**—Virtually all DVDs can be played back.
  - **Level 1**—The most restrictive setting.
 The limitation is more restrictive as the level number decreases.
- 6 Press **SETUP/TV MENU** to close the menu screen.

**Notes:**

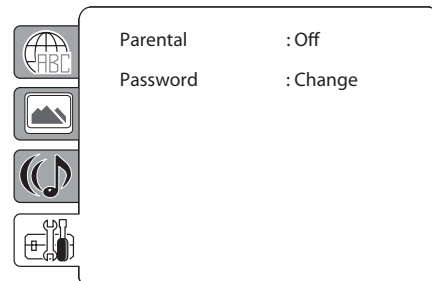
*The level of dynamic range reduction may differ, depending on the DVD. Depending on the disc, the unit may not be able to limit playback.*

*Some discs may not be encoded with specific rating level information, even though the disc jacket says "adult." For those discs, the age restriction does not work.*

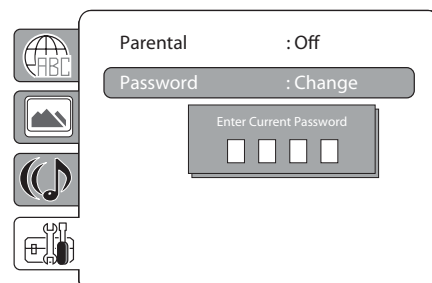
*After the rating is locked, the setting cannot be changed unless you enter the correct password.*

**To set a new password:**

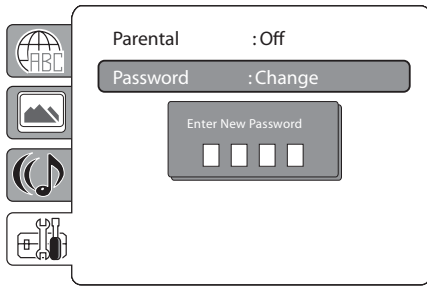
- 1 Press **SETUP/TV MENU** in stop mode or with no disc inserted. The DVD menu opens.



- 2 Press **▲** or **▼** to select the **Parental icon** (globe), then press **◀** or **▶** or **ENTER**. The *Parental Control* menu opens.
- 3 Press **▲** or **▼** to select the **Password**, then press **▶** or **ENTER**. The *Enter Current Password* screen opens.



- Enter your password using the number buttons (0-9), then press **ENTER**. The *Enter New Password* screen opens. If you enter a wrong number, press **EXIT** and try again.



- Enter your new password using the number buttons (0-9), then press **ENTER**. Your new password has been set.

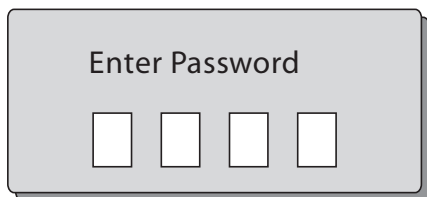
**Note:** Do not forget your new password. Write it down in a convenient place. If you forget the password, contact Customer Service. The original remote control will be required.

### Temporarily disabling the rating level

Some pre-recorded DVDs may attempt to temporarily cancel the rating level that you have set. You are given the option to allow or not allow the override.

#### To temporarily disable the rating level:

- Load a DVD. If the DVD has been designed to temporarily cancel the rating level, an option screen opens. Press **ENTER** to select **YES** to override the rating, or **NO** to accept the rating.
- If you select **YES**, an *Enter Password* screen opens.



- Enter your password using the number buttons (0-9), then press **ENTER**. Playback begins if you enter the correct password.

**Note:** This temporary cancellation of the rating level is retained until the disc is ejected, at which time the original rating level will be set again automatically.

## Playing MP3, WMA, JPEG and audio CD discs

This player can play back MP3, WMA, and JPEG data which has been recorded on CD-R or CD-RW discs. To produce MP3, WMA, and JPEG discs, you need a Windows computer with CD burner and MP3/WMA/JPEG encoding software (not supplied). The Apple-HFS-System discs cannot be played.

### MP3/WMA/JPEG CD disc information

#### Limitations on MP3/WMA/JPEG CD playback

- MP3/WMA/JPEG CDs are standardized by ISO9660. File names must include the three-digit extension letters "MP3", "WMA", or "JPEG".
- The directory and file names of MP3/WMA/JPEG CDs must correspond to ISO standardized files.
- This player can read 2000 files per disc. If one folder has more than 2000 files, it reads up to 2000 files. The remaining files are omitted.
- If a CD has both audio tracks and MP3/WMA/JPEG files, only audio tracks are played.
- It may take more than one minute for this player to read MP3/WMA/JPEG files, depending on the disc structure.
- Music recorded by "Joliet Recording Specification" can be played back.

- Music files recorded by the "Hierarchical File System" (HFS) cannot be played.
- This player can play back baseline and progressive JPEG files.
- MP3 or WMA files on a KODAK Picture CD are not recognized by this player.

#### Limitations on display

- Only 15 characters of a file name are displayed. Long file names are condensed.
- Available letters for display are capital or lowercase letters A through Z, numbers 0 through 9, and \_ (underscore).
- Other letters than those above are replaced by a hyphen.

#### Notes on MP3/WMA/JPEG files

- To play back MP3/WMA/JPEG CDs in recorded order:
  - Use MP3/WMA/JPEG software that records data alphabetically or numerically.
  - File names should include a two-digit or three-digit number (for example, "01" "02" or "001" "002").

#### Notes:

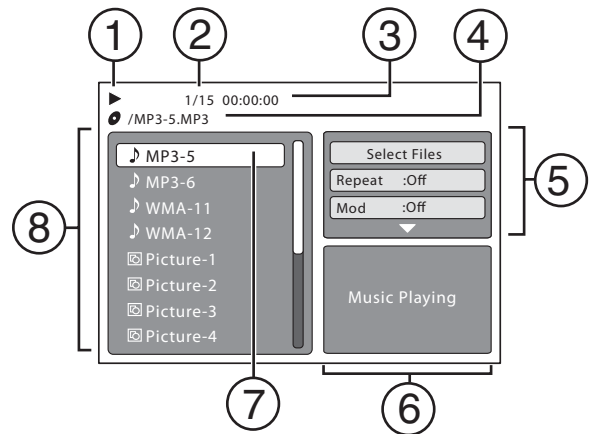
Some MP3/WMA/JPEG CDs cannot be played back, depending on the recording conditions.

The CD-R/RW that has no music data or non-MP3/WMA/JPEG files can not be played.

### MP3/WMA CD and audio CD playback

#### To play back MP3/WMA and audio CDs:


- Load an MP3/WMA/JPEG CD or an audio CD into the disc slot. "Reading" appears on the TV (reading time depends on the number of files on the disc), then a file browser appears on the screen.



#	Information
1	Disc operation status
2	File number
3	Elapsed time
4	Selected file name
5	Tool kit window
6	Preview window
7	Cursor
8	File list ( 🎵 =music, 🖼️ =picture)

- If the current directory includes nine files or more, press **▲** or **▼** to scroll through the file list.
  - To see the contents of a folder, select the folder, then press **ENTER**. To return to the parent directory, select "**📁 Go Up ...**" then press **ENTER**.
  - If a CD contains a mixture of MP3, WMA, and JPEG files, the files are played back by selecting them from the file browser.
- Press **▲** or **▼** to select the file you want to play.

When you press **PLAY** after displaying the file browser, playback begins automatically starting from the first file. If there is no file in the root directory, playback does not begin automatically.

- 3 Press **ENTER**. The selected file starts playing.
- 4 Press **STOP** to end playback. The unit memorizes the stopped point and  appears on the screen. Press **PLAY** to resume playback. If you press **STOP** again or unload the disc, the unit clears the stopped point.

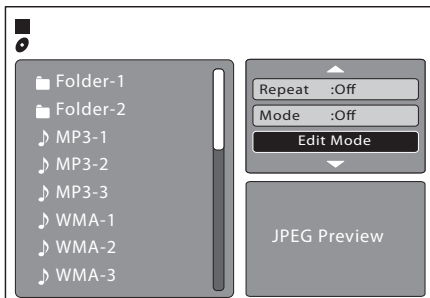
**Notes:**

During MP3/WMA/JPEG playback, you cannot use *T.SEARCH* and *A-B*. You can use *Program playback*, *Repeat (Track or All)*, and *Random* features for MP3/WMA/JPEG and audio CD playback.

### Programming CD playback

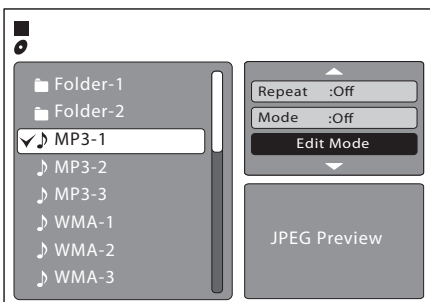
**To program CD playback:**

- 1 In the file browser, press **▲**, **▼**, **◀**, or **▶** to select **Edit Mode**, then press **ENTER**.

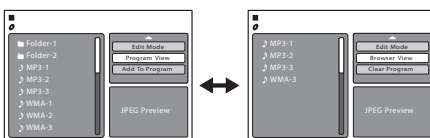


When **Edit Mode** is highlighted black, you can mark the files which you want to add to the program list.

- 2 Press **▲**, **▼**, **◀**, or **▶** to select the file you want to add to the program list, then press **ENTER**. The selected file is marked.



- 3 Repeat this procedure to select the other files.
- 4 Press **▲**, **▼**, **◀**, or **▶** to select **Add To Program**, then press **ENTER**. All marked files are added to the program list. When you finish adding the files you want to the program list, select **Edit Mode** again, then press **ENTER** to exit edit mode.
- 5 Press **▲** or **▼** to highlight **Program View**, then press **ENTER**. Program View shows only the files you have added to the program list.



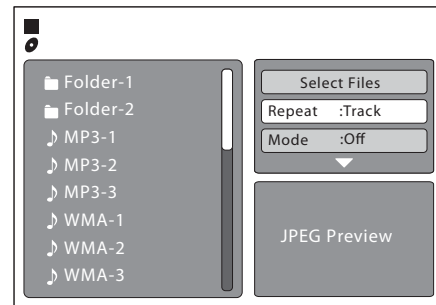
- 6 In the Program View, press **PLAY**. The files start to playback in programmed order.
- 7 To remove a file from the program list in stop mode, select **Edit Mode**, then switch to **Program View**. Select the files you want to remove, then press **ENTER**. Select **Clear Program** and press **ENTER**. Marked files are removed from the program list.

**Note:** The program is cancelled when you eject the disc or turn the power off.

### Repeating CD playback

**To repeat CD playback:**



- 1 In the file browser, press **▲**, **▼**, **◀**, or **▶** to select **Repeat**.



- 2 Press **ENTER** repeatedly to select **Track** and **All**.
- 3 Press **PLAY**. The unit starts to repeat playback after the current track is finished. To resume normal playback, set Repeat to **Off** in Step 2.

**Notes:**

The repeat or random functions are cancelled when you eject the disc or turn the power off.

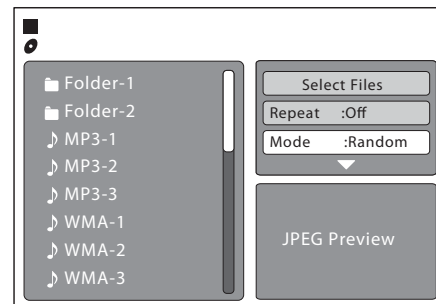
The track repeat function is cancelled when **SKIP**  **1** forward or **SKIP**  **1** back is pressed.

You can also use the *A-B Repeat* feature with audio CDs.

### Random CD playback

**To randomly play the tracks on a CD:**

- 1 In the file browser, press **▲**, **▼**, **◀**, or **▶** to select **Mode**.

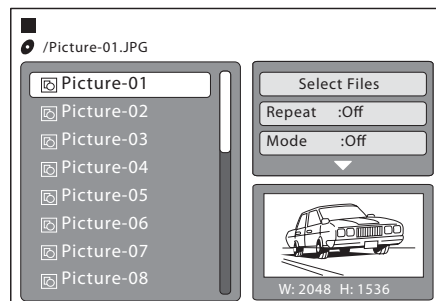


- 2 Press **ENTER** to select **Random**.
- 3 Press **PLAY**. The unit starts random playback after the current track is finished. To resume normal playback, set the mode to **Off** in Step 2.

### JPEG playback

**To play back JPEG files:**

- 1 Load a JPEG CD into the disc slot. The JPEG browser opens.



- 2 Press **DVD MENU** to display a thumbnail list of pictures on the disc, then press **▲**, **▼**, **◀**, or **▶** to select the file you want to see (or press **DVD TITLE** to return to the file browser).
- 3 Press **ENTER** or **PLAY**. The selected picture is displayed.
- 4 To rotate the image, press **ANGLE**. Each time you press **ANGLE**, the image rotates by 90°.

- 5 To zoom in on an image, press **ZOOM**.
- 6 Press **STOP** to end playback. If you want to view another picture, repeat Steps 2 and 3.

#### To display selected file types:

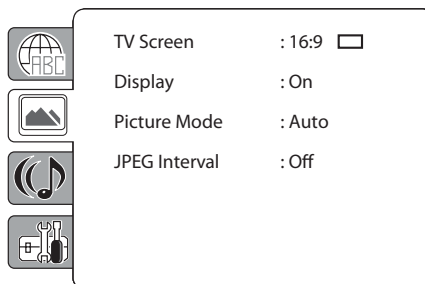
- 1 With the JPEG browser open, press ◀ or ▶ to highlight **Select Files** in the right column, then press **ENTER**.
- 2 Press ▲ or ▼ to select the file type from the list (**Music** or **Picture**).
- 3 Press **ENTER** to add or remove the check mark. The checked file type is displayed in the file browser.
- 4 Press **RETURN** to save the setting.

#### Setting the JPEG interval

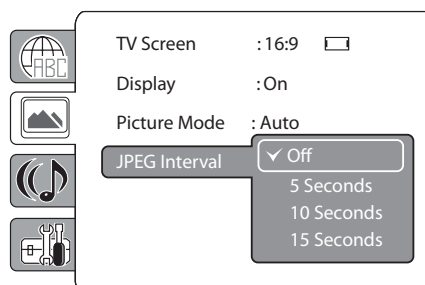
You can automatically play back all JPEG files continually.

#### To set the JPEG interval:

- 1 Press **SETUP/TV MENU** in the stop mode. The **DVD** menu opens.



- 2 Press ▲ or ▼ to select the **Display icon** , then press ◀ or ▶ or **ENTER**. The **Picture** menu opens.







- 3 Press ▲ or ▼ to select **JPEG Interval**, then press ▶ or **ENTER**.
- 4 Press ▲ or ▼ to select the time interval you want, then press **ENTER**. Available options are **Off** (plays one file at a time), **5 Seconds**, **10 Seconds**, and **15 Seconds**.
- 5 Press **SETUP/TV MENU** to close the menu screen.

## Appendix

### Language code list

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631

### Playable discs

Disc	Characteristics
	<b>DVD (12 cm disc)</b> DVDs such as movies that can be purchased or rented. Your player can play one-layer or two-layer discs. DVD-R/RW discs with DVD video format are also available.
	<b>Audio CD (8 cm/12 cm disc)</b> Music CDs or CD-Rs/CD-RWs in music CD format that can be played.
 	<b>CD-R/CD-RW (12 cm disc)</b> CD-R/CD-RWs that contain audio titles, MP3, WMA, or JPEG files.

#### Notes:

Do not use irregularly shaped CDs (for example, heart-shaped or octagonal). Doing so may result in malfunctions.

Depending on the recording software and the finalization, some recorded discs (CD-R/RW or DVD±R/RW) may not be playable.

DVD-R/RW, DVD+R/RW, and CD-R/RW discs recorded using a personal computer or a DVD or CD recorder may not play if the disc is damaged or dirty or if there is dirt or condensation on your player's lens.

If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the software used to create the disc. (Check with the software publisher for more detailed information.)

Your player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files), and these require certain pre-existing conditions (see above) to ensure compatible playback.

You should note that permission is required in order to download MP3 or WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

## 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 lukewarm 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.

### Care and handling of discs

#### Handling discs

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

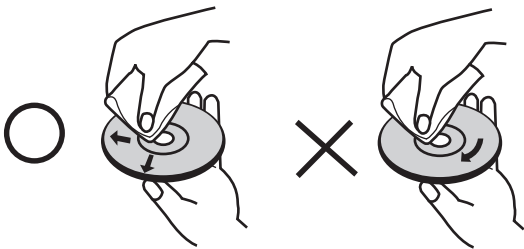


#### Storing discs

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

#### Cleaning discs

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



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

### 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

### Using progressive scan

Not all high-definition televisions are fully compatible with your player and may cause artifacts to be displayed in the picture.

In case of progressive scan picture problems, we recommend that you switch the connection to the standard definition output. If there are questions regarding your television's compatibility with your player, contact our customer service center.

Use the following check list for troubleshooting when you have problems with your TV. Consult your local dealer or service outlet if problems persist.

Make sure that all connections are correctly made.

Problem	Solution
<b>General problems</b>	
No power	<ul style="list-style-type: none"> <li>• Make sure the power cord is plugged in.</li> <li>• Power is off, check fuse or circuit breaker.</li> <li>• Unplug the TV, then plug it back in.</li> </ul>
<b>TV reception problems</b>	
Ghosts in the picture	Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.
Ignition noise	Black spots or horizontal streaks may appear, or the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, or AC-powered tools and appliances, such as drills or hair dryers.
Snow in the picture	If the TV is located far from the TV station, such as in a fringe reception area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.
Radio frequency interference (RFI)	Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.
Picture size variations	A slight picture size variation is normal when you adjust the contrast or brightness settings.
Poor or no sound	<ul style="list-style-type: none"> <li>• Station or cable TV are experiencing problems. Tune to another station.</li> <li>• Check volume adjustments or muting.</li> <li>• Check for sources of possible interference.</li> </ul>
Poor or no picture	<ul style="list-style-type: none"> <li>• Station or cable TV are experiencing problems. Tune to another station.</li> <li>• Check antenna or cable TV connections. Reorient the antenna.</li> <li>• Check for sources of possible interference.</li> <li>• Check picture control adjustments.</li> </ul>
Poor reception on some channels	<ul style="list-style-type: none"> <li>• Station or cable TV are experiencing problems. Tune to another station.</li> <li>• Station signal is weak. Reorient the antenna to receive stronger station.</li> <li>• Check for sources of possible interference.</li> </ul>



Problem	Solution
Poor color or no color	<ul style="list-style-type: none"> <li>• Station or cable TV are experiencing problems. Tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Check picture control adjustments.</li> <li>• Check antenna or cable TV connections and reorient the antenna.</li> <li>• Check for sources of possible interference.</li> </ul>
Picture wobbles or drifts	<ul style="list-style-type: none"> <li>• Station or cable TV are experiencing problems. Tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Cable TV company is scrambling signal.</li> <li>• Check antenna orientation.</li> </ul>
No cable TV reception	<ul style="list-style-type: none"> <li>• Check all cable TV connections.</li> <li>• Set Signal Type option to the Cable mode.</li> <li>• Station or cable TV system problems. Try another station.</li> </ul>
Horizontal or diagonal bars on the screen	<ul style="list-style-type: none"> <li>• Check antenna connections, reorient antenna.</li> <li>• Check for sources of possible interference.</li> </ul>
No reception above channel 13	<ul style="list-style-type: none"> <li>• Make sure Signal Type option is in the appropriate mode.</li> <li>• If using an antenna, check UHF antenna connections.</li> </ul>
TV turns off	<ul style="list-style-type: none"> <li>• No broadcast on station tuned.</li> <li>• The Sleep Timer is set.</li> <li>• The power has been interrupted.</li> </ul>
Closed captioning does not work	<ul style="list-style-type: none"> <li>• The TV station is experiencing problems or the program tuned is not closed captioned. Try another channel.</li> <li>• Check cable TV connection or VHF/UHF antenna, then reposition or rotate the antenna.</li> <li>• Set closed captioning in the menu.</li> </ul>
Display is not shown in your language	<ul style="list-style-type: none"> <li>• Select the correct language in the menu options.</li> </ul>
Picture has a few bright or dark dots	A few bright or dark dots on an LCD screen is normal. It does not affect the operation of this TV.
<b>DVD problems</b>	
Playback does not start	<ul style="list-style-type: none"> <li>• No disc is inserted.</li> <li>• The disc may be dirty. Clean the disc.</li> <li>• The disc may be incompatible.</li> </ul>
No picture	The TV selector is not set correctly.
No sound	<ul style="list-style-type: none"> <li>• Make sure that the input selector of the amplifier is set correctly.</li> <li>• The player is in the Special playback mode.</li> <li>• Select the correct Audio Output position on the AV amplifier.</li> </ul>
Picture is distorted during CUE or REVIEW	The picture will be distorted occasionally.
You cannot stop playback, or search, slow-motion play, repeat play, or program play	Some discs may not allow some functions.
No on-screen display	Select <b>Display On</b> .
No surround sound	The setup does not match your stereo system.
The unit or remote operation keys are not working	Turn off the player and unplug the AC power cord for several minutes, then plug it in again.

Problem	Solution
Playback does not start when the title is selected	Check the Parental setup.
The audio soundtrack or subtitle language is not changed when you play back a DVD	Multiple languages are not recorded on the DVD disc.
No subtitles	<ul style="list-style-type: none"> <li>• Some discs have no subtitles.</li> <li>• Subtitles are cleared. Press <b>SUBTITLE</b>.</li> </ul>
The angle cannot be changed	Multiple angles are not recorded on the DVD.
"X" appears on the screen.	The function chosen is prohibited by the player or the disc.
<b>Remote control</b>	
The remote control does not function.	<ul style="list-style-type: none"> <li>• Aim at the remote control at the remote sensor.</li> <li>• Operate within about 15 feet (5 m) of the TV, or reduce the light in the room.</li> <li>• Clear the path of the beam.</li> <li>• The batteries are weak. Replace the batteries.</li> <li>• Make sure that the batteries are inserted correctly.</li> </ul>

## Specifications

<b>General</b>	
<b>Power supply</b>	120V AC 60 Hz
<b>Power consumption</b>	Operation: 65 W Standby: 0.8 W
<b>Weight</b>	12.8 lbs. (5.8 kg)
<b>Dimensions (W×H×D)</b>	21.25 × 17.5 × 8.25 inches (53.7 × 43.95 × 20.7 cm)
<b>Operating temperature</b>	41°F - 104°F (5°C - 40°C)
<b>Operating humidity</b>	Less than 80%
<b>Television</b>	
<b>Type</b>	21.6 inches (548.0 mm) diagonal
<b>Display method</b>	Transmission TFT color LCD panel
<b>Number of pixels</b>	1680 (H) × 1050 (V)
<b>Viewing angle</b>	Left/Right 85/85 degrees Up/Down 80/80 degrees
<b>Tuner type</b>	NTSC standard ATSC standard (8VSB), QAM
<b>Receiving channels</b>	VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)

<b>Inputs</b>	S-Video: Y-Input: 1.0 V (p-p), 75 ohms C-Input: 0.3 V (p-p), 75 ohms Video: (RCA) 1 V p-p/75 ohms Audio: (RCA) -8 dBm/50K ohms Component: (Y) 1 V (p-p), 75 ohms (Pb)/(Pr) 0.7 V (p-p), 75 ohms HDMI: HDMI compliant (type A connector) HDCP compliant E-EDID compliant Suggested scan rates: 480p, 480i, 720p, and 1080i HDMI/PC audio input alternative: 2-channel PCM 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample PC monitor: Mini-D-sub 15-pin x 1 Antenna: VHF/UHF In 75 ohms coaxial
<b>Outputs</b>	Digital audio out: 0.5 Vp-p 75 ohms terminated
<b>Speaker</b>	1-3/16 inches x 2-13/16 inches (30.4 mm x 71.1 mm), 8 ohms (2)
<b>Audio output power</b>	1.5 W + 1.5 W
<b>DVD/CD player</b>	
<b>Signal system</b>	NTSC
<b>Applicable disc</b>	DVD (12 cm) CD (12 cm, 8 cm)
<b>Pickup</b>	CD: Wavelength: 790 nm Maximum output power: 7 mW DVD: Wavelength: 655 nm Maximum output power: 5 mW
<b>Accessories</b>	Remote control Batteries AAA (2) AC cord User Guide (with FCC information)

Specifications are subject to change without notice.

## 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-LTDVD22-09** ("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, 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

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Contact Dynex:

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