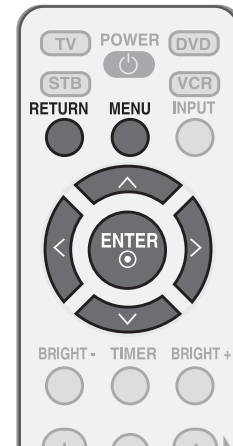


## KEY LOCK

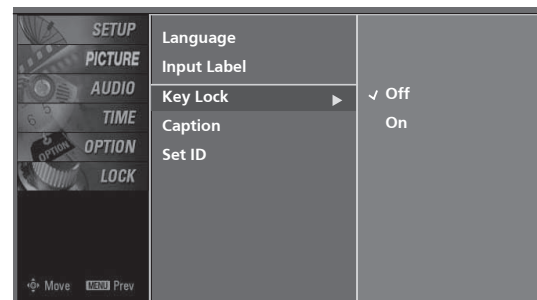
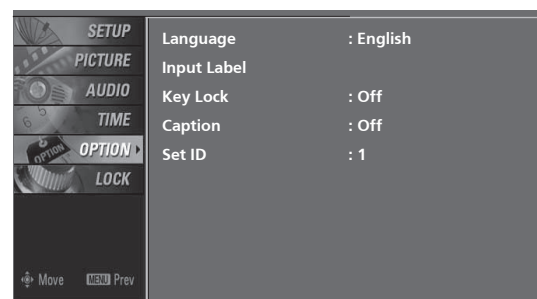
The TV can be set up so that it can only be used with the remote control.

This feature can be used to prevent unauthorized viewing by locking out the front panel controls.

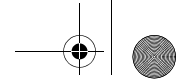
This TV is programmed to remember which option it was last set to even if you turn the TV off.



- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **OPTION** menu.
- 2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Key Lock**.
- 3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **On** or **Off**.
- 4 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



WATCHING TV / CHANNEL CONTROL



# PICTURE CONTROL

## PICTURE SIZE (ASPECT RATIO) CONTROL

This feature lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV.

- RGB-PC input source use 4:3 or 16:9 aspect ratio.



**NOTE**

- ▶ If a fixed image is displayed on the screen for a long time, the image could become imprinted on the screen and remain visible. This phenomenon is common to all manufacturers and is not covered by warranty. Although, after watching video that did not fill the screen, any afterimage from the black bars will normally dissipate after a few minutes.

- 1 Press the **RATIO** button repeatedly to select the desired picture format.
  - You can also adjust Aspect Ratio in the **PICTURE** menu.

PICTURE CONTROL

### Set by program

Selects the proper picture proportion to match the source's image.

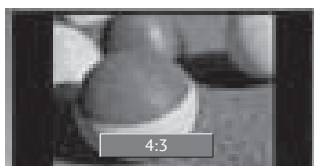
(4:3 → 4:3)

(16:9 → 16:9)



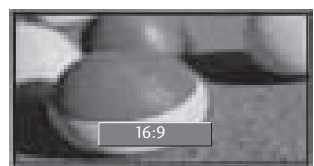
### 4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.



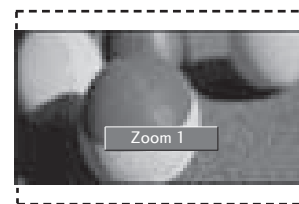
### 16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.



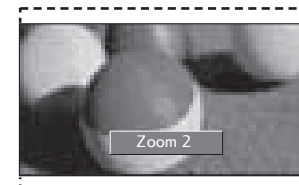
### Zoom 1

Choose Zoom 1 when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.



### Zoom 2

Choose Zoom 2 when you want the picture to be altered, both vertically extended and cropped. The picture taking a halfway trade off between alteration and screen coverage.

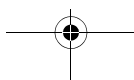
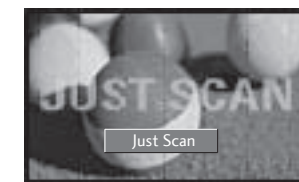


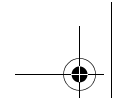
### Just Scan

Following selection will lead you to view the picture of best quality without loss of original picture in high resolution image.

Notes: If there are noise in original picture, you can see the noise at the edge.

**Just Scan** operates only in DTV/CADTV (720p/1080i/1080p), HDMI-DTV, DVI-DTV input source.





## PRESET PICTURE SETTINGS

### Picture Mode - Preset

There are factory presets for picture settings available in the user menus. You can use a preset, change each setting manually, or use the Intelligent Sensor.

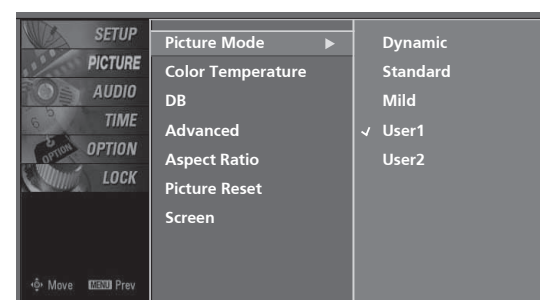
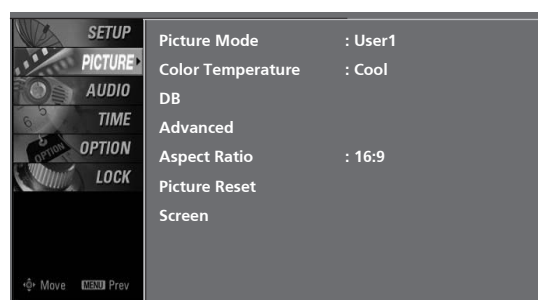
**Dynamic, Standard, Mild** Settings are preset for the optimum picture quality at the factory and are not adjustable.

In the **User1** and **User2** modes only, user can directly adjust the contrast, brightness, color, sharpness, tint, backlight.

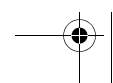
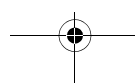
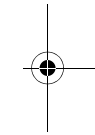
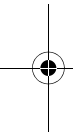


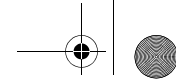
- 1 Press the **PICTURE** button repeatedly to select the picture appearance setup option as below :  
**Dynamic, Standard, Mild, User1** (your own settings), and **User2** (your own settings).
- 2 Press the **RETURN** button to save and return to TV viewing.

■ You can also use the **PICTURE** menu to adjust **Picture Mode**.



PICTURE CONTROL





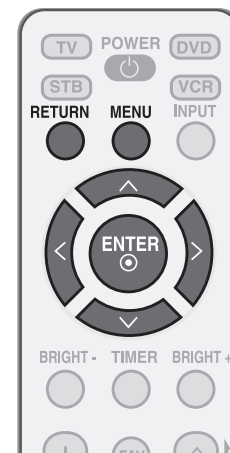
## PICTURE CONTROL

### Color Tone - Preset

Choose one of three automatic color adjustments. Set to Warm to enhance hotter colors such as red, or set to Cool to see less intense colors with more blue.

When selecting Picture Mode options (Dynamic, Standard and Mild), Color Temperature is automatically changed.

When selecting Picture Mode options (User1 and User2), you can choose the Color Temperature.



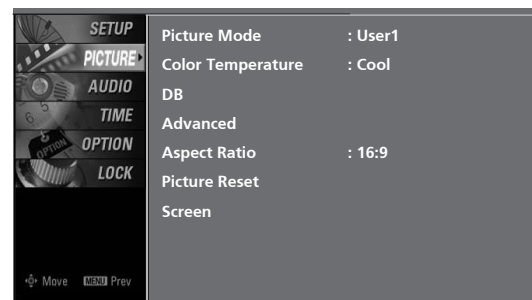
PICTURE CONTROL

**1** Press the **MENU** button and then use **^** or **v** button to select the **PICTURE** menu.

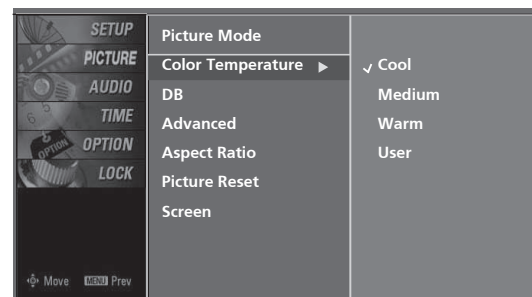
**2** Press the **>** button and then use **^** or **v** button to select **Color Temperature**.

**3** Press the **>** button and then use **^** or **v** button to select either **Cool**, **Medium**, **Warm** or **User**.

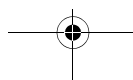
**4** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.

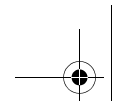


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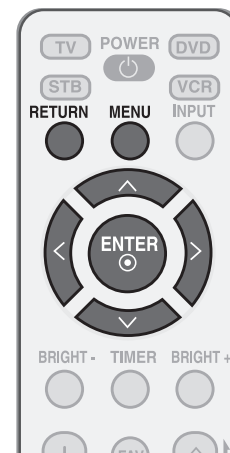




## MANUAL PICTURE ADJUSTMENT

### Picture Mode - User Mode

Adjust the picture appearance to suit your preference and viewing situations.



**1** Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.

**2** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Picture Mode**.

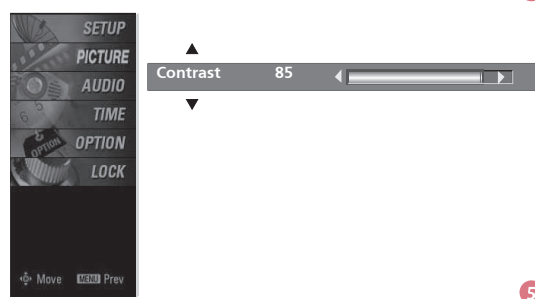
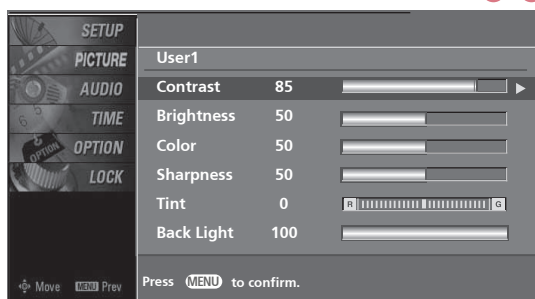
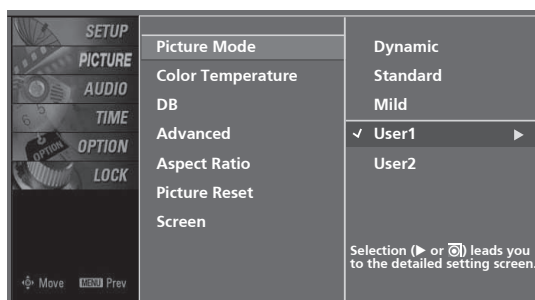
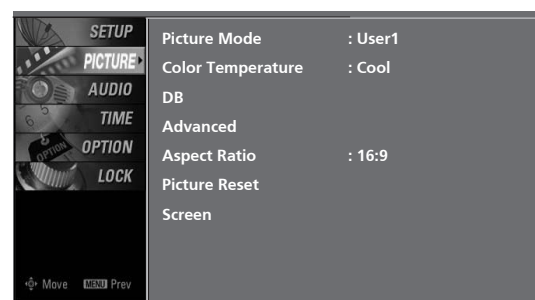
**3** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **User1** or **User2**.

**4** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, **Tint**, or **Back Light**).

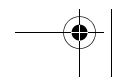
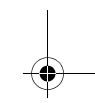
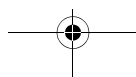
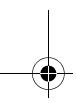
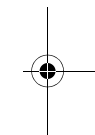
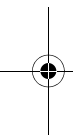
- **Back Light**  
To control the brightness of the screen, adjust the brightness of LCD panel.

**5** Press the  $\>$  button and then use  $\leftarrow$  or  $\rightarrow$  button to make appropriate adjustments.

**6** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



PICTURE CONTROL

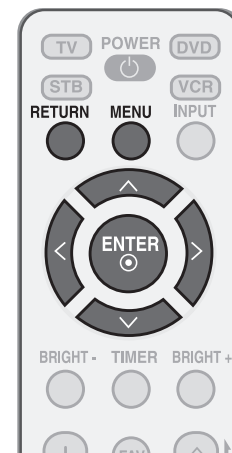


## PICTURE CONTROL

### Color Tone - User Mode

You can also adjust the detailed settings (Red, Green, Blue) by selecting the **Color Temperature-User** menu.

When selecting Picture Mode options (User1 and User2), you can choose the **Color Temperature**.



PICTURE CONTROL

**1** Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.

**2** Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Color Temperature**.

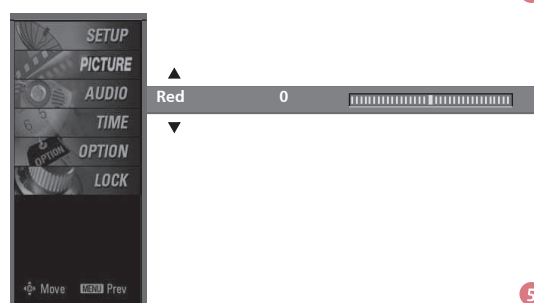
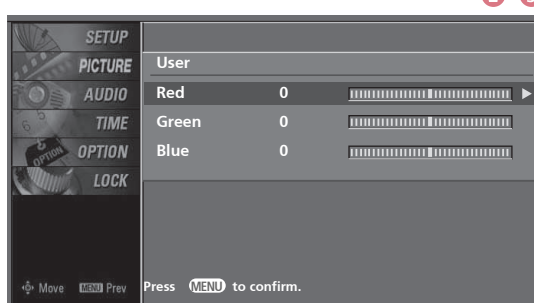
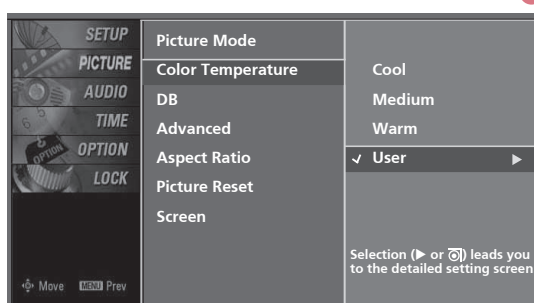
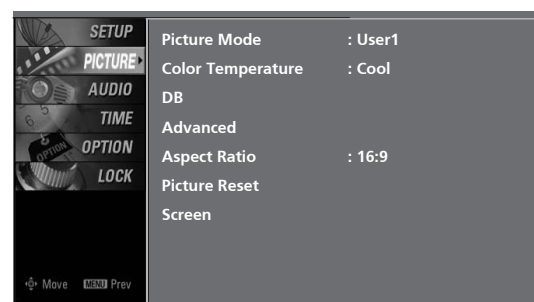
**3** Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **User**.

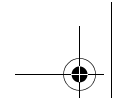
**4** Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Red, Green, or Blue**.

**5** Press the  $\triangleright$  button and then use  $\triangleleft$  or  $\triangleright$  button to make appropriate adjustments.

- The adjustment range of **Red, Green, or Blue** is -20~ +20.

**6** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.





## DB - PICTURE IMPROVEMENT TECHNOLOGY

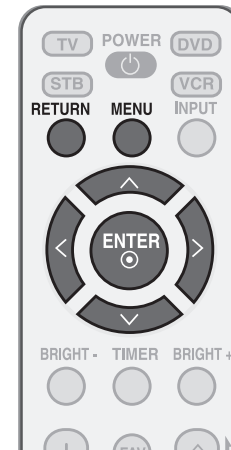
DB is Zenith's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

When selecting Picture Mode options (Dynamic, Standard, and Mild), DB is automatically changed to Auto.

When selecting Picture Mode options (User1 and User2), you can choose the Auto / Manual.

When selecting the Manual, you can adjust the DB Contrast, DB Color and DB Noise.

It's not available to use this function in RGB-PC input source.



1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.

2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **DB**.

3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select either **Auto** or **Manual**.

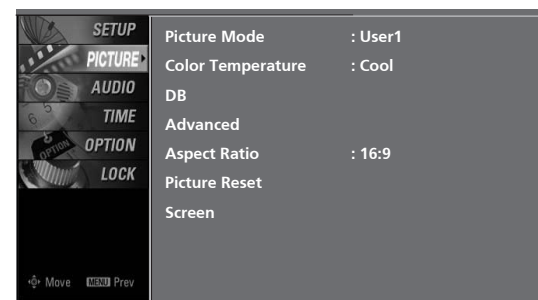
### Selecting the Manual

1. Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **DB Contrast**, **DB Color** or **DB Noise**.

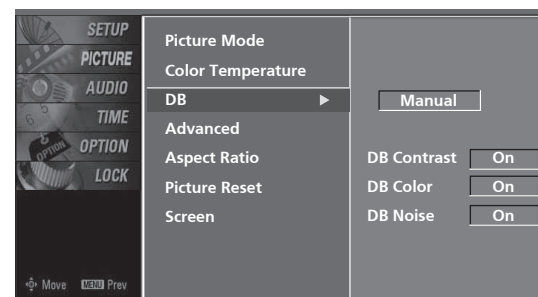
- **DB Contrast:** Optimizing the contrast automatically according to the brightness of the reflection.
- **DB Color:** Adjusting the colors of the reflection automatically to reproduce as closely as possible to the natural colors.
- **DB Noise:** Removing the noise up to the point where it does not damage the original picture.

2. Use the  $\lt$  or  $\gt$  button to select **On** or **Off**.

4 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.

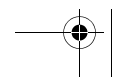
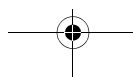
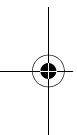
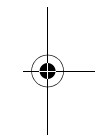


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PICTURE CONTROL



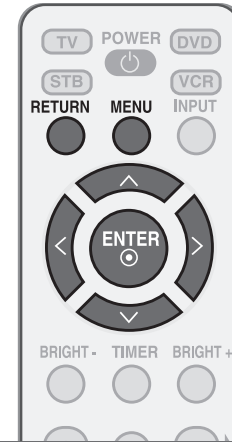
## PICTURE CONTROL

### ADVANCED - CINEMA 3:2 PULL DOWN MODE

Set up the TV for the best picture appearance for viewing movies.

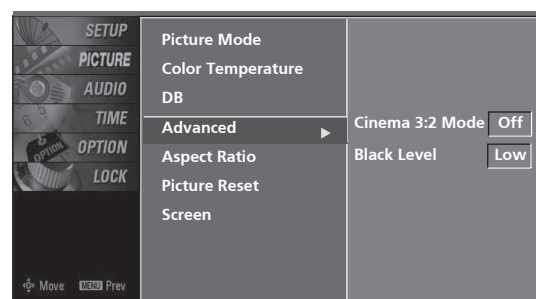
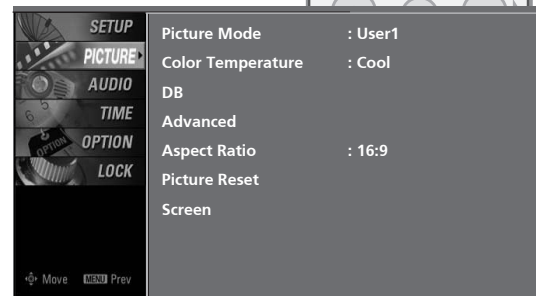
When you operate Cinema 3:2 Mode (3:2 Pull-Down Mode or Cinema Correction Mode), the TV will adjust 24 fps video from movies to 30 fps video for display.

This feature operates only in TV (Analog TV/CATV, Digital DTV/CADTV), AV1, AV2, Component 480i/1080i, and HDMI 1080i mode.



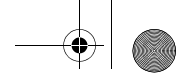
PICTURE CONTROL

- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.
- 2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Advanced**.
- 3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Cinema 3:2 Mode**.
- 4 Use  $\lt$  or  $\gt$  button to select **On** or **Off**.
- 5 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



3 4

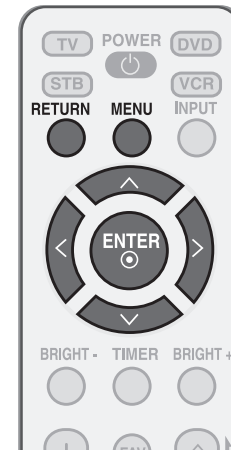




## ADVANCED - BLACK (DARKNESS) LEVEL

Adjusting the contrast and the brightness of the screen using the black level of the screen.

This feature operates only in AV 1, AV 2, HDMI1, or HDMI2 mode.



**1** Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.

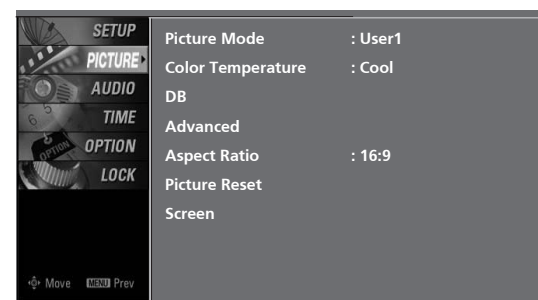
**2** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Advanced**.

**3** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Black Level**.

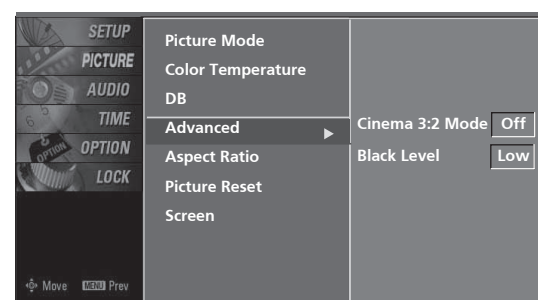
**4** Use  $\lt$  or  $\gt$  button to select **Low** or **High**.

- **Low**  
The screen gets darker.
- **High**  
The screen gets brighter.

**5** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



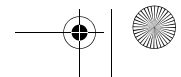
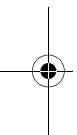
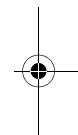
**1**

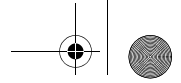


**2 3 4**



PICTURE CONTROL

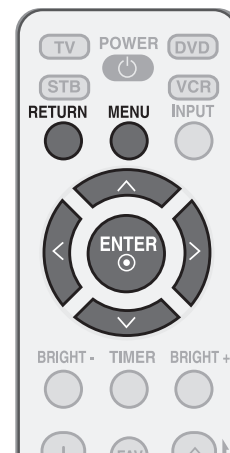




## PICTURE CONTROL

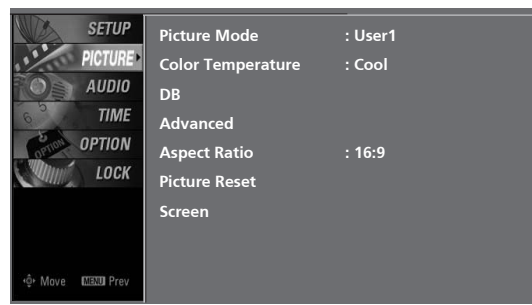
### PICTURE RESET

Use to quickly reset all the Picture menu options to their original factory preset values.

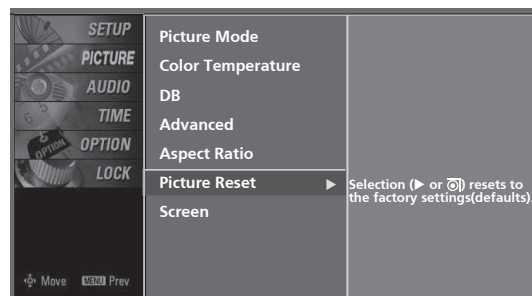


PICTURE CONTROL

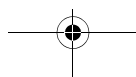
- 1 Press the **MENU** button and then use **^** or **v** button to select the **PICTURE** menu.
- 2 Press the **>** button and then use **^** or **v** button to select **Picture Reset**.
- 3 Press the **>** button to reset the **PICTURE** menu options to original values.

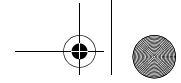


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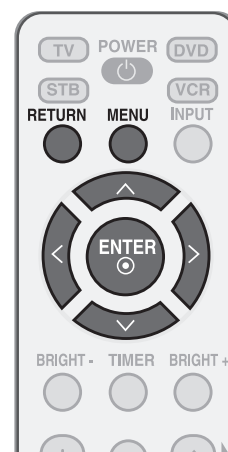




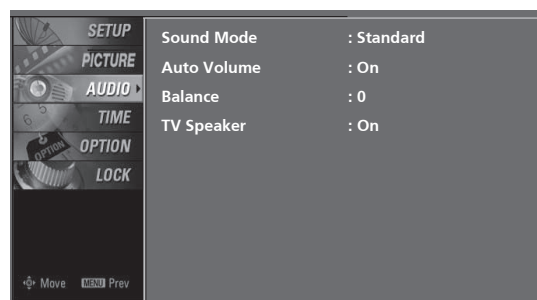
# SOUND & LANGUAGE CONTROL

## AUTO VOLUME LEVELER (AUTO VOLUME)

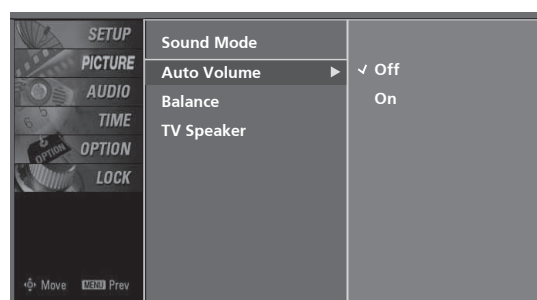
Auto Volume makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.



- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **AUDIO** menu.
- 2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Auto Volume**.
- 3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **On** or **Off**.
- 4 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



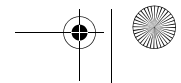
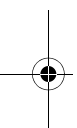
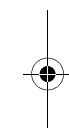
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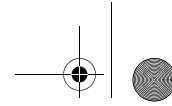


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SOUND & LANGUAGE CONTROL





## SOUND & LANGUAGE CONTROL

### PRESET SOUND SETTINGS (SOUND MODE)

Sound Mode lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.

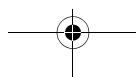
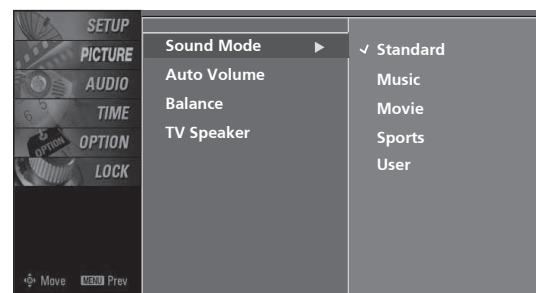
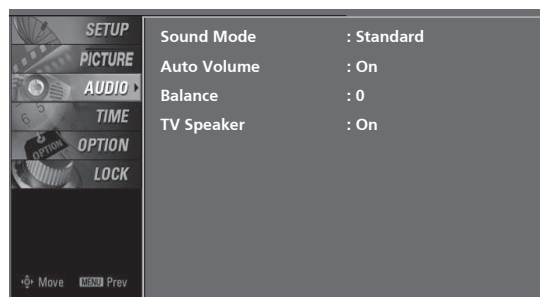
Standard, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.

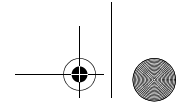


- 1 Press the **SOUND** button repeatedly to select the appropriate sound setup as below:  
**Standard, Music, Movie, Sports, and User** (your own settings).

- 2 Press **RETURN** button to return to TV viewing.

■ You can also adjust **Sound Mode** in the **AUDIO** menu.





## SOUND SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.

1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **AUDIO** menu.

2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Sound Mode**.

3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **User**.

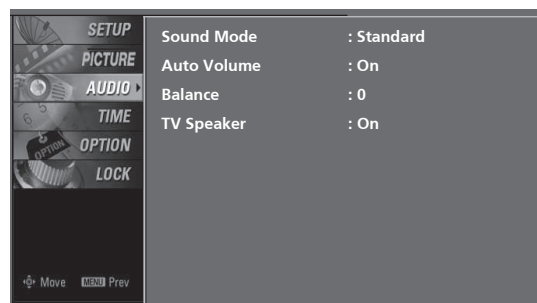
4 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select the desired sound option (**Treble**, **Bass**, or **Front Surround**).

5 Press the  $\>$  button and then use  $\leftarrow$  or  $\rightarrow$  button to make appropriate adjustments.

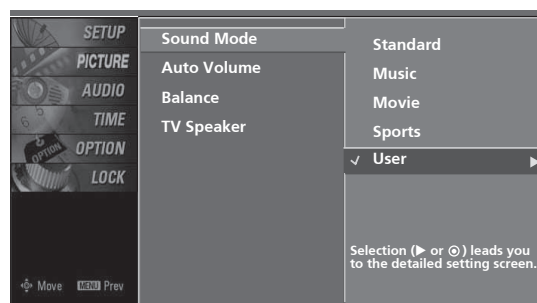
### Selecting the Front Surround

Press the  $\>$  button and then use  $\leftarrow$  or  $\rightarrow$  button to select **Off**, **3D EchoSound System** or **SRS** (Sound Retrieval System) **TruSurround XT**.

6 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



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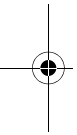
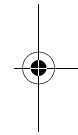
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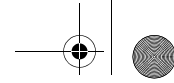
### SRS TruSurround XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement produces an immersive sound experience from standard stereo material.

### 3D EchoSound System

Creates a stunning simulated stereo effect from any mono sound and a realistic three-dimensional sound with a very wide and deep sound stage.

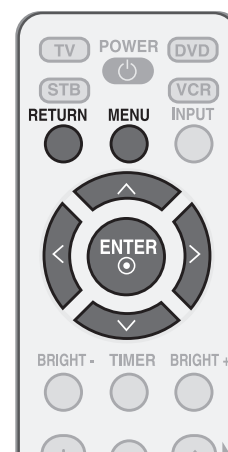




## SOUND & LANGUAGE CONTROL

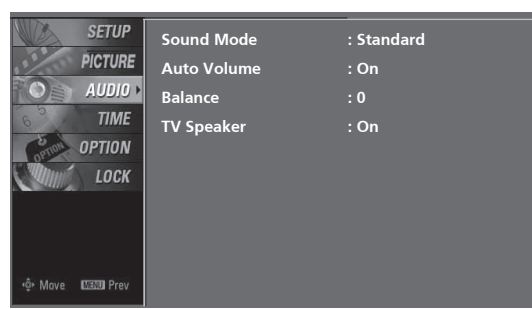
### BALANCE

Adjust the left/right sound of speaker to suit your taste and room situations.

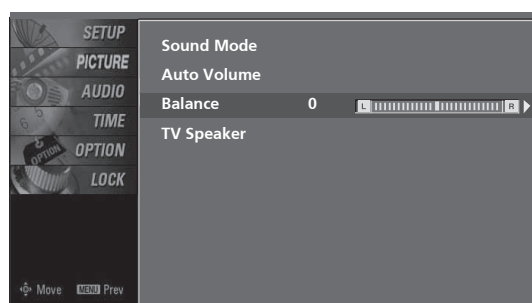


- 1 Press the **MENU** button and then use **^** or **v** button to select the **AUDIO** menu.
- 2 Press the **>** button and then use **^** or **v** button to select **Balance**.
- 3 Press the **>** button and then use **<** or **>** button to make appropriate adjustments.
- 4 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.

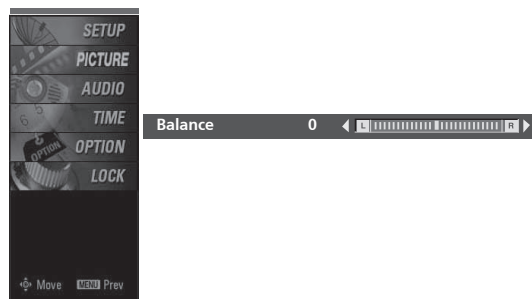
SOUND & LANGUAGE CONTROL



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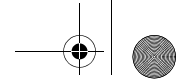


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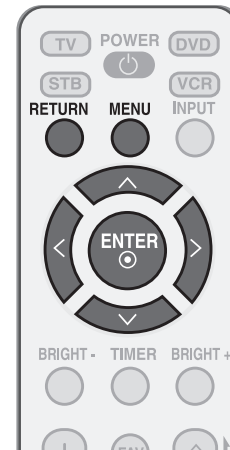
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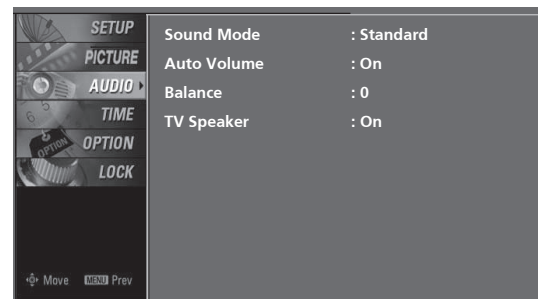


## TV SPEAKERS ON/OFF SETUP

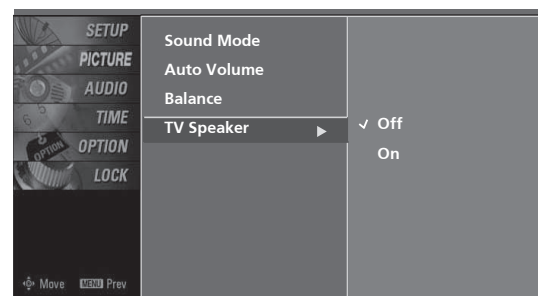
Turn the TV speakers off if using external audio equipment.



- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **AUDIO** menu.
- 2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **TV Speaker**.
- 3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **On** or **Off**.
- 4 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



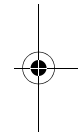
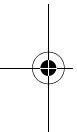
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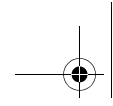


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SOUND & LANGUAGE CONTROL





## SOUND & LANGUAGE CONTROL

### STEREO/SAP BROADCASTS SETUP

For Analog only: This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program if the station transmits an additional sound signal. Mono sound is automatically used if the broadcast is only in Mono.

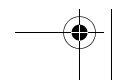
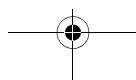
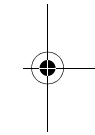
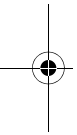


**1** Use the **SAP** button to select your desired MTS mode in analog signal. Each time you press the **SAP** button, **Mono**, **Stereo**, or **SAP** appear in turn.

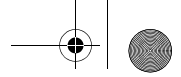
- If other languages available on the digital signal, select them with the **SAP** button.

**2** Press **RETURN** button to save and return to TV viewing.

SOUND & LANGUAGE CONTROL



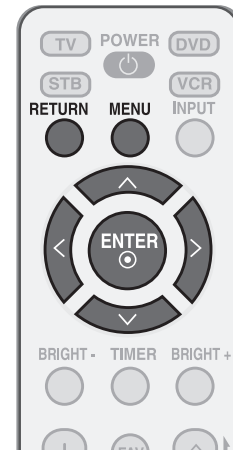




## AUDIO LANGUAGE

Other languages may be available if a digital signal is provided by the broadcasting station.

This feature operates only in DTV/CADTV mode.



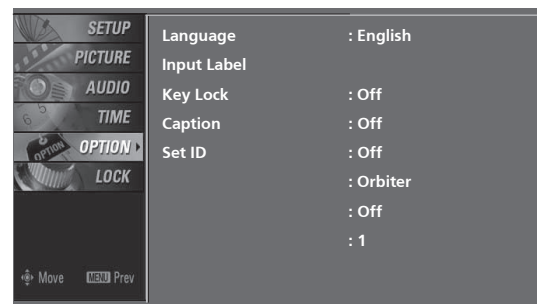
1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **OPTION** menu.

2 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Language**.

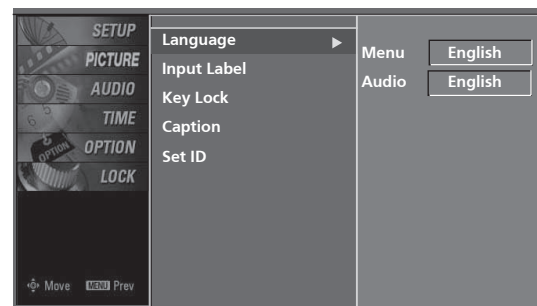
3 Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Audio**.

4 Use  $\leftarrow$  or  $\rightarrow$  button to select: **English, Spanish, or French**.

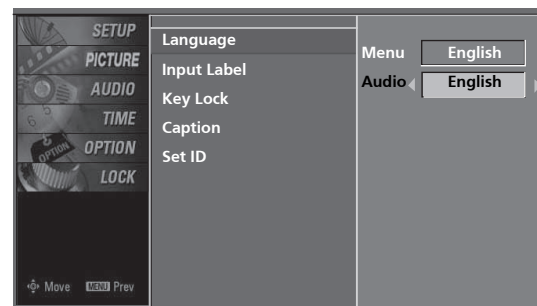
5 Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



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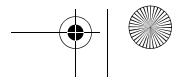
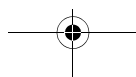
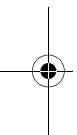
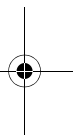
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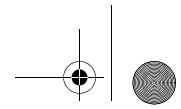


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SOUND & LANGUAGE CONTROL

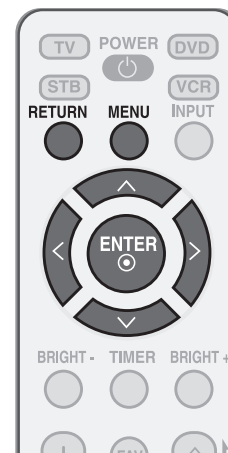




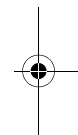
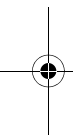
## SOUND & LANGUAGE CONTROL

### ON-SCREEN MENUS LANGUAGE SELECTION

The menus can be shown on the screen in the selected language. First select your language.



SOUND & LANGUAGE CONTROL



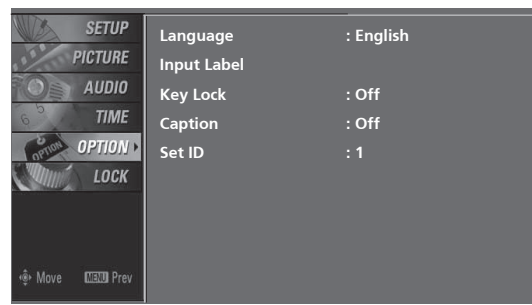
**1** Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **OPTION** menu.

**2** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Language**.

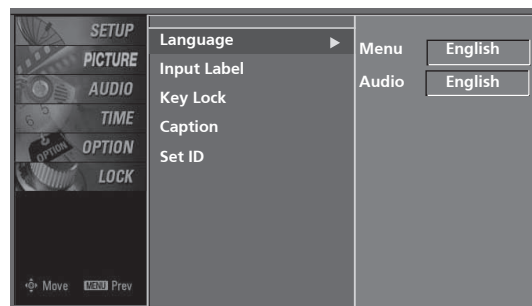
**3** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Menu**.

**4** Use  $\leftarrow$  or  $\rightarrow$  button to select your desired language. From this point on, the on-screen menus will be shown in the selected language.

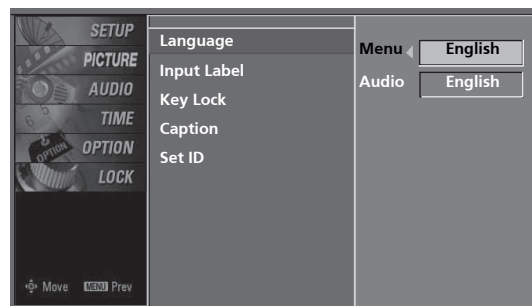
**5** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



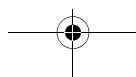
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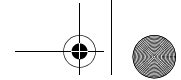


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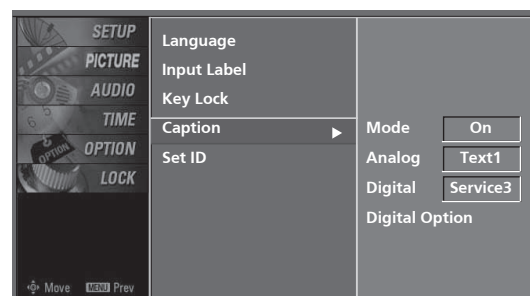
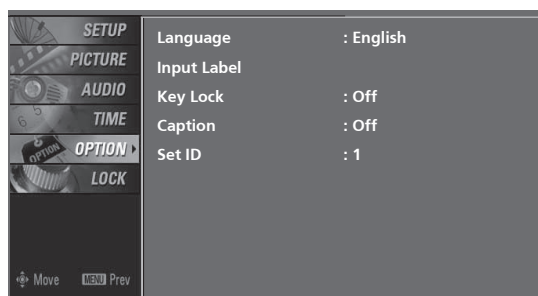
## CAPTION MODE

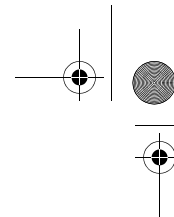
Caption must be provided to help people with hearing loss watch TV.



- 1 Use the **CC** button to select Caption **On** or **Off**.
  - When selecting **Off**, Sub-menus for Analog, Digital, and Digital Option become disabled.
- 2 Press **RETURN** to save and return to TV viewing.

■ You can also adjust **Caption** in the **OPTION** menu.

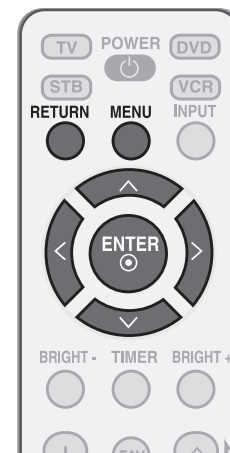




## SOUND & LANGUAGE CONTROL

### Analog Broadcasting System Captions

Caption must be provided to help people with hearing loss watch TV. Select a caption mode for displaying captioning information if provided on a program. Analog caption displays information at any position on the screen and is usually the program's dialog. Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable. This TV is programmed to memorize the caption/text mode which was last set when you turned the power off. This function is only available when **Caption Mode** is set **On**.



### SOUND & LANGUAGE CONTROL

**1** Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **OPTION** menu.

**2** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Caption**.

**3** Press the  $\>$  button and then use  $\wedge$  or  $\vee$  button to select **Analog**.

**4** Use  $\leftarrow$  or  $\rightarrow$  button to select **CC1, CC2, CC3, CC4, Text1, Text2, Text3** or **Text4**.

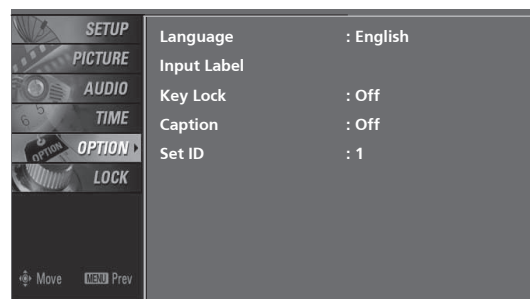
■ **CAPTION**

The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

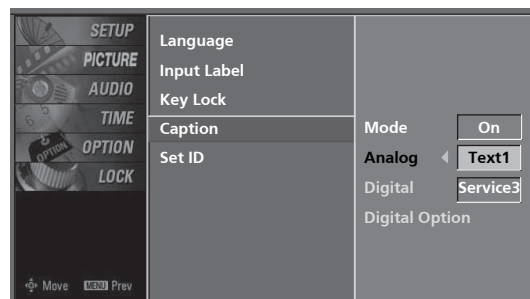
■ **TEXT**

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

**5** Press **RETURN** button to return to TV viewing or press **MENU** button to return to the previous menu.



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**2 3 4**