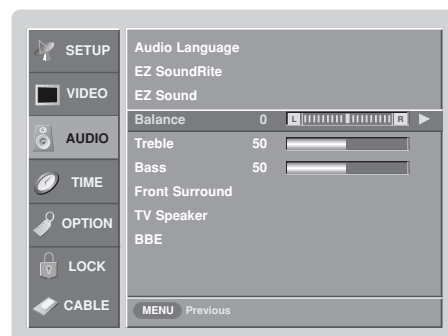


Manual Sound Control (**Custom** option)

- Adjust the sound to suit your taste and room situations.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **AUDIO** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select the desired sound option (**Balance**, **Treble**, or **Bass**).
3. Press the **▶** button and then use **◀ / ▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Front Surround

- **SRS** is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **AUDIO** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Front Surround**.
3. Press the **▶** button and then use **▲ / ▼** button to select **Off**, **3D EchoSound System** or **SRS** (Sound Retrieval System) **TruSurround XT**.

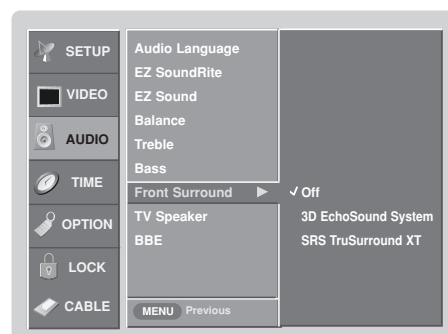
• 3D EchoSound System

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

• 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 that produces an immersive sound experience from standard stereo material.

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

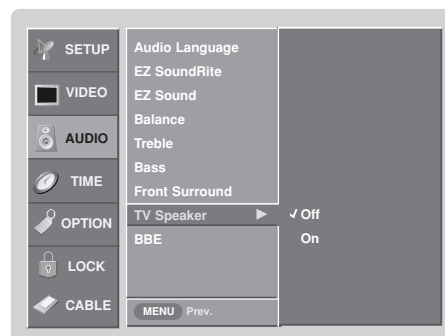


Audio Menu Options

TV Speakers On/Off Setup

- Turn TV speakers off if using external audio equipment. Feature turns the TV Speakers option On or Off.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **▶** button and then use **▲** / **▼** button to select **TV Speaker**.
3. Press the **▶** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Stereo/SAP Broadcasts Setup

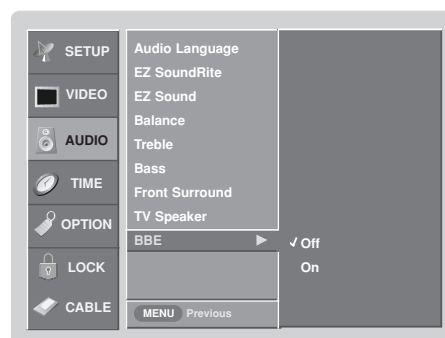
- This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.
 - When having selected Stereo or SAP button on the remote control, this TV can only receive the signal in case that the TV station transmits the proper signals.
 - Mono sound is automatically received if the broadcast is only in Mono; even though Stereo or SAP has been selected.
 - Select Mono if you want to listen to the mono sound in remote fringe areas during stereo/SAP broadcasting.
 - Stereo or SAP can be received in Analog channel.
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 **EXIT** button to save and return to TV viewing.

BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **▶** button and then use **▲** / **▼** button to select **BBE**.
3. Press the **▶** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **ENTER** button to return to the previous menu.

BBE® Manufactured under license from BBE Sound, Inc.

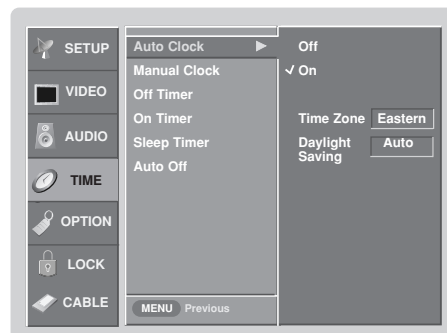


Time Menu Options

Auto Clock Setup

- The time is set automatically from a digital channel signal.
- The digital channel signal includes information for the current time provided by the broadcasting station.
- Set the clock manually, if the current time is set incorrectly by the auto clock function.
- When you set up TV guide on screen system, **Auto Clock** menu is not selected.

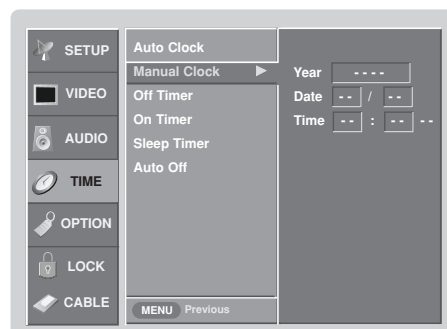
1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Auto Clock**.
3. Press the **►** button and then use **▲ / ▼** button to select **On**.
4. Press the **►** button and then use **▲ / ▼** button to select your viewing area time zone: **Eastern, Central, Mountain, Pacific, Alaska, or Hawaii**.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Manual Clock Setup

- If current time setting is wrong, reset the clock manually.
- When you set up TV guide on screen system, **Manual Clock** menu is not worked.

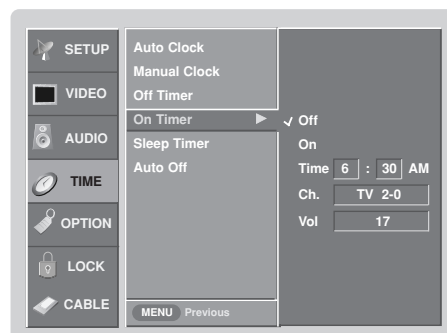
1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Manual Clock**.
3. Press the **►** button and then use **◀ / ▶** button to select either the year, date, or time option. Once selected, use the **▲ / ▼** button to set the year, date, and time options.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



On/Off Timer Setup

- Timer function operates only if current time has been set.
- Off-Timer function overrides On-Timer function if they are set both set to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Off Timer** or **On Timer**.
3. Press the **►** button and then use **▲ / ▼** button to select **On**.
 - To cancel **On/Off timer** function, select **Off**.
4. Press the **►** button and then use **▲ / ▼** button to set the hour.
5. Press the **►** button and then use **▲ / ▼** button to set the minutes.
6. **For only On timer function**
 - Press the **►** button and then use **▲ / ▼** button to select the channel at turn-on.
 - Press the **►** button and then use **▲ / ▼** button to set the sound level at turn-on.
7. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



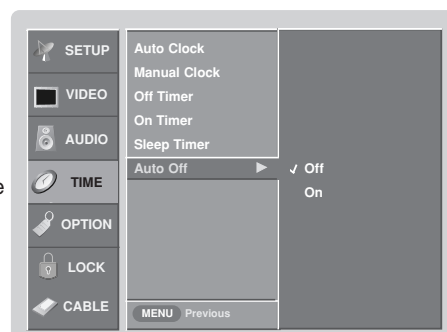
Time Menu Options

Sleep Timer

- The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.
 - You can also set up the **Sleep Timer** in the **TIME** menu.
1. Press the **TIMER** button repeatedly to select the number of minutes. First the **Off** option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
 2. When the number of minutes you want is displayed on the screen, press the **ENTER** button. The timer begins to count down from the number of minutes selected.
 3. To check the remaining minutes before the TV turns off, press the **TIMER** button once.
 4. To cancel the Sleep Timer, press the **TIMER** button repeatedly to select **Off**.

Auto Off

- If set to on and there is no input signal, the TV turns off automatically after 10 minutes.
1. Press the **MENU** button and then use **▲** / **▼** button to select the **TIME** menu.
 2. Press the **►** button and then use **▲** / **▼** button to select **Auto Off**.
 3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
 4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



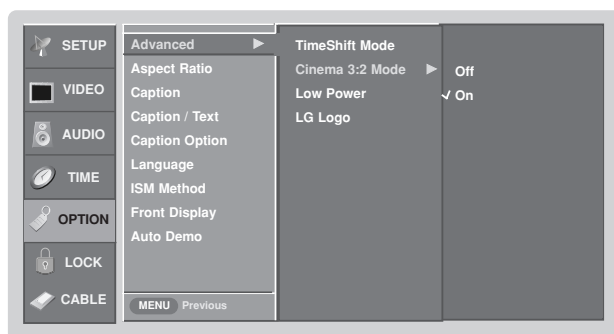
Option Menu Options

TimeShift Mode Setup

- Refer to the p.?

Cinema 3:2 Mode Setup

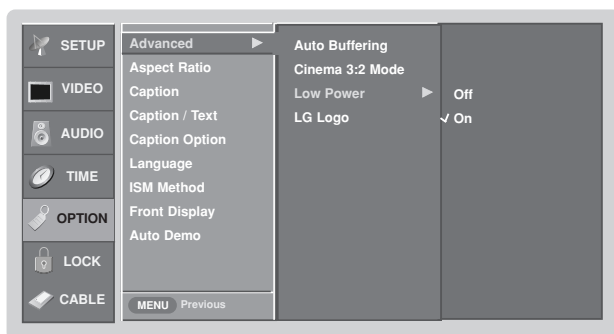
- Set up the TV for the best picture appearance for viewing movies.



1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Cinema 3:2 Mode**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Low Power

- Low power reduces the plasma display power consumption.

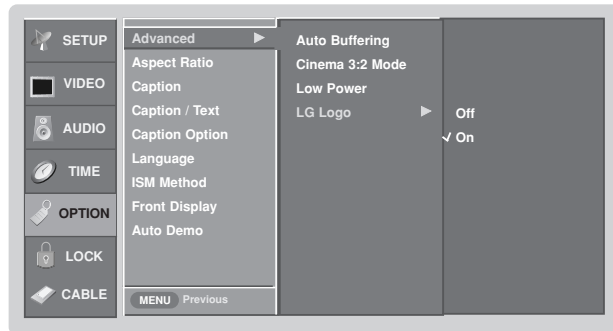


1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Low power**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
 - When you select **On**, the screen darkens.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Option Menu Options

LG Logo

- This function is only applied TU-60PY22 model.



1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **LG Logo**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
 - When you select **On**, the Logo is lighting.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Aspect Ratio Control

- Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed.
 - If you are viewing a picture with a 16:9 aspect ratio, you can't use the Horizon aspect ratio option.
 - Horizon aspect ratio is not available for Component 1-2 (720p/1080i)/RGB-DTV (720p/1080i)/HDMI1/DVI-DTV (720p/1080i)/DTV(720p/1080i) input source.
 - RGB-PC/DVI-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, that fixed image may become imprinted on the screen and remain visible.
1. Press the **RATIO** button repeatedly to select the desired picture format.
You can also adjust **Aspect Ratio** in the **OPTION** menu.

- **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, with black bars appearing at both the left and right sides.

- **16:9**

Choose **16:9** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

- **Horizon**

Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.

- **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.

- **Cinema Zoom**

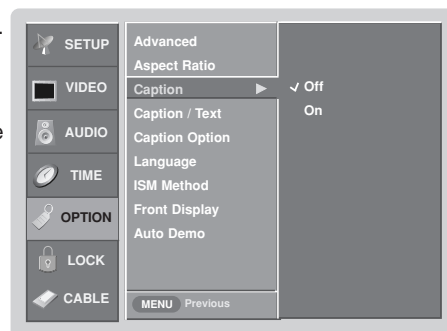
Choose **Cinema Zoom** when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.

You can adjust the enlarge proportion of Cinema Zoom using ▲ / ▼ button. The adjustment range is 1~16.

Option Menu Options

Caption

1. Press the **MENU** button and then use **▲** / **▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Caption**.
3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption/Text

Analog Broadcasting System Captions

- Select a caption mode for displaying captioning information if provided on a program.
- Analog caption displays information at any position on the screen usually the program's dialog.
- Text displays information, usually at the bottom position and is used for a data service, generally not program related.
- 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 remember the caption/text mode it was last set to, when you turn the power off.

1. Use the **CC** button repeatedly to select Caption **CC1**, **CC2**, **CC3**, **CC4**, **Text1**, **Text2**, **Text3**, or **Text4**.
 - **EZ Mute** shows the selected captions option (if available on program) when the TV sound is muted
2. Press **EXIT** button to save and return to TV viewing.

- You can also use the **OPTION** menu to select **Caption/Text**.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Caption/Text**.
3. Press the **►** button and then use **▲** / **▼** button to select caption: **CC1**, **CC2**, **CC3**, **CC4**, **Text1**, **Text2**, **Text3**, or **Text4**.

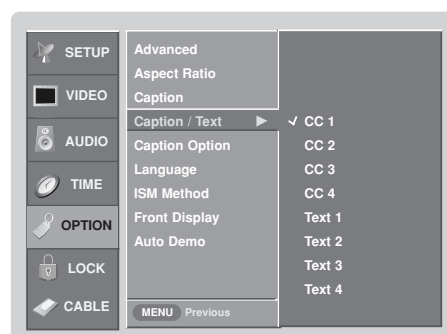
• CAPTION

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.

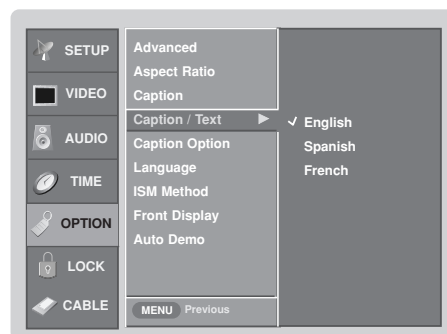
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Digital Broadcasting System Captions

- Choose the language you want the DTV/CADTV Captions to appear in.
- Languages can be chosen for digital sources only if they are included on the program.

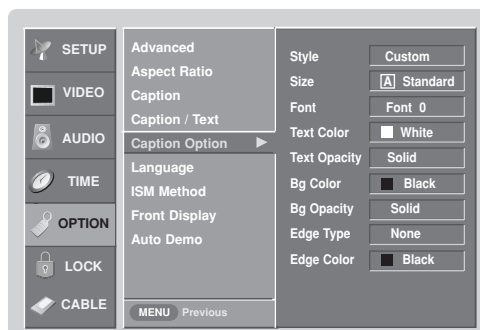
1. Press the **MENU** button and then use **▲** / **▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Caption/Text**.
3. Press the **►** button and then use **▲** / **▼** button to select available caption languages: **English**, **Spanish**, or **French**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption Option

- Customize the DTV/CADTV captions that appear on your screen.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Caption Option**.
3. Press the **►** button and then use **◀** / **▶** button to select **Custom**.
4. Use **▲** / **▼** button to customize the Style, Font, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language.
 - **Size**: Set the size the words will appear in.
 - **Font**: Select a typeface for the words.
 - **Text Color**: Choose a color for the text.
 - **Text Opacity**: Specify the opacity for the text color.
 - **Bg (Background) Color**: Select a background color.
 - **Bg (Background) Opacity**: Select the opacity for the background color.
 - **Edge Type**: Select an edge type.
 - **Edge Color**: Select a color for the edges.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Option Menu Options

ISM (Image Sticking Minimization) Method

- A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in an ghost image remaining; even when you change the image. Avoid allowing any fixed image to remain on the TV's screen for a long period of time.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **ISM Method**.
3. Press the **▶** button and then use **▲ / ▼** button to select either **Normal**, **White wash**, **Orbiter** or **Inversion**.

- **Normal**

If image sticking is never a problem, ISM is not necessary - set to Normal.

- **White wash**

White Wash removes permanent images from the screen.

Note: An excessive permanent image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button.

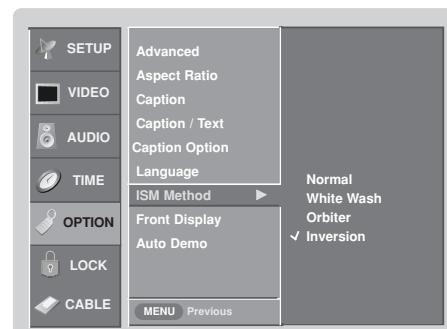
- **Orbiter**

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the image will move once per minute: Right → Right → Downside → Downside → Left → Left → Upside → Upside.

- **Inversion**

Inversion will automatically invert the plasma display panel color every 30 minutes.

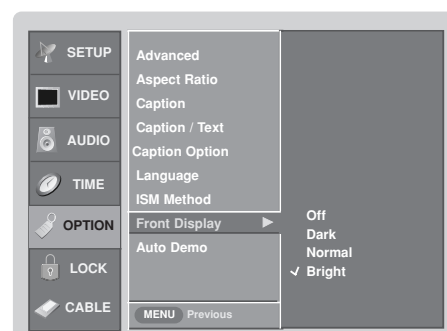
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Front LED (Light Emitting Diode) Display

- Illuminates brightly when the set is turned on. The LED displays current TV status.

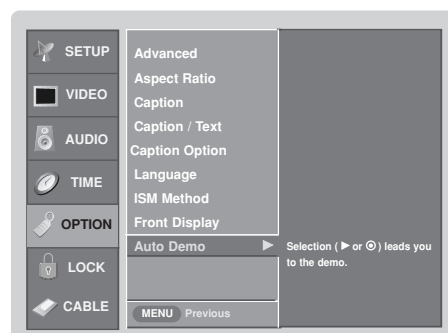
1. Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Front Display**.
3. Press the **▶** button and then use **▲ / ▼** button to select **Off**, **Dark**, **Normal**, and **Bright**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Auto Demo

- Displays the slide show to explain the main features of this TV.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Auto Demo**.
3. Press **EXIT** button to stop Auto Demo.



Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

1. Set ratings and categories to be blocked.
2. Specify a password
3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Movies previously shown in theaters:

Movie Ratings :

- Blocking Off (Permits all programs)
- G (General audience)
- PG (Parental guidance suggested)
- PG-13 (Parents strongly cautioned)
- R (Restricted)
- NC-17 (No one 17 and under admitted)
- X (Adult only)

If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.

Ratings for Television programs including made-for-TV movies :

- TV-G (General audience)
- TV-PG (Parental guidance suggested)
- TV-14 (Parents strongly cautioned)
- TV-MA (Mature audience only)
- TV-Y (All children)
- TV-Y7 (Children 7 years older)

TV Rating Children:

- Age (applies to TV-Y, TV-Y7)
- Fantasy Violence (applies to TV-Y7)

TV Rating General:

- Age (applies to TV-G, TV-PG, TV-14, TV-MA)
- Dialogue - sexual dialogue (applies to TV-PG, TV-14)
- Language - adult language (applies to TV-PG, TV-14, TV-MA)
- Sex - sexual situations (applies to TV-PG, TV-14, TV-MA)
- Violence (applies to TV-PG, TV-14, TV-MA)

Input Block

- Video, Front Video (On, Off)
- Component 1, 2 (On, Off)
- RGB, HDMI1/DVI, HDMI2 (On, Off)

Parental Lock Setup

- Set up blocking schemes to block specific channels, ratings, and external viewing sources.
- A password is required to gain access to this menu if the Lock System is turned on.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **LOCK** menu. Then, press the **►** button

- If **Lock** is already set, enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".

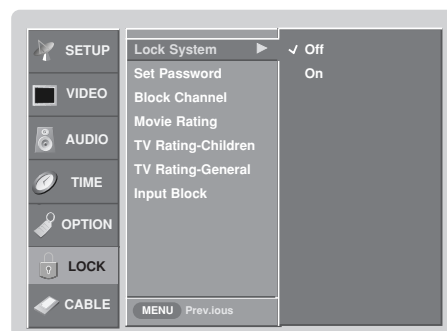
2. Use the **▲** / **▼** button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference.

- **Lock System:** Activates or disables the blocking scheme you set up previously.
- **Set Password:** Change the password by inputting a new password twice.
- **Movie Rating (MPAA):** Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.
- **TV Rating-Children:** Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs.
- **TV Rating-General:** Based on the ratings, blocks certain TV programs that you and your family do not want to view.
- **Input Block:** Enables you to select a source to block from the external source devices you have hooked up.

3. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Note:

- If you ever forget your password, key in '7', '7', '7', '7' on the remote control.

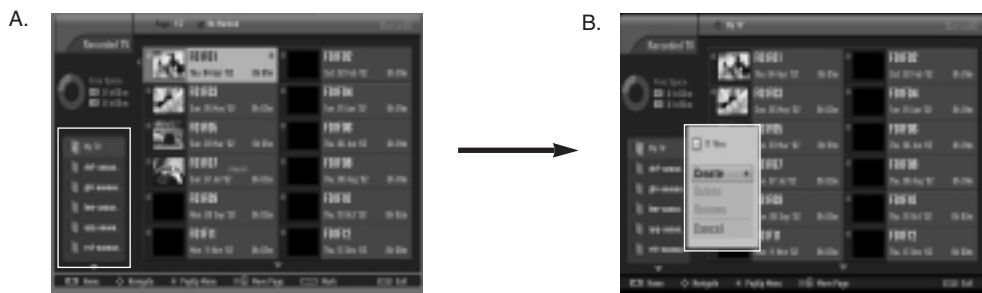




Recorded TV

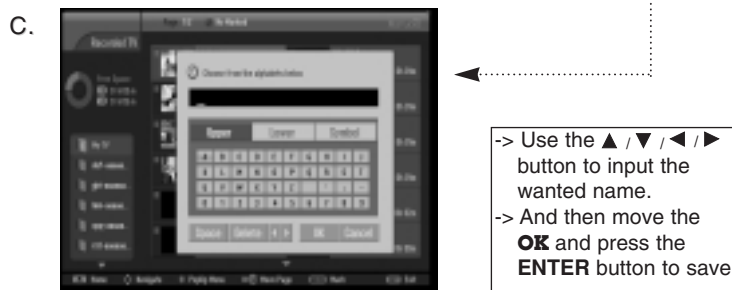
- When you press the **XStudio** button, **HOME** menu is displayed. From here, you can view the recorded program list.
- Or pressing the **REC LIST** button, you directly enter the recording list.

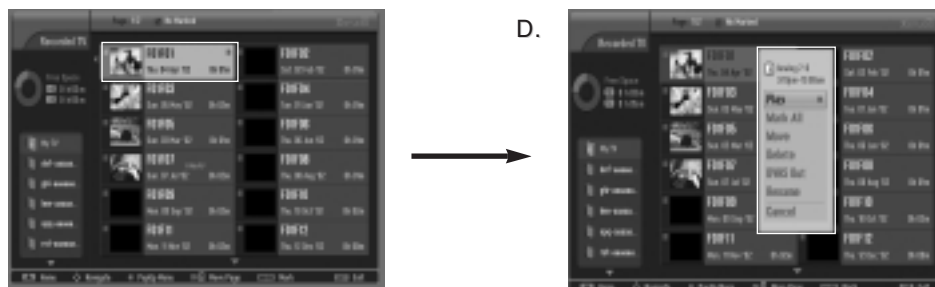
1. Select the **Recorded TV** in **HOME** menu or press the **REC LIST** button to view the recording list as shown below.



3. Select the desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- **Create:** Create new folder.
- **Delete:** Delete folder (except 'My TV').
- **Rename:** Edit folder name.
- **Cancel:** Close the detailed menu.

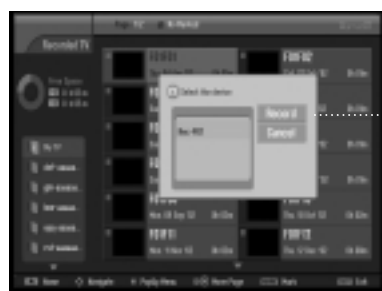




- The current thumbnail recorded list is shown above.

1. Use the **CH +/-** button to navigate thumbnail photo in pages.
2. Use **MARK** button to add or delete the marked photo to the mark list and only marked photos are toggling.
3. Use **▲ / ▼ / ◀ / ▶** button to navigate the appropriate thumbnail photo, then press the **ENTER** button to open the pop-up menu.

- **Play:** Begin playback of selected recording.
- **Mark All:** mark all photos on the screen.
- **Unmark All:** Change marked photos to unmarked photos.
- **Move:** Move program saved in HDD to the other folder.



- Through the 1394, can be recorded the desired program.
When a device is not connected to the 1394 port, "**No DVHS Connected**" is displayed on the screen.

- **Delete:** Delete the selected recording. This menu is only available in HDD mode.
- **DVHS Out:** When DVHS is connected, selected program is saved to the DVHS.
- **Rename:** Edit recorded name.
- **Cancel:** Close the Pop-up menu.

4. Repeatedly, press **REC LIST** button or **EXIT** button to return to TV viewing or press **X-Studio** button to return to the previous menu.

Using the Memory Card

What is Memory Card

This is a device equipment to communicate the data between AV external equipment. It's used to a digital camera, camcorder, MP3 player, notebook or PDA.

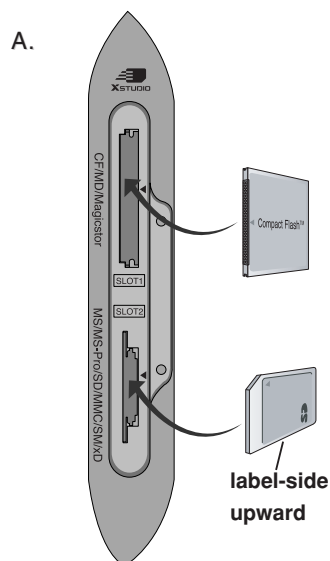
Precaution for Using the Memory Card

- Insert the memory card correctly.
- Don't insert the metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the TV, please keep the memory stick in a appropriate case to prevent static shock.
- The stored data may be changed or lost as a result of misuse, static electricity.
- Do not turn the power off while using the memory card (loading or erasing).
- Don't eject the memory card while using the it. Otherwise, it may cause a data loss or card damage.
- Only Insert one card to each slot.
- To prevent a change or loss for stored data, don't mis-use the TV or don't let static electricity or electrical noise for TV.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the TV set, inappropriate TV settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer shall not be responsible for damaged data. Be careful to avoid data damage, and back up your files.
- Make sure to comply with the following steps when ejecting a memory card.

Entry Modes- 1.Using the Memory Card / 2. Enter the HOME Menu

1.Using the Memory Card

How to insert and eject the Memory Card



◆ Inserting a Card

1. Insert the Memory Card to Memory card slots of TV side panel, refer to the figure shown on the left.
2. Two slots support different types of the Memory Cards.
3. If Memory Card is not inserted, each slot is disable.

◆ Ejecting a card

1. Press the **M/C EJECT** button on the remote control.
2. Select the **Memory 1** or **Memory 2** based on the inserted card location.
If selecting **Cancel**, OSD is disappeared.
3. Eject the card with the hand.

Notes:

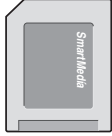
- If you insert or eject a card in one slot while the card in another slot (slot 1 or slot 2) is in use, the product can run abnormally.
- Screen saver will be work if you don't eject the memory card with the hand after operating the eject function.



Caution: Before you remove the memory card from the slot, do not forget to press the **M/C EJECT** button on the remote control and make it safe to eject the memory card, or the memory card may be damaged.

Memory Card type and Memory Card capacity

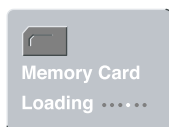
- 9 types of Memory Card can be used for this Plasma TV.
- Playback speed can vary dependent on the card type.

Slot 1	Slot 2
• CF (CompactFlash) : 2GB • MD (Microdrive) : 2GB • CF+ (magicstor) :2.2GB	• SD (Secure Digital) : 512MB • MMC (MultiMedia Card) : 256MB • MS (Memory Stick) :128MB • MS Pro (Memory Stick Pro) : 1GB • SMC (Smart Media Card) : 128MB • XD (XD-Picture Card) : 512MB
  	     

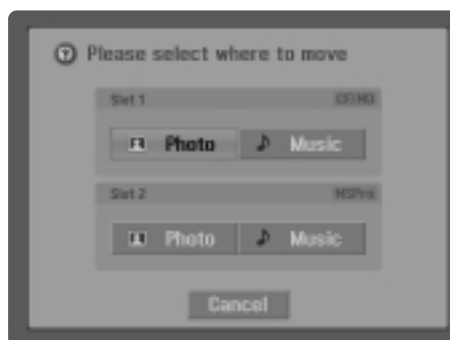
◆ Select the Photo or Music

- When you plug the Memory Card, this screen is displayed, automatically.

B.



C.



1. Press the ◀/▶ button to select **Photo/Music**, and use ▲/▼ button to select **Slot1** or **Slot2**.
2. Press **ENTER** button to move **Photo List/Music List** of the each slot. (Directly move to p.41_pic.C)

- 2.Enter the HOME Menu

Photo List

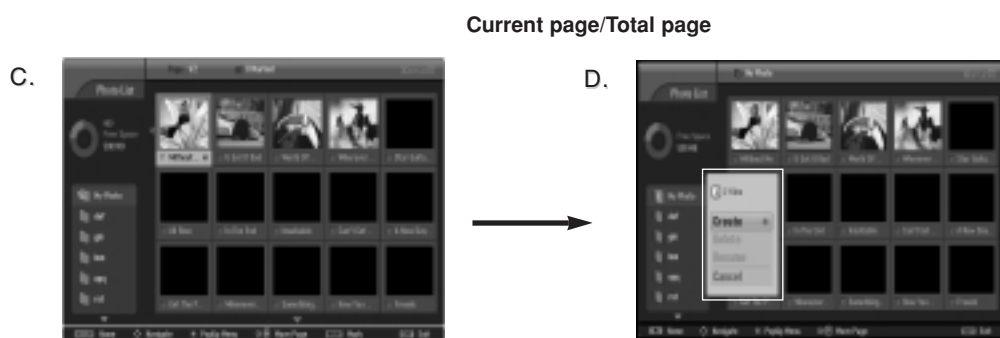
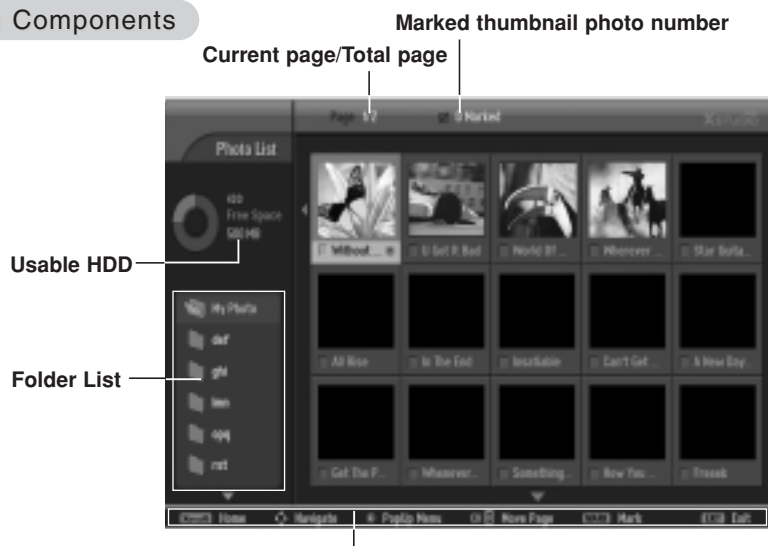
- When you press the **X-Studio** button, **HOME** menu is displayed.
It's available to play and copy the Photo file of Memory Card.or HDD.

1. In **HOME** menu, use ▲/▼ button and then use the **ENTER** or ▶ button to select the **Photo List**.
2. Use ▲/▼ button to select the **HDD/ Memory Card 1/ Memory Card 2** and then you will see a screen filled with thumbnail photos (pic.C,D).

B.

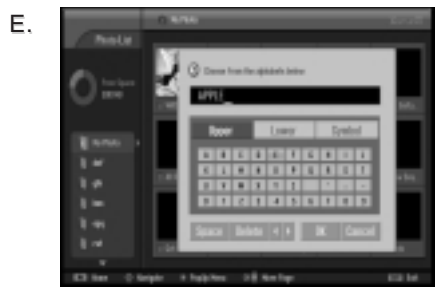


Screen Components

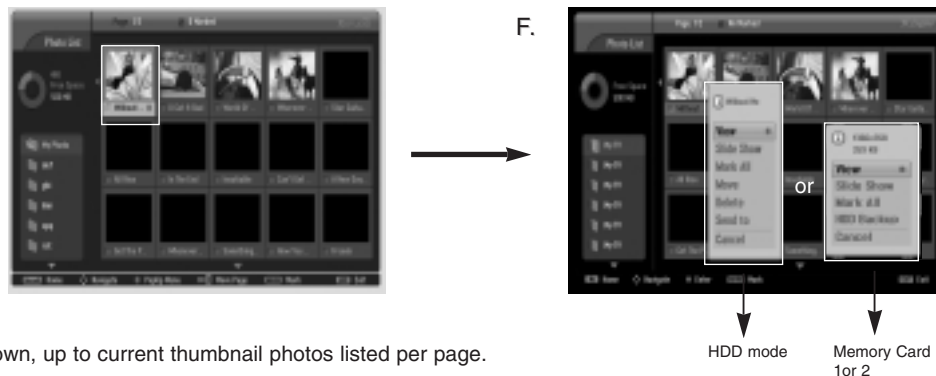


3. Select the desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- **Create:** Create new folder.
- **Delete:** Delete folder (except 'My Photo')..
- **Rename:** Edit folder name.
- **Cancel:** Close the detailed menu.



-> Use the ▲ / ▼ / ◀ / ▶ button to input the wanted name.
-> And then select **OK** and press the **ENTER** button to save.



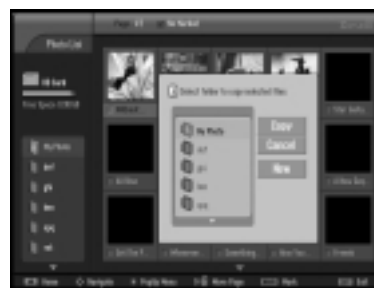
- As shown, up to current thumbnail photos listed per page.

1. Use the **CH ▲ / ▼** button to navigate in the thumbnail photo page.
2. Use **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view or slide show only the marked ones. If no photo is marked, you can view or slide show all photos in the folder.
3. Use **▲ / ▼ / ◀ / ▶** button to navigate the appropriate thumbnail photos, then press the **ENTER** button to show the PopUp menu

- **View:** Display the selected item.
Change from still image to slide show by pressing the **PLAY (▶)** button.
- **Slide Show:** Start a slide show of all photos in the folder. The slide show state can be changed to the view state by pressing the **Pause (||)** button. Before start a slide show, you can choose the slide show interval (3,6 or 9 seconds).
- **Mark All:** Mark all photos on the screen.
- **Unmark All:** Unmark all marked photos.
- **Move:** Only HDD mode, move photo of this folder to another folder.
- **Delete:** Delete the selected thumbnail photo. This menu is only available in HDD mode.
- **Send to:** Copy the photo in the HDD to the Memory Card.
This menu is only appeared in HDD. →



- **HDD Backup:** Copy the photo in the Memory Card to the HDD. At this time, you can also make new folder. This menu is only available in Memory Card mode. →



- **Cancel:** Close the pop-up menu.

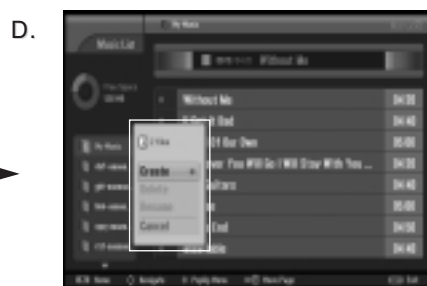
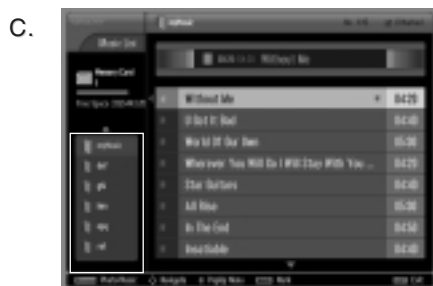
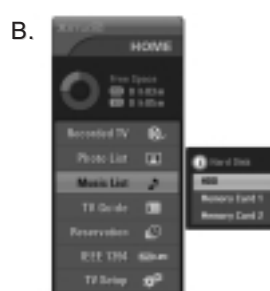
4. Repeatedly, press **EXIT** button to return to TV viewing or press **Xtudio®** button to return to the previous menu.

Music List

- When you press the  button, **HOME** menu is displayed.
It's available to play and copy the Photo / Music file of Memory Card or HDD.

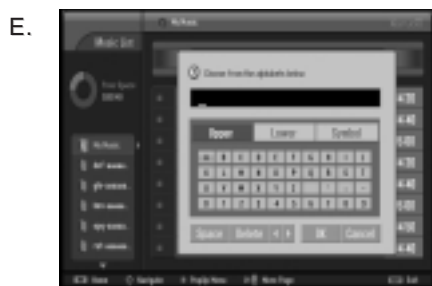


1. Use **▲** / **▼** button and then use the **ENTER** button or **▶** button to select the **Music List**.
2. Use **▲** / **▼** button to select the **HDD/ Memory Card 1/ Memory Card 2** and then you will see a list of music titles (pic.C,D).

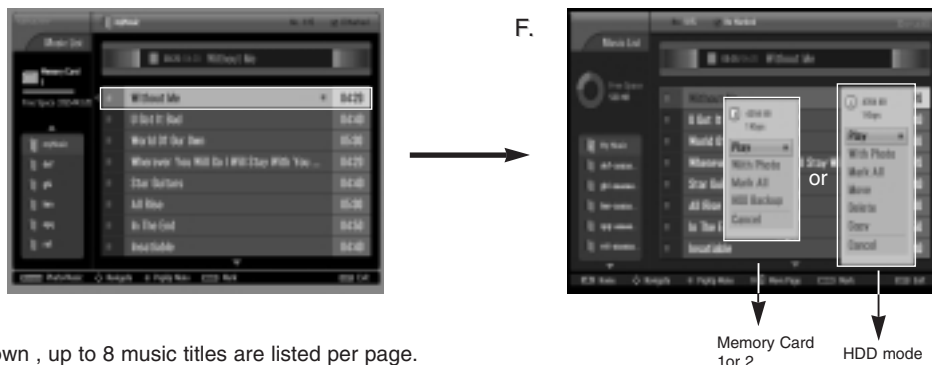


3. Select the desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- **Create:** Create new folder.
- **Delete:** Delete folder (except 'My Photo').
- **Rename:** Edit folder name.
- **Cancel:** Close the detailed menu.



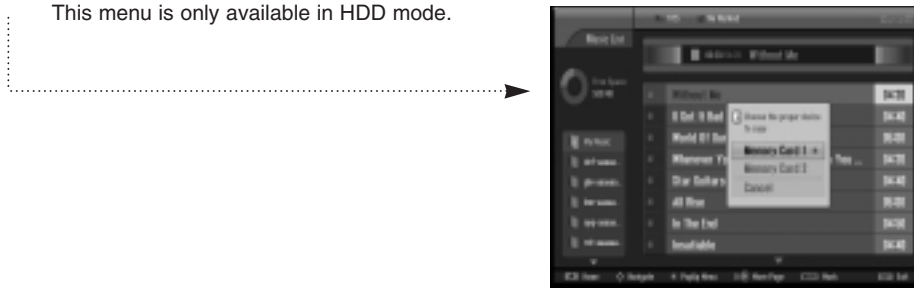
-> Use the **▲** / **▼** / **◀** / **▶** button to input the wanted name.
-> And then select **OK** and press the **ENTER** button to save.



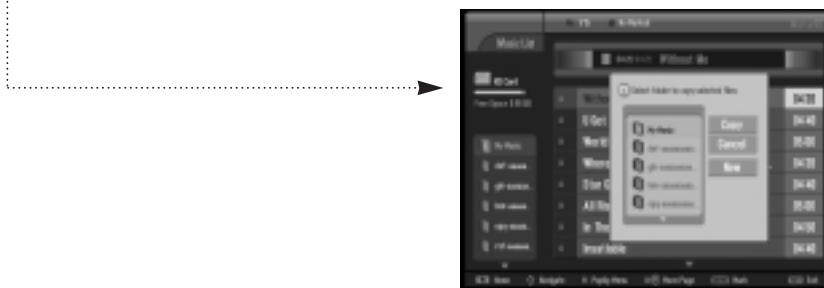
- As shown , up to 8 music titles are listed per page.

1. Use the **CH ▲ / ▼** button to navigate in the music titles page.
2. Use **MARK** button to mark or unmark a music title. When one or more music titles are marked, the marked music will be played by turns. For example, if you want to hear only 1 music repeatedly, just mark the music only and play it. If no music title is marked, all the music in the folder will be played by turns.
3. Use **▲ / ▼ / ◀ / ▶** button to navigate the appropriate music titles, then press the **ENTER** button to show up the pop-up menu.

- **Play:** Play the selected music.
- **Stop Play:** Stop playback.
- **With Photo:** Start playing the selected music and then move to the Photo List.
- **Mark All:** Mark all music titles in the folder.
- **Unmark All:** Change marked musics to unmarked music titles.
- **Move:** Move music titles of this folder to another folder.
- **Delete:** Delete the selected music titles. This menu is only available in HDD mode.
- **Copy:** Copy the music titles in the HDD to Memory Card. This menu is only available in HDD mode.



- **HDD Backup:** Copy the music titles in the Memory Card to the HDD. At this time, you can also make new folder. This menu is only available in Memory Card mode.



- **Cancel:** Close the pop-up menu.

4. Repeatedly, press **EXIT** button to return to TV viewing or press  button to return to the previous menu.

- If you don't press any button for 40 seconds, the play information box(as shown in the below) will float as a screen saver.

(a) For example : 

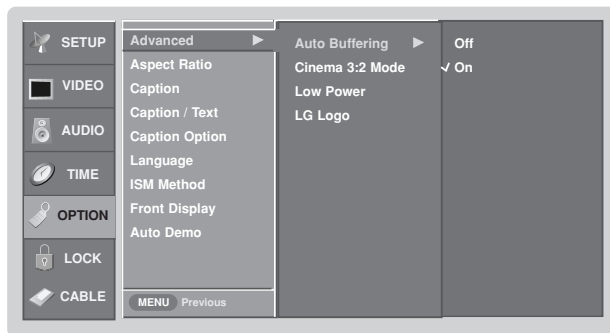
Note:

- When music is playing,  is displayed in front of the music title.
- Press any button except **VOL ▲ / ▼**, **MUTE**, Play (▶), Pause (||), Stop (■), Skip Next and Skip Previous (⏮, ⏭) buttons, to stop the screen saver.
- Play (▶), Stop (■), Pause (||), Skip Next and Skip Previous (⏮, ⏭) buttons on the remote control are also available in this mode.

TimeShift

TimeShift Mode

- This function allows the unit to automatically record live TV and make it available for reviewing at any time. With Auto Buffering turned on, you may pause and rewind normal TV viewing at any time without missing any of the live broadcast.

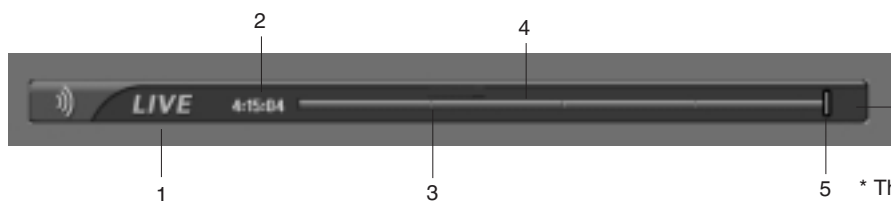


1. Press the **Menu** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Advanced**.
3. Press the **►** button and then use **▲ / ▼** button to select the **Auto Buffering**.
4. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.

◆ Progressing the Timeshift function

1. When turning the TV on, Timeshift function is progressing .

- As soon as Timeshift starts, a progress bar indicating current recording status is displayed in the bottom of the screen. (Timeshift 'Progress Bar' is shown below)
- Press the **EXIT** button to hide the 'Progress Bar'. Pressing the **ENTER** button will display the 'Progress Bar'.
- Stay The TimeShift even change a channel on Timeshift.



* The '**Progress Bar**'?
This function indicates a possible PVR reshaping section ,a current on-screen and real on-broadcasting position, a section of section-recording.

1. Indicates status of current displayed video.
2. Indicates current save time.
3. Indicates 15 minute intervals from Timeshift start time. (Total - one hour).
4. Indicates Timeshift elapsed time.
5. Indicates current Timeshift position.

2. When finishing the Timeshift function, enter the **Menu** and then **Timeshift Mode** is to be **Off**.

Notes:

- PVR (Personal Video Recorder) : A device which records and plays broadcast program contents onto a hard disk in TV or SET TOP BOX.
- When the TimeShift closes, the file (min. 10 seconds) is automatically stored in the record list.
- If available hard-disk space is low when TimeShift is initiated, It will disappear automatically from the oldest part.
- In order to save hard-disk space, no storage is done when there is no signal.
- The total storing space of hard-disk is 160GB, there are 4GB minimum reserved for TimeShift.
- When turning power on, it may take up to 3 minutes to initialize the HDD.
- The TimeShift function will not initiate for a copy-protected program.
- Because an analog broadcast is transferred to a digital signal, video that contains rapid movement may show "cross stripes". This happens when the analog signal is compressed and then restored in the digital signal. The unit will attempt to soften the video in order to reduce this effect of excessive picture noise.
- When using the PIP/POP mode, TimeShift is stopped.

◆ On progressing the Timeshift, play

- On progressing Timeshift, It can do a diversified playing .



Indicates that the current broadcast and displayed video differ.

1. You can shift playback to any point within the recording time .

- When playing, press the **REW** (⏮) or **FF** (⏭) button.

Searching speed changes with each press of the button.

Like -> -> -> -> in a row.
2 times 5 times 20 times 50 times 300 times

If the button is pressed continuously, it changes like above. If the button is taken away, it changes a normal playing.

- During playback, press the **Pause** (⏸) button.

Still screen is displayed.

Repeatedly press the **Pause** (⏸) button to advance frame by frame.

- If you wish to return to the current live broadcast, press the **▶|** button. (Indicator will change to LIVE)

2. Press the **PLAY** (▶) button to return to normal play.

Recording

- This function is able to record channel watched on main screen of an Analog or Digital broadcasting.



◆ Instant Record

- This function records the currently displayed channel.

1. Select the desired channel to record while watching program.
2. Use the ◀ / ▶ button to select the **OK** (as illustrated pic.A.) or **Options** or **Stop Record**. If you select the **OK** or press the **RECORD** (●) button in the TV mode, recording will start as marking  , and recording will begin with basic settings.



3. You can select the **Stop Record** to stop the recording.
4. You can set the duration of the recording by selecting **Options** and then **ENTER** button, then the recording time is displayed. Press the ◀ / ▶ repeatedly to adjust the recording length. Each press of ◀ / ▶ button changes the recording duration in the sequence shown below.
No Limit -> 30min -> 1hour -> 1hr 30min -> 2hr -> 2hr 30min -> 3hr



4. You can also add recording time by pressing the **RECORD** (●) button during the Instant Record. Press the ◀ / ▶ repeatedly to add to the recording time. Each press of ◀ / ▶ button changes the recording duration in the sequence shown below.

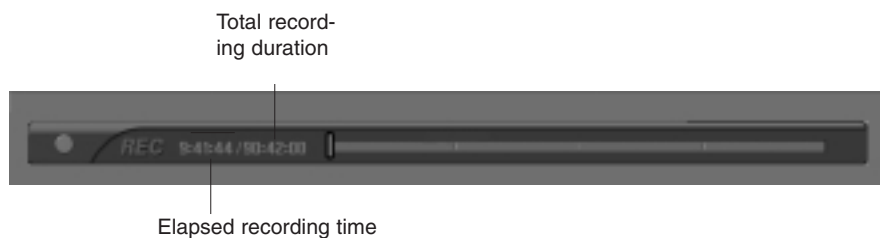
basic value-> +10min -> +20min -> +30min -> +40min ->+50min -> +1hr

The extra recording time added to existed setting value makes final recording time length.

C.



5. After adjusting the recording time, select **OK** and the progress bar will be displayed.



- Press the **EXIT** button to hide the Progress Bar. Press the **ENTER** button to display the progress bar.

5. Press the **STOP** (■) to stop recording, or, when the recording duration is reached, the HD DVR will stop recording and power off. Although recording has stopped, the Timeshift features remain active.

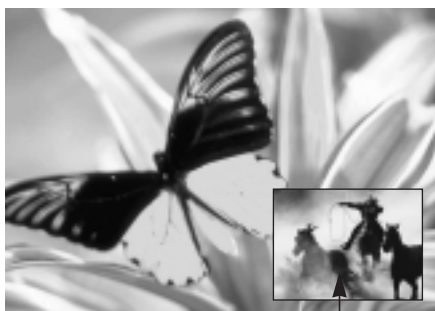
Notes:

- When recording, if the available storage space becomes low, the recording will be automatically end.
- Once recording has finished, " A recording is finished, will you put the power off?" will be displayed.
- If power is interrupted or turned off too soon after recording, the program may not be saved. Therefore, first press the (■) button and confirm the recording list, before powering the unit off.
- If you press the **POWER** button while recording, the Screen Saver will initiate and recording will continue.(However, if recording with the duration set to [no limit], recording will stop and the unit will power off.)
- Recordings of less than 10 seconds will not be saved.
- To save the disk space while recording a digital screen, no data is saved when no signal is present.
- The recording function will not initiate for a copy-protected program.

◆ Watching & Record

- While recording, you can change channel s or inputs, without disturbing the recording.
The program being recorded will show in the lower-right corner of the main screen.

1. After starting an Instant Recording or Reserved Recording, change the channel or input
 - Check screen of recording is shown in the lower-right corner the screen (as shown below).
 - Pressing the **PIP** button will toggle the check screen on or off.
 - Pressing the **SWAP** button will return the main screen to display the program being recorded.
 - In order to change the channel being recorded, Instant Record or Reserved Record 's must be stopped.



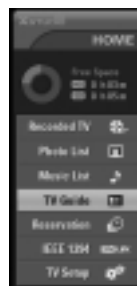
screen being recorded

• Watch & Record Input port

Record Watch	Digital	Analog	Video1	Video2
Digital	X	0	0	0
Analog	0	0	0	0
Video1	0	0	0	0
Video2	0	0	0	0
Component1	0	0	0	0
Component2	0	0	0	0
RGB-PCDTV	0	0	0	0
DVI-PC/DTV	0	0	0	0

Note: When digital broadcast is being recorded, another digital broadcast can not be tuned.

TV Guide On Screen® System



Overview

- Your new TV contains the TV Guide On Screen Interactive Program Guide.
- The TV Guide On Screen system has features that help you get the most out of your viewing experience.

TV Guide On Screen Overview

The TV Guide On Screen system has the following features:

- Eight days of show listings (today plus seven days).
- Icons that indicate show rating, stereo, HDTV, new episode, etc.
- Intuitive up/down/left/right navigation using your remote control.
- Set shows to Record.
- Schedule show Reminders.
- Search shows by category (e.g., Movies, Sports, Children, etc.).
- Search for shows based on keywords or alphabetically by title.
- Direct tuning to a channel.
- Show information while watching TV.
- Streamlined System Setup and default setting options.
- Channel lineup customization.
- Help screens while in the Guide.

TV Guide On Screen® System continued

Screen Components

- The screens displayed in the TV Guide On Screen system share many of the same components, as shown in the following figure:



- Video Window** - displays TV video while the Guide is displayed
- Service Bar** - provides access to the 4 main Guide Services
- Current Service Label** - indented to indicate current Service displayed
- Tile** - displays show title
- Highlight** - indicates an active tile
- Info Box** - provides information for a highlighted item
- Info Button** - cycles through the various Info Box sizes
- Channel Logo** - identifies network
- Record/Remind Icons** - indicates a show is set to Record or set as a Reminder
- Panel Ad** - location where show- or product-specific information appears (and also where Panel Menu appears)

TV Guide On Screen® System continued

• Panel Menu



- A Panel Menu appears when the Menu key is pressed on a highlighted tile and additional options are available. It also appears when you press **ENTER** on a show starting in the future.
- When a Panel Menu appears, the highlighted tile changes color to indicate the Panel Menu relates to this tile.
- The Panel Menu displays below the Video Window.
- Help is available for a displayed Panel Menu by pressing the **INFO** button.
- The **▲ / ▼** button move between the options within the Panel Menu.
- The left and right arrows move to adjacent options unless the highlight is on an odometer, where these arrows change the odometer choice.
- Pressing **ENTER** from an odometer or number entry box moves the highlight to the default command button of that Panel Menu, for example, Schedule Reminder.
- Pressing **ENTER** from a highlighted command button executes the action and closes the Panel Menu (e.g., Schedule Reminder, Cancel).
- Select Cancel to cancel any changes and press **ENTER** to close this menu.
- Pressing Menu is a shortcut to Cancel. Press Menu to cancel any changes and close the menu.
- If a Panel Menu contains more menu options than can be displayed on a single screen, **▲ / ▼** button appear at the top or bottom of a menu. Simply scroll down to access these options.

TV Guide On Screen® System continued

Main Services

< Listings >

- Access Listings by pressing the TV Guide button on your remote or on the front panel of your TV.
- Listings is always the first Service displayed in the Guide.
- With Listings highlighted, press the Info button to display a Help screen. Press the Info button again to close the screen.

Use the ▲ / ▼ / ◀ / ▶ buttons to move the highlight within Listings to:

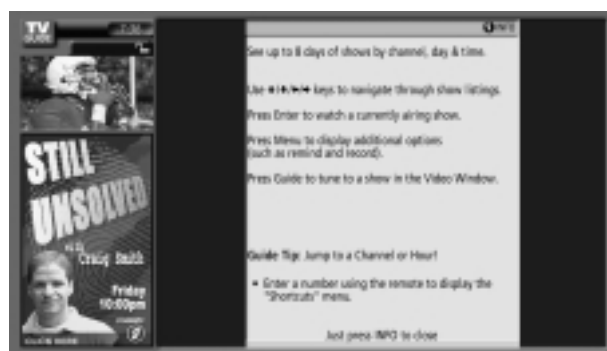
- View 8 days of show listings
- Read show descriptions
- Tune directly to a show currently airing
- Set a show to Remind
- Set a show to Record
- Lock and unlock the Video Window
- Access Panel and Channel Ads

Notes: There may be times when the TV Guide On Screen system could display partial or no program listings. The reasons for this include:

- Program schedule information was not provided to TV Guide On Screen.
- The transmission of the program listings was interrupted.

The phrase "No Listings" will be replaced with program information during the next transmission, which should occur within the next 24 hours.

Please remember to turn off your TV when not in use in order to receive program listings.



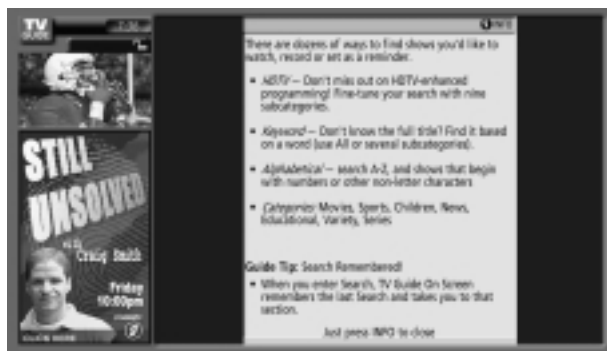
TV Guide On Screen® System continued

< Search >

- Search lets you find shows by category (Alphabetical, Movies, Sports, Children, Educational, News, Variety, Series, HDTV) or by Keyword.
- With Search highlighted, press the Info button to display a Help screen.
Press the Info button again to close the screen.

•Category Search Example: Movies

1. From Search, use the ▼ button to highlight Movies.



TV Guide On Screen® System continued

2. Use the ▼ button to highlight a subcategory (for example, All).
3. Press **ENTER** to display a list of all Movies, organized by date and time.



4. Highlight a show and press **ENTER** to watch (if on now) or the Menu key to display the Episode Options menu.



You can choose to set a recording, a reminder, or tune to the channel.

Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar.

Tune to Channel - exits the Guide and tunes to the channel of the highlighted show (show airs in the future).

Note: This option reads Watch Now if the show is currently airing.

Set Recording - displays the Record Options menu, from which you can set frequency, start and end time, etc.

Set Reminder - displays the Remind Options menu, from which you can set frequency, when, automatically power On, and auto-tune the TV.

Cancel - closes the menu, changes no information, and returns to the highlighted show.



TV Guide On Screen® System continued

• Keyword Search

- **Keyword search** lets you enter a word(s) to look for a particular show by category or for every show title that matches.

1. Highlight the Keyword navigation label, and press **ENTER** button to display the Keyword **Search** menu.
2. Highlight New Search, and press **ENTER** button.



3. The Search Options menu is displayed.
4. Highlight Category, and use the ◀ / ▶ button to select a category to search (e.g. All, HDTV, Children, Sports, etc.). When finished, use the ▼ button to highlight Enter Keyword.
5. Highlight Enter Keyword, and press **ENTER**. Then the keyboard is displayed.



6. Use the ▲ / ▼ / ◀ / ▶ button to highlight a character, and press **ENTER** to display it. When complete, highlight Done and press **ENTER**.



TV Guide On Screen® System continued

7. A list of all matching shows for that keyword is displayed.

Like the Category Search Example, you can highlight a show, and press **ENTER** to display all airings. You can then highlight a specific listing and press **ENTER** to watch (if On now) or the Menu key to display the Episode Options menu.

From the Episode Options menu, choose to set a recording, a reminder, or tune to the channel, as previously described.



The TV guide on screen system stores all the keywords you create. To edit or delete a keyword, highlight the keyword and press the Menu key. A Search Options menu is displayed.

Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar.

Edit Search - displays the keyboard, where you can change the keyword.

Delete Search - A Confirm menu is displayed.

- **Yes** - deletes the Search

- **No** - closes the panel menu

Cancel - closes the menu, changes no information, and returns to the highlighted show.

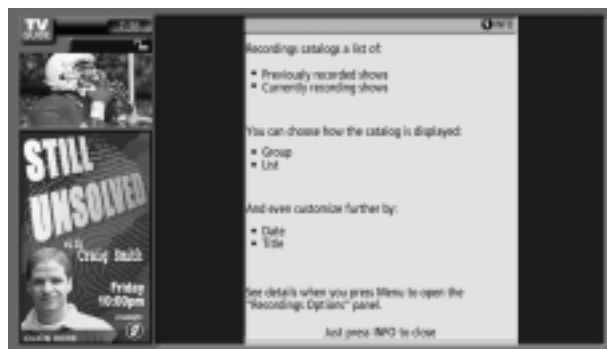


TV Guide On Screen® System continued

< Recordings >

Recordings displays a list of previously recorded or currently recording shows on a DVR or the currently inserted DVD in a DVD recorder.

With Recordings highlighted, press the **INFO** button to display a Help screen. Press the **INFO** button again to close the screen.



Choose the way Recordings are displayed by highlighting Recordings on the Service Bar and then press the **MENU** button to display the Recordings Options menu. Use the **▲** / **▼** buttons to choose between the following:

- In View As, use the **◀** / **▶** buttons to choose between
 - ◆ Group - recorded shows are listed without listing every recorded episode (see example in Screen A)
 - ◆ List - displays a complete list of every recorded episode for a show (see example in Screen B)
- In Sort By, use the **◀** / **▶** buttons to choose between
 - ◆ Title - shows are displayed in alphabetical order (see example in Screen A)
 - ◆ Date - shows are displayed by date and time, with most recent date and time first (see example in Screen B)

When finished, press **ENTER** to highlight Done. Press

ENTER again to close the menu and display the Recordings with the selected options.

In List View, highlight an episode and an Info box provides show information. Press the **MENU** button to display the Episode Options menu.

In Group View, highlight a show and press **ENTER** to view a summary for all the recorded shows along with the episode list (press **ENTER** again to collapse the episode list).

Highlight a specific episode and press the **MENU** button to display the Episode Options menu.



TV Guide On Screen® System continued

To view an episode, you can do one of the following:

- highlight an episode, and press **ENTER** to view it now. The episode either starts from where it was last stopped(if viewed previously) or from the beginning.
 - ◆ Go to Service bar - close the menu, changes no information, and returns to the Schedule Service Bar.
 - ◆ Resume - starts from where it was last stopped(if viewed previously) or from the beginning.
 - ◆ Play from Beginning - starts from the beginning, even if stopped previously.
 - ◆ Delete Episode - deletes the episode from the Recordings, A Confirm menu is displayed.
 - ◆ Yes - deletes the episode.
 - ◆ No - closes the panel menu.
 - ◆ Cancel - closes the menu, changes no information, and returns to the highlighted show.



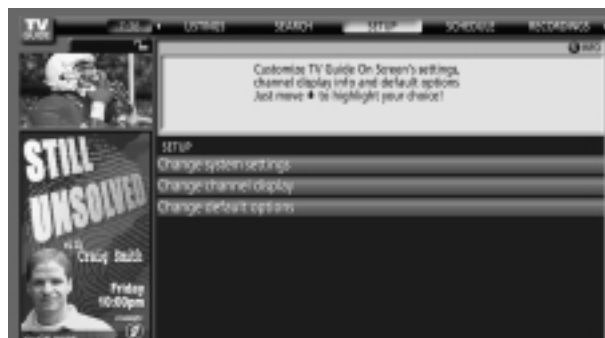
TV Guide On Screen® System continued

< Setup >

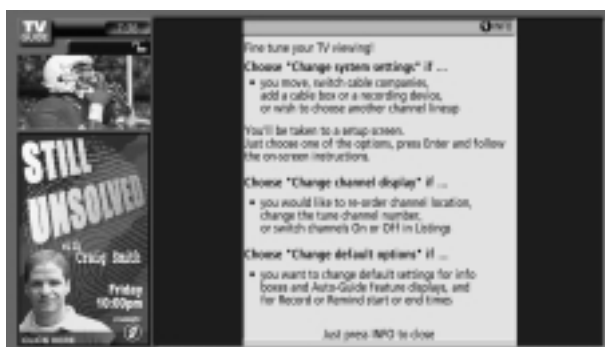
- After you initially complete Guide Setup, you can make changes to Guide settings in the following areas:

- Change System Settings
- Change Channel Display
- Change Default Options

Highlight a choice, press **ENTER**, and follow the on-screen instructions.



With Setup highlighted, press the **Info** button to display a Help screen. Press the **Info** button again to close the screen.



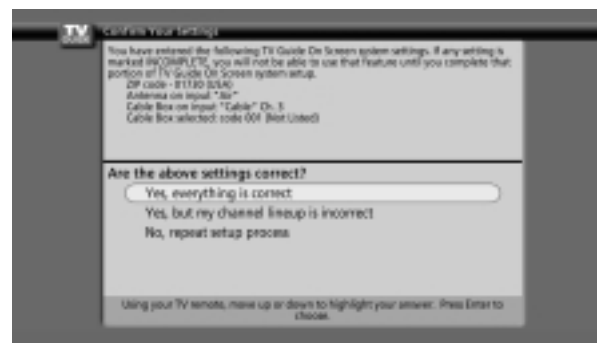
• Change System Settings

This option appears after you have completed the initial Guide Setup process.

Press **ENTER** to display the Confirming Your Settings screen. You see your current settings.



Choose one of the options, press **ENTER**, and follow the on-screen instructions.



TV Guide On Screen® System continued

• Change Channel Display

Change Channel Display lets you edit channel information that appears in Listings. With Change Channel Display you can :

- Re-order the position or the channel appears in Listings
- Change the tune channel number
- Switch a channel
 - ◆ On - the channel is always displayed
 - ◆ Off - the channel is never displayed
 - ◆ Auto-Hide - the channel is only displayed when program information is available.



Press **ENTER** to display the Channel Editor screen.

Then, highlight a channel and press Menu. A Grid Options menu is displayed.

Highlight Go Back to Setup to close the menu, change no information, and return to the Setup Service Bar.

Or make changes and when finished, press **ENTER** to highlight Done. Press **ENTER** again to close the menu and accept the changes.



Highlight Cancel to close the menu, change no information, and return to the highlighted channel.