

# TV GUIDE ON SCREEN™ SYSTEM

## Record And Remind Features

### Record

You can set a show to Record in Listings, Search, and Schedule or change Record settings for a show in Schedule.

There are 3 ways to set a show to Record:

### Using the Record Button on the Remote

- Press the **Record** button on the remote to record the show. Once with current default settings (Start and End recording On Time). Each time you press the **Record** button, you can change the record frequency (but not the default settings) among Once (default), Regularly, Weekly and then Cancel.

#### NOTE

- ▶ The proper Record icon appears on the show tile, as the **Record** button is pressed.

- **Once** - Records the show one time.
- **R** **Regularly** - Records the show every time the show airs on the same channel and starts at the same time.
- **W** **Weekly** - Records the show each time the show airs on the same day of the week, on the same channel and starts at the same time.
- Cancel (no icon displayed) - Does not record.



### From a Panel Menu

- 1 Highlight a show, and press **MENU** button to display the Episode Options menu.
- 2 Highlight Set Recording, and press **ENTER** button to display the Record Options menu.



- 3 Highlight the Frequency option, and use the left and right arrows to choose among Once, Regularly, Weekly, and Off, as previously described.

Recorder choice: Please choose HDD only. This TV does not support other recording devices.

- 4 When finished, press **ENTER** button to highlight Schedule Recording.

Press **ENTER** button again to close the menu. You can see a Record icon for the selected frequency next to the show title.

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

### NOTE

- ▶ In Listings, use the **PIP** button to change the status of the Video Window (locked or unlocked).

## Manual Recording

- 1 Highlight the Schedule Service label, and press **MENU** button to display the Schedule Options menu.
- 2 Highlight New Manual Recording and press **ENTER** button to display the Record Options menu.
- 3 Current information (i.e., date, start and end times, channel, input) is displayed.
- 4 Use the **▲▼◀▶** button to move through the options. Use the number or the **▲▼◀▶** button to change the information, as necessary.
- 5 Recorder choice: Please choose HDD only. This TV does not support other recording devices.



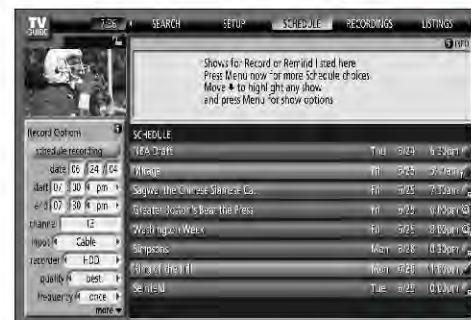
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# TV GUIDE ON SCREEN™ SYSTEM

- 6 Highlight the Frequency option, and use the ◀ or ▶ button to choose between Once, Daily, Weekly, and Off, as follows :

- Once - Records the time, channel, input, recorder combination one time.
- **D** Daily - Records the time, channel, input, recorder combination Monday through Friday.
- **W** Weekly - Records the time, channel, input, recorder combination once a week on this selected day of the week.
- Off (not cancel) - Keeps the time, channel, input, recorder combination in the list without recording until the frequency is changed.

- 7 When finished, press **ENTER** button to highlight Schedule Recording.

Press **ENTER** button again to close the menu. You can see a Record icon for the selected frequency next to the input and channel number.

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

- 8 Before a recording begins, a notification screen appears if your TV is On. At that time, you can choose to start or cancel recording. If the TV is not On, the recording occurs as scheduled. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item.

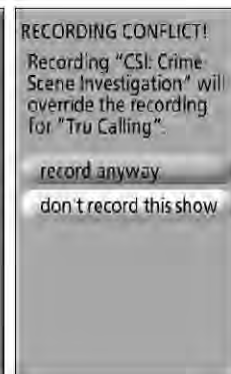
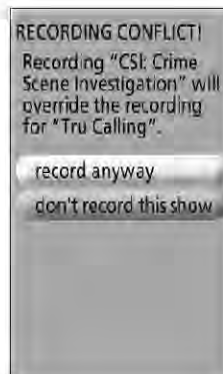
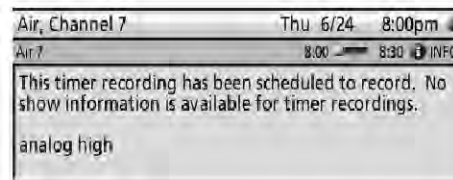
## Record Conflict

A conflict message appears for the following reasons:

- A show set to Record overlaps with any part of another show previously set to Record.
- A show set to Record overlaps with a show previously set to auto tune.

Select one of these options:

- Record anyway - This show will override an existing show set to Record or auto-tune.
- Don't record this show - Cancel the Recording.



## Remind

You can set a show Reminder in Listings, Search, and Schedule or change Reminder settings for a show in Schedule.

There are 2 ways to set a show Reminder:

### From a Panel Menu

- 1 Highlight a show, and press Menu button to display the Episode Options menu.
- 2 Highlight Set Reminder, and press **ENTER** button to display the Remind Options menu.
- 3 Highlight the Frequency option, and use the left and right arrows to choose between:

- Once - Sets a show reminder one time.
- Regularly - Sets a show reminder every time the show airs on the same channel and starts at the same time.
- Weekly - Sets a show reminder each time the show airs on the same day of the week, on the same channel and starts at the same time.
- Off - Keeps the show in the list but will not remind until the frequency is changed.

- 4 Power On the TV, if Off, when a Reminder is scheduled. Choices are Yes and No. (Default = No)
- 5 Automatically tune the TV to the channel (TV must be On), when a Reminder is scheduled. Choices are Yes and No. (Default =No)
- 6 When to display the reminder screen. Choices are 30 seconds to 15 minutes early, to 30 seconds to 15 minutes late, to On time. (Default = 1 min early)
- 7 When finished, press **ENTER** button to highlight Schedule Reminder. Press **ENTER** button again to close the menu. You can see a Remind icon for the selected frequency next to the show title. Highlight Cancel to close the menu, change no information, and return to the highlighted show.



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# TV GUIDE ON SCREEN™ SYSTEM

## Manual Reminder

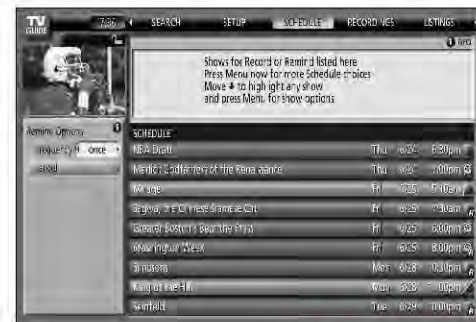
- 1 Highlight the Schedule Service label, and press **MENU** button to display the Schedule Options menu.
- 2 Highlight New Manual Reminder and press **ENTER** button to display the Remind Options menu.
- 3 Current information (i.e., date, start and end times, channel, input) is displayed.
- 4 Use the **▲▼◀▶** button to move through the options. Use the number or the **▲▼◀▶** button to change the information, as necessary.
- 5 Highlight the Frequency option, and use the **◀** or **▶** button to choose among Once, Daily, Weekly, and Off, as follows :

- Once - Sets a show reminder for the time, channel, input combination one time.
- Daily - Reminds for the time, channel, input combination Monday through Friday.
- Weekly - Sets a show reminder for the time, channel, input combination once a week on this selected day of the week.
- Off (not cancel) - Keeps the time, channel, input combination in the list without reminding until the frequency is changed.

- 6 Power On the TV, if the TV is Off, when a Reminder is scheduled. Choices are Yes and No.(Default =No)
- 7 Automatically tune the TV to the channel (TV must be On), when a Reminder is scheduled. Choices are Yes and No.(Default = No)



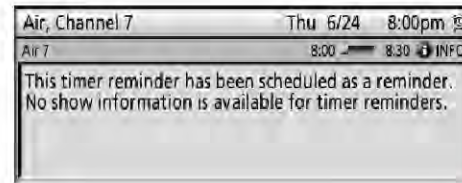
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- 8 When finished, press **ENTER** button to highlight Schedule Reminder. Press **ENTER** button again to close the menu. You can see a Remind icon for the selected frequency next to the input and channel number.

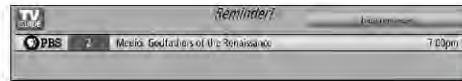
Highlight Cancel to close the menu, change no information, and return to the highlighted show.



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- 9 Based on your option settings, a notification screen will appear, if your TV is On at the reminder time. Then you can choose to hide the reminder, or highlight the show, and press **ENTER** button to tune to the show. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item (hide reminders).

If you choose Hide Reminders, the window closes for the show or shows, but does not affect other Reminders you set.



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### NOTE

- If more than 2 reminders are set for the same time, arrows appear on the Reminder screen. Use the **▲** or **▼** button to view the shows.

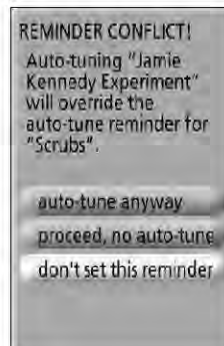
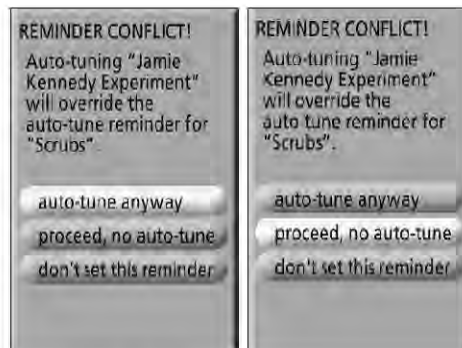
## 10 Remind Conflict

A conflict message appears for the following reasons:

- A show set with an Auto-Tune Reminder has the same start time as an existing Auto-Tune Reminder.
- A show set with an Auto-Tune Reminder overlaps with a Recording already scheduled.

Select one of these options:

- Auto-tune anyway - This show will override an existing show set to auto-tune.
- Proceed, no auto-tune - Set the show as a Reminder but do not auto-tune.
- Don't set this reminder - Cancel the Reminder.



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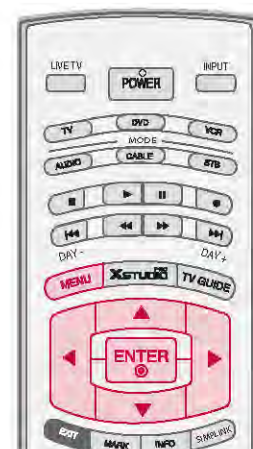
# DVR (DIGITAL VIDEO RECORDING)

## TIMESHIFT (PAUSE & REPLAY OF LIVE TV)

This function allows the unit to automatically record live TV and make it available for reviewing at any time.

With Timeshift turned on, you may pause and rewind normal TV viewing at any time without missing any of the live broadcast.

- While simplink function is using, Timeshift function is not operated in HDMI1/DVI or HDMI2 mode.



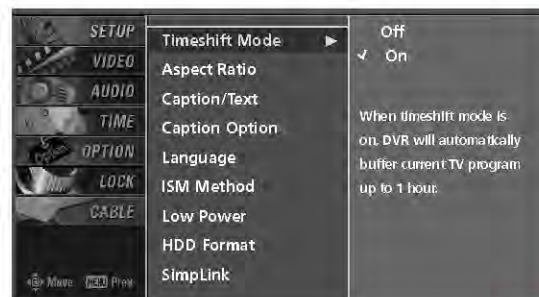
1 Press the **MENU** button and then use ▲ or ▼ button to select the **OPTION** menu.

2 Press the ► button and then use ▲ or ▼ button to select the **Timeshift Mode**.

3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

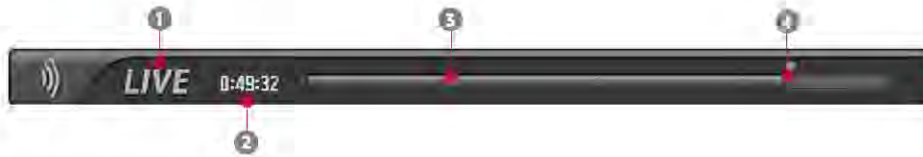


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## Progressing the Timeshift function



- 1 After selecting the **Timeshift Mode On**, press the **ENTER** button.
  - As soon as Timeshift starts, a progress bar indicating the current recording status is displayed in the bottom of the screen.
  - Press the **EXIT** button to hide the 'Progress Bar' or press the **ENTER** button to display the 'Progress Bar'.
  - This function is preserved even change a channel on progressing the Timeshift.

### The 'Progress Bar'?

This function indicates a possible DVR reshowing section, a current on-screen and real on-broadcasting position, a section of section-recording.

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

- 2 When finishing the Timeshift function, enter the option menu and turn **Timeshift Mode Off**.

### NOTE

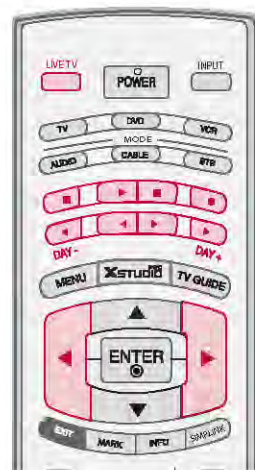
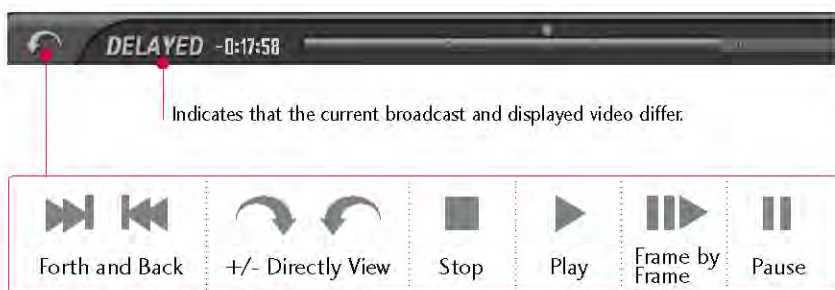
- ▶ DVR (Digital Video Recorder) : A device which records and plays broadcast program contents onto a hard disk in TV or SET TOP BOX.
- ▶ If available hard-disk space is low when Timeshift is initiated, the oldest information is deleted.
- ▶ In order to save hard-disk space, nothing is saved when there is no signal.
- ▶ The total storage space of the hard-disk is 160 GB. 10 GB minimum is 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 reduce this excessive picture noise.
- ▶ When using the PIP/POP mode, Timeshift is stopped.
- ▶ Timeshift is available in AV1, AV2, Antenna, Cable mode.
- ▶ Timeshift is available in Component1,2, HDMI1, 2 mode.
- ▶ Timeshift is not available for Audio only channels.
- ▶ The timeshift may not work properly in some audio streams.



# DVR (DIGITAL VIDEO RECORDING)

























## Progressing the Timeshift function, play

On progressing Timeshift, It can do a diversified playing.



## Using the remote control

You can shift playback to any point within playing the recorded program.



	<p>When playing, press the <b>REW</b>(  ) or <b>FF</b>(  ) button.</p> <ul style="list-style-type: none"> <li>Press  -&gt;  -&gt;  -&gt;  to speed up.</li> <li>Pressing these buttons repeatedly increases the fast forward/reverse speed.</li> </ul>
	<p>Press the  or  button to move back and forth within the current program.</p> <ul style="list-style-type: none"> <li>Press the  button to jump about 20 seconds forward.</li> <li>Pressing the  button to jump about 8 seconds backward.</li> </ul>
	<p>During playback, press the <b>Pause</b>(  ) button.</p> <ul style="list-style-type: none"> <li>Still screen is displayed.</li> <li>Repeatedly press the <b>Pause</b>(  ) button to advance frame by frame.</li> <li>Press the <b>Pause</b>(  ) button and then the <b>FF</b>(  ) button for slow motion (as showing the  .)</li> </ul>
	<ul style="list-style-type: none"> <li>When using the  or  button during playback the cursor can be viewed on the screen.</li> </ul>
	<p>Press the <b>PLAY</b>(  ) button to return to normal playback.</p>
	<p>If you want to return to the live broadcast, press the <b>LIVE TV</b> button.</p>


# INSTANT RECORDING


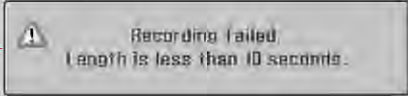


Use this function to record the program you are watching on the main screen (Analog or Digital broadcast.)






## Instant Record

This function records the currently displayed channel.

- 1 Select the desired channel to record and then press the  button. During recording  is displayed. Use this feature to record up to 2 hours of programming.

- 2 If you want to stop recording, press the  button. And then recording will stop.

- While recording, if you press the  button fewer than 10 seconds, this message is displayed. 
- If you press the  button more than 10 seconds, this message is displayed. 

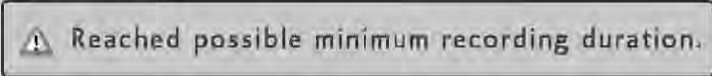
- 3 You can add/subtract recording time by pressing the  button while recording. Press the  or  button repeatedly to add/subtract to the recording time. Each time you press  or  button the recording duration changes as shown below.

No Change

↗ +10min → +20min → +30min → +40min → +50min → +1 hr

↘ -10min → -20min → -30min → -40min → -50min → -1 hr

- Do not subtract more than the current recorded time or you will receive the following error message.  
( For example, if you have recorded for 35 minutes, you cannot subtract 40 minutes. )




# DVR (DIGITAL VIDEO RECORDING)

The extra recording time added to the existing setting equals the final recording time.

- 4 After adjusting the recording time, select **OK**. 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 Recording stops when the selected duration is reached or when you press the  button.  
Note: Although recording has stopped, the Timeshift feature remains active.

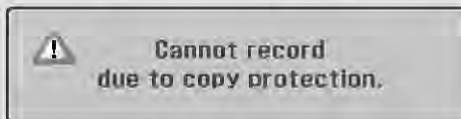


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## NOTE

- ▶ When recording, if the available storage space becomes low, the recording will be automatically stopped.
- ▶ Recordings of less than 10 seconds will not be saved.
- ▶ To save disk space while recording analog or digital broadcasts, no data is saved if there is no signal.
- ▶ The recording function will not initiate for a copy-protected program.
- ▶ The displayed time slightly differ from the actual time.
- ▶ In no signal or film source, the displayed time slightly differ from the actual time.

- ▶ The recording can not be used with content-protected programs on progressing Timeshift .



If you press Record while watching a broadcast (with content-protected program) using the Timeshift function, recording begins from that point.

- ▶ If you record for a long time, in a state of the Analog signal is weak, remained recording time may be short.

## Watching & Record

While recording, you can change channels or inputs without disturbing the recording. The broadcast being recorded can be shown in the lower-right corner of the main screen.

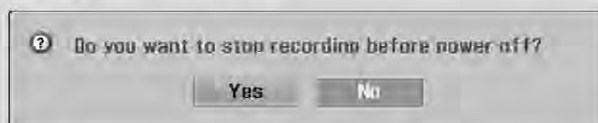
- 1 After starting an Instant Record or Reserved Record, change the channel or input.
  - You can check the show being recorded in the lower-right corner the main screen (as shown below).
  - Press the **PIP** button to cancel or show the program being recorded.
  - Press the **SWAP** button to return to the program being recorded in Watch & Record.
  - When changing to the channel being recorded in Watch & Record, the screen is changed to Instant Record state or Reserved Record state.

### NOTE

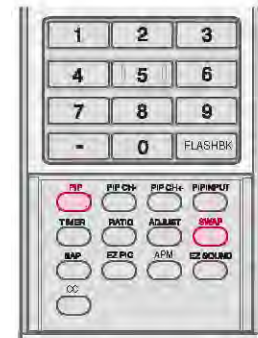
- ▶ When a digital broadcast is being recorded, another digital broadcast cannot be watched.

### CAUTION

- ▶ if you turn the power off on recording, this message is displayed as shown below.



- ▶ If you selects Yes, recording stops and then power is off.
- ▶ If you selects No, recording continues and the power is turned off.



screen being recorded

Watch	Record	Digital	Analog	AV1	AV2
Digital		X	0	0	0
Analog		0	0	0	0
AV1		0	0	0	0
AV2		0	0	0	0
Component1		0	0	0	0
Component2		0	0	0	0
RGB-PC/DTV		0	0	0	0
HDMI1/DVI		0	0	0	0
HDMI2		0	0	0	0

Watch	Record	Component1	Component2
Digital		X	X
Analog		X	X
AV1		X	X
AV2		X	X
Component1		X	X
Component2		X	X
RGB-PC/DTV		X	X
HDMI1/DVI		X	X
HDMI2		X	X

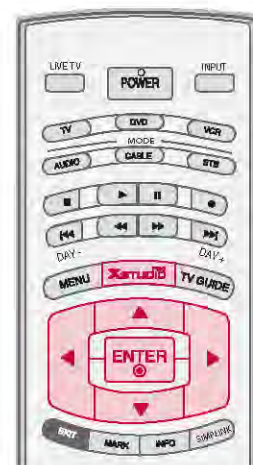
Watch & Record Input

# DVR (DIGITAL VIDEO RECORDING)

## PROGRAMMED RECORDING

This function is easy to register to reserved recording.

- In order to use this feature, you must first setup the TV Guide On Screen system.



**1** Press the **XtremeHD** button to display HOME menu. Use the **▲** or **▼** button to select the **Manual Rec** and then use the **ENTER** or **▶** button.



**2** **Manual Rec** screen is displayed as shown below. Use the **▲ ▼ ◀ ▶** button to set the **Input, Channel, Date, Start Time, End Time, Frequency**.

▶ **Input** : Select the input source from the available options (TV, DTV, CATV, CADTV, AV1, AV2, Component1,2).

Note: If the TV Guide On Screen is Setup only for antenna : CATV and CADTV are not available, and if the TV Guide On Screen is Setup only for cable : TV and DTV are not available.

▶ **Channel** : Select either the current channel or a scanned channel.

▶ **Date** : You can select a date up to one month in the future.

▶ **Start Time /End Time** : Ensure you have set AM or PM correctly.

▶ **Frequency** : Choose among Once, Daily and Weekly.



**3** After setting the **Manual Rec**, press the **ENTER** button.

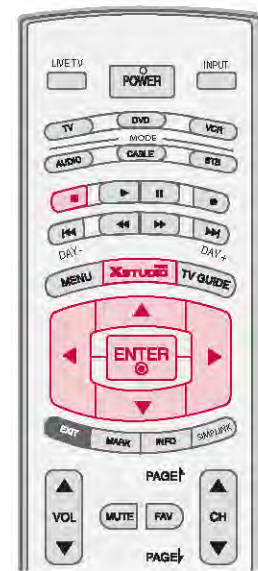
### NOTE

- ▶ You can see scheduled detail information on the SCHEDULE menu of the TV Guide On Screen.
- You can also set the manual recording in the Schedule Options panel menu of the SCHEDULE.

(▶ p.60)

# RECORDED TV PROGRAM LIST

You can watch the recorded program list at a glance.



- 1 Press the **Xtreme HD** button to display HOME menu.  
Use the **▲** or **▼** button to select the **Recorded TV** and then use the **ENTER** or **▶** button.



DVR (DIGITAL VIDEO RECORDER)

## Screen Components

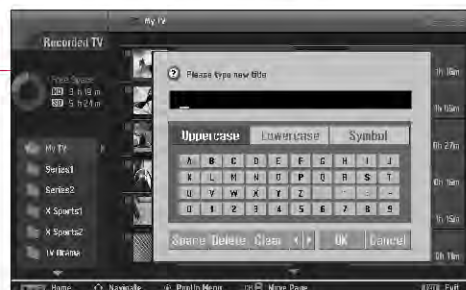
- 1 Usable HDD
  - Free Space
  - HD 3 h 19 m
  - SD 5 h 24 m
- 2 Folder List
  - My TV
  - Series1
  - Series2
  - X Sports1
  - X Sports2
  - TV Drama
- 3 Current page/Total pages
- 4 Marked thumbnail photo number
- 5 Direct Buttons
  - Home
  - Move
  - PopUp Menu
  - Move Page
  - Mark
  - Exit

# DVR (DIGITAL VIDEO RECORDING)

## Folder List

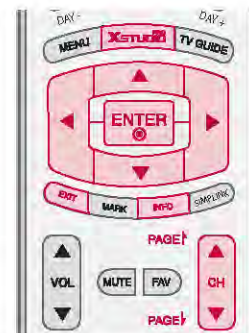
Select a desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- ▶ Create: Create new folder.
  - ▶ Delete: Delete folder (except 'My TV').
  - ▶ Rename: Edit folder name (except 'My TV').
- Use the **▲ ▼ ◀ ▶** and **ENTER** button to edit folder name.
- Move the cursor to OK and press the **ENTER** button to save.
- ▶ Cancel: Close the detailed menu.



## Recorded program Selection and PopUp Menu

The thumbnail recorded list is shown above.



1 Use the **CH ▲** or **▼** button for page up/down navigation.

2 Use the **MARK** button to move or delete from the list. A  is displayed next to the thumbnail photo if an item is marked.



3 Use ▲ ▼ ◀ ▶ button to navigate the appropriate thumbnail photo, then press the **ENTER** button to open the pop-up menu.

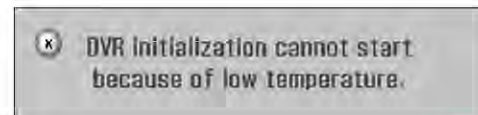
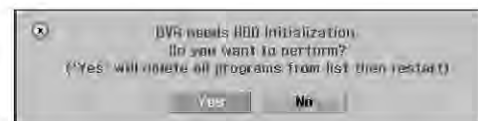
- ▶ **Play** : Begin playback of selected recorded program.
- ▶ **Mark All** : mark all recorded programs on the screen.
- ▶ **Unmark All** : Change marked recorded programs to unmarked recorded programs.
- ▶ **Move** : Move recorded program saved in HDD to a different folder.
- ▶ **Delete** : Delete the selected recorded programs.
- ▶ **Rename** : Edit recorded program title.
- ▶ **Cancel** : Close the Pop-up menu.



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

- If the HDD has a problem performing a function (Recording) related to the DVR, select **Yes** or **No** to initialize HDD.  
If you select **Yes**, the Recorded List (Recording) will be deleted. If you select **No**, the DVR may not function properly.
- If the temperature is below zero (0°), a warning message is displayed and you need to initialize the HDD.



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# DVR (DIGITAL VIDEO RECORDING)

## Playing recorded programs

You can play the selected program in the recorded program list.

- 1 Play a recorded program.
- 2 While playing, You can see a diversified playback screen as shown below.
  - At first, an icon showing current playback mode is displayed as marking **PLAYING**. Then press the **ENTER** button to display the progress bar.
  - To stop displaying the recorded programs icon, press the **EXIT** button.





























### The 'Progress Bar'?

This function indicates a possible DVR reshewing section, a current on-screen and real on-broadcasting position, a section of section-recording.

- 1 Indicates movement of recorded program.
- 2 Indicates status of recorded program.
- 3 Indicates elapsed playback time.
- 4 Indicates total playback time.
- 5 Indicates a quarter of program run-time.
- 6 Indicates current playback position.

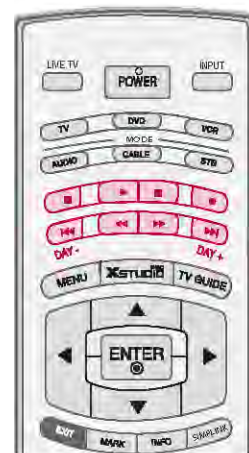
## Using the remote control




You can shift playback to any point within the recorded program.


	<p>When playing, press the <b>REW</b>() or <b>FF</b>() button.</p> <ul style="list-style-type: none"> <li>▪ Press  -&gt;  -&gt;  -&gt;  to speed up.</li> <li>▪ Pressing these buttons repeatedly increases the fast forward/reverse speed.</li> </ul>
	<p>Press the  or  button to move back and forth within the current program.</p> <ul style="list-style-type: none"> <li>▪ Press the  button to jump about 20 seconds forward.</li> <li>▪ Pressing the  button to jump about 8 seconds backward.</li> </ul>
	<p>During playback, press the <b>Pause</b>() button.</p> <ul style="list-style-type: none"> <li>▪ Still screen is displayed.</li> <li>▪ Repeatedly press the <b>Pause</b>() button to advance frame by frame.</li> <li>▪ Press the <b>Pause</b>() button and then the <b>FF</b>() button for slow motion (as showing the )</li> </ul>
	<ul style="list-style-type: none"> <li>▪ After using  to rewind while playing, press the  button to return to the prior screen.</li> </ul>
	<p>Press the <b>PLAY</b>() button to return to a normal playback.</p>
	<ul style="list-style-type: none"> <li>▪ If you want to return to the live broadcast, press the <b>LIVE TV</b> button.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ If you press the <b>STOP</b>() button, you can watch TV.</li> </ul>

## Editing a section

You can save the desired screen in the recorded program list after editing the recorded program.




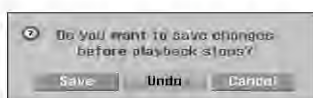
- 1 At the point you wish to start editing, press the  button.
  - ▀ The progress bar will show the edited section as red.
  - ▀ It is possible to search ( or ), and pause while editing the section.

- 2 When you wish to stop, press the  button.
  - ▀ Stop editing the section.

- 3 If you repeat steps 1,2, it is possible to edit more programs.




- 4 If you press the  button to stop the recorded program playback, this message is displayed as shown below.



- ▶ **Save** : Save contents of the edited section and finish the playback of the recorded program.
- ▶ **Undo** : Don't save contents of the edited section and finish the playback of the recorded program.
- ▶ **Cancel** : The screen returns to playback.

### NOTE

- ▶ It is possible to play the recording / reserved recording.
- ▶ You may hear noise from the hard-disk during playback of the recorded program. This is normal and does not indicate a problem.
- ▶ When saving the content of the edited section, delete the portion not selected.
- ▶ When power fails during editing, the program may not be saved or edited. Press the **STOP** () button after checking the recording list.
- ▶ You can edit up to 10 programs.
- ▶ You must select at least 10 seconds for the edited portion to be saved.


# DVR (DIGITAL VIDEO RECORDING)


## On playing the recorded program, repeat a section

You can set the recording to repeat the same section.

- 1 At the point you wish to start, press the **MARK** button.





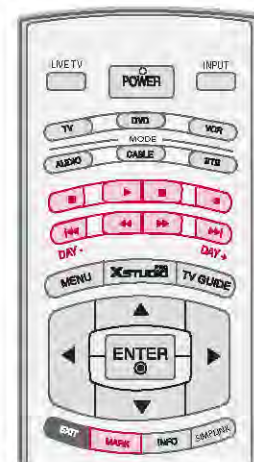
- The following symbol will appear: .

- 2 At the point you wish to finish, press the **MARK** button.
  - The following symbol appears: .
  - Repeatedly play the marked section.
  - You can not make sections of less than 5 seconds.
  - The progress bar for the repeated section will be shown in blue.

- 3 Press the **MARK** button to stop playing the repeat section.

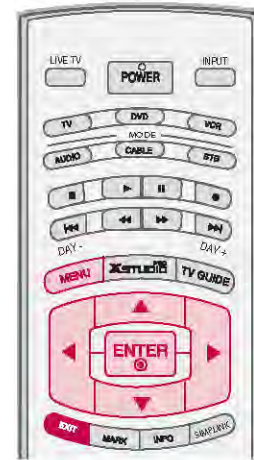
### NOTE

- ▶ It is possible to search using ( / ).
- Pause to edit a section while repeating.



# FORMAT HARD DISC

Erases all programs and initializes the hard drive.

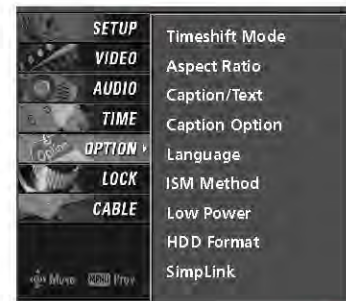


- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **OPTION** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **HDD Format**.
- 3 Press the **ENTER** or ► button.  
Select **Yes** or **No** to format HDD as shown below.

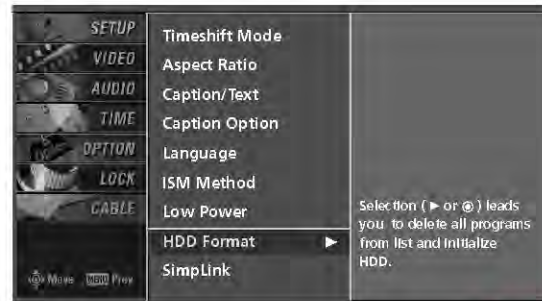
1 Do you want to format HDD?  
 'Yes' will delete all recorded programs

- If you select **Yes**, the Recorded List (Recording) will be deleted. Even if you selects **Yes**, the DVR may not function if there are problems with the hard drive.

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



1



2 3

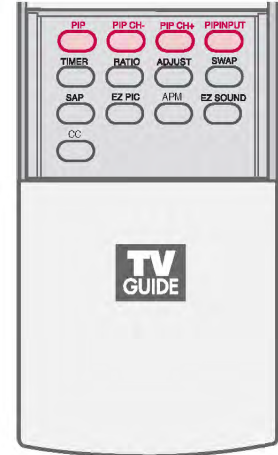
DVR (DIGITAL VIDEO RECORDER)

# PICTURE CONTROL

## WATCHING PIP (PICTURE-IN-PICTURE)/ POP(PICTURE-OUT-OF-PICTURE)/TWIN PICTURE

PIP lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.

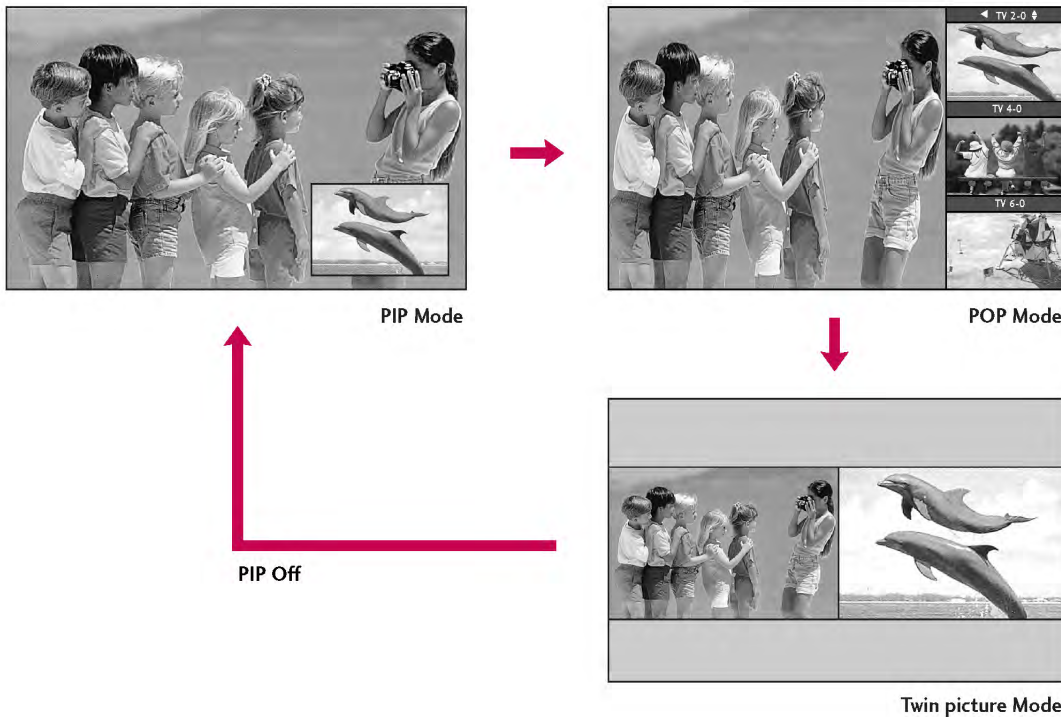
Twin Picture mode splits the screen into two images, allowing two picture sources to be shown on the TV screen at the same time. Each source is given half the screen.

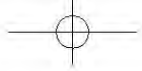


### Watching PIP/POP/Twin Picture

Press the PIP button to access the sub picture.  
Each press of PIP changes the PIP options as shown below.

PICTURE CONTROL





## Selecting an Input Signal Source for PIP/Twin Picture

Use the **PIP INPUT** button to select the input source for the sub picture. Each press of **PIP INPUT** button changes the PIP source. You can also select sources for the Sub Input in the **SETUP** menu.

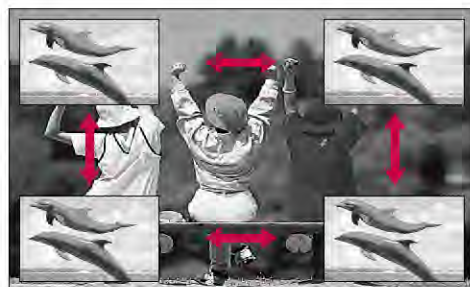
Main Picture Source	Available Sub Picture Sources
DTV/CADTV	Analog(TV/CATV), AV1, and AV2
TV/CATV, AV1, AV2, Component1, Component2, RGB-PC/RGB-DTV, HDMI1/DVI, HDMI2	DTV/CADTV, Analog(TV/CATV), AV1, and AV2

## TV Program selection for PIP

- 1 Press the **PIP** button.
- 2 Select the Antenna or Cable option on the Sub input menu or with the **PIP INPUT** button.  
Use the **PIPCH+** / **PIPCH-** button to select a channel for the sub picture.  
(You can't select DTV for main and sub picture simultaneously).

## Moving the PIP sub picture

- 1 In PIP mode, press the **▲ ▼ ◀ ▶** button to move the sub picture to a different location on the screen.

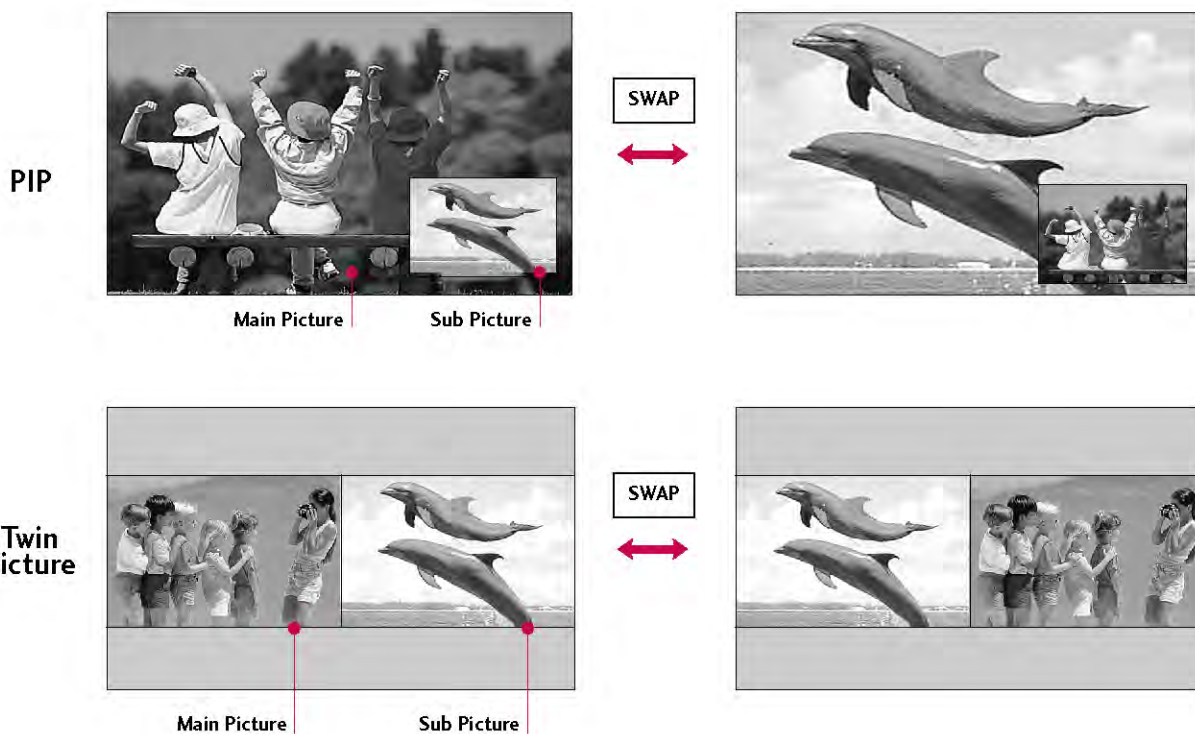


# PICTURE CONTROL

## Swapping the PIP/Twin Picture

1 Repeatedly, use the **SWAP** button to switch the main and sub pictures.

- Component 1, Component 2, RGB-PC (or RGB-DTV), HDMI1/DVI, HDMI2 input sources for the main picture can't be used to swap the main and sub pictures.

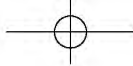


## Adjusting Main and Sub Picture Sizes for Twin Picture

1 Use the ▲ ▼ ◀ ▶ button to change main and sub picture sizes in Twin Picture mode.

- If screen is adjusted to the maximum size, the large screen is filled with entire screen vertically as shown.





## POP (Picture-out-of-Picture : Channel Scan)

Use POP to search the programs of all the memorized channels one-by-one on the 3 PIP screen display, (while the main picture source remains the current channel). The pictures of all the programmed channels are searched with the 3 POP screens.

- 1 Press the **PIP** button to activate the **POP mode** while in **PIP mode**.
  - **Channel selection** : Use ◀ button to Enlarge the selected channel being searched on the PIP screen to shift it for viewing on the Main screen.
  - **PIP selection** : Use ▲ or ▼ button to select one of 3 PIP screen pictures in **POP** mode.
  - When watching TV/CATV, TV/DTV or CATV/CADTV Sub pictures are scanned. However, when watching DTV/CADTV , only TV/CATV Sub pictures are scanned.



- 2 Press the **EXIT** button to cancel POP mode.

### ! NOTE

- ▶ Run EZ Scan channel search before using POP mode.
- ▶ When Sub pictures are changed from the TV/DTV to CATV/CADTV in POP mode, you may hear a noise from the Tuner switch.

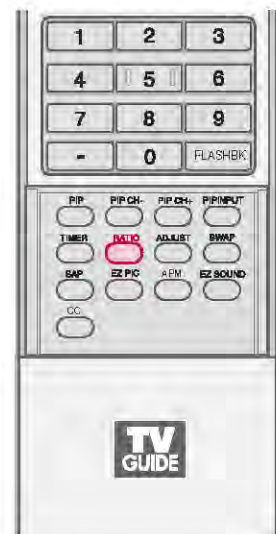


# PICTURE CONTROL

## 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. 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.

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



- 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.



### 16:9

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



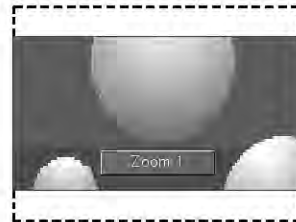
### Horizon

The screen size is, more enlarged at both sides, to create a spectacular view.



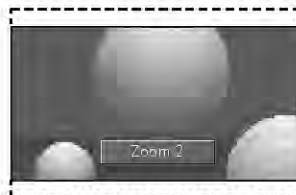
### Zoom 1

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.



- The adjustment range is 1-16.

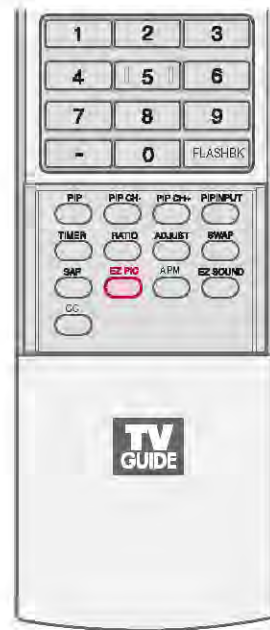
# PRESET PICTURE SETTINGS

## EZ Picture - Preset

EZ Picture adjusts the TV for the best picture appearance. Select the preset value in the EZ Picture menu based on the program category.

Daylight, Normal, Night Time Settings are preset for optimum picture quality at the factory and are not adjustable.

In the User 1, and User 2 modes only, user can directly adjust the contrast, brightness, color, sharpness, tint.



- 1 Press the **EZ PIC** button repeatedly to select the picture appearance setup option as shown below : **Daylight, Normal, Night Time, User1, and User2**(your own settings).

- 2 Press the **EXIT** button to save and return to TV viewing.

■ You can also use the **VIDEO** menu to adjust EZ Picture.

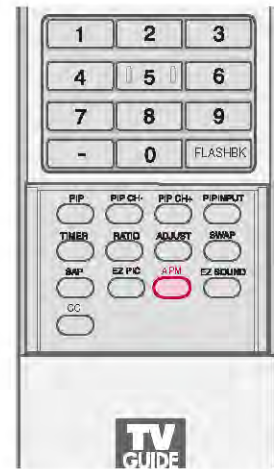


PICTURE CONTROL

# PICTURE CONTROL

## Adaptive Picture Mode (APM)

Allows you to select your preferred picture mode after comparing the four different picture (Daylight, Normal, Night Time, User 1 and User 2) settings.

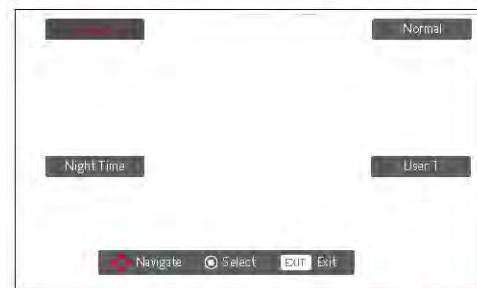


**1** Press the **APM** button at once. As shown below, the screen is divided to 4-split.

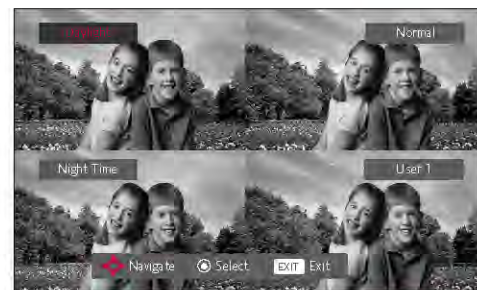
**2** Use the **▲▼◀▶** button to navigate 4 EZ Pictures. By pressing the **ENTER** button, you can select the desired mode.

**3** Press the **APM** button twice times. The 4-same screens are displayed. You can easily compare with 4 modes.

**4** Use the **▲▼◀▶** button to navigate 4 EZ Pictures. By pressing the **ENTER** button, you can select the desired mode.



**1 2 3**



**4 5 6**

### NOTE

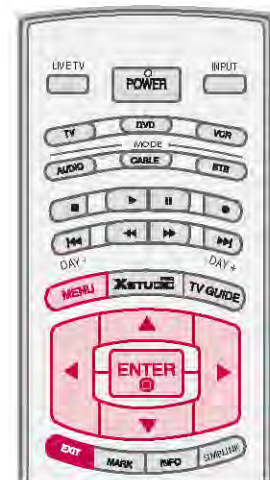
- ▶ While operating the 4-split, any button except **APM, ENTER, EXIT, VOLUME ▲ or ▼, MUTE** or **▲▼◀▶** button on the remote control are not usable.

## 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 EZ Picture options (Daylight, Normal and Night Time), Color Temperature is automatically change.

When selecting EZ Picture options (User 1 and User 2), you can choose the Color Temperature.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **VIDEO** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Color Temperature**.
- 3 Press the ► button and then use ▲ or ▼ button to select either **Cool, Medium, Warm** or **User**.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

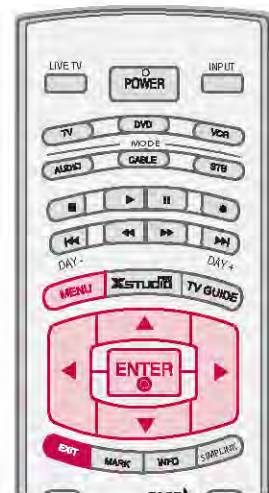


# PICTURE CONTROL

## MANUAL PICTURE ADJUSTMENT

### EZ Picture -User Mode

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



**1** Press the **MENU** button and then use **▲** or **▼** button to select the **VIDEO** menu.

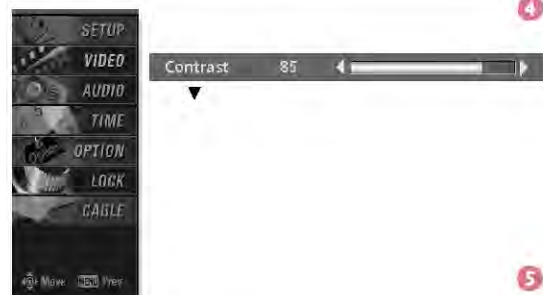
**2** Press the **▶** button and then use **▲** or **▼** button to select **EZ Picture**.

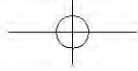
**3** Press the **▶** button and then use **▲** or **▼** button to select **User 1** or **User 2**.

**4** Press the **▶** button and then use **▲** or **▼** button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, or **Tint**).

**5** Press the **▶** button and then use **◀** or **▶** button to make appropriate adjustments.

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

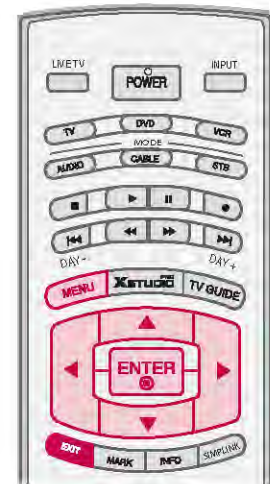




## Color Tone -User Mode

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

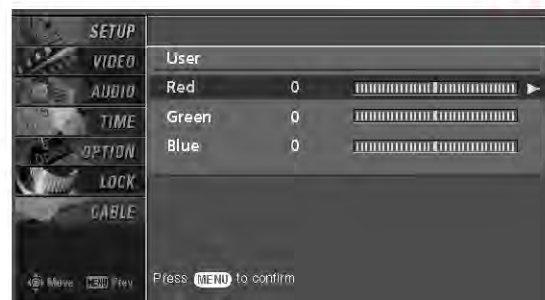
- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **VIDEO** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Color Temperature**.
- 3 Press the ► button and then use ▲ or ▼ button to select **User**.
- 4 Press the ► button and then use ▲ or ▼ button to select **Red, Green, or Blue**.
- 5 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.
  - The adjustment range of **Red, Green, or Blue** is -20~ +20.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



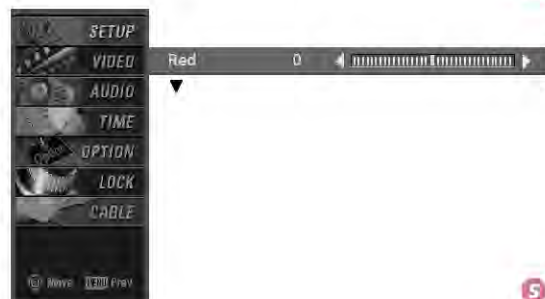
1



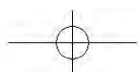
2 3



4



5



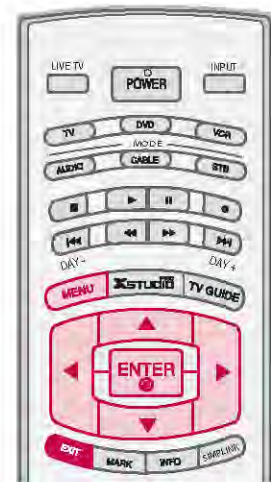
# PICTURE CONTROL

## XD - PICTURE IMPROVEMENT TECHNOLOGY

XD is LG Electronics unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

When selecting EZ Picture options (Daylight, Normal and Night time), XD is automatically change to Auto.

When selecting EZ Picture options (User 1 and User 2), you can choose the Auto / Manual and when selecting Manual, you can adjust the XD Contrast, XD color and XD Noise.



**1** Press the **MENU** button and then use **▲** or **▼** button to select the **VIDEO** menu.

**2** Press the **▶** button and then use **▲** or **▼** button to select **XD**.

**3** Press the **▶** button and then use **▲** or **▼** button to select **Auto** or **Manual**.

### \* Selecting the Manual

1. Press the **▶** button and then use **◀** or **▶** button to select **XD Contrast**, **XD Color** or **XD Noise**.

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

2. Use the **▲** or **▼** 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.



**1**

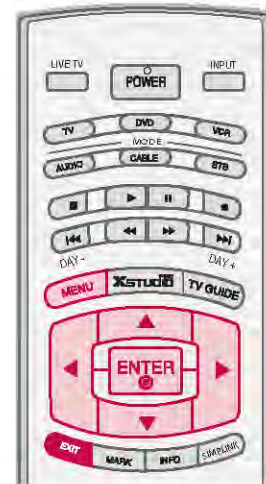


**2 3 4**

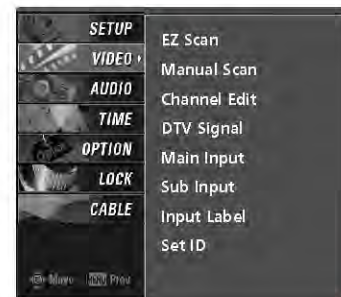
## ADVANCED -CINEMA 3:2 PULLDOWN MODE

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

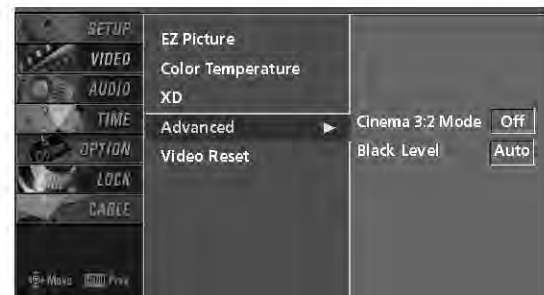
When you operate Cinema (3:2 Pull-Down Mode or Cinema Correction Mode), the TV will adjust 24 fps video from movies to 30 fps video for display (This function is only available in Analog, AV1, AV2, Component 480i mode.)



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **VIDEO** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Advanced**.
- 3 Press the ► button and then use ▲ or ▼ button to select **Cinema 3:2 Mode**.
- 4 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.
- 5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



1



2 3 4

PICTURE CONTROL

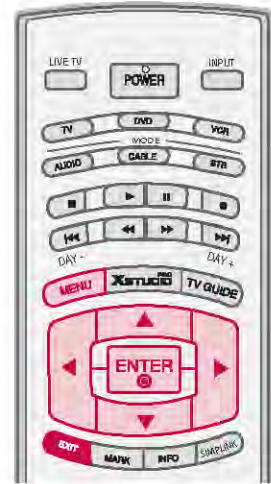


# PICTURE CONTROL

## 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 HDMI1/DVI, HDMI2 or AV1, AV2 mode.



**1** Press the **MENU** button and then use **▲** or **▼** button to select the **VIDEO** menu.

**2** Press the **▶** button and then use **▲** or **▼** button to select **Advanced**.

**3** Press the **▶** button and then use **▲** or **▼** button to select **Black level**.

**4** Press the **▶** button and then use **▲** or **▼** button to select **Auto**, **Low**, or **High**.

- **Auto**  
Realizing the black level of the screen and set it to High or Low automatically.
- **Low**  
The reflection of the screen gets darker.
- **High**  
The reflection of the screen gets brighter.

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



**1**



**2 3 4**