

LCD TV OWNER'S MANUAL

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LG Electronics Inc.

# LCD TV OWNER'S MANUAL

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LCD TV MODELS 37LC2RR 42LC2RR

Please read this manual carefully before operating your set. Retain it for future reference. Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

> P/NO : 38289U0577P (0711-REV06) Printed in Korea

# **IMPORTANT SAFETY INSTRUCTIONS**

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used.

The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction :

## / WARNING

Read these instructions.

Keep these instructions.

Heed all warnings. Follow all instructions.



Do not place the product in direct sunlight or near heat sources such as heat registers, stove and so on.

This may cause a fire.



Do not use the product in damp place such as a bathroom or any place where it is likely to get wet.

This may cause a fire or could give an electric shock.



Bend antenna cable between inside and outside building to prevent rain from flowing in.

This may cause water damaged inside the product and could give an electric shock.



### Earth wire should be connected.

If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.

If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.

Do not connect ground to telephone wires, lightning rods or gas pipe.



Do not placing anything containing liquid on top of the product.

This may cause a fire or could give an electric shock.



### Wet Location Marking :

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



8

Do not insert any object into the exhaust vent.

This may cause a fire or could give an electric shock.



Do not place heavy objects on the product.

This may cause serious injury to a child or adult.

# WARNING

# **IMPORTANT SAFETY INSTRUCTIONS**

### 



Do not use water the product while cleaning.

This may cause damaged the product or could give an electric shock.



In case of smoke or strange smell from the product, switch it off ,unplug it from the wall outlet and contact your dealer or service center.

This may cause a fire or could give an electric shock.

Do not attempt to service the product yourself. Contact your dealer or service center.

This may cause damaged the product or could give an electric shock.





During a lightning thunder, unplug the product from the wall outlet and don't touch an antenna cable.

This may cause damaged the product or could give an electric shock.



# 



Never touch the power plug with a wet hand.

This may cause an electric shock.



Disconnect from the mains and remove all connections before moving.



6

Do not place the product in a built-in installation such as a bookcase or rack.

Ventilation required.

When installing the product on a table, be careful not to place the edge of its stand.

This may cause the product to fall, causing serious injury to a child or adult, and serious damage to the product.

5 Do not place an outside antenna in the vicinity of overhead power lines or other electric light or power circuits.

This may cause an electric shock.

There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.

This may cause an electric shock.

Do not pull the cord but the plug when unplugging.

This may cause a fire.

### 



aerosol cleaners.

This may cause damaged the product or could give an electric shock.

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# **INTRODUCTION**

# ACCESSORIES

Ensure that the following accessories are included with your product. If an accessory is missing, please contact the dealer where you purchased the product.



Owner's Manual



2-TV Bracket Bolts



Batteries (some models)



2-TV Brackets, 2-Wall Brackets



**\* \* \*** 

Remote Control



Cable Management (Refer to p.12)



Power Cord



Twister Holder Arrange the wires with the twister holder.



RF Adapter You must connect it to the antenna wire after fixing in Antenna Input. This adapter is only supplied in Argentina.



Polishing Cloth Polish the screen with the cloth.

- \* Slightly wipe stained spot on the exterior only with the polishing cloth for the product exterior if there is stain or fingerprint on surface of the exterior.
  \* Do not wipe roughly when removing stain. Please be
- Do not wipe roughly when removing stain. Please be cautions of that excessive power may cause scratch or discoloration.

# HOME MENU

This menu is a contents guide.

In Home Menu, you enter the Recorded TV, Manual Rec, Scheduled List or TV Menu.





# INTRODUCTION

# CONTROLS

This is a simplified representation of the front panel. Here shown may be somewhat different from your TV.

### **Front Panel Controls**



Power Standby Indicator

Illuminates red in standby mode.

Illuminates white when the set is switched on.

# **CONNECTION OPTIONS**

Here shown may be somewhat different from your TV.

### Back Connection Panel



### Remote Control Port

Connect your wired remote control.

### 2 HDMI IN

Connect a HDMI signal. Or DVI(VIDEO)signal to the this port with a DVI to HDMI cable.

### 8 RGB/AUDIO IN

Connect the output from a settop box or PC to the appropriate input port.

 RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC.

### 🕞 AV (Audio/Video) IN 1

Connect audio/video output from an external device to these jacks. S-VIDEO Connect S-Video out from an S-VIDEO device.

### 6 AV OUT

Connect a second TV or monitor.

COMPONENT IN Connect a component video/audio device to these jacks.

### VARIABLE AUDIO OUT Connect an external amplifier or add a subwoofer to your surround sound system.

- O ANTENNA IN Connect over-the air signals to this jack.
- Power Cord Socket For operation with AC power. Caution: Never attempt to operate the TV on DC power.

# INTRODUCTION

# **REMOTE CONTROL KEY FUNCTIONS**

When using the remote control, aim it at the remote control sensor on the TV.

POWER	Turns your TV or any other programmed equipment on or off, depending on mode.	INPUT TV POWER TV
TV INPUT	Returns to the TV mode.	
INPUT	If you press the button once, the input source OSD will appear on screen as shown. Press the ▲ / ▼ button and then ENTER button to select the desired input source (TV, AV1, AV2, Component 1, Component 2, RGB, HDMI1/DVI, or HMDI 2).	
ARC	Change the aspect ratio. <b>p.73</b>	
	<ul> <li>Adjusts brightness on screen.</li> <li>It returns to the default settings brightness by changing mode source.</li> </ul>	MEMORYTERASE TIME MENO
EXIT	Clears all on-screen displays and returns to TV viewing from any menu.	
MEMORY/ERASE	Memorizes or erases selected channel. <b>p.45</b>	
TIME MACHINE	Brings up the Home menu.	VOL CH
MENU	Displays the main menu.	
SLEEP	Select the amount of time before your TV turns off auto- matically. ▶ <b>p.66</b>	
VOLUME UP /DOWN	Increases/decreases the sound level.	
FCR	Scroll through the programmed Favorite channels.	
MUTE	Switches the sound on or off.	
CHANNEL UP/DOWN	Select available channels.	
CAPTION	Selects CAPTION mode. ► <b>p.68</b>	

INTRODUCTION

INTRODUCTION

MODE Selects the remote operating mode: TV, VCR, DVD.

PIP Switches the sub picture PIP, DW, POP mode. ▶ p.41

SIZE Adjusts the sub picture size. > p.42

POSITION Moves the sub picture. **p.42** 

PIP CH - /+ Selects a channel for the sub picture. ▶ p.41

SWAP Exchanges the main/sub images in PIP/Double window mode. ▶ **p.42** 

PIP INPUT Select the connected input source for the sub-picture. ▶ p.41

VCR/DVD Control video cassette recorders or DVD players. control buttons These buttons are used for TIME MACHINE. For further details, see the 'TIME MACHINE' section.

MARK Selects the wanted functions. **p.37** 

LIVE TV In TV, AV1, AV2, Component 1/2 480i modes, screen returns to the live program. **P.37** 

THUMBSTICK Navigate the on-screen menus and adjust the system settings to your preference. (Up/Down/Left /Right/ENTER)

NUMBER button Scroll through the programmed Favorite channels.

MTS Selects the MTS sound: Mono, Stereo, or SAP. > p.62

**REVIEW** Tune to the last channel viewed.

Installing Batteries



- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones.
- Close cover.

### **Remote control effective range**



- Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in a recycle bin to preserve environment.

# INSTALLATION

# WIRE ARRANGEMENT

Here shown may be somewhat different from your TV.

Connect the cables as necessary.

After connecting the cables neatly, arrange the cables to the Cable Holder. To connect an additional equipment, see the **Connections & Setup** section.





Bundle the cables using the supplied twister holder.



# How to remove the CABLE MANAGEMENT

Hold the CABLE MANAGEMENT with both hands and pull it upward.



### NOTE

- Do not hold the CABLE MANAGEMENT when moving the product.
  - If the product is dropped, you may be injured or the product may be broken.

# ATTACHING THE TV TO A WALL

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards. Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.



Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.
 \* If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.

Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) on the wall. Match the height of the bracket that is mounted on the wall to the holes in the product. Ensure the eye-bolts or brackets are tightened securely.



Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

# DESKTOP PEDESTAL INSTALLATION

For proper ventilation, allow a clearance of 4inches on each side from the wall.



### **A**CAUTION

Ensure adequate ventilation by following the clearance recommendations.

# **CONNECTIONS & SETUP**

To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

# ANTENNA CONNECTION

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.



- To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
- If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
- If the antenna is not installed properly, contact your dealer for assistance.

### NOTE

▶ The TV will let you know when the analog and cable channel scans are complete.

# VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV
- If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

### When connecting with an antenna



### 1. How to connect



Connect the antenna cable to the RF antenna in socket of the VCR.

### 2. How to use

2

- Set VCR output switch to 3 or 4 and then tune TV to the same channel number.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

### When connecting with a RCA cable

### 1. How to connect



Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

### 2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV1 input source with using the INPUT button on the remote control.
- If connected to AV IN2, select AV2 input source.

# When connecting with an S-Video cable

### 1. How to connect



Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set.



Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.

### 2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV1 input source with using the INPUT button on the remote control.

### NOTE

The picture quality is improved: compared to normal composite (RCA cable) input.



### NOTE

If you have a mono VCR, connect the audio cable from the VCR to the AUDIO
 L/MONO jack of the set.



### **A** CAUTION

Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.

# EXTERNAL EQUIPMENT CONNECTIONS

### 1. How to connect

Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors. (Video = yellow, Audio Left = white, and Audio Right = red)

### 2. How to use

1

- Select AV1 input source with using the INPUT button on the remote control.
- If connected to AV IN2, select AV2 input source.
- Operate the corresponding external equipment.



# **EXTERNAL STEREO**

Use to connected either an external amplifier, or add a subwoofer to your surround sound system.

### 1. How to connect



Connect the input jack of the stereos amplifier to the **VARIABLE AUDIO OUT** jacks on the set.



Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.

### NOTE

 When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off.
 (▶ p.61)



**CONNECTIONS & SETUP** 

# AV OUT SETUP

The TV has a special signal output capability which allows you to hook up the second TV or monitor.

### 1. How to connect



Connect the second TV or monitor to the TV's **AV OUT** jacks.



See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

### NOTE

- Component, RGB, HDMI input sources cannot be used for AV out.
- ▶ We recommend to use the AV OUT jacks for VCR recording.



# **DVD SETUP**

### When connecting with a component cable

### 1. How to connect



Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO1** jacks on the set. Match the jack colors

(Y = green, PB = blue, and PR = red).



Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO1** jacks on the set.

### 2. How to use

- Turn on the DVD player, insert a DVD.
- Select Component 1 input source with using the INPUT button on the remote control.
- If connected to COMPONENT IN 2 input, select Component 2 input source.
- Refer to the DVD player's manual for operating instructions.



### **Component Input ports**

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	Рв	Pr
	Y	Рв	Pr
Video output ports	Y	B-Y	R-Y
on DVD player	Y	СЬ	Cr
	Y	РЬ	Pr

# **CONNECTIONS & SETUP**

### When connecting with an S-Video cable

### 1. How to connect



Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.



Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.

### 2. How to use

- Turn on the DVD player, insert a DVD.
- Select AV1 input source with using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.

# When connecting HDMI cable

### 1. How to connect



Connect the HDMI output of the DVD to the HDMI IN 1 (DVI) or HDMI 2 jack on the set.



No separated audio connection is necessary.

### 2. How to use

- Select HDMI1/DVI or HDMI2 input source with using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.

### NOTE

- ▶ If the DVD supports Auto HDMI function, the DVD output resolution will be automatically set to 1280x720p.
- ▶ If the DVD does not support Auto HDMI, you need to set the output resolution appropriately.

To get the best picture quality, adjust the output resolution of the DVD to 1280x720p.





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# CONNECTIONS & SETUP

# HDSTB (SET-TOP BOX) SETUP

### When connecting with a component cable

### 1. How to connect



Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO 1** jacks on the set. Match the jack colors (Y = green, PB = blue, and PR = red).

.....

2

Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1** jacks on the set.

### 2. How to use

- Turn on the digital set-top box.
   (Refer to the owner's manual for the digital set-top box.)
- Select Component1 input source with using the INPUT button on the remote control.
- If connected to COMPONENT IN2 input, select Component2 input source.

Signal	Component 1/2	HDMI1/DVI, RGB-DTV, HDMI2
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes



# **CONNECTIONS & SETUP**

### When connecting with a D-sub 15 pin cable

### 1. How to connect



Connect the RGB output of the digital set-top box to the **RGB (PC/DTV)** jack on the set.



Connect the audio outputs of the set-top box to the **AUDIO (RGB/DVI)** jack on the set.

### 2. How to use

- Turn on the digital set-top box.
   (Refer to the owner's manual for the digital set-top box.)
- Select RGB-DTV input source with using the INPUT button on the remote control.

### When connecting with a HDMI cable

### 1. How to connect



Connect the digital set-top box to HDMI IN 1 (DVI) or HDMI 2 jack on the set.



No separated audio connection is necessary.

### 2. How to use

- Turn on the digital set-top box.
   (Refer to the owner's manual for the digital set-top box.)
- Select HDMI1/DVI or HDMI2 input source with using the INPUT button on the remote control.

### NOTE

- If the digital set-top box supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.
- ▶ If the digital set-top box player does not support Auto HDMI, you need to set the output resolution appropriately.

To get the best picture quality, adjust the output resolution of the source device to 1280x720p.





### When connecting with a HDMI to DVI cable

### 1. How to connect



Connect the DVI output of the digital set-top box to the **HDMI IN 1 (DVI)** jack on the set.



Connect the audio output of the digital set-top box to the **AUDIO(RGB/DVI)** jack on the set.

### 2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select HDMI1/DVI input source with using the INPUT button on the remote control.



# **CONNECTIONS & SETUP**

# PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

### When connecting with a D-sub 15 pin cable

### 1. How to connect



Connect the RGB output of the PC to the **RGB** (**PC/DTV**) jack on the set.

2

Connect the PC audio output to the **AUDIO** (**RGB/DVI**) jack on the set.

### 2. How to use

- Turn on the PC and the set.
- Select RGB-PC input source with using the INPUT button on the remote control.



Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card.



### When connecting HDMI to DVI cable

### 1. How to connect



Connect the DVI output of the PC to the **HDMI IN 1 (DVI)** jack on the set.



Connect the PC audio output to the **AUDIO** (**RGB/DVI**) jack on the set.

### 2. How to use

- Turn on the PC and the set
- Select HDMI1/DVI input source with using the INPUT button on the remote control.



### NOTE

- ► HDMI2 source does not support DVI source.
- ▶ If the PC has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the PC does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of PC graphics card's output resolution to 1360x768, 60Hz.

# **CONNECTIONS & SETUP**

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x480	31.469 37.500	59.94 75.00
720x400	31.469	70.08
800x600	37.879 46.875	60.31 75.00
832x624	49.725	74.55
1024x768	48.363 56.476 60.023	60.00 70.06 75.02
1280x768	47.693	59.99
1360x768	47.700	60.00
1366x768	47.700	60.00

### Supported Display Resolution (RGB[PC]/HDMI [PC] mode)

### NOTE

- ▶ We recommend using 1360x768, 60Hz for the PC mode, they provide the best picture quality.
- > Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- ▶ When Source Devices connected with HDMI Input, output TV SET Resolution (480p, 720p, 1080i) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI Source Devices or contact your service center.
- If the HDMI Source Device is not connected to the Cable or if there is a poor cable connection, "No signal" is displayed in the HDMI Input. In this case, that Video Resolution is not supported.
- Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- > The synchronization input form for Horizontal and Vertical frequencies is separate.
- ▶ When you use too long RGB-PC cable, there might be a noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.

# **BASIC OPERATION**

# TURNING THE TV ON



First, connect power cord correctly.
At this moment, the TV switches to standby mode.
In standby mode to turn TV on, press the �/I, INPUT, CH ▲ / ♥ button on the TV or press the POWER, TV, INPUT, CH +/-, Number(0~9) button on the remote control and then the TV will switch on.

# **CHANNEL SELECTION**



Press the CH +/- or NUMBER buttons to select a channel number.

# **VOLUME ADJUSTMENT**

Adjust the volume to suit your personal preference.



If you want to switch the sound off, press the **MUTE** button.

You can cancel the Mute function by pressing the **MUTE**, **VOL +/-** or **MTS** button.

### NOTE

▶ If you intend to be away on vacation, disconnect the power plug from wall power outlet.



# **BASIC OPERATION**

# **ON-SCREEN MENUS LANGUAGE SELECTION**

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



Press the **MENU** button and then use  $\blacktriangle$  or  $\blacktriangledown$  button to select the **SPECIAL** menu.

Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  or  $\blacktriangledown$  button to select Language.

-
Z
27

Press the  $\blacktriangleright$  button and then use  $\blacktriangle$  or  $\blacktriangledown$  button to select your desired language. From this point on, the on-screen menus will be shown in the selected language.



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

# **SPECIAL FUNCTIONS** DVR (Digital Video Recorder)

# TIME CONTROL

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





SPECIAL FUNCTIONS

# **SPECIAL FUNCTIONS** DVR (Digital Video Recorder)

# PROGRESSING THE TIME CONTROL FUNCTION



SPECIAL FUNCTIONS

# menu and turn Time control Off.

### NOTE

- DVR (Digital Video Recorder) : A device which records and plays broadcast program contents onto a hard disk in set or SET TOP BOX.
- In order to save hard-disk space, nothing is saved when there is no signal.
- The total storage space of the hard-disk is 80 GB. 4 GB minimum is reserved for Time control.
- When turning power on, it may take up to maximum 3 minutes to initialize the HDD.
- The Recording function will not initiate for a copy-protected program.
- Because an analog broadcast is transfered 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/DW/POP mode, Time control is stopped.
- Time control is available in TV, AV1, AV2, Component 1/2 (480i) mode.
- ▶ Time control is not available for Audio only channels.

## Progressing the Time control function, play

- On progressing Time control, It can do a diversified playing.





### Using the remote control

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

MARK	When playing, repeatedly, press the <b>REW(()</b> button to speed up () -> (
(*)	Press the $\textcircled{ or } \bigoplus_{w \in V}$ button to move back and forth within the current program.
LIVE TV	Press the  button to jump at the front of the programme.
	Pressing the button to jump at the end of the programme.
	Press the $\blacktriangle$ button to jump about 20 seconds forward.
	Pressing the $\mathbf{\nabla}$ button to jump about 8 seconds backward.
	During playback, press the <b>Pause(  During</b> ) button. Still screen is displayed.
"	Repetedly press the Pause( ) button to advance frame by frame.
	Press the Pause( ) button and then use the FF( ) button for slow motion (as showing the ).
	■ When using the    or    button during playback the cursor can be viewed on the screen.
$\mathbf{\dot{\mathbf{b}}}$	Press the <b>PLAY(</b> D) button to return to normal playback.
LIVE TV	If you want to return to the current live broadcast, press the 💭 button.

# SPECIAL FUNCTIONS DVR (Digital Video Recorder)

# RECORDING

Use this function to record the program you are watching on the main screen. If you apply Main power off before finish recording it is not recorded the programs that was recording before.

### **Instant Record**

This function records the currently displayed programme.

Select the desired programme to record and then press the **O** button. During recording **Constant** is displayed. Use this feature to record up to 2 hours of programming.



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If you want to stop recording, press the 💿 button.

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.





You can add/subtract recording time by pressing the  $\bigcirc$  button while recording. Press the  $\triangleleft$  or  $\triangleright$  button repeatedly to add/subtract to the recording time.

Each time you press  $\blacktriangleleft$  or  $\blacktriangleright$  button the recording duration changes as shown below.

+10min → +20min → +30min → +40min → +50min → +60min No Change -10min → -20min → -30min → -40min → -50min → -60min The extra recording time added to existing setting equals the final recording time.



After adjusting the recording time, select **ENTER**. The Status bar will be displayed.





Press the EXIT button to hide the Status bar. Press the ENTER button to display the Status bar.

 Recording stops when the selected duration is reached or when you press the 
 button.
 Although recording has stopped, the Time control feature

remains active.

### 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 broadcasts, no data will be saved if there is no signal.
- The recording function will not initiate for a copyprotected 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 Time control.

**I** Stop recording due to copy protection.

- If the old tape is recoreded, this may cause damage to the recording quality.
- It will be stored separately the programme according to the color system signal.

# SPECIAL FUNCTIONS DVR (Digital Video Recorder)

# WATCHING & RECORD

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



After starting an Instant Record or Reserved Record, change the program or input.

- You can check the show being recorded in the lower-right corner the main screen (as shown right).
- Press the PIP button to hide or show the program being recorded.
- Press the SWAP button to return to the program being recorded in Watching & Record.
- When changed to the programme recorded in Watching & Record, the screen is changed to Instant Record state or Reserved Record state.



screen being recorded

Record Watching	Analog	AV1	AV2	Component 1/2(480i)
Analog	0	0	0	0
AV1	0	х	0	0
AV2	0	0	x	0
Component 1	0	0	0	х
Component 2	0	0	0	Х
RGB	0	0	0	0
HDMI1/DVI	0	0	0	0
HDMI2	0	0	0	0

### Watching & Record Input

\* It's not available to select same channel in Analog mode.

### **CAUTION**

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

0	Powering off whi	-	
	Continue rec Yes	No	

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

# **RECORDED TV**

You can watch the recorded program list at a glance. This function is available to use in DVR menu.



Press the  $\bigcirc$  button to display Home menu. Use the  $\blacktriangle$  or  $\checkmark$  button to select the **Recorded TV** and then use the **ENTER** or  $\triangleright$  button.





# RECORDED PROGRAM SELECTION AND POPUP MENU

The thumbnail recorded list is shown above.

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Use the **CH+** or **CH-** button for page up/down navigation.



Use the **MARK** button to delete from the list. A  $\square$  is displayed next to the thumbnail photo if an item is marked.



SPECIAL FUNCTIONS

# SPECIAL FUNCTIONS | DVR (Digital Video Recorder)

Use  $\blacktriangle \forall \triangleleft \triangleright$  button to navigate the appropriate thumbnail photo, then press the **ENTER** button to open the Popup Menu.

- Play : Begin playback of selected recording.
- ► Mark All : mark all photos on the screen.
- ▶ Unmark All : Change marked photos to unmarked photos.
- Delete : Delete the selected recording.
- **Rename** : Edit recorded program title.
- Cancel : Close the Pop-up Menu.

Repeatedly, press **EXIT** button to return to TV viewing or press witton to return to the **Home** menu.

- If the HDD has a problem performing a function (Recording) related to the DVR, this message is displayed.
- If the temperature is below zero (0°), a warning message is displayed and you need to initialize the HDD.



(i) HDD initialisation is in progress.

🔼 Cannot operate DVR at low temperature.

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# SPECIAL FUNCTIONS

# PLAYING RECORDED PROGRAMS

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



# USING THE REMOTE CONTROL

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

MARK	When playing, repeatedly, press the <b>REW(</b> () button to speed up () -> (1×5) -> (1×5) -> (1×10) -> (1×50) -> (1×10) . repeatedly, press the <b>FF(</b> ) button to speed up () -> () × 5) -> () × 10) -> () × 500 -> () × 100 . = Pressing these buttons repeatedly increases the fast forward/reverse speed.
()	Press the $\textcircled{oldsymbol{\Theta}}$ or $\overset{oldsymbol{\Theta}}{\underset{\scriptscriptstyle{\scriptscriptstyle{\mathrm{MFV}}}}}$ button to move back and forth within the current program.
LIVE TV	Press the e button to jump at the front of the programme.
	Pressing the button to jump at the end of the programme.
	Press the $\blacktriangle$ button to jump about 20 seconds forward.
<u> </u>	■ Pressing the ▼ button to jump about 8 seconds backward.
	During playback, press the <b>Pause(                                    </b>
	Repetedly press the Pause( ) button to advance frame by frame.
	Press the Pause( ) button and then use the FF( ) button for slow motion (as showing the ).
	■ When using the
Ċ	Press the <b>PLAY( D</b> ) button to return to normal playback.
۲	If you press the STOP( ) button, you can watch set.