



# INSTALLATION MANUAL

# LED LCD TV

Please read this manual carefully before operating your set and retain it for future reference.

LY330C  
LY340C  
LY345C  
LY540S

Printed in Korea

[www.lg.com](http://www.lg.com)

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# DIGITAL SIGNAGE MEDIA PLAYER

## Digital Signage Media Player Overview

(\* Only for LY540S series)

The Digital Signage Media Player can play content produced and distributed by SuperSign Elite-W. Supported content types consist of photographs, videos, external inputs such as TV broadcasts, texts, and music.

### (1) Executable content

- \*.cts : These files can be played at any time.
- \*.sce : These files can be played at any time like \*.cts files or they can be played to a specific schedule.

### (2) Using the My Media menu to play files

- After inserting the USB storage device, access the My Media menu and select an executable content file under the “All Media” tab or the “Contents List” tab to play the file.

### (2) Auto-play on USB insertion

- Files with executable content in a specific folder are automatically played when Power On is selected or when a USB drive is inserted after Power On.
- If a USB storage device is already inserted when Power On is selected, files with executable content in the “normal” folder are played by default. If the “normal” folder does not exist, files with executable content in the “AutoPlay” folder are played instead.
- If a USB storage device is inserted some time after Power On has been selected, files with executable content in the “AutoPlay” folder are played by default. If the “AutoPlay” folder does not exist, files with executable content in the “normal” folder are played instead.
- Auto-play on USB insertion is only supported by USB port #1.

### (4) Distributing and playing content via SuperSign Elite-W

- If a USB storage device is inserted in USB port #1, the LAN cable is connected and the SuperSign Server settings are configured, content can be received from the SuperSign Elite-W server.
- Schedules can be set to play a variety of specific content or media files, including photos and videos, from SuperSign Elite-W whenever the user wants.
- Messages created by the user can be sent to the player via SuperSign Elite-W.
- For more information, see the SuperSign Elite-W manual.

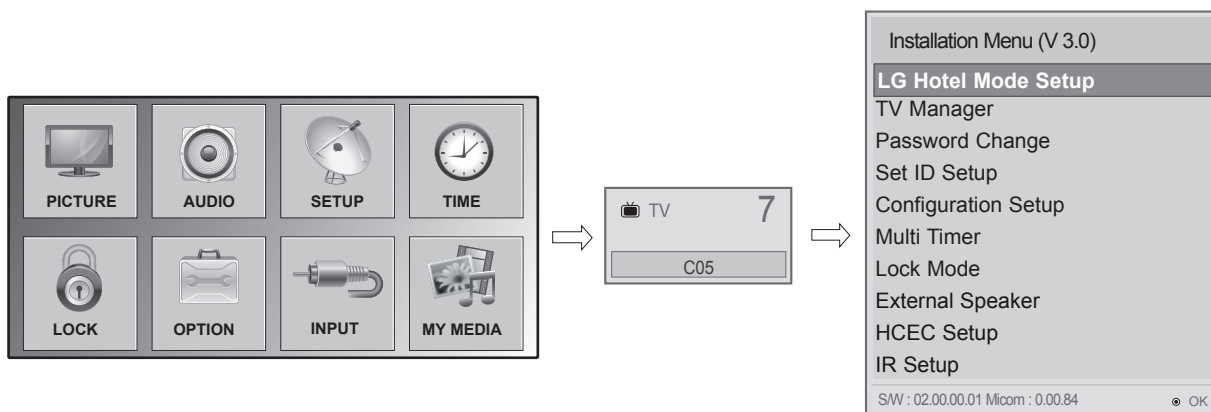
# INSTALLATION MENU

## Introduction

The abundant functions for Hotel TV linked with software installation can be projected on OSD as 'Installation Menu'.

The wide range of hotel features can be performed simply on additional window to enhance the LG hotel TV's easy installation and convenient operation for Hotelier and System Integrators.

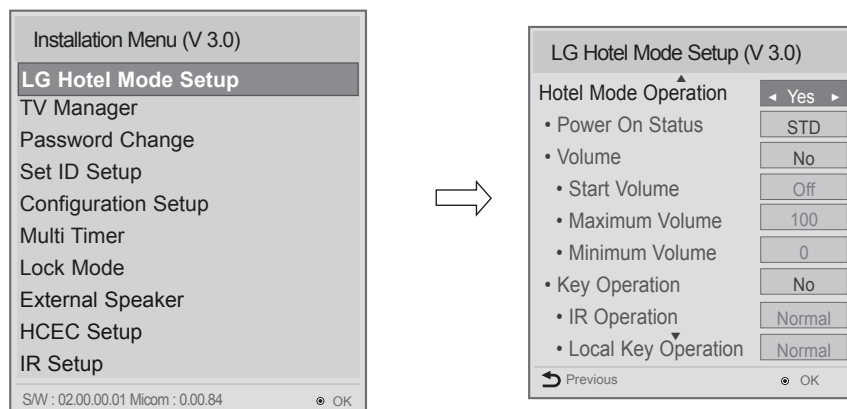
- Image shown may differ from your TV.



- 1 Press the **Home** button for more than 5 seconds using the user remote control, programme information will appear at top left on the screen.
- 2 Enter a four digit password and press OK button.
  - The TV is set with the initial password "1-1-0-5".
- 3 Use the  $\downarrow$   $\uparrow$  button to select the desired menu.

# LG Hotel Mode Setup

- Image shown may differ from your TV.



- 1 Use the  $\nabla$   $\blacktriangle$  button to select the LG Hotel Mode Setup.
- 2 Use the **OK** button and then  $\nabla$   $\blacktriangle$  button to select Hotel Mode Operation.  
\*When 'Hotel Mode Operation' is set to Yes(Work), all functions of Hotel Mode apply.

## (1) Hotel Mode Operation (DVB)

- Decide to work all functions of 'Hotel Mode Operation' or not by setting 'Hotel Mode Operation' as Yes(Work) or No(Do Not Work)
- When 'Hotel Mode Operation' is set to Yes(Work), all functions of Hotel Mode apply.
- When 'Hotel Mode Operation' is set to No(Do Not Work), all functions of Hotel Mode Do Not apply.
- When it is set to 'Yes', 'Key Lock' item of the User menu is disabled and the OSD is displayed same to the Local Key Operation setting of the Hotel mode.
- When it is set to 'Yes', all items reserved at the Schedule list are deleted and the reservation function is not supported. (applied for the model offering the reservation function)
- The TV triggered by the external device (ex: SIMPLINK, TVLink-Tuner, etc.) operates separately from the Hotel mode.
- When it is set to 'Yes', User Menu-> Option -> 'Factory Reset' is disabled.

## (2) Power On Status

- Decide to select working status of TV Set when turn on main power.
- You can set with PWR, STD, LST.
- PWR always make TV set On status when turn on main power .
- STD make Stand-by status when turn on main power.
- LST make TVSet work like previous power status. As same concept as Power Backup mode; If main power were turned off in Power On status, TVSet would work in On status. If main power were turned off in Stand-by status, TVSet would work in Stand-by status.

**(3) Volume** ( $0 \leq \text{Min} \leq \text{Start} \leq \text{Max} \leq 100$ )

- Decide to apply volume policy of 'Start Volume', 'Maximum Volume' and 'Minimum Volume' as Yes(Work) or No(Do Not Work).

**(3-1) Start Volume**

This entry sets the start volume level when is power on.

- The level is specified as a number between minimum volume to maximum value. ( $\text{Min} \leq \text{Start} \leq \text{Max}$ )
- The default setting is 'Off' (disabled).
- When enabled, if the value is lower then the minimum specified in the minimum volume entry, the minimum volume entry must be used.
- When enabled, if the value is larger then the maximum specified in the maximum volume entry, the maximum volume value must be used.
- Access to a volume in 'On Timer' must be fixed to start volume when 'Hotel Mode Operation' (Yes) and 'Start Volume' (Off, 0 ~ 100) were set simultaneously.

**(3-2) Maximum Volume**

This entry sets the maximum volume level the set. The level is specified as a number between 'Minimum Volume' to 100. ( $\text{Min} \leq \text{Max} \leq 100$ )

- If the command volume up to higher than maximum volume' is received, that should be ignored.
- The default value is 100.

**(3-3) Minimum Volume**

This entry sets the minimum volume level the set will produce.

- The level is specified as a number between 0 to 'Maximum Volume'. ( $0 \leq \text{Min} \leq \text{Max}$ )
- If the command volume down to lower than minimum volume is received, that should be ignored.
- The default value is 0.

**(4) Key Management (v3.0)**

- Manage key usability of Local(Front) Key and Remote Control. When selected to 'Yes', following 'IR Operation' and 'Local Key Operation' will be worked by below.

**(4-1) IR Operation**

Decide whether work the LG remote control or not.

- Able to set Normal, Use PWR Only, Block All.
- When 'IR Operation' is set to Block All, all normal remote keys don't work. Use PWR Only (Block except power) makes block all remote keys except power key.
- Although 'IR Operation' value is Use PWR Only or Block All.
  - » It can work in 'Service mode'. (In-Start, In-Stop, Power-Only, ADJ, Hotel-Mode, Hotel-Mode-Ready, P-Check, S-check, In-Time, FMode-Init, FMode-Start, FMode-AV, FMode-F1)
  - » Menu key action to enter the 'Installation Menu' and key action with 'Special menu(In-Start / EZ-Adjust ...)' are still available.
- When 'IR Operation' is set to 0 (Work), all remote keys are available.

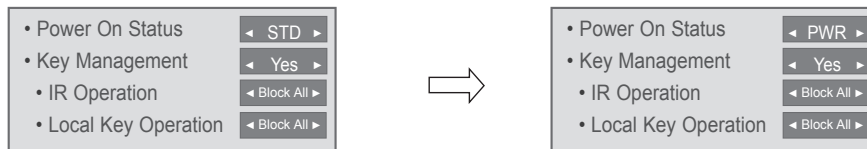
#### (4-2) Local Key Operation

Decide to operate 'Local/Front Key' working behavior by setting 'Local Key Operation' as Normal, Use PWR Only, Block All.

- When 'Local Key Operation' is set to Block All, all local keys don't work. If value is Use PWR Only, it blocks all local keys except power key.
- When 'Local Key Operation' is set to Normal, all local key are available.

#### Exception)

In case of power off condition with all key are blocked, 'Power On Status' value turns to 'PWR', and disabled status to fix value for power on operation. (fool-proof routine)



#### (5) Limited Mode

Configure TV function's limitation. When selected to 'Yes', following sub-menus will be worked by below.

##### (5-1) Setup Menu

Decide to enter 'Setup' Menu' as 'Yes'(Enter possible) or 'No'(Enter impossible)

##### (5-2) Input Source Change

Decide to change input source or not by setting 'Input Source Change' as Yes(Change possible) or No (Change impossible).

- When 'Input Source Change' is set to 'No' (Change impossible)
  - » 'INPUT key' doesn't work, and Input Source Changing via 'TV D/A' key, 'TV/RADIO' key aren't possible (ex. Press TV/RADIO Key in HDMI source to view TV channel)
  - » User's input (pressing Programme key, numeral key, List key, Q.View key in all Input source except TV source) doesn't work.
  - » Entering 'Setup Menu' item in the 'Main Menu OSD' except TV mode doesn't accepted. Because entering 'Setup Menu' item makes present mode as TV mode even though present mode is not TV. Change to TV mode isn't allowed.
  - » TV set always turns on fixed input source and volume information regardless of already set information.
  - » Entering 'Setup Menu' except TV mode is impossible regardless of 'Programme Change' or 'Setup Menu' items' value.
  - » TV can be only turned on with the input source which is irrelevant from the programme related information set (volume, input) in 'On Time' Menu.
  - » Auto AV and HDMI-CEC still work regardless of Input Source Change's value.
  - » When 'Input Source Change' is set to Yes(Change possible), changing input source is available.

### (5-3) Programme Change

Decide to change channel or not by setting 'Program Change' as 'Yes'(Change Possible) or 'No'(Change Impossible) when present source is TV.

- When 'Programme Change' is set to No (Change Impossible)
  - » Program Key, Numeral Key, List Key, Q.View Key don't work and entering 'Channel Menu' in the Main Menu OSD is impossible.
  - » 'Programme' item in 'On Time' menu will be fixed.
  - » Entering 'Setup Menu' in the 'Main Menu' OSD is impossible regardless of 'Setup Menu' item.
- When 'Program Change' is set to Yes(Change Possible), 'Program Key', 'Numeric Key', 'List Key', 'Q.View' Key does work and entering 'Channel Menu' in the Main Menu OSD is possible.

### (5-4) Menu Display

Function to decide whether work with menu (including relevant menus too) of control key (Yes – Enter possible) or not (No – Enter Impossible).

- Although select No(Enter impossible), the action that press a Menu button for 5 seconds to enter 'Installation Menu' is available.
- When select Yes(Enter possible), Menu works.

### (5-5) OSD Display

Decide to display OSD or not by setting 'OSD Display' as Yes(Display) or No(Do not Display).

- When 'OSD Display' is set to 'No'(Do not Display), all OSD is not displayed except some exception.
- Although select 'No' (Do not Display), the action that press a Menu button for 5 seconds to enter 'Installation Menu' and entering service menu are available. (In-Start, Power-Only, Adjust, Installation Menu ...)

### (5-6) System Provider Mode

'System Provider Mode' allows access to the menu system from the front panel or remote control but access is controlled as follows:

- When value is 'Yes', Accessible Items on the menu system, others are not permissible.
  - » Input select screens
  - » Sleep timer
  - » Aspect Ratio
  - » Closed Caption
  - » 'Lock' / 'My Media' / 'Network' / 'Support' / 'Bluetooth' Menu
- 'Q.menu', which is related to 'Setup' Menu, is not accessible.
- If the channel map is empty, 'Auto-tuning' guide dialog should be blocked by pressing 'List', 'Fav', 'CH+', 'CH-' keys.

#### **(6) Power Management**

The Power Management feature will turn off the television receiver if no input control command is received from either the Local or IR Key within a selected hours.

- Activity on either of these inputs shall restart the 'Power Management' timer and check key time interval again.
- This entry can be set to a value which is corresponding to the desired hours (1 to 7).
- Default value is 'Off(disabled)'.
- TV should off and on after apply this setting.

#### **(7) DTV Programme Update**

It is a mode to set whether to update DTV channel information automatically or not.

- When DTV Channel Update is set to 'Auto', the function to update TV's programme map according to DTV channel's stream information
- DTV Channel Update is set to 'Manual', the function to keep TV's channel map even though DTV programme's information is changed.

#### **(8) Power On Default**

Set the input source or channel to display and A/V settings when turn on power in AC Power On or Stand-by status.

##### **(8-1) Input Source**

Set whether it is turned on by the set input source or by the last stored input source.

- It is turned on by the Last Memory Input if the Input source is turned off.
- It is turned on by the Last Pr. If the Input source is turned off and the last memory Input is the RF.
- The available Input Source values should be rotated.
- If both the Input source and the 'On Time' menu are set, the Input source takes the priority.
- When the Input source is changed to the TV, Programme menu is available.
- When the Input source is changed to the ATV, the Program No. is set to 0. (If the channel map structure does not support this, it depends on model's channel handling.
- Access to an input source item and a channel in 'On Timer' menu must be disabled when Power On Default is activated.

##### **(8-2) Programme**

Select start channel number if Input source's value is TV. (in case of ATV, it means physical channel number.)

### **(8-3) A/V Setting**

If 'A/V Setting' is changed from 'No' to 'Yes', parameters that are set before entering 'Installation Menu' are applied whenever turn on power.

- Following Parameters are applied to basic.
  - » Picture section - PSM mode, Picture Data (Contrast, Brightness, Color, Sharpness, Tint)
  - » Sound section - SSM mode, Sound Data (Balance, Equalizer Data)
  - » AVL (Auto Volume Level) and Language, Teletext language, ARC Data. Except these, other parameters are applied differently according to the TV-Set.

### **(8-4) Aspect Ratio**

The aspect ratio determines the default aspect ratio that the set returns to on power up.

- The modes are as follows:
  - » Aspect ratio = "Disabled(0)" stays at previous state, same as consumer model.
  - » Aspect ratio = "Set by Program(1)"
  - » Aspect ratio = "4:3 ratio (2)"
  - » Aspect ratio = "16:9 ratio (3)"
- If enabled, upon power up the television reset the aspect ratio to the specified state regardless of how the user has previously changed the aspect ratio.

### **(9) Aux Source Setting**

The Auxiliary (Input) Source Setting feature will enable or disable for each external input. When 'Aux Source Setting' is set to Yes(Work), the RJP or HDMI-CEC / HTNG will not operate.

#### **(9-1) Input Source**

- Available Input Source List

#### **(9-2) Setting**

- Decide whether selected 'Input Source' is usable (Enable) or not (Disable).
- User cannot disable the current input's 'Aux Source Setting'.

### **(10) Radio Name Display**

Instead of 'Audio Only', the name of a radio channel is displayed on the screen when a radio broadcast is playing.

- Set to Yes(Work) or No(Do Not Work).
- If the setting is 'Yes', the name of a radio channel is displayed for the radio channel.
- If the setting is 'No', the text 'Audio Only' is displayed for the radio channel.

**(11) Radio Video Blank**

Manage video blank channel(sound only). This feature affects on analog channel (ATV) only.

**(11-1) Start PR. No.**

- Start channel number to video blank.
- Available programme to set are 0~199(For Taiwan : TV 2~69, CATV 1~199).

**(11-2) No. Of. PR.**

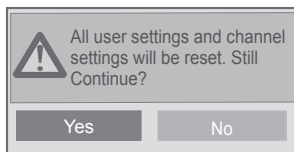
- Number of channels to blank
- The max value for the 'No. of PR' is 10.
- Can not set more than maximum available channel number. For example if Start PR. set to 195, "Number of PR". can not set more than 5.
- Radio programme should be in sequence with starting programme number.

**(12) Factory Reset**

Factory reset returns all the parameters to the default settings.



- Press 'Enter key' to proceed factory reset. and confirmation message window will be shown.



- When select 'Yes', all television settings except UTT value should write to the default settings.

**Public Display Settings / LG Hotel Mode Setup (Value Range Table)**

Item	Enable	Disable	Initial
Hotel Mode Operation	Yes	No	No
Power On Status	-	-	*STD
Volume	Yes	No	No
Start Volume	Off, Minimum Volume ~ Maximum Volume		Off
Maximum Volume	Minimum Volume ~ 100		100
Minimum Volume	0 ~ Maximum Volume		0
Key Management	Yes	No	No
LG IR Operation	Normal / Use PWR Only / Block All		Normal
Local Key Operation	Normal / Use PWR Only / Block All		Normal
Limited Mode	Yes	No	No
Setup Menu	Yes	No	Yes
Input Source Change	Yes	No	Yes
Programme Change	Yes	No	Yes
Menu Display	Yes	No	Yes
OSD Display	Yes	No	Yes
System Provider Mode	Yes	No	No
Power Management	Off, 1 ~ 7		Off
DTV Channel Update	Auto	Manual	Auto
Power On Default	Yes	No	No
Input Source	Off, ATV, DTV, ...		Off
Programme	Minimum Program ~ Maximum Program		Minimum Program
A/V Setting	Yes	No	No
Aspect Ratio	Disable / Set by Program / 4:3 / 16:9		Disable

**LG Hotel Mode Setup (Value Range Table)**

Item	Enable	Disable	Initial
Aux Source Setting	Yes	No	No
Input Source	Aux Input(AV1 ~ MAX_INPUT)		AV1
Setting	Enable	Disable	Enable
Radio Name Display	Yes	No	No
Radio Video Blank	Yes	No	No
Start PR. No.	0 ~ 199 (Taiwan TV 2 ~ 69 / CATV 1 ~ 199)		1
No. Of. PR.	0 ~ 10 (Start PR. NO + No. of PR. <= Max Start PR. NO. + 1)		1
Factory Reset	Confirmation window (Yes / No)		

# TV Manager

## 1. USB

### Ez Download

Ez Download is a function that enables users to download the desired items all at once, such as EPK (software update file), TLL (see Send to USB descriptions for more information regarding file types), Logo Image, etc (TLX, MICOM for Pro:Centric).

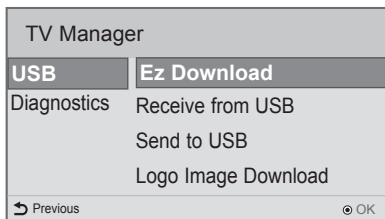
\* Splash images and EPK files should be copied into the folder named LG\_DTV on the USB.  
TLL files should be copied to the root folder of the USB.

- Image shown may differ from your TV.

- 1 Plug USB memory card into the USB port of the TV.
- 2 Use the  $\wedge \vee$  button to select the **TV Manager** option and then press the **OK** button.

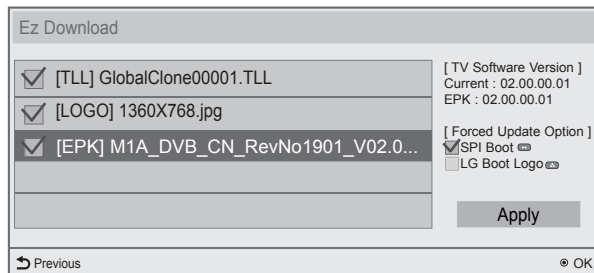


- 3 Use the  $\wedge \vee$  button to select the **USB** and **Ez Download** and press the **OK** button.



- 4 Select a list to download and press the **OK** button.

- 5 Select the EPK option (software update) and then use the green and yellow buttons to download either SPI Boot or LG Boot Logo.  
If you checked the LG Boot Logo checkbox, then the Splash image, if selected, will be unchecked. Also, if you select the LG Boot Logo and proceed with the download, the existing Splash image will be deleted.



- 6 When you are finished with your selections, use the (->) button to select Apply and then press OK.
- 7 Wait for the download to complete. When it is finished, your TV will be turned off.

**! NOTE**

- If the DZM file is still in the USB after the download is complete:
  - An Ez Download pop-up window will appear and list the file types, such as TLL, LOGO, or EPK, with the previously downloaded lists checked automatically.
- If the global TLL and model TLL files exist in the same USB root directory, then only the global TLL will be shown.  
If the global TLL has been deleted, then the model TLL will be shown.

## USB Cloning

An Installer can quickly set up and clone multiple TV sets at a property. These cloned TVs will all have the same Master TV Setup: Public Display Mode Installation Menu settings, User A/V settings and the Channel Map. This newer procedure significantly decreases the installation time that would be necessary if the standard RS-232C method were used instead.

### Introduction

#### (1) Overview USB Cloning Procedure

- Commercial TVs have the capability to support cloning internal TV data and programme information with an external clone device called “USB Cloning”, in order to copy TV data accurately and quickly. The clone internal functions use slightly different internal processes for the two types of commercial TVs. However, the UI of cloning feature remains the same in both. Regarding the demands over the current cloning feature for quicker cloning, better portability and etc, we would like to announce the cloning process via USB port, named as USB Cloning. USB cloning process is divided into 2 main processes. One is writing the previously saved TV data into the TV, and one another is reading of current TV data into USB memory card. To avoid any confusion due to the words, it is clearly specified as “Receive from USB” and “Send to USB” in the whole process.

#### (2) Data To Be Cloned

- The data cloned are the same data cloned by previous USB Cloning. Details are explained in the following:
  1. TV data includes:
    - A. Installer Menu settings
    - B. Main menu settings (Audio, Picture etc)
  2. Analog / Digital Channel information includes:
    - A. Channel numbers
    - B. Channel label
    - C. Channel attributes including channel type, skipping status and etc.

#### (3) Input Source

- The user needs a USB memory card with FAT formatted to make successive cloning via USB port. A USB memory card size more than 128 Mega Bytes and less than 4 Giga Bytes is recommended.



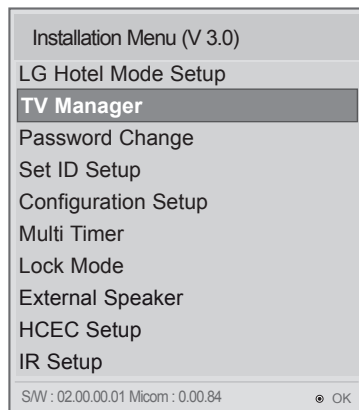
#### NOTE

- Currently, support the preceding USB file system for FAT file format only. Other file formats including NTFS is not currently supported. Microsoft Windows officially supports FAT for the USB memory card.

## Receive From USB

- Image shown may differ from your TV.

- 1 Plug USB memory card into the USB port of the TV.
- 2 Use the  $\wedge \vee$  button to select the **TV Manager** option and then press the **OK** button.



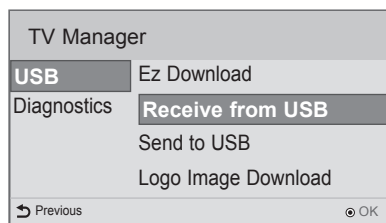
- 3 Use the  $\wedge \vee$  button to select the **USB and Receive from USB** and press the **OK** button.

\* **Below explains the naming rules for .TTL files.**

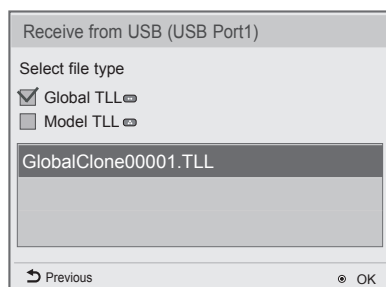
The supported model line will be in the name of the file but the screen size will be listed as "xx".

This allows TVs having the same chassis model number to use the same '\*.TTL' file without regard to the screen size.

ex) The name of '\*.TTL' file is 'xxLP360H-TA00000.TLL' for 32/42LP360C model.



- 4 Use the  $\wedge \vee$  button to select the desired \*.TTL files name and press the **OK** button.

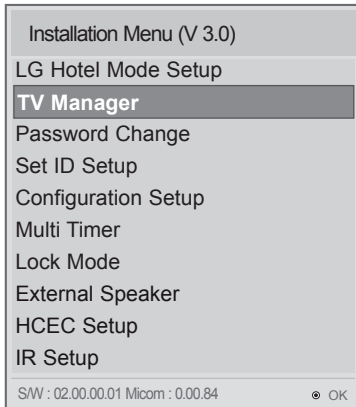


- 5 The TV is changed to Standby mode after a successful download.  
If the download failed, the TV will changed to the initial installation screen.

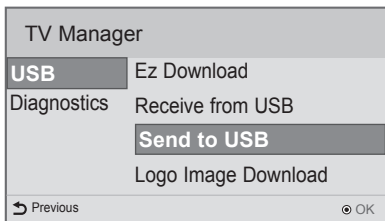
## Send To USB

- Image shown may differ from your TV.

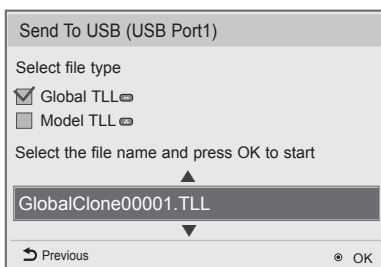
- 1 Plug USB memory card into the USB port of the TV.
- 2 Use the ^ v button to select the **TV Manager** option and then press the **OK** button.



- 3 Use the ^ v button to select the **USB and Send to USB** and press the **OK** button.



- 4 Use the ^ v button to select the desired file name and press the **OK** button.



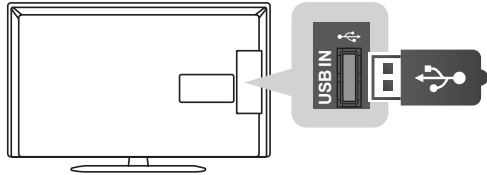
- 5 The TV is changed to the initial installation screen after a successful download.

## Logo Image Download

Make a 'LG\_DTV' folder on the USB flash drive and then copy the splash image file to that folder.

- Image shown may differ from your TV.

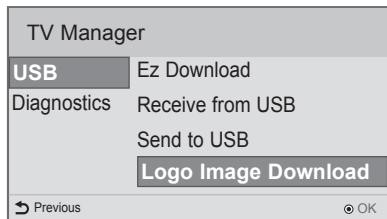
- 1 Connect the USB device to the USB IN jack on the TV.



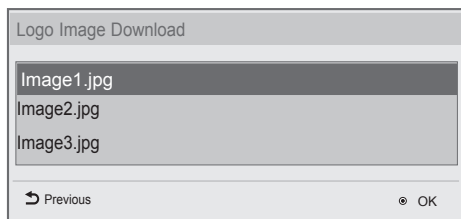
- 2 Use the ^ v button to select the **TV Manager** option and then press the **OK** button.



- 3 Use the ^ v button to select the **USB and Logo Image Download** and press the **OK** button.



- 4 Use the ^ v button to select the desired file name and press the **OK** button.



### ! NOTE

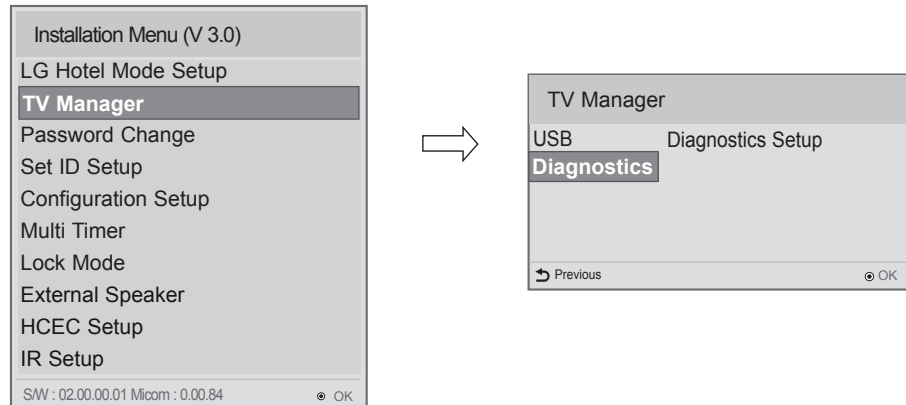
- Splash Image update function supports only JPEG format file of less than 1 MB filesize..
- Except for JPEG images with progressive encoding.
- We recommend you that splash image resolution match the TV's panel resolution.
- 'Max resolution of splash image : Full HD->1920x1080, HD->1360x768.
- 'Min resolution of splash image : Full HD->64x64, HD->64x64.
- TV keep splash image until you change a new splash image.

## 2. Diagnostics

### Diagnostics Setup

#### Introduction

This diagnostic function provides current status information of the TV in XML file format using a USB device. If the user sets a signal standard level, SignalTrace checks the signal strength status of the digital channel that the user tuned to. It checks and records good and bad channel signals, and then provides the signal information to a USB storage device in XML file format.



#### (1) Overview Diagnostics

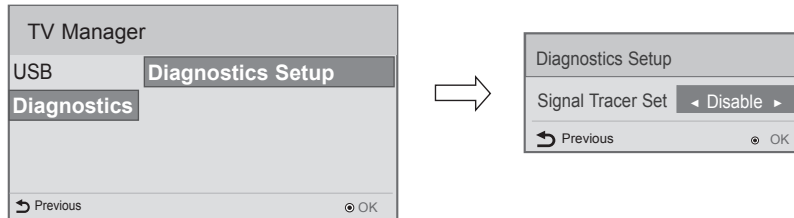
- 1 It provides status information of the TV and information about the current input in XML file format. (There are two kinds of information. There is information which is extracted regardless of the model, such as the model name or boot version, and there is information which is available depending on the model, such as the micom version, PTC version, etc.). The information created in the XML file can be checked in the TV's UI by pressing 88888888 in the TV's Option menu.
- 2 If a SignalTrace standard level is set, it saves the average value of the channel signal with less than 30 tuning counts to the digital broadcasting channel. If the count is more than 30, it saves good and bad signals by comparing the average signal value to the current signal strength and signalTrace standard level (SignalTracer Set) value.
  - ▷ Bad signal:  $BML \text{ (average value)} > \text{strength (current signal strength)}$  and  $(BML - \text{strength}) > \text{SignalTracer Set}$
  - ▷ Good signal:  $BML < \text{strength}$  and  $(\text{strength} - BML) > \text{SignalTracer Set}$It provides the good and bad signals, average signal value, channel information, and date information etc. in USB in XML file format. (Saved in changedSignal\_report tag) Up to 127 reports for good and bad signals are saved. If the reports number more than 127, they are written again beginning from 1.

#### (2) Saving some status information of the TV set through USB in XML file format

- Create an LG\_SVC folder on the USB on a PC.
- Create an empty file named tv\_signal.rms in the LG\_SVC folder.
- Insert the USB device into the TV.
- If the "Diagnostics is completed" message is displayed, remove the USB, open the tv\_signal.rms file on a PC and check the XML (model name, FirmwareVersion, bootVersion etc.) created within the file.
- The information created in the XML file can be checked in the TV's UI by pressing 88888888 in the TV's Option menu.

### (3) Saving signal status information of digital channels through SignalTrace in XML format

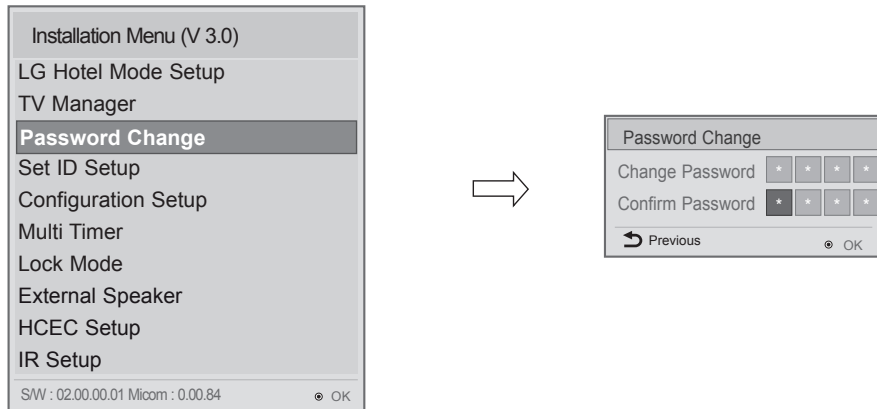
- Go to Installation menu -> TV Manager -> Diagnostics -> Diagnostics Setup
- Set the level value in Signal Tracer Set. (Disable, 10 to 90)



- Change the channel and tune to a digital channel, then maintain the status for more than 5 seconds.
- Create an empty file named tv\_signal.rms in the LG\_SVC folder.
- Insert the USB device into the TV.
- If the "Diagnostics is completed" message is displayed, remove the USB, open the tv\_signal.rms file on a PC and check XML created in the file.
- ※ If the user tunes to the same digital channel 30 times, the signal average is calculated. If the tuning count to the same digital channel is more than 30, the good/bad signals, current signal, average signal, date and channel information are saved in changedSignal\_report XML tag.
- ※ The information created in SignalTrace is not displayed in the TV's UI.
- ※ In USB cloning, the configured Signal Tracer value is not cloned.
- ※ When a factory reset is performed, Signal Tracer Set is disabled and traced information is deleted.

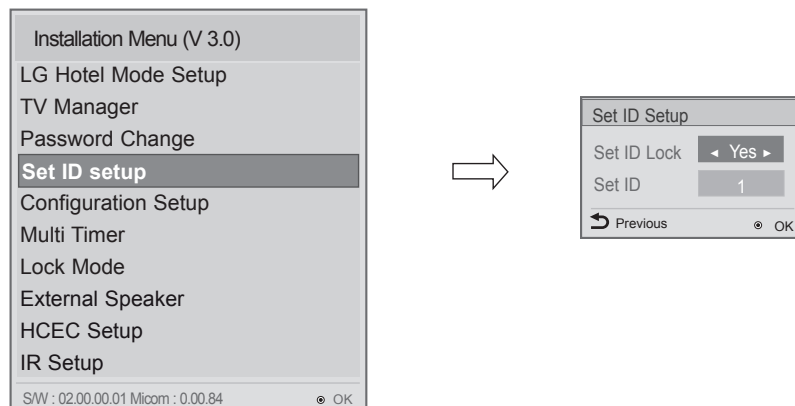
# Password Change

- Image shown may differ from your TV.
- To ensure more security, Password can be changed by installers' own design.



- 1 Use the  $\vee$   $\wedge$  button to select the Password Change and then press the **OK** button.
- 2 Enter four digit password.
- 3 Input the password again for confirmation.

# Set ID Setup



1 Use the  $\vee$   $\wedge$  button to select the Set ID Setup.

- **Set ID Lock**

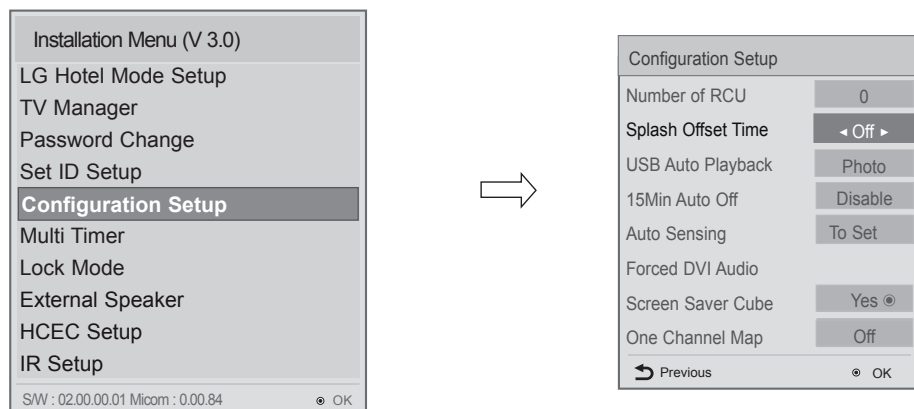
- Set the 'Set ID' item in 'Option' Menu whether to activate or not.
- Set to Yes(Work) or No(Do Not Work).

- **Set ID**

- Set the 'Set ID' of TV Set with 1~99.

# Configuration setup

- Image shown may differ from your TV.



## (1) Number of RCU

- It is a function to set whether to use Select RCU or not and set number of RCU.
- When Number of RCU is set to '0', this function do not use.
- Number of RCU value range 1~9
- \* RCU(Remote Control Unit) : It is special RCU that operates only setted number of RCU in TV.

## (2) Splash Offset Time

- Set the splash image display time
- When Splash Offset Time is set to 'OFF', TV logo(splash image) do not display.
- The time can be set to between 0 and 10 seconds.

## (3) USB Auto Playback

- When 'USB Auto Playback' is set to 'Movie', TV finds and plays the USB's movie files located at the root(top) directory Movies if USB is plugged in. (Some menu OSDs may prevent this function.)
- When 'USB Auto Playback' is set to 'Photo', TV finds and plays the USB's photo files located at the root(top) directory Photos if USB is plugged in. (Some menu OSDs may prevent this function.)
- If it reaches the last file, it starts the first file again.

**(4) 15Min Auto Off**

- When '15Min Auto Off' is set to 'Enable', TV will turn off if there is no signal in 15Min.

**(5) Auto Sensing**

- -If 'Auto Sensing' is set to 'To Set ☺', the input is automatically switched when the input signal that you set to 'ON' is received.
- If 'Auto Sensing' is set to 'Disable', the input is not switched when the input signal is received.
- If SIMPLINK is set to On, HDMI is automatically set to Disable and can not work.
- If the signal is removed while Auto Sensing (automatic input switch) is enabled, the input returns to the previous setting.
- If the several inputs are connected by enabling Auto Sensing and the automatic input switch is performed several times, the input returns to the previous setting only for the last input and does not repeat the operation for the rest.
- For the AV input connected using the euro scart cable, Auto Sensing does not work for the TV input because the Auto AV function is enabled.(For other inputs, Auto Sensing works normally.)

**(6) Forced DVI Audio**

- When Forced DVI Audio is selected, the audio signal from the HDMI port will be transmitted through the RGB, AV, or Audio In #1 component ports.
- The video signal will be transmitted through HDMI to be displayed on the screen in standard quality.

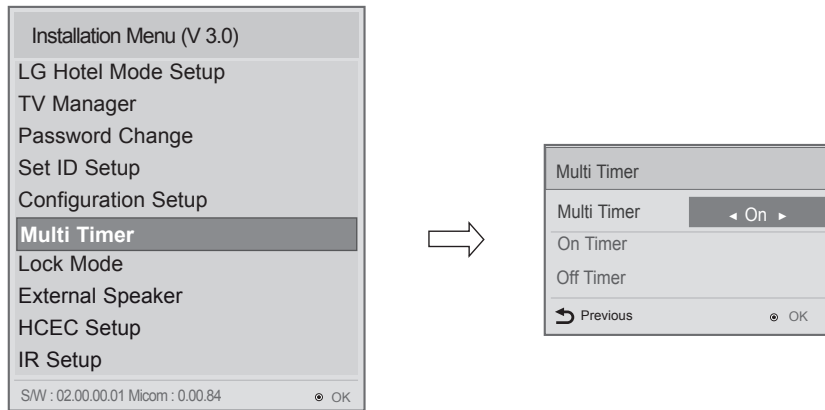
**(7) Screen Saver Cube**

- When 'Screen Saver Cube' is set to 'No', TV will do not display LG Screen Cube.

**(8) One Channel Map**

- If 'One Channel Map' is 'YES', the TV will operate as below.
  - A. When the TV is auto-scanning, it searches both air and cable channels.
  - B. In 'Programme Edit' window, all channels are shown in a single list regardless of input source.  
(DTV/RADIO/TV) (For satellite supported models, a Satellite input source is also included.)
  - C. Select the 'Auto Sort' button in the 'Programme Edit' window to sort channels sequentially.

# Multi Timer



1 Use the  $\nabla$   $\blacktriangle$  button to select the Multi Timer.

## (1) Multi Timer

- It is a mode to set whether to use or not.
- When 'Multi Timer' is set to 'On', You can adjust 'On Timer', 'Off Timer' menu.

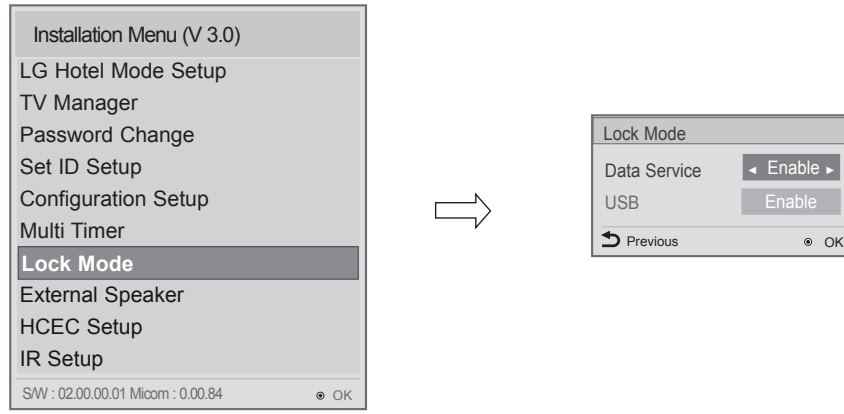
## (2) On Timer

- It sets the time for turning the TV on. A maximum of 5 timers can be set.

## (3) Off Timer

- It sets the time for turning the TV off. A maximum of 5 timers can be set.

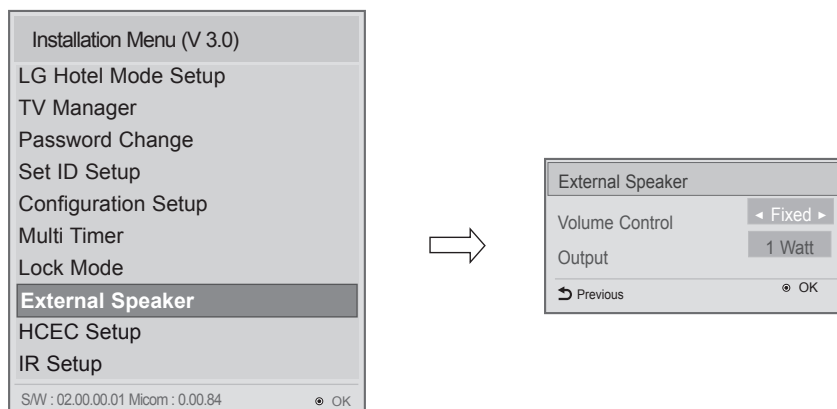
# Lock Mode



1 Use the  $\downarrow$   $\uparrow$  button to select the Lock Mode.

- If 'Lock Mode' items are disabled, the following features will be unavailable.
  - Data Service(Teletext, EPG, Sub-Title, Caption (Include MPEG4), MHEG)
  - USB Enable(Exclude S/W update)
  - Factory Reset

# External Speaker



1 Use the  $\nabla$   $\blacktriangle$  button to select the External Speaker.

## (1) Volume Control

- Selects the volume control method of an external speaker. You can choose either Variable or Fixed. Variable is linked to the main volume OSD and change the volume 0-1 Watts. Fixed produces a fixed output. The default is Off.

## (2) Output

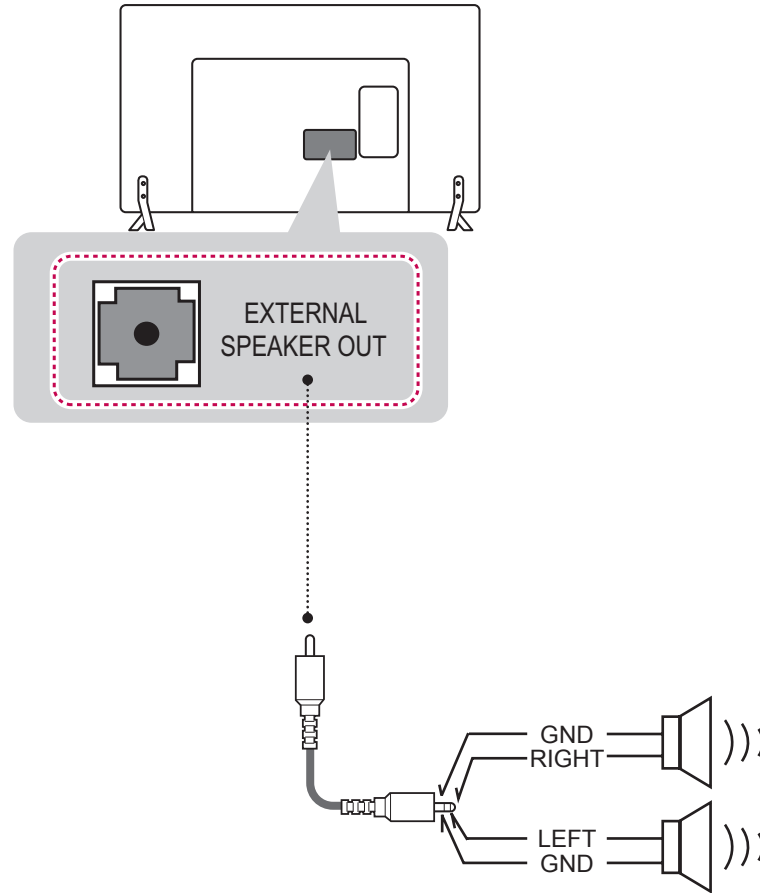
- This item is enabled when Volume Control is set to Fixed. You can choose one of 7 steps. (0.01/0.03/0.05/0.1/0.2/0.5/1 Watts)

## ! NOTE

- Optical supported models :
  - If You use External Speaker as Variable Mode, External Speaker will be off when you select 'External Speaker(Optical)' in Sound-Out menu.
- HeadPhone supported models :
  - External Speaker and HeadPhone can not be used simultaneously.
  - Disconnect Headphone to use External Speaker. External Speaker only works when HeadPhone is disconnected.

## Speaker output SETUP

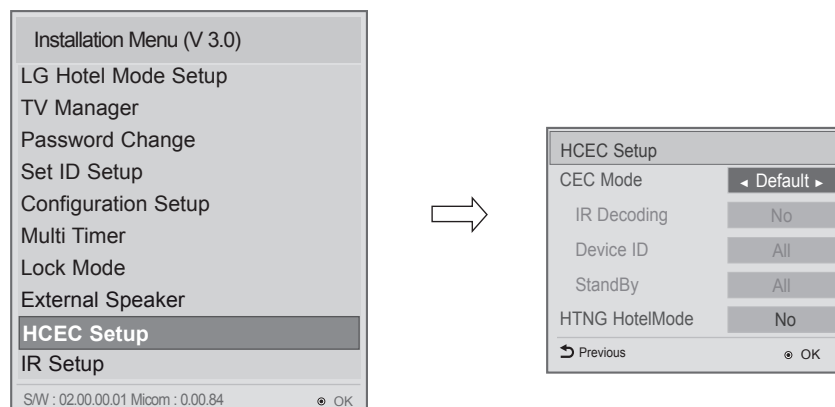
- 1 Connect the external speaker to the external speaker out jack on the TV.



### ! NOTE

- External speaker must be used three plug(SE : Single Ended, Stereo) as shown in the drawings and external speaker fully inserted with external Speaker Jack.
- Otherwise it will cause defect.

# HCEC Setup



1 Use the  $\nabla$   $\blacktriangle$  button to select the HCEC Setup.

## (1) HCEC Setup

- When 'HCEC Setup' is set to 'HCEC Mode', You can adjust 'IR Decoding', 'Device ID', 'Stand By' menu and SIMPLINK feature automatically changed to the ON state, and the user can not change this status.

### (a) IR Decoding

- When 'IR Decoding' is set to 'Yes', the TV decodes and changes it into a CEC Message and sends it to Command via the HDMI CEC Line. The default value is No.

### (b) Device ID

- Sets the ID of a device(Logical Address) connected to the CEC Line. You can choose between 'All' and 'E'.
- The default value is 'All'.

(c) Stand By

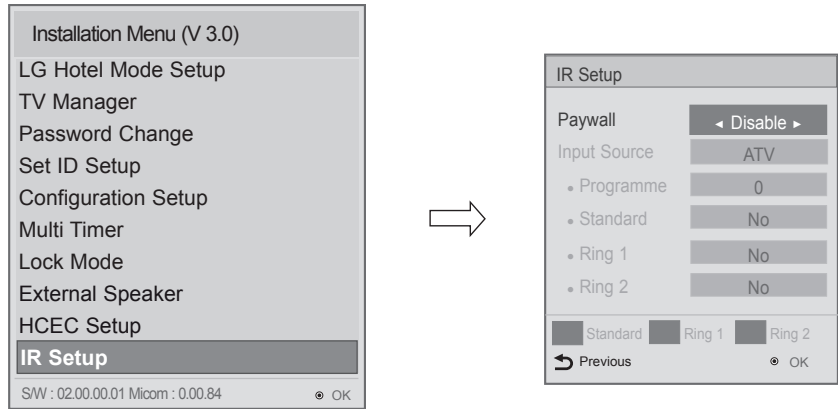
- Sets the sending and receiving scenario of the operation about [CEC Op standBy(0x0c) Command(Device Power)].
- The detailed scenario is described on the table below.

	Send	Receive
Send Only	O	X
Receive Only	X	O
All	O	O
OFF	X	X

(2) HTNG HotelMode

- If the following options are selected because of the HTNG command:  
\*Power On Default, Start Volume, Maximum Volume, Minimum Volume, or Start Volume,  
then the value for the HTNG HotelMode changes automatically to Yes and, even if the  
HotelMode is set to No, the above options are still affected.
- If you change it to No, then the values set by the HTNG will be canceled.

# IR Setup



1 Use the  $\vee$   $\wedge$  button to select the IR Setup.

## (1) Paywall

- Decide whether to work Paywall function or not by setting 'Paywall' as 'Enable(Work)' or 'Disable(Do not work)'.
- When 'Paywall' is set to 'Enable', 'Programme', 'Standard', 'Ring1' and 'Ring 2' menus are Enabled.
- When 'Paywall' is set to 'Disable', 'Programme', 'Standard', 'Ring 1' and 'Ring 2' menus are Disabled.

## (2) Programme

- This menu is enabled when 'Paywall' is set to 'Enable'.
- Select programme that you want to set to PPV Programme or Standard Programme.

## (3) Standard

- Select Standard programme by setting 'Standard' as 'Yes' or 'No'.
- When 'Standard' is set to 'Yes', the programme works as a standard programme.
- It is possible to set 'Standard' using 'Red' key of remote controller.

**(4) Ring 1**

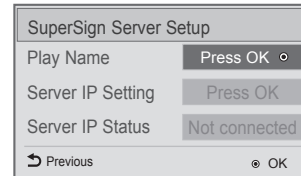
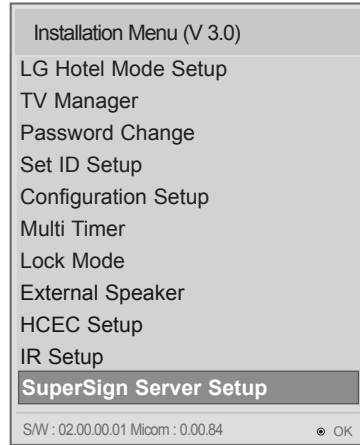
- Select Ring 1 programme by setting 'Ring 1' as 'Yes' or 'No'.
- When 'Ring 1' is set to Yes, the Programme works as a PPV programme which is shown using Ring1 card.
- It is possible to set 'Ring 1' using 'Green' key of remote controller.

**(5) Ring 1**

- Select Ring 2 programme by setting 'Ring 2' as 'Yes' or 'No'.
- When 'Ring 2' is set to 'Yes', the Programme works as a PPV programme which is shown using Ring2 card.
- It is possible to set 'Ring 2' using 'Yellow' key of remote controller.

# SuperSign Server Setup

(\* Only for LY540S series)



**1** Use the  $\nabla$   $\blacktriangle$  button to select the SuperSign Server Setup.

**(1) Play Name**

- You can set the name of a player you want to control in SuperSign Manager. (Up to 20 characters.)

**(2) Server IP Setting**

- You can set the IP address of the computer (server) on which SuperSign Manager is installed.

**(3) Server IP Status**

- It displays the connection status with the server.
  - Not connected: Your TV is not connected to the SuperSign server.
  - Waiting for Approval: Your TV is connected to the SuperSign server but not yet approved.
  - Rejected: Your TV is connected to the SuperSign server but has been rejected.
  - Connected: Your TV is connected to the SuperSign server and has been approved.

