



INSTALLATION MANUAL

LED TV

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

LY75**
LW75**
LX75**

Printed in Korea

www.lg.com



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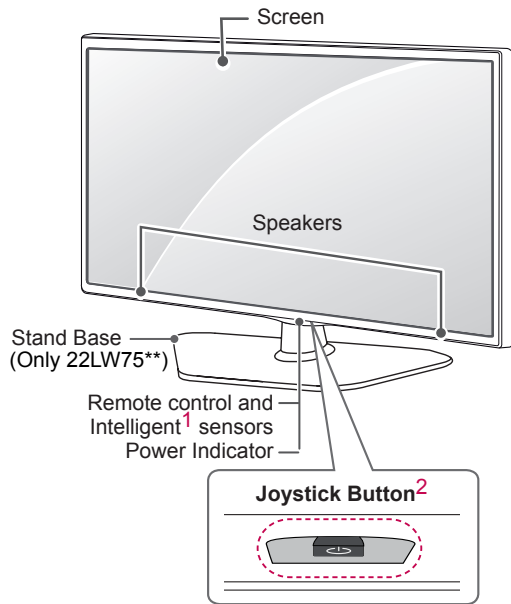
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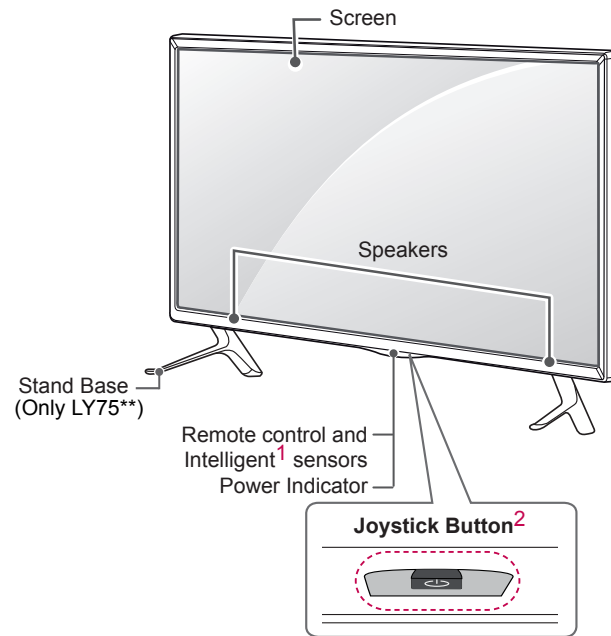
LOCATION AND FUNCTION OF CONTROLS

Parts and buttons

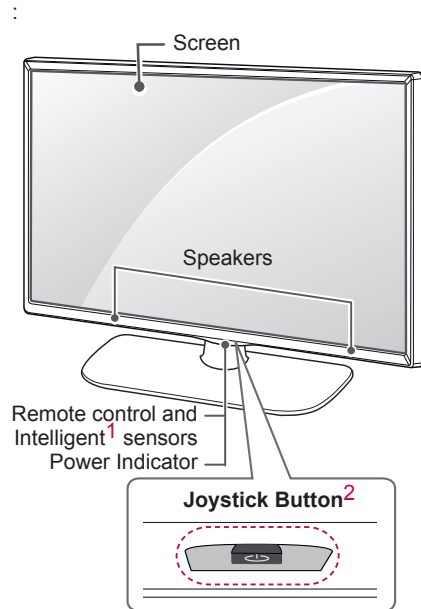
A type : 22/28LW75**, LX75**



B type : 32/29/42/47LW75**, LY750*



C type LY751*



- 1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
- 2 Joystick Button - This button is located below the TV screen.

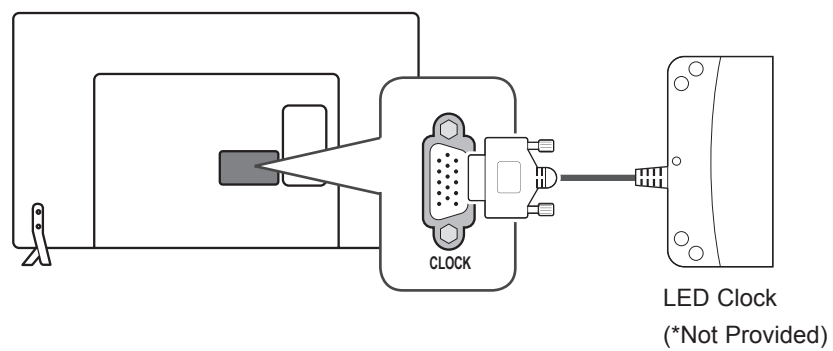
! NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

LED Clock connection

(Except for 22/28LW75**, LX75**)

This TV can be connected to a LED Clock via the **CLOCK** port.



EZMANAGER

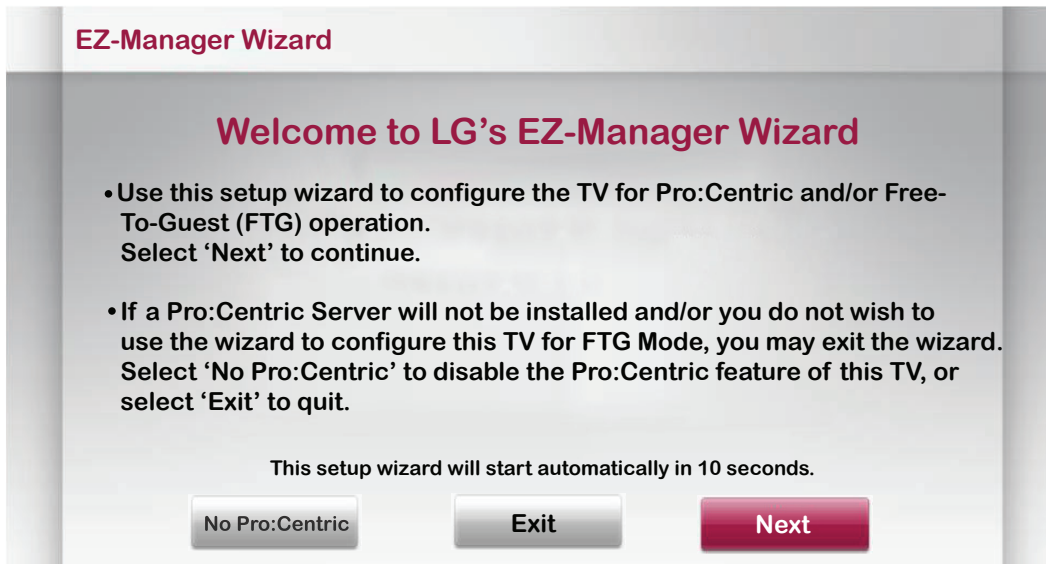
Introduction

The Pro:Centric Platform enables you to simply install, manage and use guest-centric solutions. The default Domain "procentric.local" and IP Server Address are needed to be registered in DNS. TV will contact the IP Server using the default Domain "procentric.local" via IP on server search page. If TV doesn't contact the Server, TV will search the pre-defined channel earlier than all channels (DVB-C only)

The frequencies of pre-defined channels are '794000, 714000, 634000, 554000, 474000, 394000, 314000, 234000, 154000, 90000 khz'.

EZ-Manager Wizard

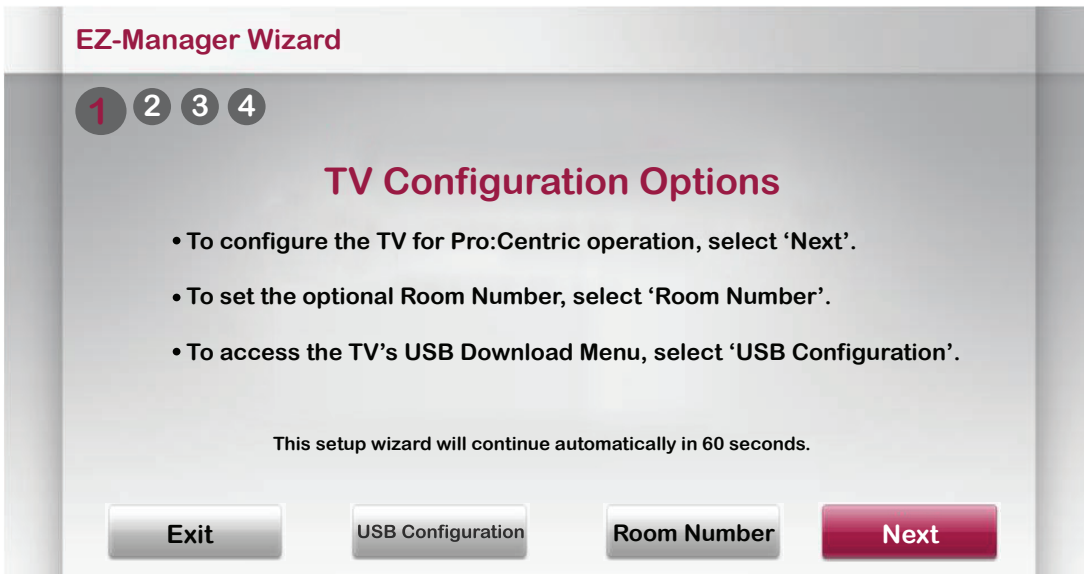
- Image shown may differ from your TV.



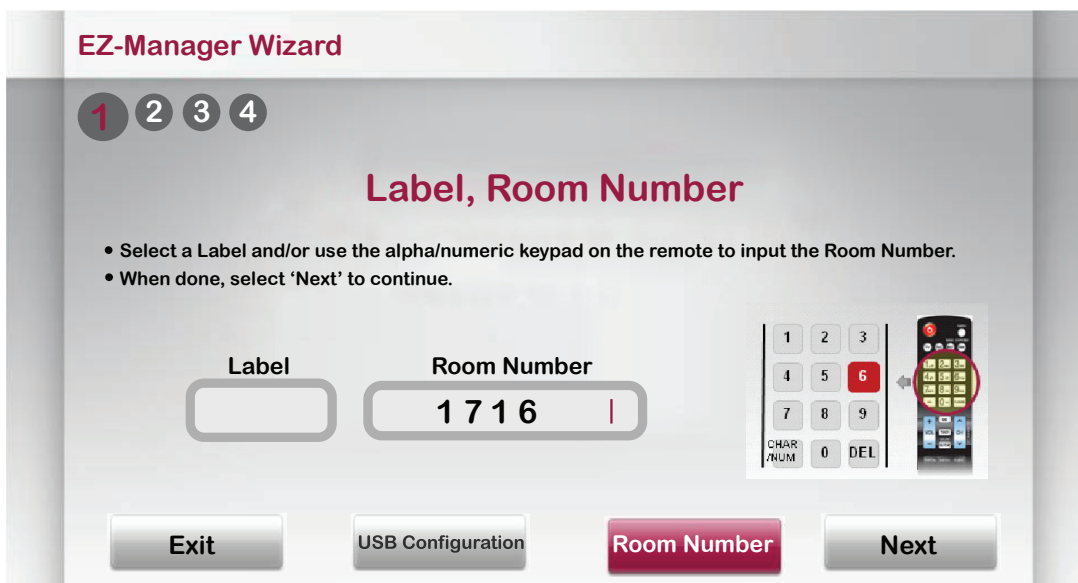
- If you are using Pro:Centric, this setup wizard will help you easily set up the TV. Select 'Next' to continue.
- Otherwise, you may select either 'No Pro:Centric', if you will not be installing a Pro:Centric Server or 'Exit' to quit.

EZ-Manager Wizard - Automatically for Setup

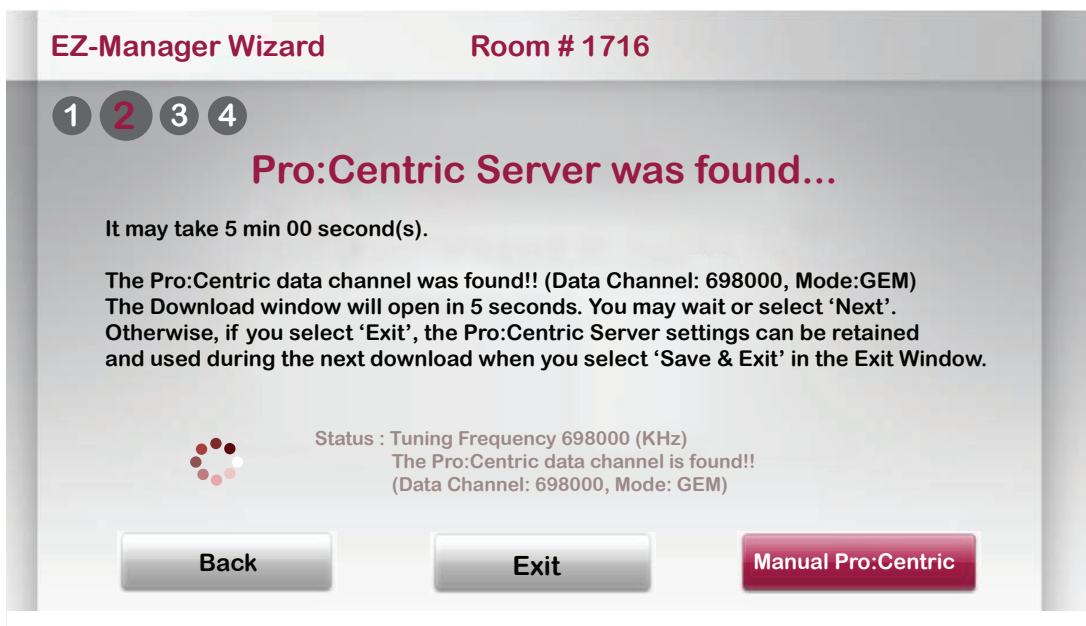
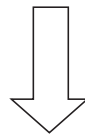
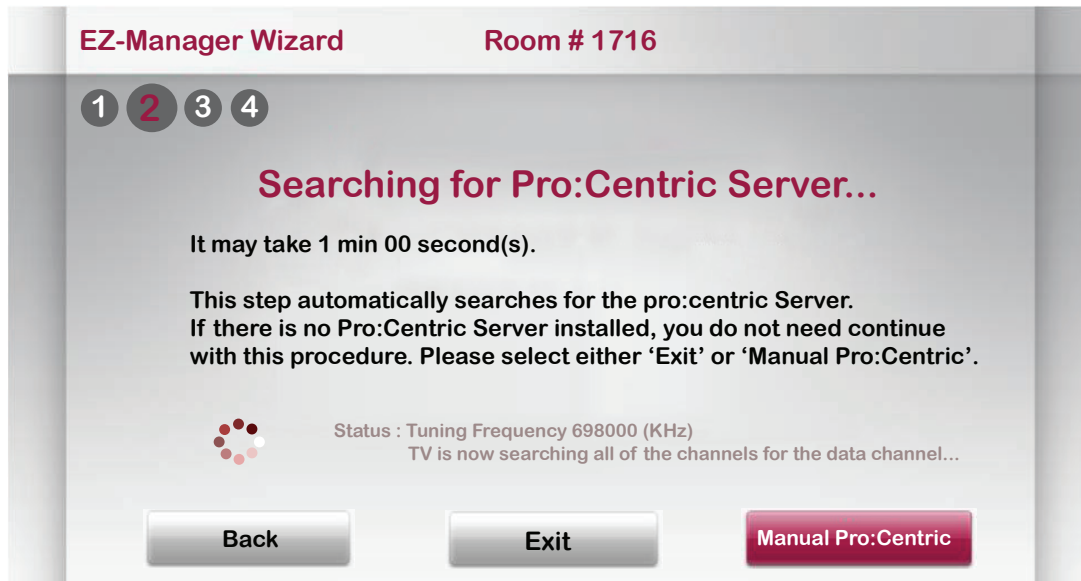
1. From the TV Configuration Options screen, you can choose how to proceed with the configuration of this TV. Whether you will configure the TV for Pro:Centric operation via the wizard or use a USB memory device to configure the TV, you may first wish to set the Room Number on the TV.



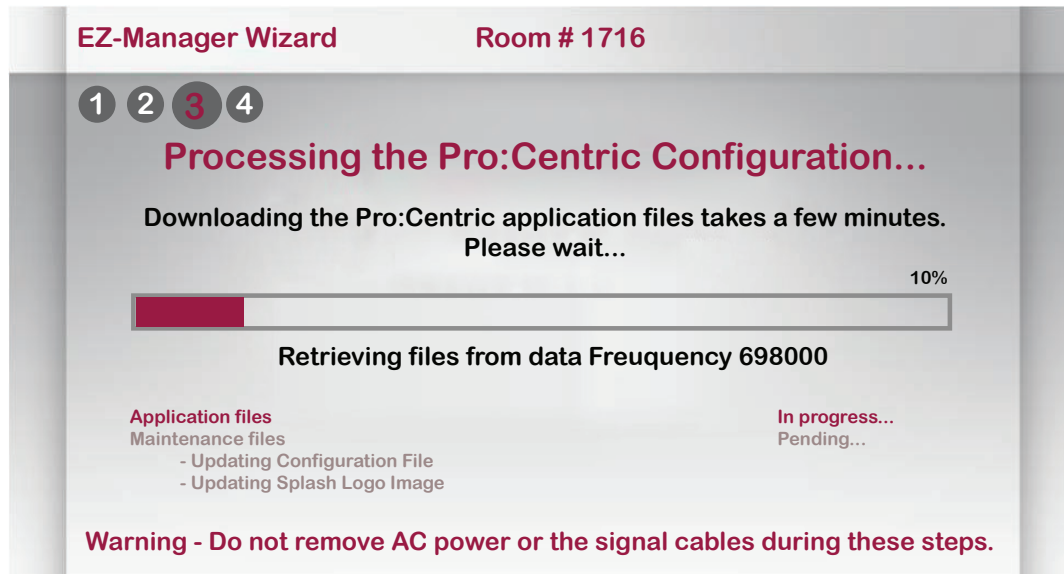
- If you intend to set Room Number as part of the TV configuration, use the Room Number option to assign the Room # for this TV before you continue with additional configuration.
- In the Label field, use the Up/Down arrow keys to specify a North, South, East, or West designation for this TV.
- In the Room Number field, you can use the number keys on the Installer Remote to direct enter a room number.
- To continue, move and select 'Next'.



- This step automatically searches for the Pro:Centric Server.
If was found the Pro:Centric data channel, select the "Next".



3. Downloading the Pro:Centric application files takes few minutes.



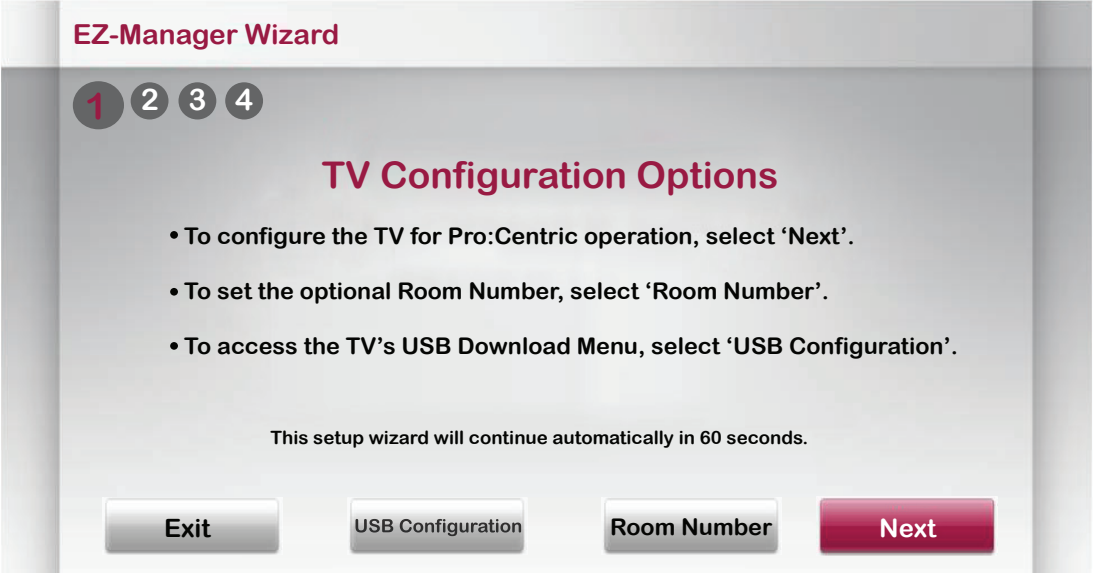
4. After the installation is completed, the following screen will be displayed..



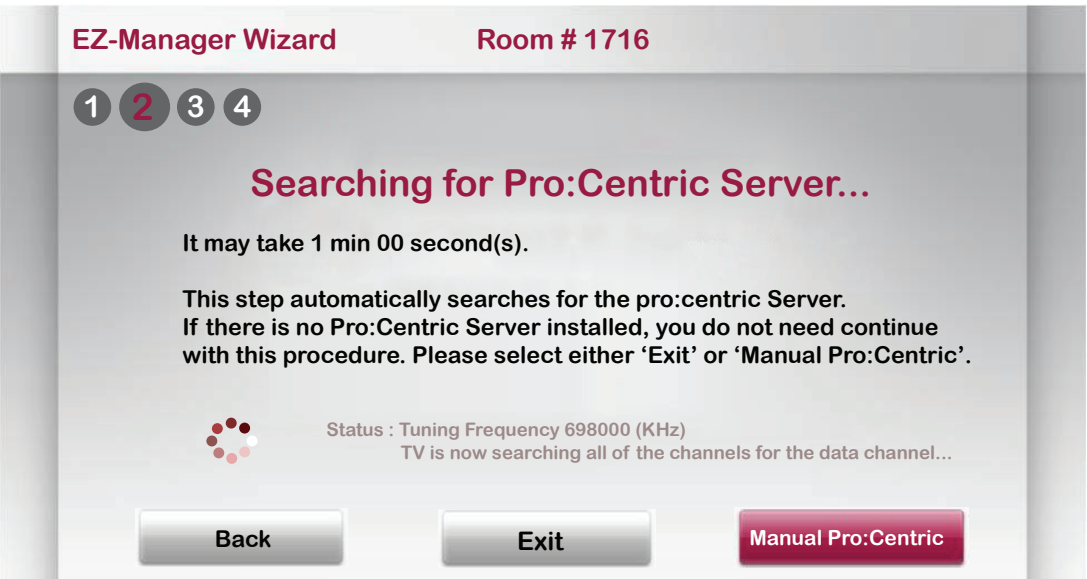
EZMANAGER

EZ-Manager Wizard - Manually for Setup

1. Select a Label and/or enter the Room Number using the numeric keypad on the remotes. To continue, move and select 'Next'.



2. Please select the 'Pro:Centric Manually'.



3. Configure the appropriate Pro:Centric settings in the TV.

EZ-Manager Wizard Room # 1716

1 2 3 4

Pro:Centric Mode

Country

Media Type

Frequency (KHz)

Symbolrate (kS/s)

Modulation

Signal Strength

Signal Quality

data channel found

EZ-Manager Wizard Room # 1716

1 2 3 4

Pro:Centric Mode

Country

Media Type

IP Address

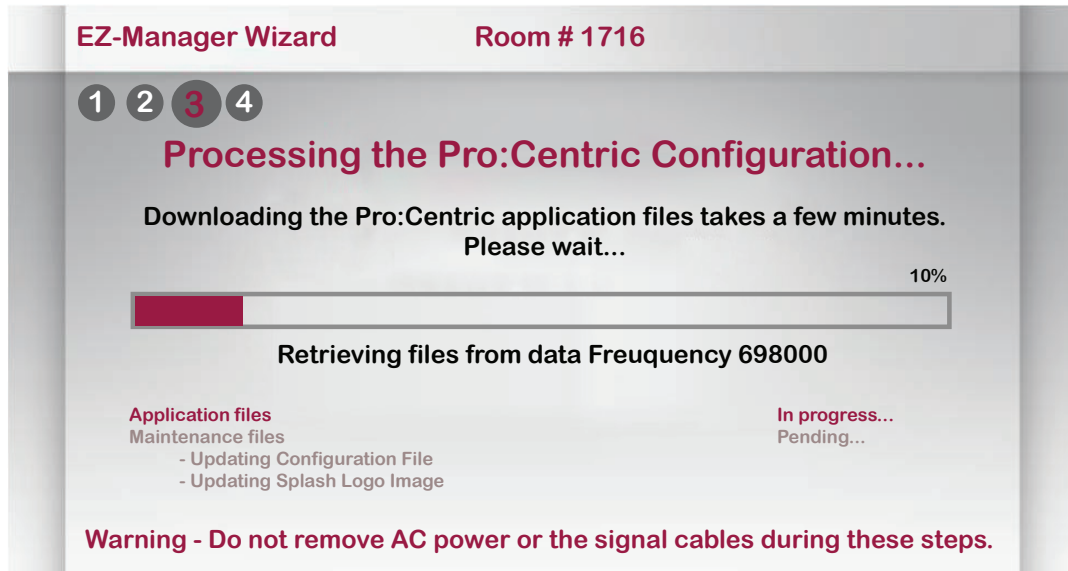
Port

IP Server found

- If you select Country, you can change a country.

Albania	Austria	Belarus
Belgium	Bosnia	Bulgaria
Croatia	Czech	Estonia
France	Germany	Greece
Hungary	Ireland	Italy
Kazakhstan	Latvia	Lithuania
Luxembourg	Morocco	Netherlands
Poland	Portugal	Romania
Russia	Serbia	Slovakia
Slovenia	Spain	Switzerland
Turkey	UK	Ukraine

4. Downloading the Pro:Centric application files takes few minutes.



5. After the installation is completed, the following screen will be displayed.

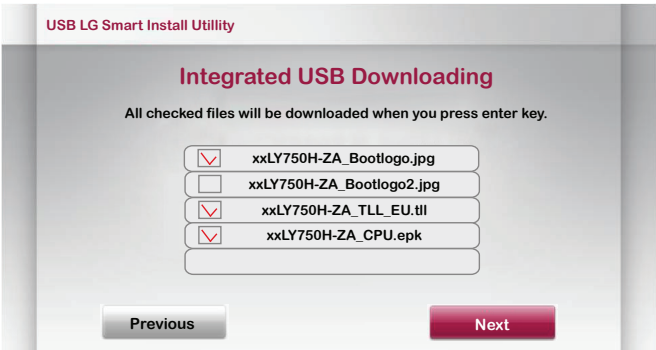


EZ-Manager Wizard - USB LG Smart Install Utility

1. Select the 'USB Configuration → USB Download Menu → Accessing USB Storage Device'.

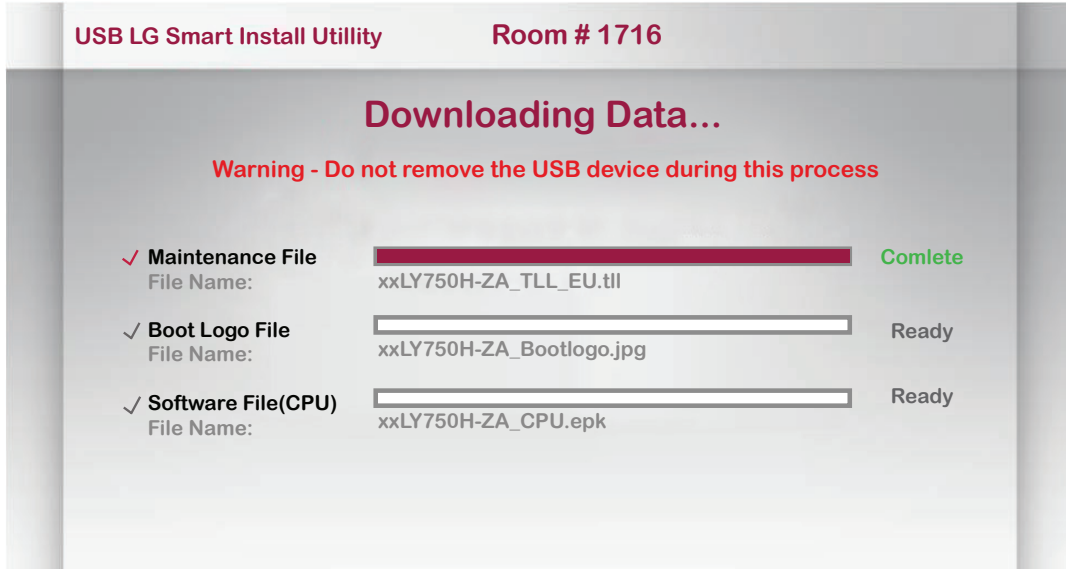


OR

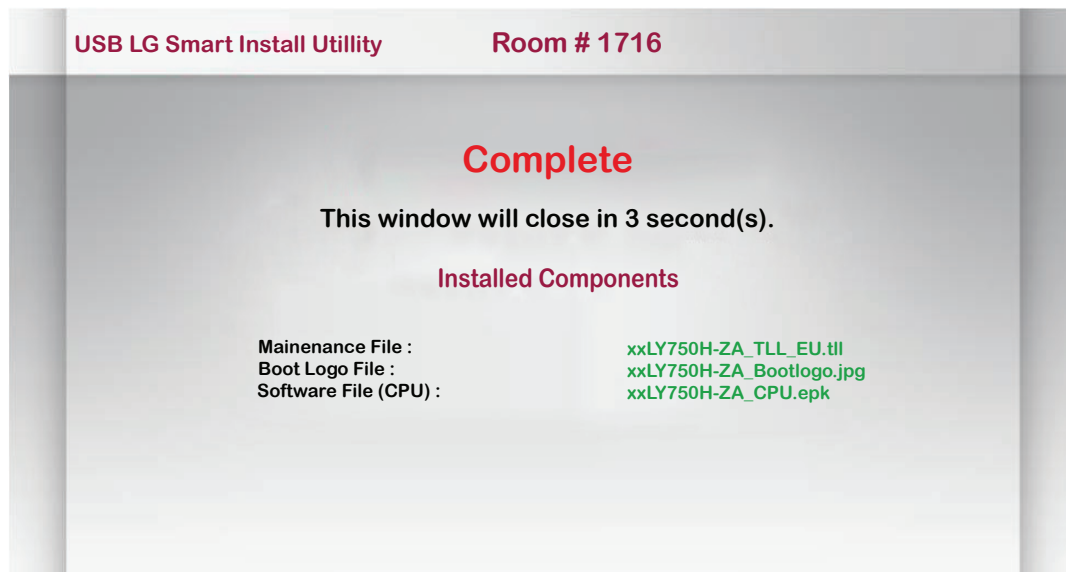


* If you have USB Memory for "lgsmartinstall" or "LGSMARTINSTALL" folder, this step automatically searches for the USB file list page.

2. Downloading the Pro:Centric application files takes few minutes.



3. After the installation is completed, the following screen will be displayed..



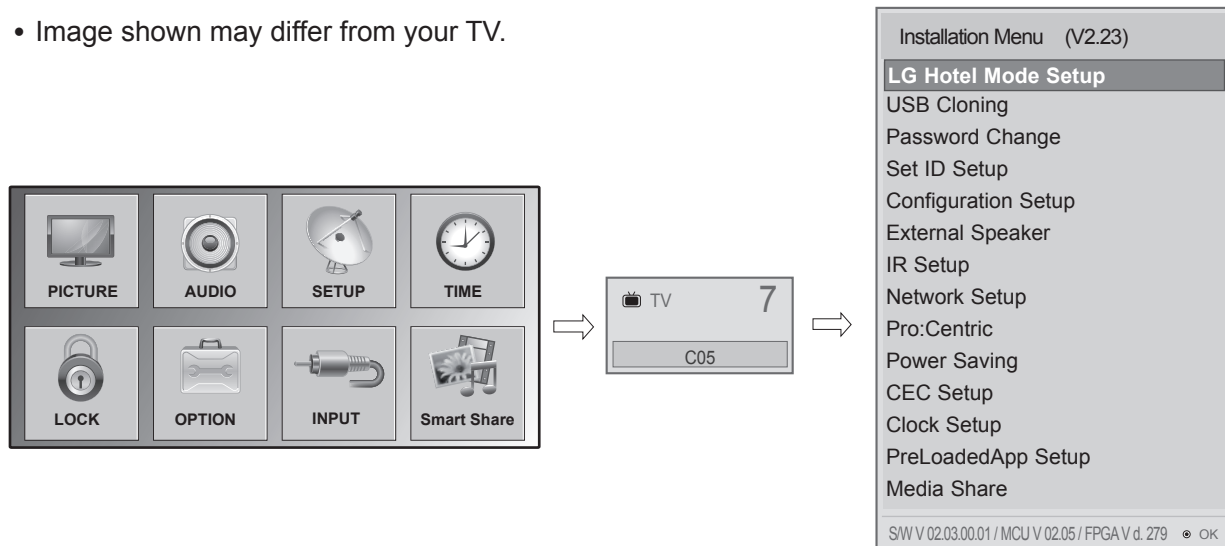
INSTALLATION MENU

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.

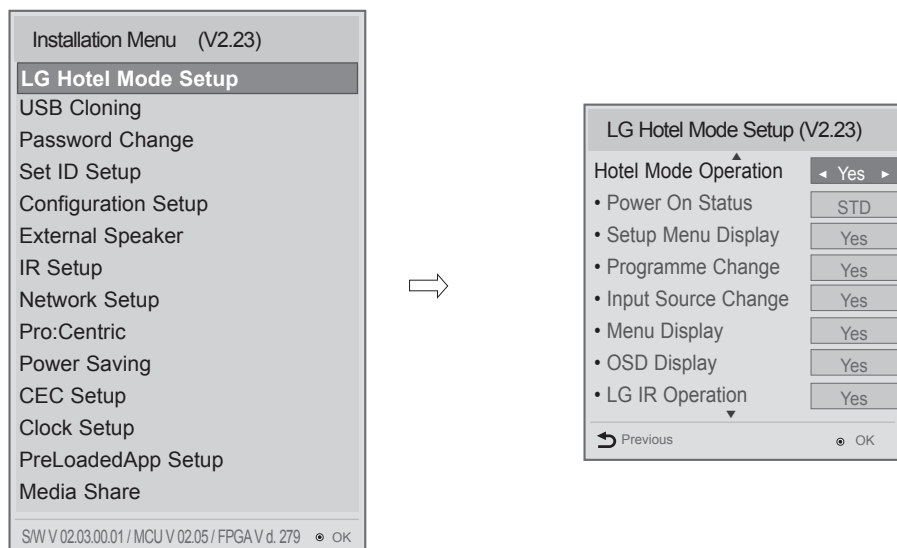
- Image shown may differ from your TV.



- 1 Press the **Setting** 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 ∇ \blacktriangle button to select the desired menu.

LG Hotel Mode Setup

- Image shown may differ from your TV.



- 1 Use the \downarrow \uparrow button to select the LG Hotel Mode Setup.
- 2 Use the **OK** button and then \downarrow \uparrow 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

- 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 and Demo Mode' are disabled.
- When 'Hotel Mode Operation' is set to Yes(Work), all skipped programs are not tuned by number keys.
- When 'Hotel Mode Operation' is set to Yes(Work), Detailed Information about the programme is not available in the EPG.

(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) Setup Menu Display

- Decide to enter 'Setup Menu Display' or not in the 'Main Menu' by setting 'Setup Menu Display' as Yes(Enter Possible) or No(Enter Impossible) on the "LG Hotel Mode Setup" OSD.

(4) Programme Change

- Decide to change channel or not by setting 'Programme Change' as Yes(Change Possible) or No(Change Impossible) when present source is TV.
- When 'Programme Change' is set to No(Change Impossible), Programme Key, Numeral Key, List Key, TV / RAD Key, Q.View Key doesn't work and entering 'Channel Menu' in the Main Menu OSD is impossible.
- When 'Programme Change' is set to Yes(Change Possible), Programme Key, Numeral Key, List Key, TV / RAD Key, Q.View Key does work and entering 'Channel Menu' in the Main Menu OSD is possible.
- When 'Programme Change' is set to No(Change Impossible), 'Programme' item in 'On Time' menu will be fixed.
- When 'Programme Change' is set to No(Change Impossible), entering 'Setup Menu' in the 'Main Menu' OSD is impossible regardless of 'Setup Menu Display' item.

(5) 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), TV/RADIO key and INPUT key doesn't work.
- When 'Input Source Change' is set to No(Change impossible), user's input (pressing Programme key, numeral key, List key, Q.View key in all Input source except TV source) doesn't work and when 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 mode.
For the function that turns to TV mode doesn't work.
- When 'Input Source Change' is set to Yes(Change possible), then changing input source is available.
- When 'Input Source Change' is set to No(Change Impossible), TV set always turns on fixed input source and volume information regardless of already set Programme information.
- When 'Input Source Change' is set to No(Change Impossible), entering 'Setup Menu' except TV mode doesn't possible regardless of 'Programme Change' or 'Setup Menu Display' item.
- When this is set to No, it will only be turned on with the volume information in the input source irrelevant from the PR and information set in On Time.

(6) Menu Display

- Function to decide whether work with menu of local key or not.
- Set YES(Work) or NO(Do Not Work).
- Although select NO(Do Not Work), the action that press a Home button for 5 seconds to enter Installation Menu is available.
- When select Yes(Work), Menu works.

(7) OSD Display

- Decide to display OSD or not by setting 'OSD Display' as Yes(Mark) or No(No Mark).
- When 'OSD Display' is set to No(No Mark), all OSD is not displayed except installaion menu.

(8) LG IR Operation

- Decide whether work the LG remote control or not.
- Set to Yes(Work) or No(Do Not Work).
- When 'LG IR Operation' is set to NO(Not Work), all keys don't work.
- Although set to No, it can work in Service mode.
- Although set to No, Home key action to enter the 'Installation Menu' and key action to enter Password are available.
- When 'LG IR Operation' is set to Yes(Work), all keys are available.

(9) Local Key Operation

- Decide to operate 'Local Key' or not by setting "Local Key Operation" as Yes(Work) or No(Do Not Work).
- When 'Local Key Operation' is set to No(Do Not Work), all Local Key doesn't work except volume up/down key and power key.
- When 'Local Key Operation' is set to No(Do Not Work), Local Key working in service mode is still available.
- When 'Local Key Operation' is set to Yes(Work), all Local Key working is available.
- When set both 'Local Key' and 'Remocon Operation' as No(Do Not Work), Power key of Remocon work as exceptional case.
- Exception : In case of the commercial model, although both IR and Local key operation are set to 'No' (no operation), you can operate the volume +/- key and the power key.

(10) Max Volume

- Decide 'Max Volume' between changing range 0~100.
- When 'Max Volume' is set, user can change up to set volume value.
- When 'Max Volume' is set, volume just goes up to the 'Max Volume' value in 'On Time Menu'.

(11) DTV Channel Update (This feature is not available for all models.)

It is a mode to set whether to update dtv channel automatically or not.
When DTV Channel Update is set to 'Auto', the function to update TV's programme map according to dtv programme's stream information.
DTV Channel Update is set to 'Manual', the function to keep TV's programme map even though dtv programme's information is changed.

(12) Power On Default

- Set the channel to display and Volume Level, etc. when turn on power in AC Power On or Stand-by status.
- Set to Yes(Work) or No(Do Not Work).
- When 'Power On Default' is set to No, it is not applied to the subordinate Programme, Volume, A/V Setting menu.
- When Power On Default is set to Yes, it can set by entering the subordinate menu.

(12-1) 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.
- All sources supported by the said model can be set as Input source. (The Input source value should be rotated.)
- If both the Input source and the ON TIME are set, the Input source takes the priority.
- If the DTV/Radio Channel does not exist at the map, the DTV/Radio is skipped while navigating.
- When the Input source is changed to the DTV/Radio, the Programme No. is set to the first programme of the Channel map of the DTV/Radio.
- When the Input source is changed to the ATV, the Programme No. is set to 0. (If the channel map structure does not support this, it follows the structure of the said model.)

(12-2) Programme

- If the Input source is DTV or ATV, or Radio the set programme is played when the power is turned on.
- Only when the Input source is DTV or ATV, it can be entered into the Programme item.
- When the Input source is turned off, the Last input at the time of the power-off is turned on, and when the Last input is the RF, the Last programme is played.
- If the Input source is the DTV, ATV, RADIO, the programme number existing at the programme table can be selected.
- The programme should be rotated.
- If both the programme and the ON TIME are set, the programme takes the priority.

(12-3) Volume

- If both 'Volume' data and 'On Time' is set, but just the value is different, then 'Volume' has priority.
- This sets whether to apply the Volume Level or not when the power is turned on.
When both the Volume and ON TIME Volume are set and have different values, the Volume Level value is set as the ON TIME Volume value, and cannot move to the ON TIME Volume item.
- The next value for the max volume is OFF. And next it will be changed to 0.

(12-4) A/V Setting

- Set to Yes(Work) or No(Do Not Work).
 - 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, Colour, Sharpness, Tint)
 - Sound section - SSM mode, Sound Data (Balance, Equalizer Data) and AVL and Language, Teletext language, ARC Data.
- Except these, other Parameters are applied differently according to the TVSet.

(13) Radio Video Blank

- Set to Yes(Work) or No(Do Not Work).
- Programme that is set to 'Radio Programme' and only has Sound should decide whether to set 'Video Blank' or not.
- When 'Radio Video Blank' is set to Yes(Work), 'Video Blank' works only in case of Radio Programme.
- Although set to Yes(Work), if there are Video signal, 'Video Blank' wouldn't work. In consideration of case that display background screen and broadcast only with Radio, 'Video Blank' works only when there is no Video signal.
- When set to No(Do Not Work), 'Video Blank' do not work although it is the Radio Programme.
- This operates only in the Analog TV Mode.

(13-1) Start PR. No.

- Item to set starting programme of Radio Programme.
- Available programmes to set are 0~199.

(13-2) No. of PR.

- Specify the number of programme to set to Radio Programme.
- The max value for the No. of PR is 10.
- Can not set more than maximum available programme number. In other words if Start PR. are set to 195, number of programme can not set more than 5.
- Radio Programme should be in sequence with starting programme.

Initial Configuration and Configuration Detail

Item	Active	De-active	Initial
Hotel Mode Operation	Yes	No	No
Power On Status	-	-	STD
Setup Menu	Yes	No	Yes
Programme Change	Yes	No	Yes
Input Source Change	Yes	No	Yes
Menu Display	Yes	No	Yes
OSD Display	Yes	No	Yes
LG IR Operation	Yes	No	Yes
Local Key Operation	Yes	No	Yes
Max Volume	0~100		100
DTV Channel Update	Auto	Manual	Auto
Power On Default	Yes	No	No
Input Source	ATV~MAX INPUT	Off	Off
Programme	(1-Max PR)	0	0
Volume	0~100	Off	Off
A/V Setting	Yes	No	No
Radio Video Blank	Yes	No	No
Start PR. No.	0~199		1
No. of PR.	0~10		1

USB Cloning Procedure

(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 “TVLink-Loader”, 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 TVLink-Loader. 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) Requirements for USB

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

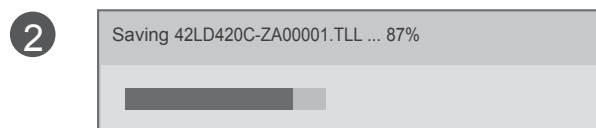
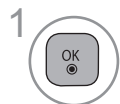
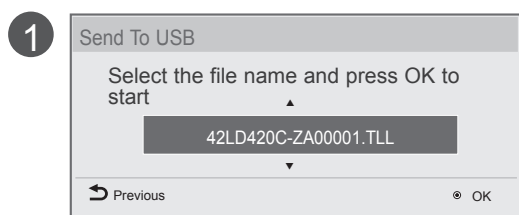
Currently, support the preceding USB file system for FAT file format only. Other file formats including NTFS is not currently supported. Microsoft Windows officially supports FAT for the USB memory card.

Send To USB

- Image shown may differ from your TV.

“Send To USB” must be done first before “Receive From USB” process, as it generate the file to be used in “Send To USB”. While writing is in process, the user must not turn TV off nor unplug the USB memory card. The steps in “Send To USB” are explained below. The following images might be slightly different than the OSD image.

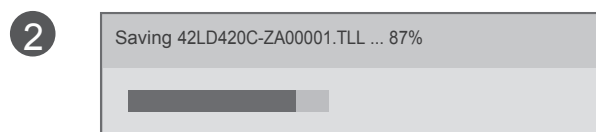
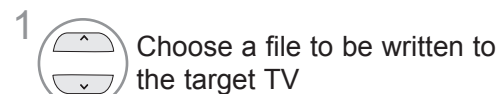
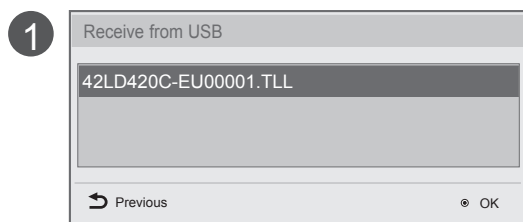
Plug in USB memory card into the port on target TV.



The process will be shown with progress bar, and as soon as sending the current profile is finished, a message acknowledging the learning process is complete will pop up.

Receive From USB

Once the internal TV data and its channel map information is written to the USB memory card, the user can start “Receive From USB” process with the data file generated and stored in USB memory card. As previously warned in “Send To USB” process, the user should not turn TV off nor unplug the USB memory card. Detailed steps for “Receive From USB” are illustrated below. The following images might be slightly different than the OSD image.



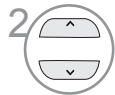
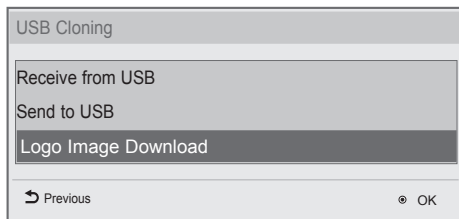
The process will be shown with progress bar, and as soon as teaching the current profile is finished, a message acknowledging the teaching process is complete will pop up.

- 3 TV turns off automatically after completion of data sending.

Logo Image Download

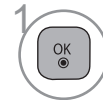
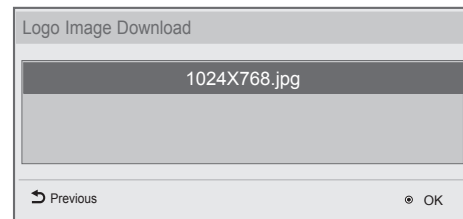
Make a 'LG_DTV' folder on the USB flash drive and then copy the splash image file to that folder.

1



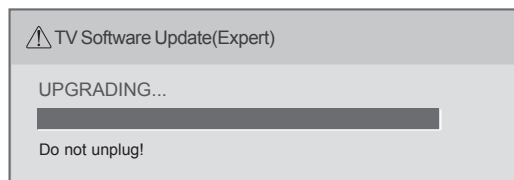
Select Logo Image Download

2



Select a Splash Image file you want.

3



Wait till the download process is completed.
After completion of download, TV set will restart automatically.

You can see a new Splash Image on TV which you downloaded while turning on TV.

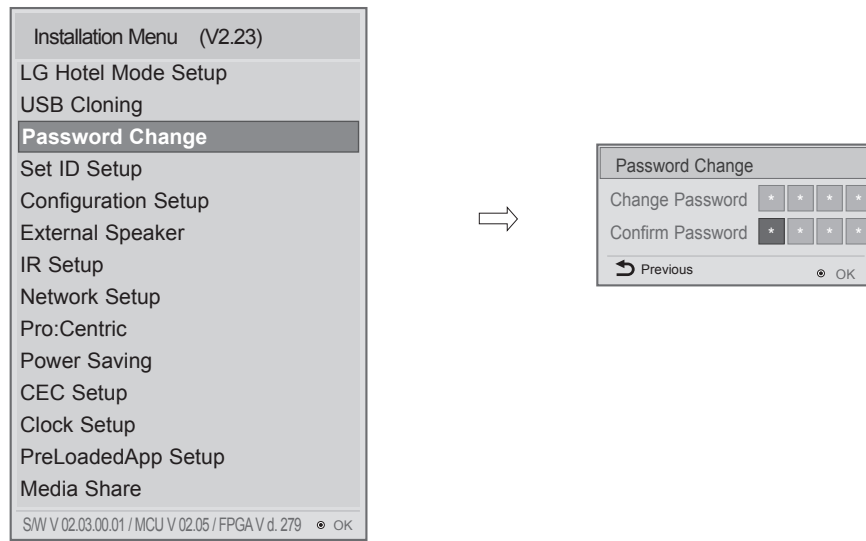


! NOTE

- ▶ 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.

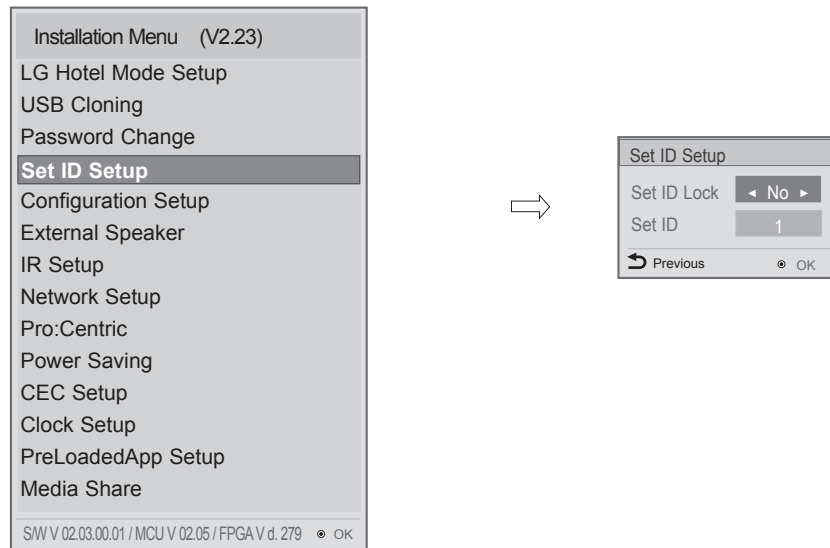
Password Change

- 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 \downarrow \uparrow button to select the Set ID Setup.

- **Set ID Lock**

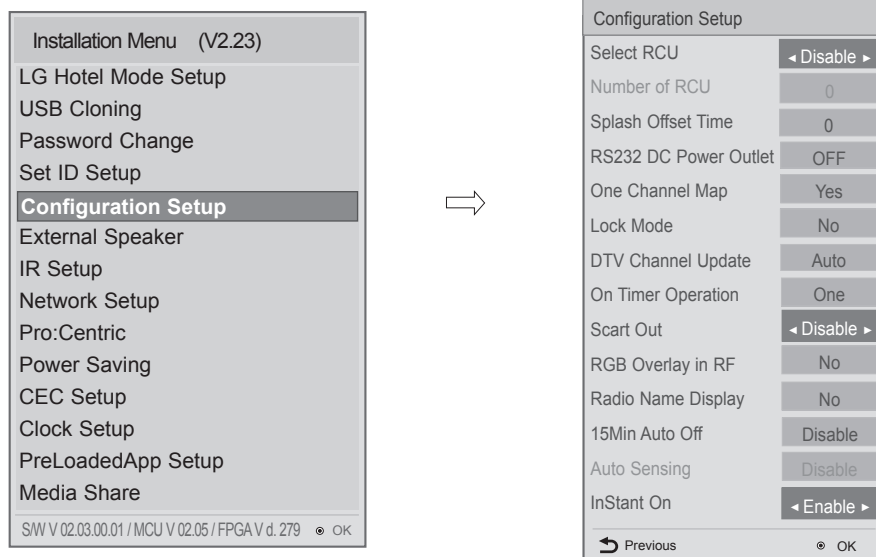
- Set the 'Set ID' item in 'Option' Menu whether to activate or not.
- Set to Yes(Work) or No(Do Not Work).

- **Set ID**

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

Configuration setup

- Image shown may differ from your TV.



(1) Select RCU

- It is a mode to set whether to use Select RCU or not. When 'Select RCU' is set to 'Enable', You can adjust 'Number of RCU' menu.

(2) Number of RCU

- It is a mode to set Number of RCU.
Number of RCU value range 1~9 (When 'Select RCU' is set to 'Enable')
Number of RCU value range 0 (When 'Select RCU' is set to 'Disable')

* RCU(Remote Control Unit) : It is special RCU that operates only setted number of RCU in TV.

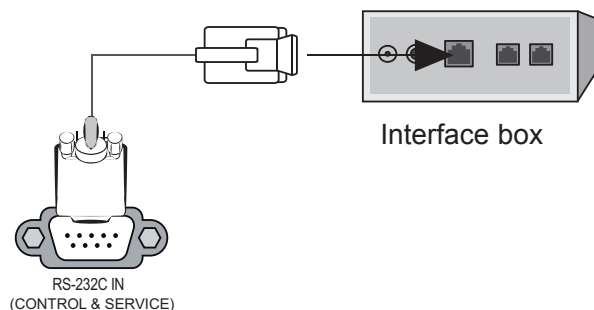
(3) Splash Offset Time

- Sets the splash image display time.
- The time can be set to between 0 and 10 seconds.

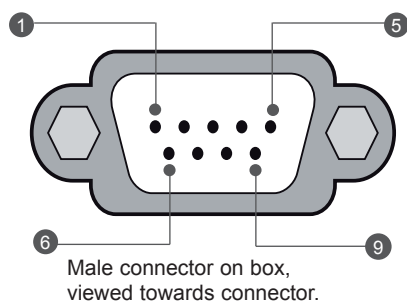
(4) RS232 DC Power Outlet (Except for 22/28LW750H-ZA)

- It is a mode to decide whether to output DC or not for power supply to IB Box in Installation Menu. We offer a output terminal in one Pin of RS232C Jack for the use of communication.
- 5V DC Power Outlet and 12V DC Power Outlet must operate mutually exclusively. That is, only one of the two sides must be turned on.

- 1 You can select 'OFF', '5V' or '12V' by pressing < > button.
 - When select '5V' the 5V is forwarded through the port. when select '12V' the 12V is forwarded through the port.



Type of Connector: D-Sub 9-Pin Male



No.	Signal	Signal requirements
1	VCC	
2	RX RS232	Standard RS232 specification
3	TX RS232	Standard RS232 specification
4	IR from TV	
5	GND	Power ground
6, 8	Not connected	
7	2 A	+5VDC 10%, max 100mV ripple
9	1.5 A	+12VDC 10%, max 100mV ripple

(5) 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. User can assign a channel number him/herself by manual scan.
 - C. In 'Programme Edit' window, all channels are shown in a single list regardless of input source. (DTV/RADIO/TV/Cable DTV)
 - D. Automatically scanned channels may not have the user-desired channel numbers.
- If user change the 'Yes/No' value, a pop-up window will be displayed to warn that all channel information will be deleted. The Default value is 'Yes'.

(6) Lock Mode

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

(7) DTV Channel Update (This feature is not available for all models.)

- It is a mode to set whether to update dtv channel automatically or not.
 - When DTV Channel Update is set to 'Auto', the function to update TV's programme map according to dtv programme's stream information.
 - DTV Channel Update is set to 'Manual', the function to keep TV's programme map even though dtv programme's information is changed.

(8) On Timer Operation

- It is a mode to select 'On Timer Operation' working one time or repeatedly.
'ONE' : 'On Time' in the user menu operates only one time when the 'On Time' menu is set to 'ON'.
'Repeat' : 'On Time' operates repeatedly when the 'On Time' menu is set to 'ON'.

(9) Scart Out

- The monitor out signals can or cannot be output through the SCART cable, depending on the setting value of scart out. You can set to Enable or Disable using the < > button. The default value is Enable.

(10) RGB Overlay in RF

- It is a mode to select whether to display RGB Data together on RF image or not. When 'RGB Overlay In RF' is set to 'Yes', Overlay Mode get to 'Enable' and you can see RGB Data signal as well as general RF Image.
- This is mainly used to provide information to the hotel guest.

(11) 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.

(12) 15Min Auto Off

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

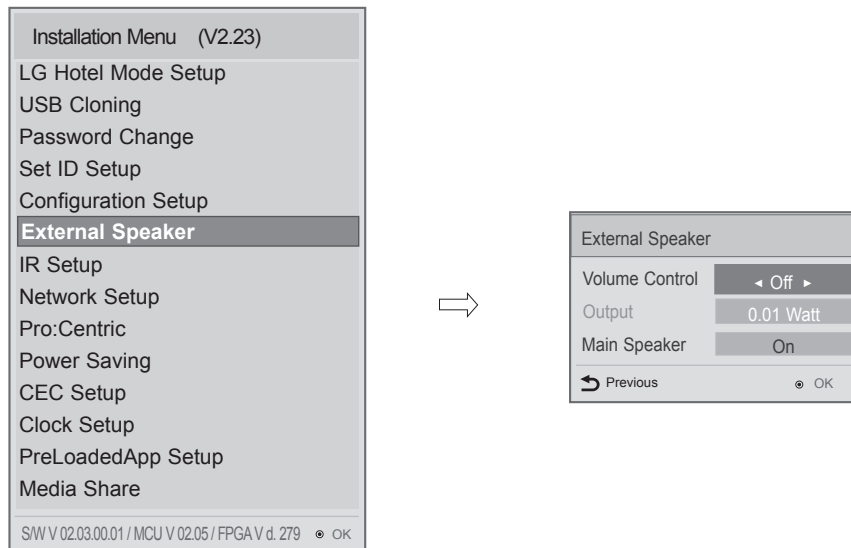
(13) Auto Sensing

- 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.
 - * SIMPLINK and Auto Sensing cannot work simultaneously. If SIMPLINK is set to On, Auto Sensing is automatically set to Disable.
 - * If the signal is removed while Auto Sensing (automatic input switch) is enabled, the input returns to the previous setting.
If the several input are connected by enabling Auto Sensing and the automatic 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.)

(14) InStant On

- Determine whether to enable Instant On or not.
When Instant On is enabled, TV will move on WARM mode automatically whenever TV is powered off. Therefore user will feel no booting time. But it causes more power consumption in power off.

External Speaker



1 Use the ∇ \blacktriangle button to select the External Speaker.

(1) Volume Control

- Selects the volume control method of an external speaker. You can select 'Off', 'Int Variable', 'Fixed.', 'Ext Variable', 'Line Output' by pressing \blacktriangleleft \blacktriangleright button. Ext Variable uses the External Vol Up/Down Control Line to change the volume up to 1 Watts. Int variable is linked to the main volume OSD and change the volume 0 - 1 Watts. Line output is Fixed line level (typically 500 mVrms \pm 100 mVrms @10K Ω) output. Fixed produces a fixed output. The default is Off.

(2) Output

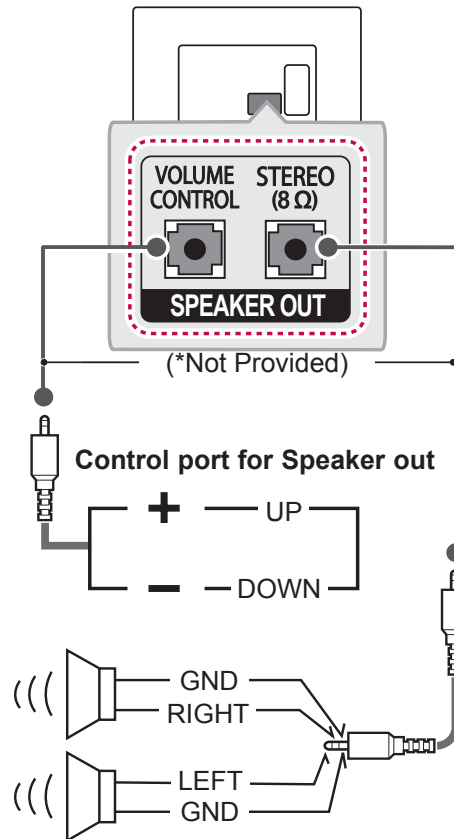
- This item is enabled when Volume Control is set to Fixed. You can choose one of 7 steps.(0.01/0.03/0.05/0.1/0.2/0.5/1 Watts). The Default is 0.01 Watt.

(3) Main Speaker

- When Off is selected, the main speaker will not work. When On is selected, the main speaker will work.

Speaker output SETUP

- 1 Connect the external speaker to the **SPEAKER OUTPUT(STEREO)** jack on the TV.



NOTE

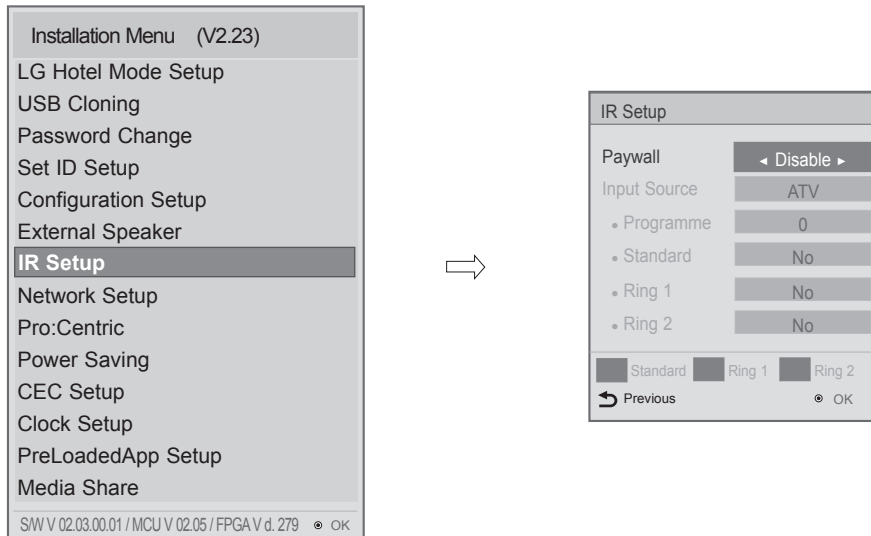
- Use only with the 3 Pole 3.5 mm Stereo Jack.
- Do not connect your headphones or earphones to the port for connecting a **SPEAKER OUT**.

Method of Volume control port

* Cable Spec.

	<p>Each Up/ Down pin is pulled to 3.3V with CPU GPIO.</p>
	<p>CPU detects transition from 3.3 V to GND level for volume control.</p>

IR Setup



- 1 Use the \downarrow \uparrow 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.

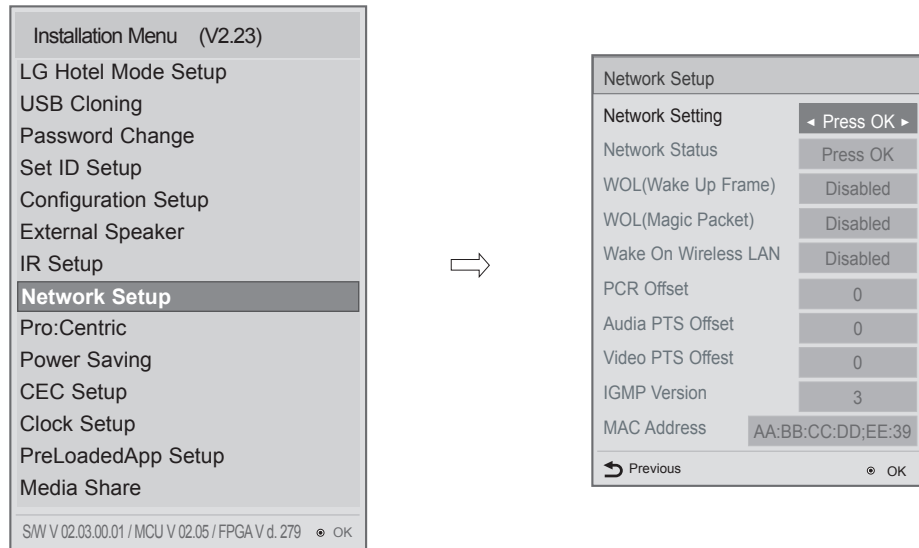
(4) Ring 1

- 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 2

- 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.

Network Setup



(1) Network setting

• One-click network connection

- Connects easily to a wired/wireless network.
- Network Connection to connect to an available network automatically. Follow the prompts on the TV.

• To connect to a network through Set Expert

- For use in special circumstances such as in offices (in cases where a static IP is used).

- 1 Select a network connection, either Wired or Wireless.
- 2 When connecting via Wired, Configures the IP settings of the TV set. You can set the IP address, subnet mask, gateway and DNS server.
- 3 When connecting via Wi-Fi, use the one of the following network connection methods.

AP List	Connects to the network selected from the AP List.
Enter the SSID	Connects to the wireless AP typed in.
WPS-PBC	Connects easily when the button of a wireless AP supporting PBC is pressed.
WPS-PIN	Connects easily when the PIN of the wireless AP that you wish to connect to is entered in to the AP website.
Ad-hoc	Connects to a network via a wireless-enabled PC or mobile phone.

(2) Network Status

- You can also check whether the IP settings are configured properly using the Enter button.

(3) WOL(Wake Up Frame)

- Sets the Wake On LAN function to Enable or Disable.
Use "Wake Up Frame".

(4) WOL(Magic Packet)

- Sets the Wake On LAN function to Enable or Disable.
Use "Magic Packet".

(5) Wake On Wireless LAN

- Sets the Wake On Wireless LAN function to Enable or Disable.
Use "Wake Up Frame and Magic Packet".

(6) PCR Offset

- Controlling standard clock of input stream depends on network condition.

(7) Audio PTS Offset

- Controlling output stream timing of audio.

(8) Video PTS Offset

- Controlling output stream timing of video.

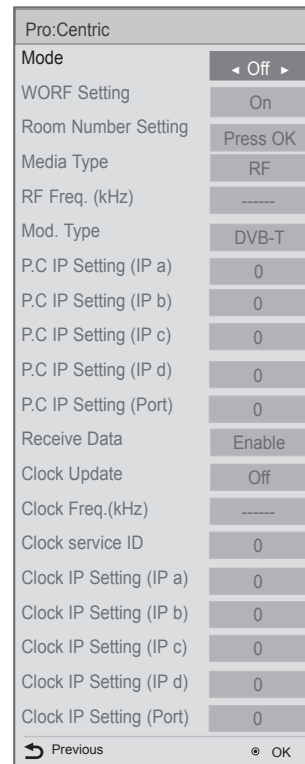
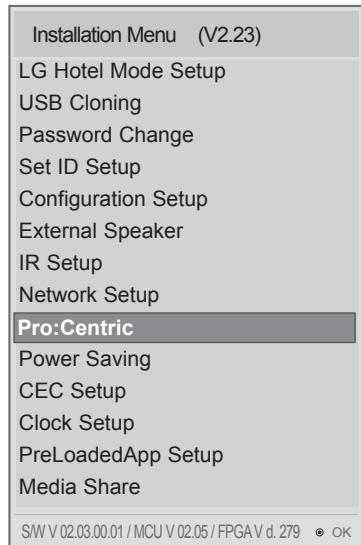
(9) IGMP Version

- You can select IGMP Version of multicast packet.

(10) MAC Address

- Displays the MAC address (not customizable).

Pro:Centric



- 1 Use the ∇ \blacktriangle button to select the Pro:Centric.

(1) Mode

- Sets whether or not enable Pro:Centric and the service method .
- You can set to Off, Flash, GEM or HTML using the \lt \gt button . The default value is Off; when it is set to Off, all the sub items are disabled. (Except for WORF, Room Number Setting)

(2) WORF Setting

- Press the 'OK' button in 'WORF Setting' item to go to the 'WORF Setting' menu.
- When WORF Setting is set to 'On', Hour and Minute items are enabled and then the WORF function is enabled.
- When WORF Setting is set to "Off", "Hour" and "Minute" items are disabled and then the WORF function is disabled.

(3) Room Number Setting

- Press the OK button in Room Number Setting item to go to the "Change a room number" menu.
- You can set or change Label and Room Number using the Room Number Setting.

(4) Media Type

- Sets the medium type to RF or IP.
The default value is RF.

(5) RF Freq. (KHz)

- Sets the RF frequency at which the Pro:Centric data is received.

(6) Mod. Type

- Sets the RF modulation type to DVB-T or DVB-C.
The default value is DVB-T.

(7) P:C IP Setting

- It can be set using the or number buttons.
 - (IP a) : Sets the first number in the IPv4 address.
 - (IP b) : Sets the second number in the IPv4 address.
 - (IP c) : Sets the third number in the IPv4 address.
 - (IP d) : Sets the fourth number in the IPv4 address.
 - (Port) : Sets the actual port number where the Pro:Centric server is running. It can be set using the or number buttons.
- The default value of IP a/b/c/d is 0 and the range is between 0 and 255. The default value of Port is 80 and the range is between 0 and 65535.

(8) Receive Data

- Sets Enable or Disable. When it is set to Disable, all the sub items are disable.

(9) Clock Update

- It can be set to 'Off', 'Clock Freq/IP Ch' or 'HTML'. The default value is 'Off'.
- If it is set to "Off", the time set from the main menu will be used. If it is set to "Clock Freq", the time will be updated from a specific frequency

(10) Freq.(KHz)

- The default value is '-----'.
- Set the RF frequency of the channel from which to update the time.

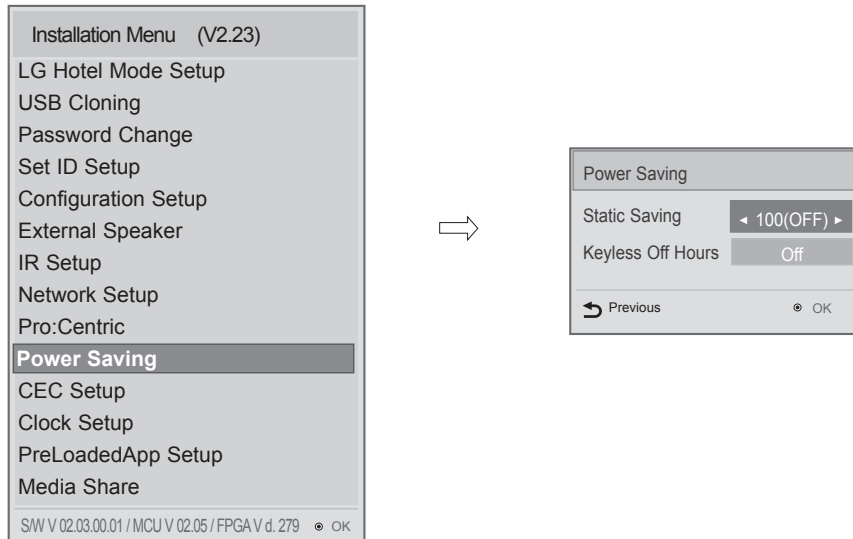
(11) Clock service ID

- The default value is 0.
- Set the service ID of the channel from which to update the time.

(12) Clock IP Setting

- It can be set using the or number buttons.
 - (IP a) : Sets the first number in the IPv4 address.
 - (IP b) : Sets the second number in the IPv4 address.
 - (IP c) : Sets the third number in the IPv4 address.
 - (IP d) : Sets the fourth number in the IPv4 address.
 - (Port) : Sets the actual port number where the Pro:Centric server is running. It can be set using the or number buttons.
- The default value of IP a/b/c/d is 0 and the range is between 0 and 255. The default value of Port is 80 and the range is between 0 and 65535.

Power Saving



1 Press the ∇ \blacktriangle button to select the Power Saving.

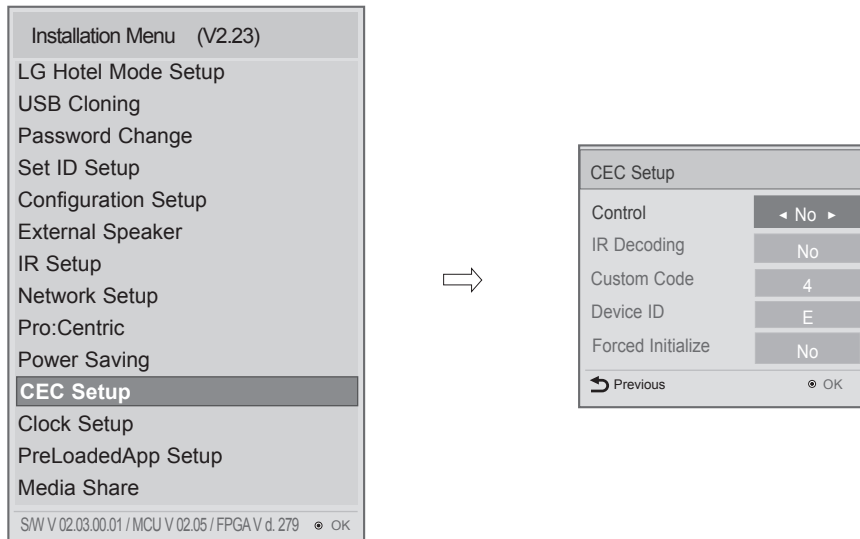
- **Static Saving** : It is the item for setting the level to reduce the backlight control from the items for saving the consuming power, which is increased or decreased by 10 steps from 0 to 100. 100 makes the consuming power set to the same one from the TV. 0 reduces the consuming power to the minimum. The default value is 100.

- The value displayed at the OSD is not changed and only the actual setting value is converted to percentage based on the static saving value to set.
- 0 ~ 30: HIGH, 40 ~ 60 : MID , 70 ~ 90 : LOW , 100 : OFF

- **Keyless Off Hours** : Automatically TV will be turned off if there is no key input for the preset time period.

- Set the 'OFF', '1~99'.

CEC Setup



- 1 Use the ∇ \wedge button to select the CEC Setup.

(1) Control

- Determines whether to use TVLink-CEC. The default value is No. When No is selected, you cannot set subitems.

(2) IR Decoding

- Determines whether to decode the LG remote control. If No is selected, the TV does not decode it and sends signals only to the IR Out port. You need to run Forced Initialize below once to apply it. If Yes is selected, 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.

(3) Custom Code

- Sets the custom code used for NEC Format of the remote control. The default value is 4. The TV remote control that LG is currently using is 4 so this item is always set to 4 and disabled.

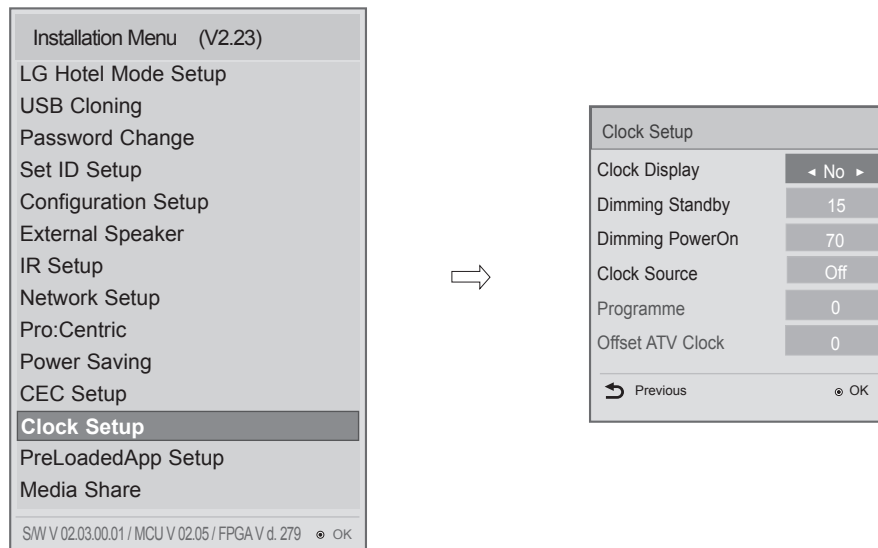
(4) Device ID

- Sets the ID of a device connected to the TVLink-CEC Line. You can choose between 1 and E. The default value is E.

(5) Forced Initialize

- If No is selected, a command should be sent and received between the TV and a -device for proper initialization. If Yes is selected, initialization is implemented when a device receives a command. If initialization is not implemented, the TV remote control and local key will work.

Clock Setup



1 Press the \vee \wedge button to select the Clock Setup.

(1) Clock Display (Except for 22/28LW750H-ZA)

- You can select 'YES' or 'NO' by pressing $<$ $>$ button.
- After selecting 'YES', you can see the LED Clock TV.

(2) Dimming Standby (Except for 22/28LW750H-ZA)

- Standby Dimming value Range: 0~15

(3) Dimming PowerOn (Except for 22/28LW750H-ZA)

- PowerOn Dimming value Range: 0~99

(4) Clock Source

- You can select 'Off', 'ATV', 'DTV', 'RADIO', 'CADTV', 'CARADIO' by pressing $<$ $>$ button.

(5) Programme

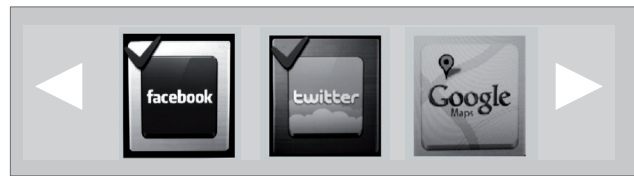
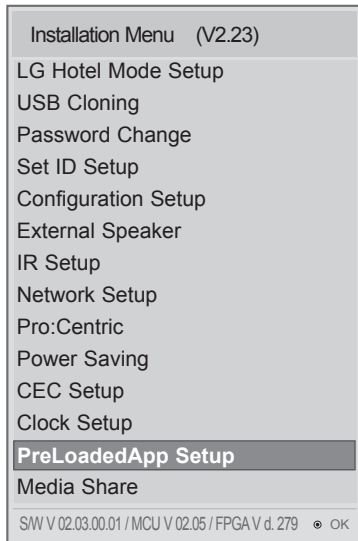
- Select the programme number to get the time information when tuning on TV.

If the current setting for clock source is 'DTV', you can get the clock information when selecting the decided source and programme. If the current setting for clock source is 'ATV', you can get the clock information of teletext at the number of programme. Set up the programme in accordance with the condition of the hotel clock source.

(6) Offset ATV Clock

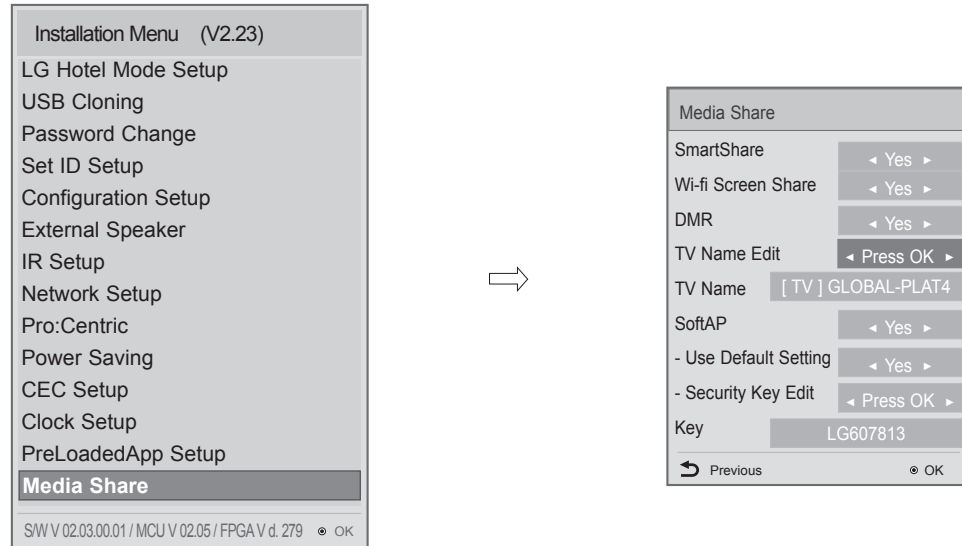
- In the case when there is difference between the time information received from the Teletext and the time of the current area, it can be set up to correct this. The initial value is 0, and it can be changed in the range of -12Hrs ~ +12Hrs.

PreLoadedApp Setup



- 1 If you want to use a particular app, you can choose from the menu. you can setting each apps activation.
- 2 You can check or uncheck by pressing ok button.

Media Share



1 You can setting Whether to use for "SmartShare".("SmartShare" is kind of DLNA.)

(1) SmartShare

- If you want to see DMS(digital media servers) in INPUTLIST menu, you must select 'yes' in this item.

(2) Wi-fi Screen Share

- If you want to use Wi-fi Screen Share in OPTION menu, you must select 'yes' in this item.
Wi-fi Screen Share include two functions(Wifi Direct and WIDI).

(3) DMR

- If you want to use DMR(digital media renderer), you must select 'yes' in this item.

(4) TV Name Edit

- When other media device(ex: smart phone, desktop, laptop) searching TV, this string was displayed.

(5) SoftAP

- If you want to use SoftAp menu on OPTION menu, you must select 'yes' in this item.
A SoftAP is a function of TV which is used like Access Point.

(6) Use Default Setting

- If you want to use default password(this password was generated randomly), you must select 'yes' in this item.

(7) Security Key Edit

- When guests want to use TV's SoftAP function, they need this password. If you want to change this default password, you need to Change '- Use Default Setting' value into 'NO'.

DOWNLOAD EXTRA CONTENTS

Download Extra Contents(flash file) toTV set

The Pro:Centric application can be downloaded to your TV.

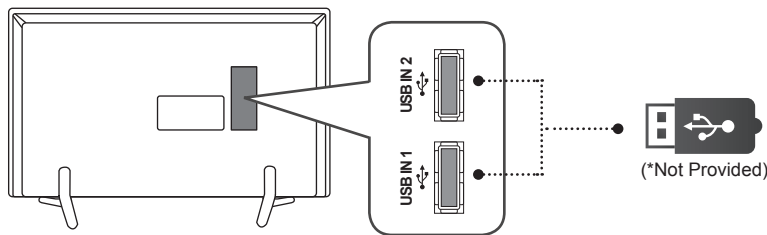
FLASH (*.SWF) / GEM/HTML supporting file

An SWF file complied with Flash Lite 3.0 or earlier (the 3.0 version is recommended)

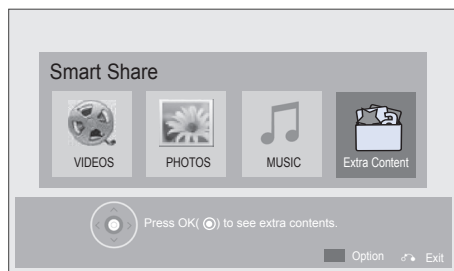
- **Mode** must be set to **Flash, GEM or HTML** under **Pro:Centric** in **Installation Menu**.
- The folder called `/hcapfs/as/abs_service/` must exist in USB drive root directory.
- The file called `xait.xml` must exist in the `/hcapfs/as/abs_service/` folder.
- The file called `I_AM_FLASH` must exist in the `/hcapfs/config/` folder with **Flash** mode.
- The file called `I_AM_GEM` must exist in the `/hcapfs/config/` folder with **GEM** mode.
- The file called `I_AM_HTML` must exist in the `/hcapfs/config/` folder with **HTML** mode.
- You will have no response even if selecting **Yes** in step 3 when the above conditions are not met.

• Image shown may differ from your TV.

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



- 2



- 1  Select **Extra Contents**.

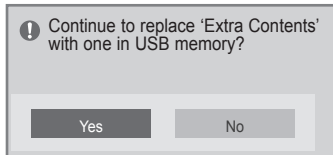
- 2 Enter a four digit password.

- The TV is set with the password "1-1-0-5".

! NOTE

- ▶ You can not select the **Extra Contents** in **Smart Share** when the **Mode** under **Pro:Centric** in **Installation Menu** is set to **Off**.

3



Select 'Yes'.

4

Wait till the download process is completed.
After completion of download,
TV set will restart automatically.

! TV is in updating process.
Please wait for a while.

You can see a new Application File on TV.



■ To stop playing the Application file

Change **Mode** other than **Flash** or **GEM** under **Pro:Centric** in **Installation Menu**.
When you change the **Mode**, the downloaded content is deleted from the memory.

! NOTE

- ▶ When playing the Application file(FLASH or GEM file), the buttons are controlled according to the settings of the Extra Contents option.

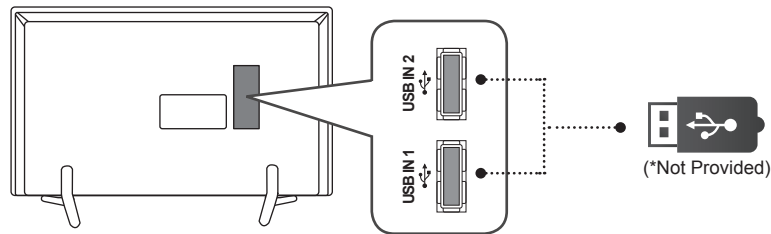
DOWNLOAD A SPLASH IMAGE

Download Splash Image file to TV set

Make a 'LG_DTV' folder in the USB flash drive and then copy splash image file to the folder.

- Image shown may differ from your TV.

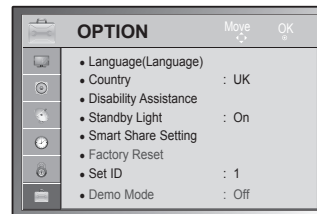
1 Connect the USB device to the **USB IN** jack on the TV.




2



OR



1   Select **OPTION**.

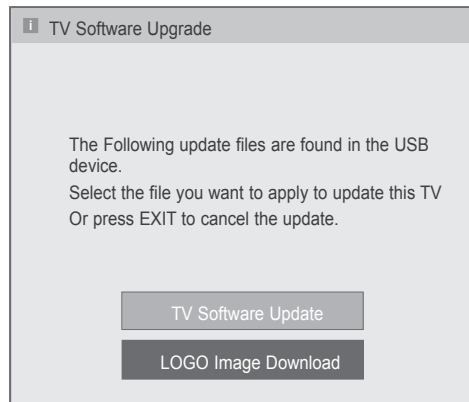
2  Press **7 button** seven times, TV Software Update(Expert) menu will appear.

1   Select **OPTION**.

2   Select **OPTION**.

3  Press **7 button** seven times, TV Software Update(Expert) menu will appear.

3



You can see a new Splash Image on TV which you downloaded while turning on TV.



4



Wait till the download process is completed.
After completion of download,
TV set will restart automatically.

! NOTE

- ▶ Splash Image upgrade function supports JPEG and BMP format file of less than 8MB filesize.
- ▶ Except for JPEG images with progressive encoding.
- ▶ The resolution of Splash image should be 1920 x 1080 for full HD panel, 1360 x 768 for HD panel.
- ▶ TV keep splash image until you change a new splash image.



