



INSTALLATION MANUAL LED TV*

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

LY96**

www.lg.com

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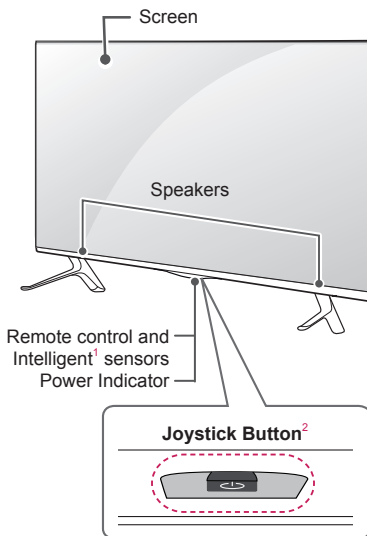
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LOCATION AND FUNCTION OF CONTROLS

Parts and Button



- 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 **General** in the main menus.

EZMANAGER

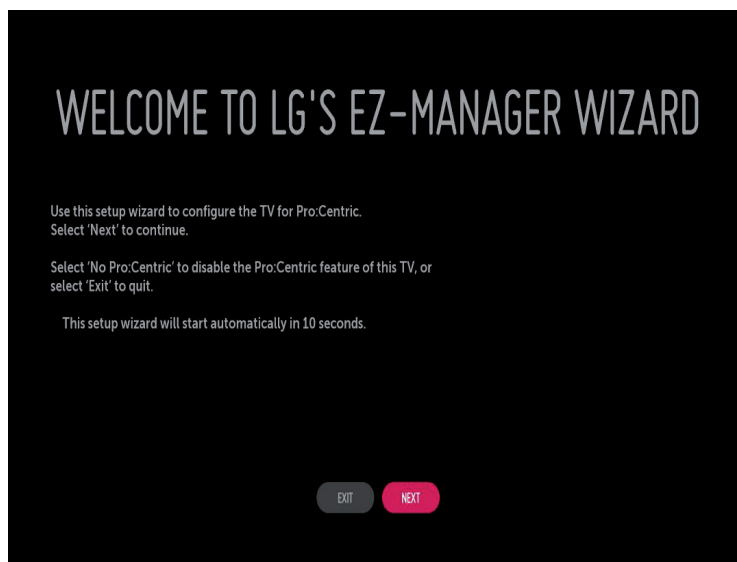
- Image shown may differ from your TV.

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. (Only DVB-C)

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

EZ-MANAGER WIZARD



- If you are using Pro:Centric, this setup wizard will help you easily set up the TV. Select '**NEXT**' to continue.
- Otherwise, if you will not be installing a Pro:Centric Server, select '**EXIT**' to quit.

LANGUAGE & COUNTRY SELECTION

ENGLISH

LANGUAGE & COUNTRY SELECTION

Confirm your location and language setting.

Language ▾
English

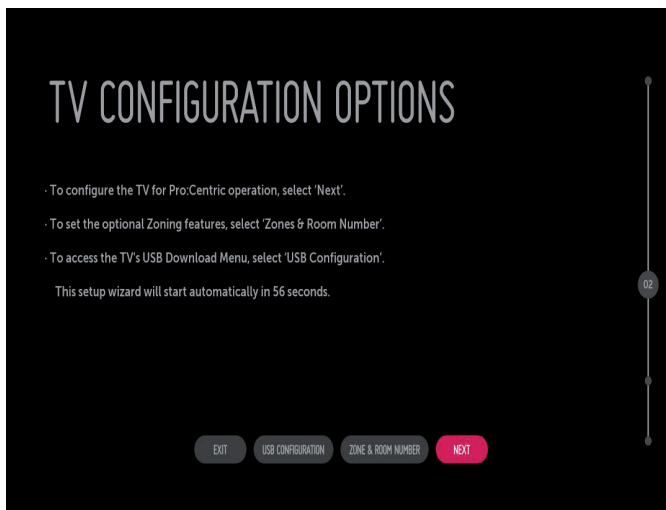
Country ▾
United Kingdom

01

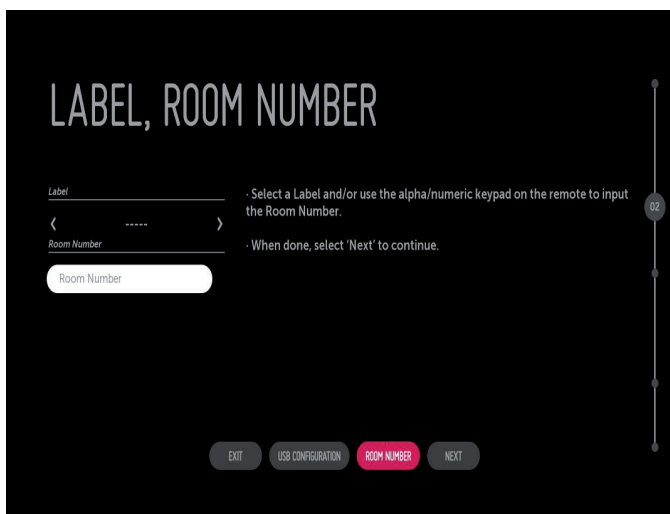
- Please select the **Language** and **Country**. Some countries need to select the **Time Zone**.

Automatically for Setup

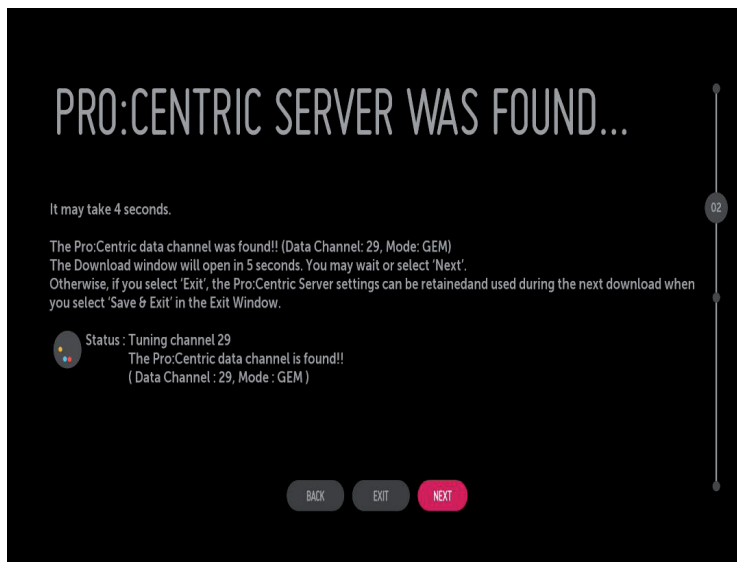
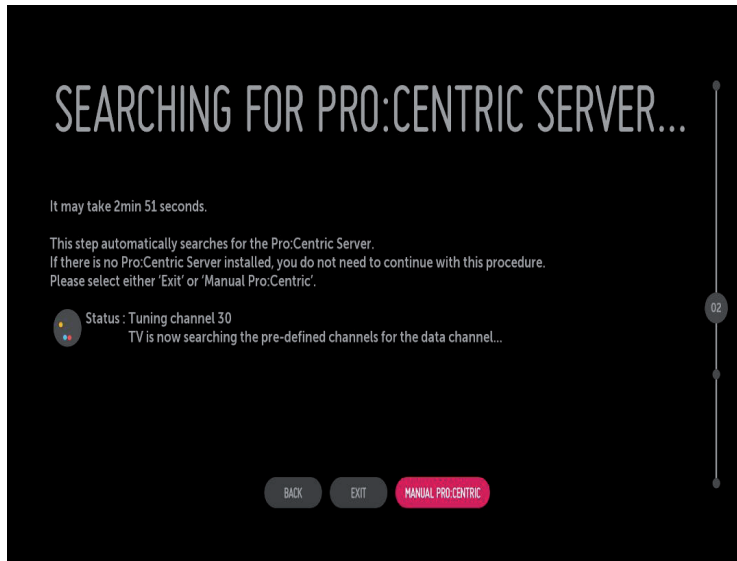
- 1 From the TV Configuration Options screen, you can choose how to proceed with the configuration of this TV. Whether you will configure the TV for Pro:Centric operation via the wizard or use a USB memory device to configure the TV, you may first wish to set the Room Number on the TV.



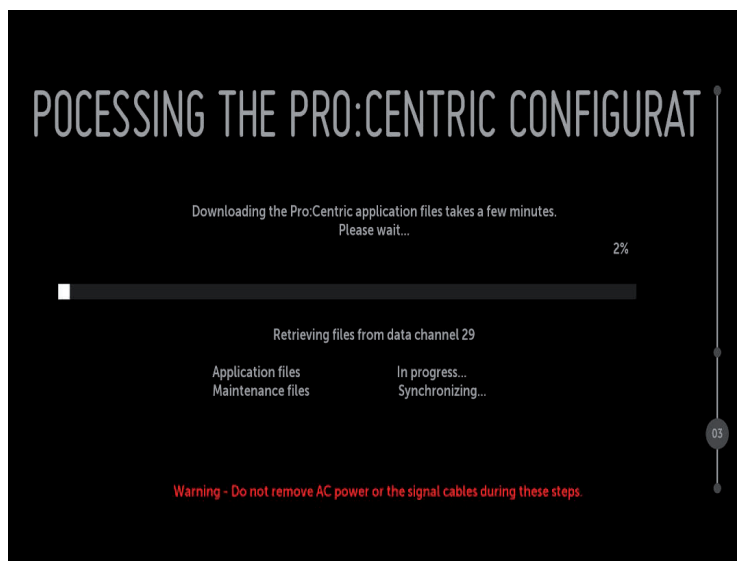
- If you intend to set Room Number as part of the TV configuration, use the Room Number option to assign the Room # for this TV before you continue with additional configuration.
- In the Label field, use the Left/Right arrow keys to specify a North, South, East, or West designation for this TV.
- In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



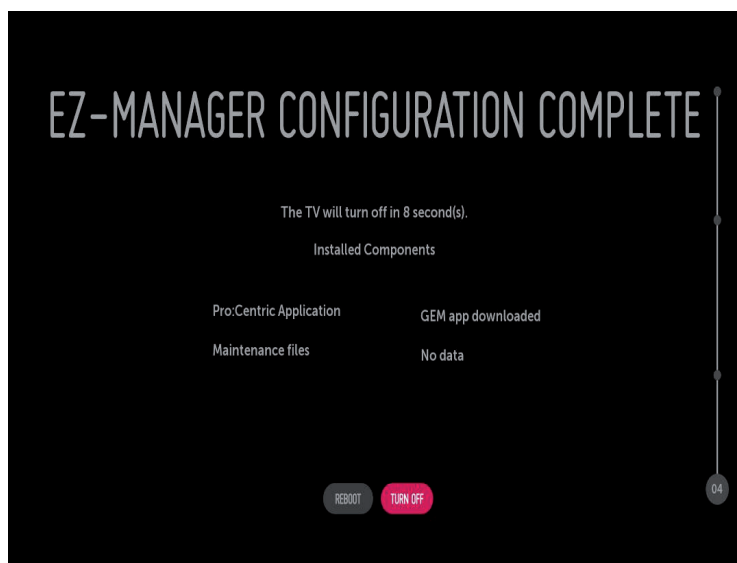
- 2 This step automatically searches for the Pro:Centric Server. If was found the Pro:Centric data channel, select the **'NEXT'**.



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

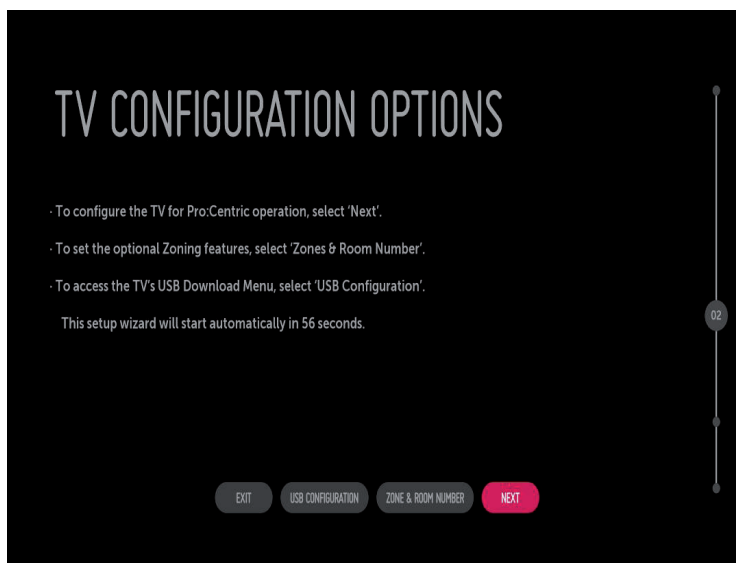


- 4 After the installation is completed, the following screen will be displayed.

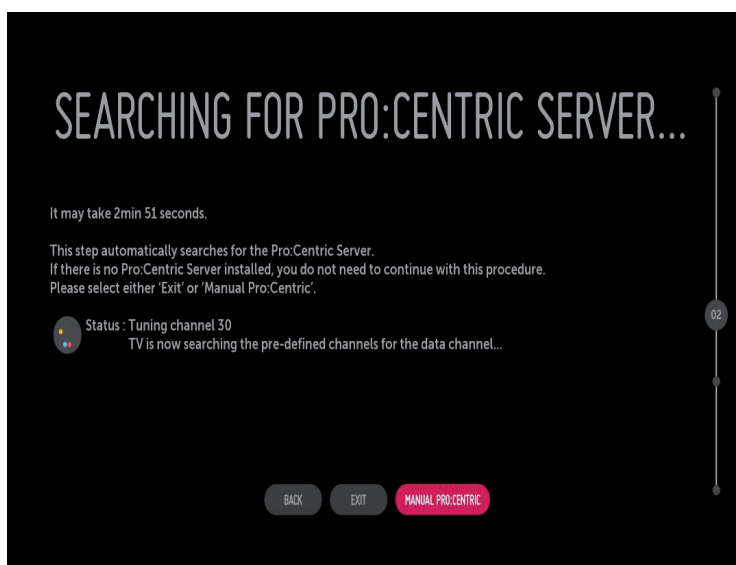


Manually for Setup

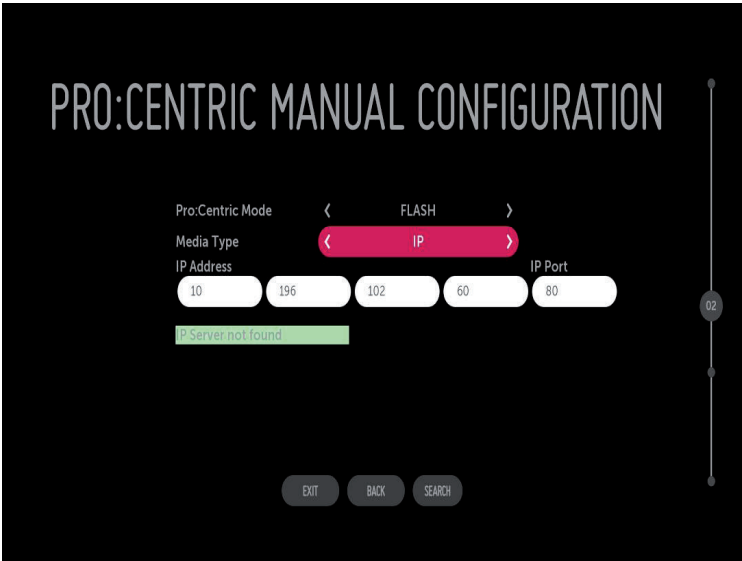
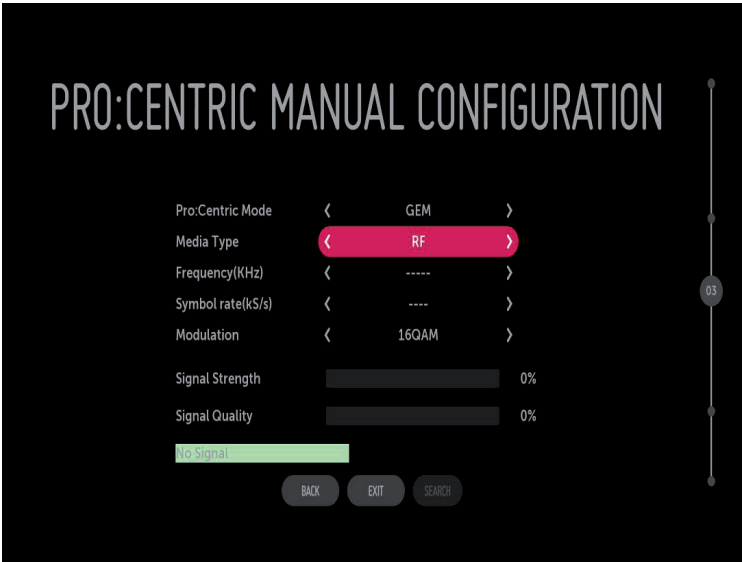
- 1 Select a Label and/or enter the Room Number using the numeric keypad on the remotes or using the virtual keyboard on the TV screen. To continue, move and select **'NEXT'**.



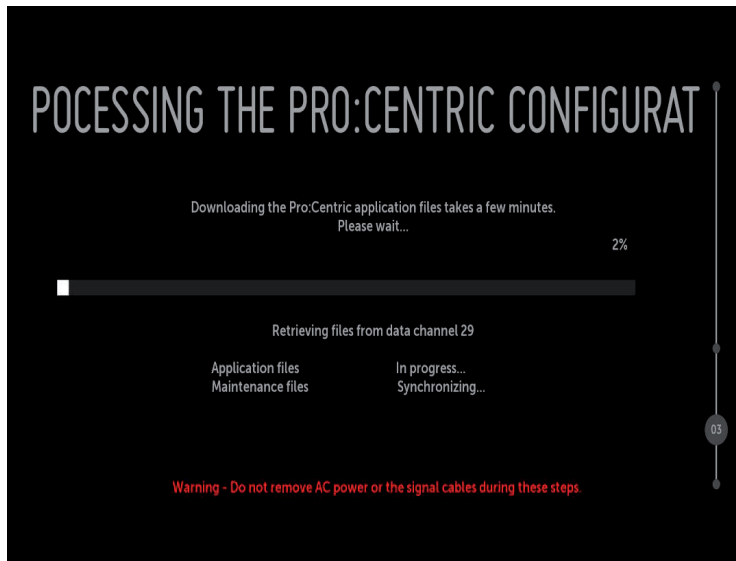
- 2 Please select the **'MANUAL PRO:CENTRIC'**.



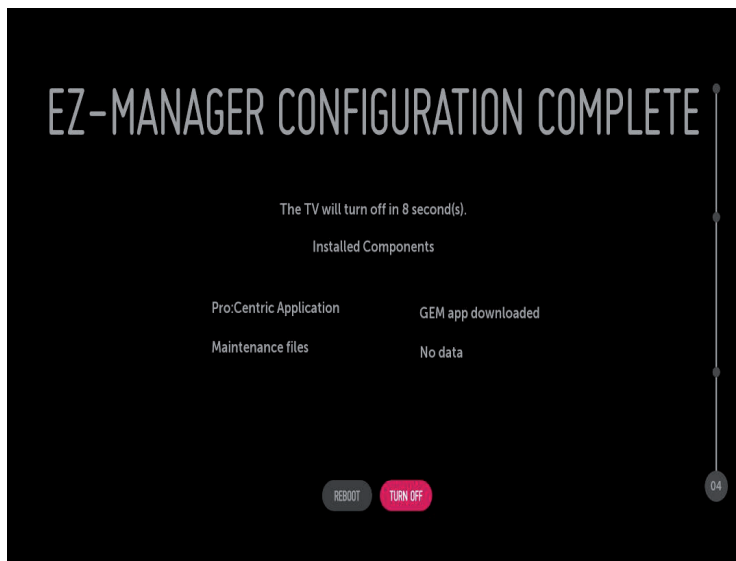
- 3 Configure the appropriate Pro:Centric settings in the TV.



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

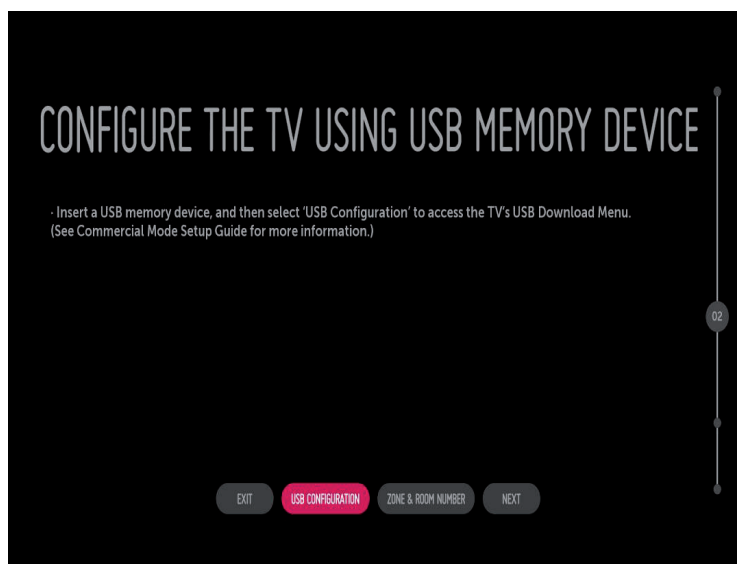


- 5 After the installation is completed, the following screen will be displayed.



USB LG Smart Install Utility

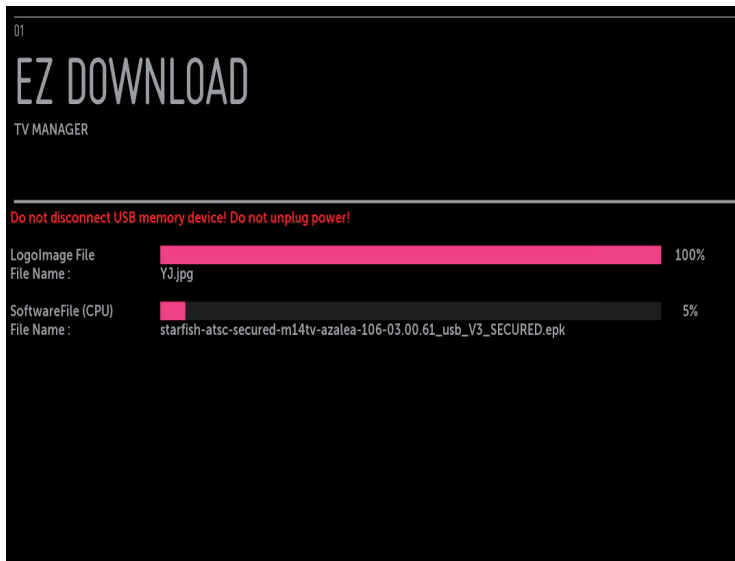
- 1 Select the '**USB CONFIGURATION**' → '**TV MANAGER**'.



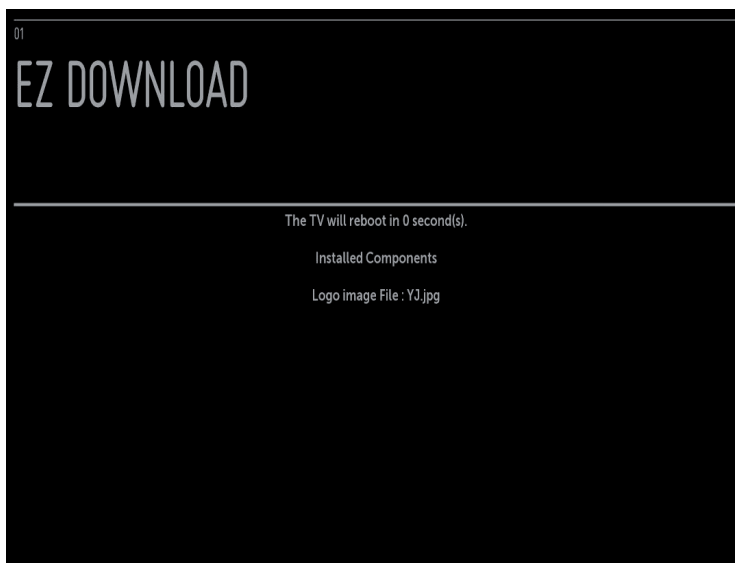
- If you have USB Memory for "LG_DTV" or "lg_dtv" folder, this step shows the USB file list for downloading the items.



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



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

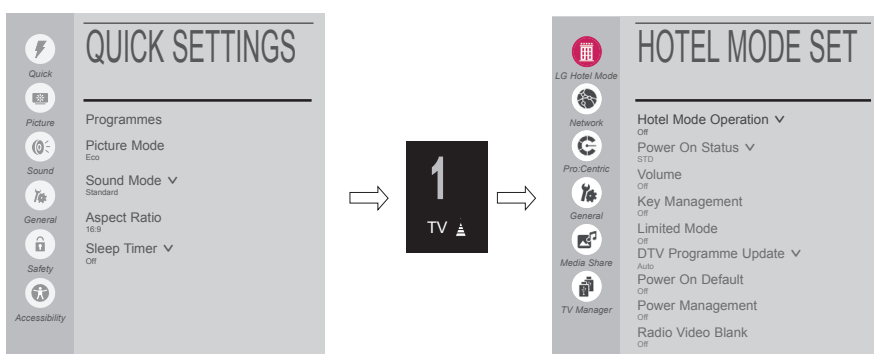


INSTALLATION MENU

- Image shown may differ from your TV.

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.



- 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



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

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 $\rightarrow$ Option $\rightarrow$ '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.

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.
- If there Block All is both IR Operation and Local Key Operation from Key Management, In order to provide the Option that must be able to turn on the TV in the TV turned off situation, change the value of the PWR. (Reference the Key Management)

Volume

- Decide to apply volume policy of 'Start Volume', 'Maximum Volume' and 'Minimum Volume' as Yes(Work) or No(Do Not Work).
- ($0 \leq \text{Min} \leq \text{Start} \leq \text{Max} \leq 100$)

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, $0 \sim 100$) were set simultaneously.

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.

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.

Key Management

- It is possible to manage the usability 'Local/Front Key' and 'Remote Control'.

Limited Mode

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

Setup Menu

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

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.

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.

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...)

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.

DTV Programme Update

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

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.

Power Management

- If there is no input the amount of time that is set via the remote control or local key after the TV is turned on, TV is turned off automatically.
- The default setting is "Off".

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.

Factory Reset

- Change all settings to their default values.

NETWORK



- 1 Use the ∇ $\wedge$ button to select the **NETWORK**.

MAC Address

- Displays the MAC address (not customizable).

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.

IP Stream Control

Audio PTS Offset

- Controlling output stream timing of audio.

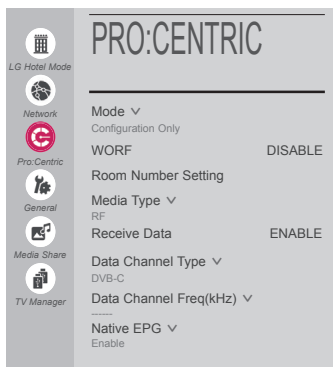
Video PTS Offset

- Controlling output stream timing of video.

Wake On LAN

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

PRO:CENTRIC



- 1 Use the ∇ $\wedge$ button to select the **PRO:CENTRIC**.

Mode

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

WORF

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

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.

Media Type

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

RF

- Data Channel Freq(KHz)
 - Sets the RF frequency at which the Pro:Centric data is received.

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

IP

- 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.

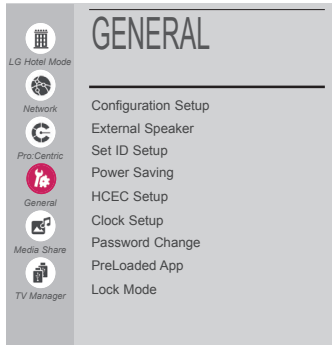
Receive Data

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

Native EPG

- Disable
- Enable
 - You can use the TV Guide Application in Pro:Centric.

GENERAL



Configuration Setup

Select RCU

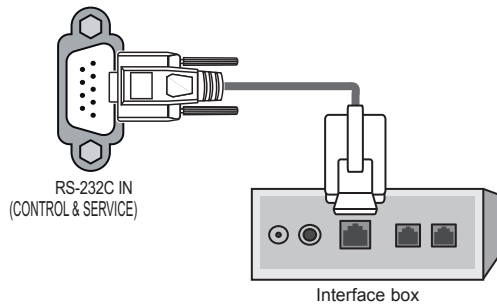
- It is a mode to set whether to use Select RCU or not. When 'Select RCU' is set to 'Enable', You can adjust 'Number of RCU' menu.

Number of RCU

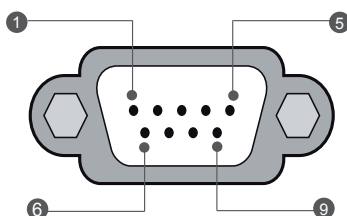
- It is a mode to set Number of RCU.
Number of RCU value range 1~9. (When 'Select RCU' is set to 'Enable')
Number of RCU value range 0. (When 'Select RCU' is set to 'Disable')
- * RCU(Remote Control Unit) : It is special RCU that operates only setted number of RCU in TV.

RS232 DC Power Outlet

- 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.
- 5 V DC Power Outlet and 12 V DC Power Outlet must operate mutually exclusively. That is, only one of the two sides must be turned on.
- ▶ You can select 'OFF', '5 V' or '12 V' by pressing < > button.
 - When select '5 V' the 5 V is forwarded through the port. when select '12 V' the 12 V is forwarded through the port.



- Type of Connector: D-Sub 9-Pin Male



Male connector on box,
viewed towards connector.

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

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'.

DTV Programme Update

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

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'.

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.

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.

15Min Auto Off

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

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.)

InStand 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

Volume Control

- Selects the volume control method of an external speaker.
You can select 'Off', 'Int Variable', 'Fixed', 'Ext Variable', 'Line Output' by pressing < > 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 ±100 mVrms @10KΩ) output.
Fixed produces a fixed output. The default is Off.

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.

Set ID Setup

Set ID Lock

- Set the 'Set ID' item in 'GENERAL' 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.

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'.

HCEC Setup**CEC Mode**

- Determines whether to use TVLink-CEC. The default value is No. When No is selected, you cannot set subitems.
- If 'TVLink-CEC' is selected, TV will not directly work for key input except for power key. And volume related keys will work just in case of Follower volume control mode. (for more detailed information regarding the scenario of volume control, please refer to "TVLink-CEC protocol" document)

IR Decoding

- If 'IR Decoding' is set as 'Yes', TV decodes IR signal to generate a CEC command and sends it to device.
- If CEC mode is 'TVLink-CEC' with IR Decoding 'No', TV Will just pass through the IR to device without any reaction by itself.

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'.

StandBy

- Set the sending and receiving scenario of OpStandBy(0x0c) command.
- This detailed scenario is described on the table below.

	Send	Receive
Send Only	O	X
Receive Only	X	O
All	O	O
Off	X	X

Forced Initialize

- This setting will be enabled When CEC mode is set as 'TVLink-CEC'
- If 'Enable' is selected, TV will change its input source to HDMI1 by any HDMI-CEC simulation from a device.

HTNG Hotel Mode

- If you use following functions via TVLink-HCEC, HTNG Hotel mode will be set as "Yes" automatically. (*Power On Default, Start Volume, Maximum Volume, Minimum Volume, or Start Volume)
- Even if 'Hotel Mode Operation' is set as No, above settings are still effective.

Clock Setup

Clock Display

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

Dimming Standby

- Standby Dimming value Range : 0~15

Dimming PowerOn

- PowerOn Dimming value Range: 0~99

Clock Source

- You can select 'Off', 'Pro:Centric', 'TV' by pressing $\vee$ $\wedge$ button.

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.

Timezone(City) & Timezone(Offset)

- 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.

Password Change

- To ensure more security, Password can be changed by installers' own design.
- 1 Use the $\vee$ $\wedge$ button to select the **CHANGE** and then press the **OK** button.
 - 2 Enter four digit password.
 - 3 Input the password again for confirmation.

PreLoaded App

- 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.

Lock Mode

- If 'Lock Mode' is 'Yes', the following features will be unavailable.
 - * USB Enable(Exclude S/W update)
 - * Factory Reset

MEDIA SHARE



- You can setting Whether to use for “SmartShare”

SmartShare

- If you want to see DMS(digital media servers) in **MEDIA SHARE** menu, you must select ‘Yes’ in this item.

Screen Share

- If you want to use Wi-fi Screen Share in **MEDIA SHARE** menu, you must select ‘Yes’ in this item. Wi-fi Screen Share include two functions(Miracast and intel® WIDI).
- If you want to use Screen Share function, you must select ‘Yes’ in DMR.

DMR

- If you want to use DMR(digital media renderer), you must select ‘Yes’ in this item.

TV Name

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

SoftAP

- If you want to use SoftAp menu on **MEDIA SHARE** menu, you must select ‘Yes’ in this item. A SoftAP is a function of TV which is used like Access Point.

Use Default

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

Security Key

- 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'.

TV MANAGER

USB Download Menu

- * **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.

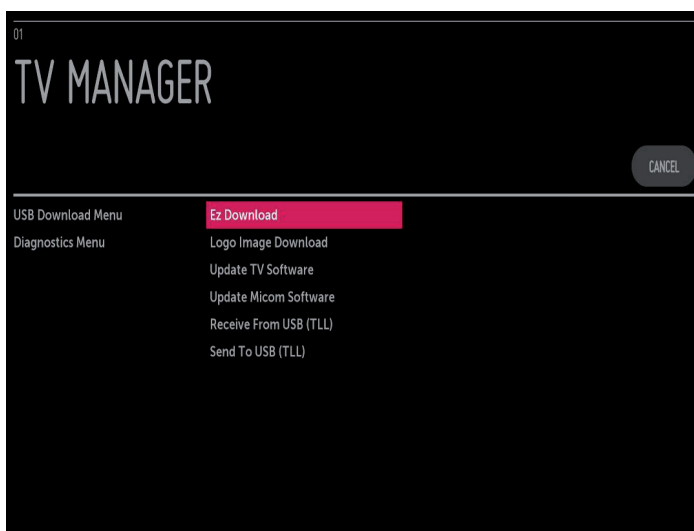
- 1 **Overview USB Cloning Procedure**
: Commercial TVs have the capability to support cloning internal TV data and programme information with an external clone device called "USB Cloning", in order to copy TV data accurately and quickly. The clone internal functions use slightly different internal processes 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:
 - TV data includes :
 - A. Installer Menu settings
 - B. Main menu settings (Audio, Picture etc)
 - 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.
- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.

Ez Download

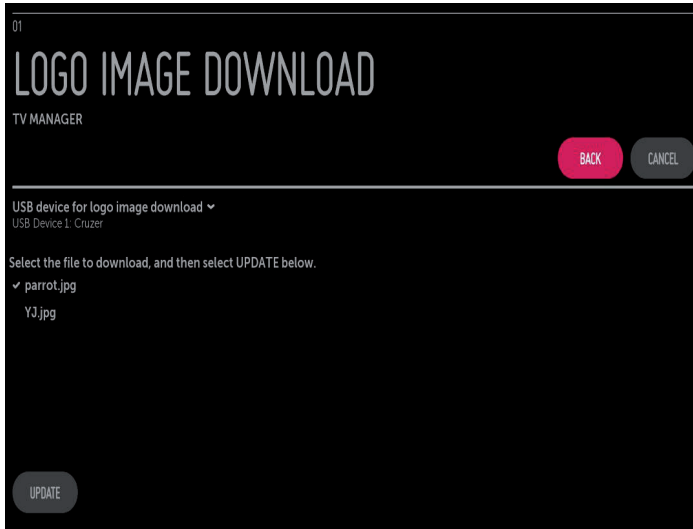


- Ez Download is a function that enables users to download the desired items all at once, such as EPK (software update file), TLL (see Send to USB descriptions for more information regarding file types), Logo Image, etc (TLX, MICOM for Pro:Centric).
- * Splash images and EPK files should be copied into the folder named LG_DTV on the USB.
- TLL files should be copied to the root folder of the USB.
- If you press 'EZ Download' menu, EZ Download is launched.
- Supported file type have to be shown and "None" checked when the is existed in USB. And only one item should be checked on each file format when the page is opened.
- If .DZM file exist file will be selected previously download file.

**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, EPK or Micom 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.

Logo Image Download



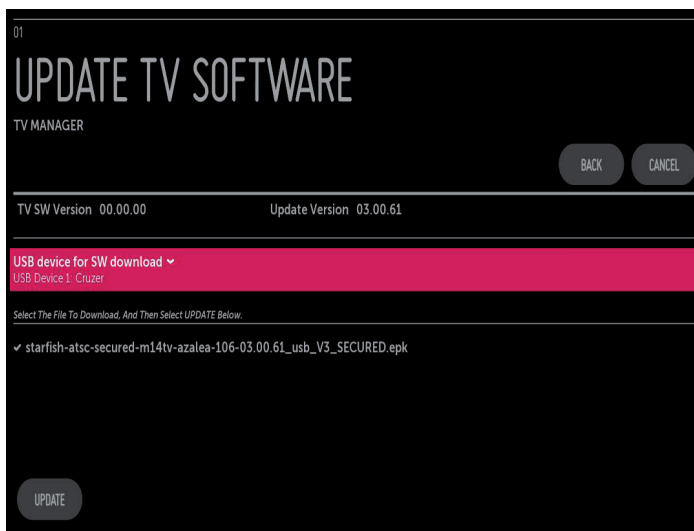
ENGLISH

- If there are more than two USB Memory Device, It is possible to select the USB.
- The download sequence is USB → filename → update.

NOTE

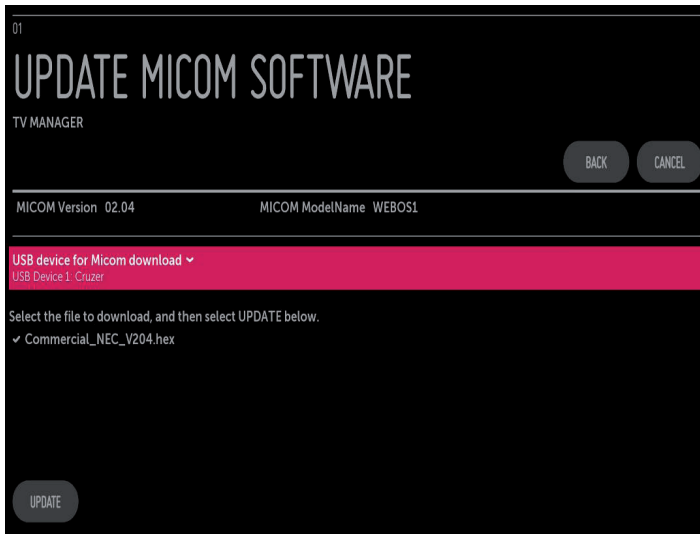
- Splash Image update function supports only JPEG format file of less than 1 MB filesize.
- Except for JPEG images with progressive encoding.
- We recommend you that splash image resolution match the TV's panel resolution.
- Max resolution of splash image : Full HD → 1920 x 1080, HD → 1360 x 768.
- Min resolution of splash image : Full HD → 64 x 64, HD → 64 x 64.
- TV keep splash image until you change a new splash image.

Update TV Software



- This feature update EPK of TV through the hex file in USB. The target file is located in \lg_dtv folder.
- If there are more than two USB memory Device, It is possible to select the USB.
- The download sequence is USB → filename → update.

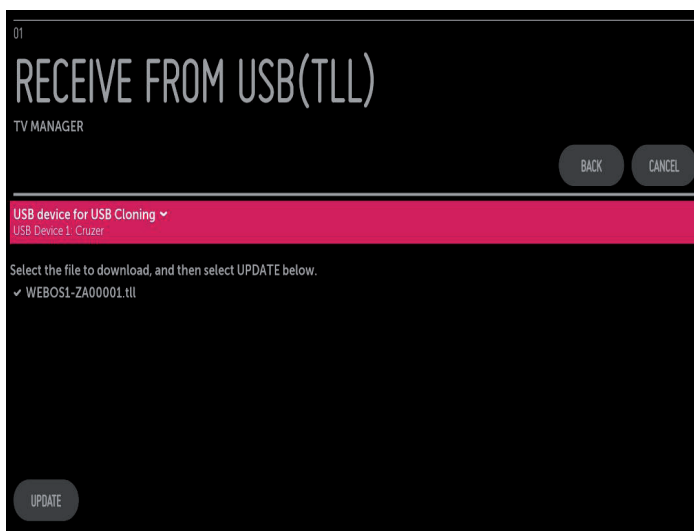
Update Micom Software



ENGLISH

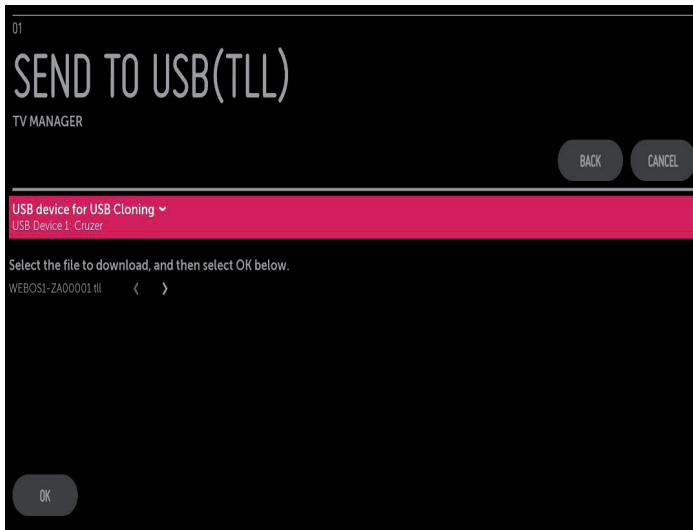
- This feature update MICOM of TV through the hex file in USB. The target file is located in \lg_dtv folder
- If there are more than two USB memory Device, It is possible to select the USB.
- The download sequence is USB → filename → Update.

Receive From USB(TLL)



- 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.

Send to USB(TLL)



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- "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.

Diagnostics Menu

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

- 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.
- 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 (average value) → strength (current signal strength) and (BML - strength) → SignalTracer Set.
 - Good signal: BML → strength and (strength - BML) → 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.

