



INSTALLATION MANUAL LED TV*

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

UV3***-U*
75/86UU3***-U*

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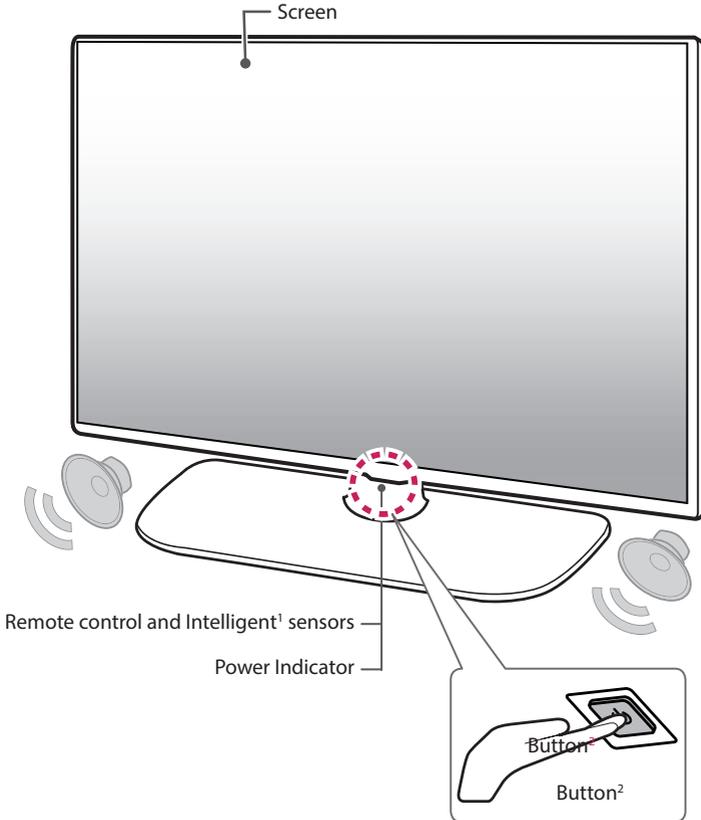
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LOCATION AND FUNCTION OF CONTROLS

Parts and Button

- Image shown may differ from your TV.



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

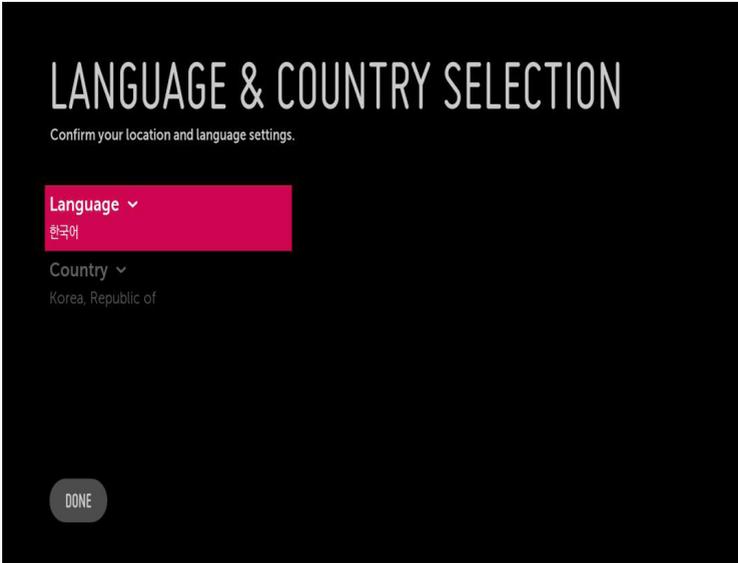
! NOTE

- 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.

LANGUAGE & COUNTRY SELECTION



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

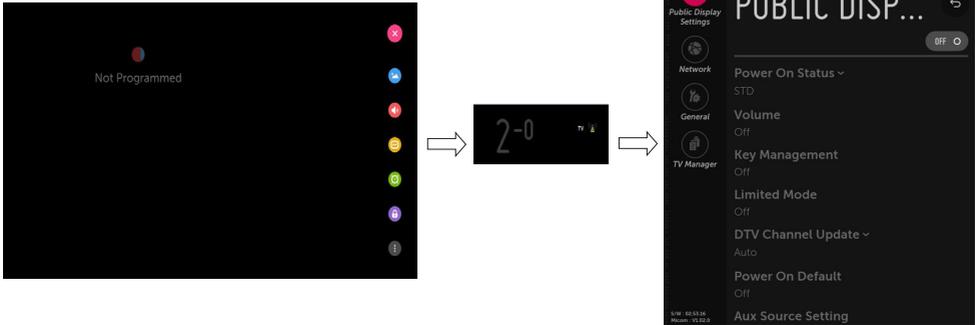
Installation Menu

- Image shown may differ from your TV.

INTRODUCTION

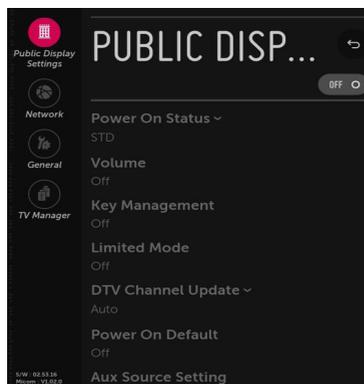
The abundant functions for Hotel TV linked with software installation can be projected on OSD as 'Installation Menu'.

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, Channel 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 ∇ \wedge button to select the desired menu.

PUBLIC DISPLAY SETTINGS



- 1 Use the ∇ \wedge button to select the **PUBLIC DISPLAY SETTINGS**.
- 2 Use the 'OK' button and then ∇ \wedge button to select Public Display Mode.
 - When 'Public Display Mode' is set to On (Work), all functions of Public Display Mode apply.

Public Display Settings Operation

- Decide to work all functions of 'Public Display Mode' or not by setting 'Public Display Mode' as On(Work) or Off(Do Not Work) - When 'Public Display Mode' is set to On(Work), all functions of Public Display Mode apply.
- When 'Public Display Mode' is set to Off(Do Not Work), all functions of Public Display Mode Do Not apply.
- When it is set to 'On', 'Key Lock' item of the User menu is disabled and the OSD is displayed same to the Local Key Operation setting of the Public Display Mode.
- When it is set to 'On', 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 Public Display Mode.
- When it is set to 'On', User Menu \rightarrow General \rightarrow 'Reset to Initial Settings and Demo Mode' are disabled.
- When 'Public Display Mode' is set to On(Work), all skipped programs are not tuned by number keys.
- When 'Public Display Mode' is set to On(Work), Detailed Information about the Channel 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 On(Work) or Off(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' (On) and 'Start Volume' (Off, 0 ~ 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

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

IR Operation

- Decide whether work the LG remote control or not.
 - When 'IR Operation' is set to 'Normal', all remote keys are available.
 - 'Use PWR Only' makes block all remote keys except power key.
 - When 'IR Operation' is set to 'Block All', all normal remote keys don't work.

Local Key Operation

- Decide to operate 'Local/Front Key' working behavior by setting 'Local Key Operation' as 'Normal', 'Use PWR Only' and 'Block All'.
 - When 'Local Key Operation' is set to 'Normal', all local keys are available.
 - 'Use PWR Only' makes block all local keys except power key.
 - When 'Local Key Operation' is set to 'Block All', all local keys don't work.

Limited Mode

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

Setup Menu

- Permit to tune and manage Channels as 'On'(permitted) or 'Off'(not permitted).

Channel Change

- Decide to change channel or not by setting 'Program Change' as 'On'(Change Possible) or 'Off'(Change Impossible) when present source is TV.
 - When 'Channel Change' is set to Off (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.
 - » 'Channel' item in 'On Time' menu will be fixed.
 - » Entering 'Channels' in the 'Main Menu' OSD is impossible regardless of 'Channels' item.
 - When 'Program Change' is set to On(Change Possible), 'Program Key', 'Numeric Key', 'List Key', 'Q.View' Key, 'TV/RAD 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 (On – Enter possible) or not (Off – Enter Impossible).
 - Although select Off(Enter impossible), the action that press a Menu button for 5 seconds to enter 'Installation Menu' is available.
 - When select On(Enter possible), Menu works.

OSD Display

- Decide to display OSD or not by setting 'OSD Display' as On(Display) or Off(Do not Display).
 - When 'OSD Display' is set to 'Off'(Do not Display), all OSD is not displayed except some exception.
 - Although select 'Off' (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 'On', Accessible Items on the menu system, others are not permissible. (Depending on model)
 - » Input select screens
 - » Sleep timer
 - » Aspect Ratio
 - » Caption
 - » Channels (Except for Channel Tuning & Settings and Channel Manager)
 - » 'Safety' / 'Photo & Video' / 'Music' / 'Network' / 'Bluetooth' Menu
 - » Input Manager
 - If the channel map is empty, 'Auto-tuning' guide dialog should be blocked by pressing 'List', 'CH+', 'CH-' keys.

DTV Channel Update

- 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 Channel 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 Channel'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 On(Work) or Off(Do Not Work).
- When 'Power On Default' is set to Off, it is not applied to the subordinate Input, Channel, A/V Setting, Aspect Ratio menu.
- When Power On Default is set to On, it can set by entering the subordinate menu.

Input

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

Channel

- Select start channel number if Input source's value is TV.

A/V Setting

- If 'A/V Setting' is changed from 'Off' to 'On', A/V parameters that are set before entering 'Installation Menu' are applied whenever turn on power.

Aspect Ratio

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

Aux Source Setting

- Set to On(Work) or Off(Do Not Work).
- The Auxiliary (Input) Source Setting feature will enable or disable for each external input.
- User cannot disable the current input's 'Aux Source Setting'.

Power Management

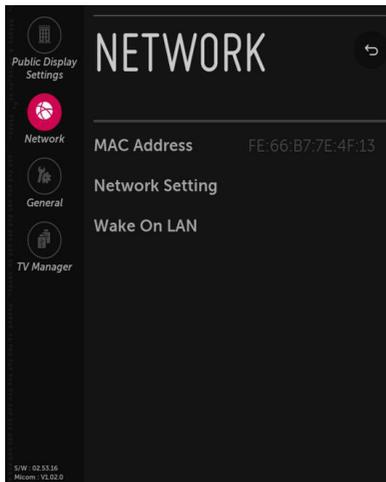
- The Power Management feature will turn off the television receiver if no input control command is received from either the Local or IR Key within a selected hours.
 - Activity on either of these inputs shall reset the 'Power Management' timer and prevent interruption of TV viewing.
 - This entry can be set to a value which is corresponding to the desired hours (1Hour to 7Hours).
 - Default value is 'Off(disabled)'.

Factory Reset

- Change all settings to their default values.

NETWORK

(Depending on model)



- 1 Use the \vee \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.
Advanced Wi-Fi Settings	After connects Wi-Fi, you can set the IP address, subnet mask, gateway and DNS server.

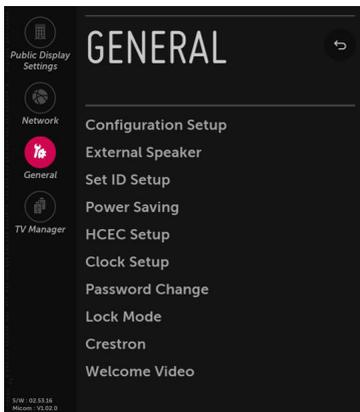
Wake On LAN

- Sets the Wake On LAN function to Enable or Disable.
 - The Wake On LAN feature enables the TV to receive software updates and/or be powered ON upon receipt of Wake Up Frame packets and/or Magic Packet data via the wired LAN. To facilitate use of this feature, note that the appropriate wired connection must be made. ('Wake up Frame' is not supported depending on model)

Server Settings

- Sets the information to connect to the external server.
 - CMS Server (Depending on model)
 - Control Server (Depending on model)

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.

DTV Channel Update

- 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 Channel 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 Channel's information is changed.

On Timer Operation

- It is a mode to select 'On Timer Operation' working one time or repeatedly.
'Once': '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'.

USB Auto Playback

(Depending on model)

- 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.
- 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.
- If it reaches the last file, it starts the first file again

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 'On', 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.

InStant On

(Depending on model)

Set to 'Instant On Mute Mode' or 'Instant On Reboot mode' to enable the Instant ON feature. The Instant ON feature allows the TV to turn ON when AC power is applied, but with video and audio muted (Muted ON). The TV retains its ON status while appearing to be OFF. Pressing the POWER button toggles Off/On the video and audio mutes, so that the TV appears to turn ON instantly.

- If this item is set to Instant On Mute Mode, the TV will not reboot to check for and download updates at turn OFF. TV seems to be turned off to user(panel is off), but both micom and chipset are on.
- If this item is set to Instant On Reboot mode, the TV will reboot to check for and download updates from the Pro:Centric server at every turn OFF.
- If this item is set to Instant On Mute mode or Instant On Reboot mode when 'WORF' is 'Disable', 'WORF' is set to 'Enable' and 'Update Time' is set to auto(random) time. (Depending on model)

DPM

(Depending on model)

- You can configure the DPM (Display Power Management) function.
- If this option is not set to Off, the TV set enters the DPM mode when there is no input signal.
- If you set this option to Off, the DPM function is disabled.

External Speaker

Volume Control

- Selects the volume control method of an external speaker. You can select 'Off', 'Int Variable', 'Fixed', 'Ext Variable' by ^ v 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. 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 1 Watt.

Set ID Setup

Set ID Lock

- Set the 'Set ID' item in 'GENERAL' Menu whether to activate or not.
- Set to On(Work) or Off(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.
- When it is set to 'Enable', User Menu -> Timer -> 'Auto Power Off' is disabled.
- When it is set to 'Enable', User Menu -> Timer -> '2Hour Auto Power Off' is disabled.

HCEC Setup

CEC Mode

- You will have 3 modes to choose [Default], [HCEC] and [TVLink-CEC].
- If [Default] is selected, you can use SIMPLINK which is provided in LG TV. Also you can enable and disable SIMPLINK through SIMPLINK MENU.
- If [HCEC] is selected, you can use TVLink-HCEC Protocol. For more detailed information, please refer to TVLink-HCEC Protocol document)
- 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

- When 'IR Decoding' is set to 'Enable', the TV decodes and changes it into a CEC Message and sends it to Command via the HDMI CEC Line. The default value is Disable.

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 Public Display 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 'Public Display Settings Operation' is set as No, above settings are still effective.

Clock Setup**Clock Source**

- You can select 'Off', 'TV', 'NTP', 'Admin' by pressing \vee \wedge button.
- NTP : Clock is synchronized using Network Time Protocol. It's only enabled when network cable is connected.
- Admin : It's automatically set to Admin when clock is updated by commercial protocols like TVLink-HCEC, TVLink-Interactive, or HCAP API.
- Off : Clock is synchronized using any available clock source.
- TV : Clock is synchronized using particular TV program.

* Input (Depending on model)

- You can select 'Input' according to 'Clock Source'.
- You can select TV source when Clock Source is 'TV'.
- Input is set to 'None', 'HCAP', 'Protocol', 'HTNG' automatically when Clock Source is 'Admin'.

* Program/Frequency (Depending on model)

- You can select Program when Clock Source is 'TV'

* **Timezone(City)/Timezone(Custom)/Timezone(Offset) (Depending on model)**

- 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 ~ +14Hrs. (Timezone(Offset) range is -12Hrs ~ +12Hrs)

Password Change

- To ensure more security, Password can be changed by installers' own design.

- 1 Change password by using virtual keyboard.
- 2 Input the password again for confirmation.

Lock Mode

- If 'Lock Mode' is 'Yes', the following features will be unavailable.
 - * USB
 - If it is set to 'Enable', USB devices do not work in relative features. (Exclude S/W update).
 - * Factory Reset
 - If it is set to 'Enable', User Menu -> General -> 'Reset to Initial Settings' is disabled.

Crestron

(Depending on model)

- This function enables synchronization with applications provided by Crestron.
- Server: This menu sets the server's IP address for the network connection with the server (equipment provided by Crestron).
- Port: This menu sets the port for the network connection with the server. The default port number is 41794.
- IP ID: This menu sets a unique ID for synchronizing with the application.

Welcome Video

- * Welcome video Mode
 - You can set to Off, Once or Repeat
- * Video Download
 - You can download video file from USB
 - Video file locate LG_DTV folder

- * Reset
 - Delete Downloaded video file
- * Operation
 - The video displays after your TV is turned on and the boot logo appears
 - If Welcome Video is enabled and a video is downloaded on the TV, the video plays
 - The time it takes a video to be displayed may differ depending on the decoding time of the video.
 - Controls for playing the video are not available. (Pause, stop, fast forward, etc.)
 - Videos in any file format that the TV supports can be downloaded and displayed.

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 Channel 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 "Import Clone File" and "Export Clone File" 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.

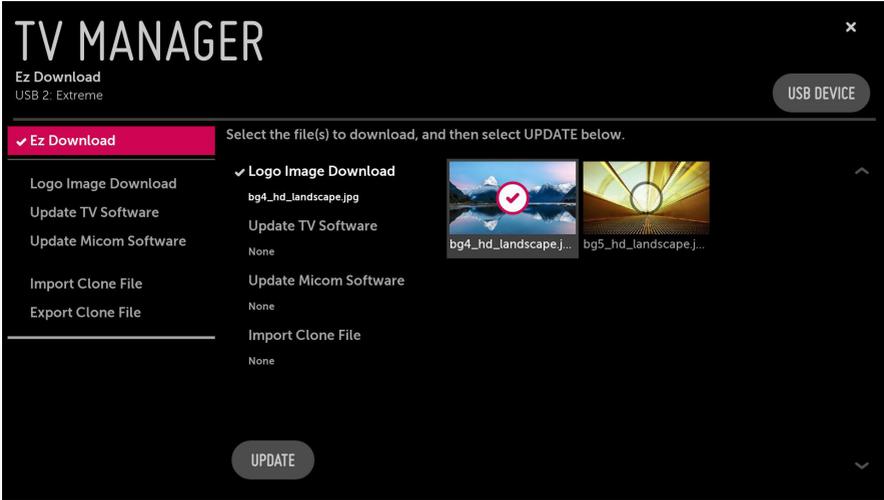
3 Input Source

: The user needs a USB memory card with FAT formatted to make successive cloning via USB port.

! 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.

Ez Download

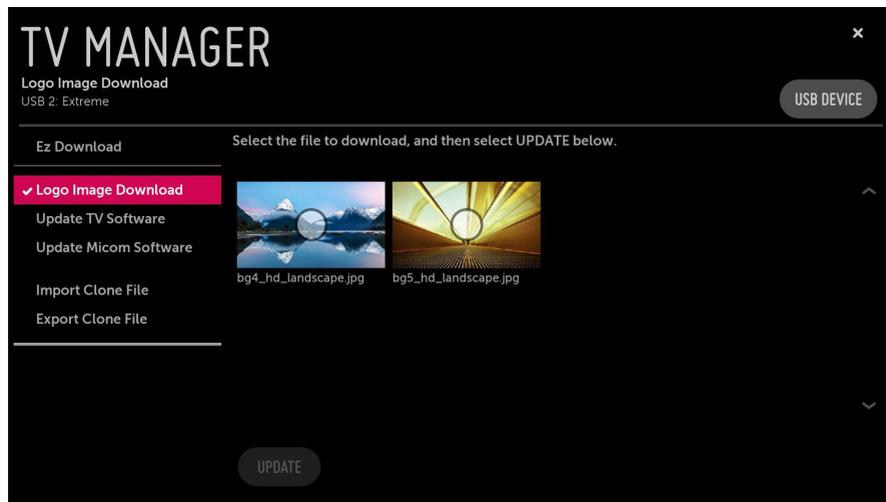


- Ez Download is a function that enables users to download the desired items all at once, such as EPK (software update file), TLL, Logo Image, Background Images, Micom.
- * Images and EPK files should be copied into the folder named LG_DTV on the USB.
- TLL files should be copied to the root folder of the USB.
- If you press 'EZ Download' menu, EZ Download is launched.
- 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 Image, Background Images, 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

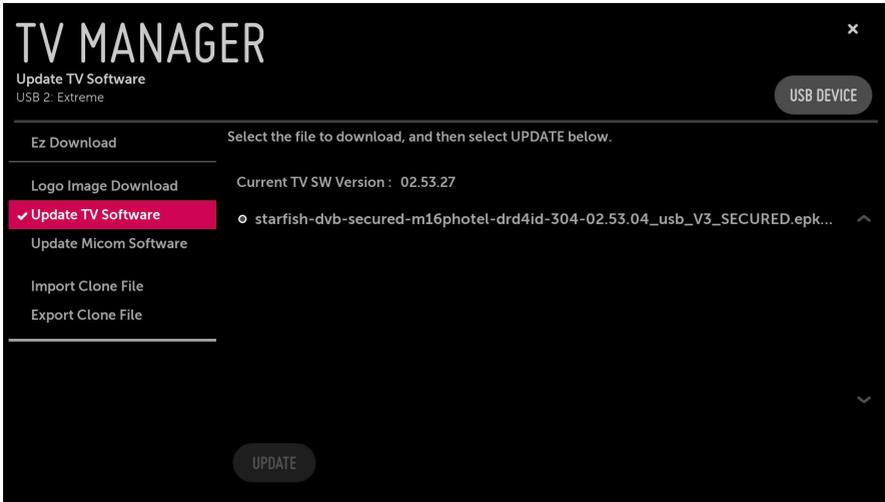


- If there are more than two USB Memory Device, It is possible to select the USB.
- The download sequence is Logo Image Download -> Select Image -> UPDATE.

! NOTE

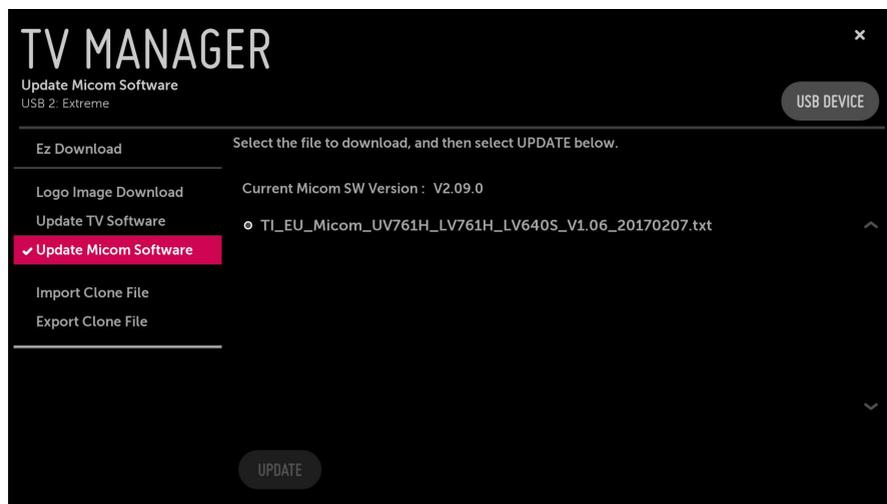
- Splash Image update function supports only JPEG,BMP format file of less than 8 MB filesize.
- We recommend you that splash image resolution match the TV's panel resolution.
- Max resolution of splash image : Full HD → 1920 x 1080, HD → 1360 x 768.
- Min resolution of splash image : Full HD → 64 x 64, HD → 64 x 64.
- TV keep splash image until you change a new splash image.
- The target file is located in %WLG_DTV folder.

Update TV Software



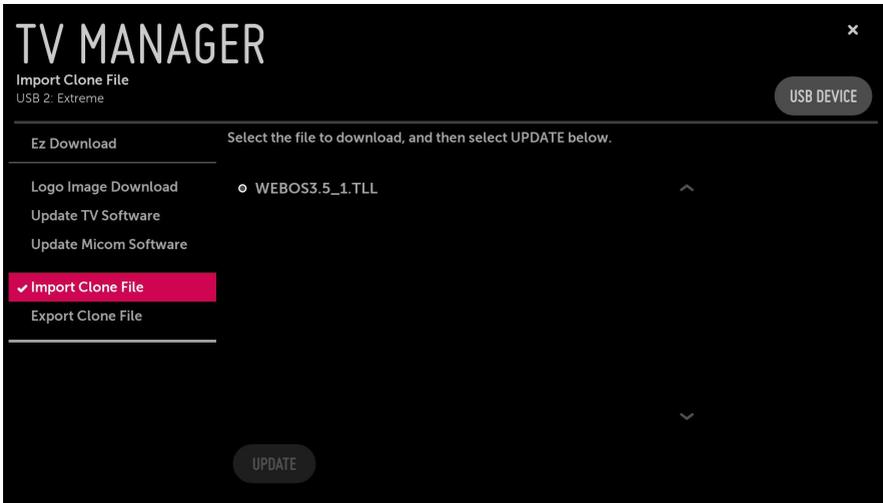
- This feature update EPK of TV through the hex file in USB. The target file is located in \LG_DTV folder.
- If there are more than two USB memory Device, It is possible to select the USB.
- The download sequence is Update TV Software -> Select file(EPK) -> UPDATE.

Update Micom Software



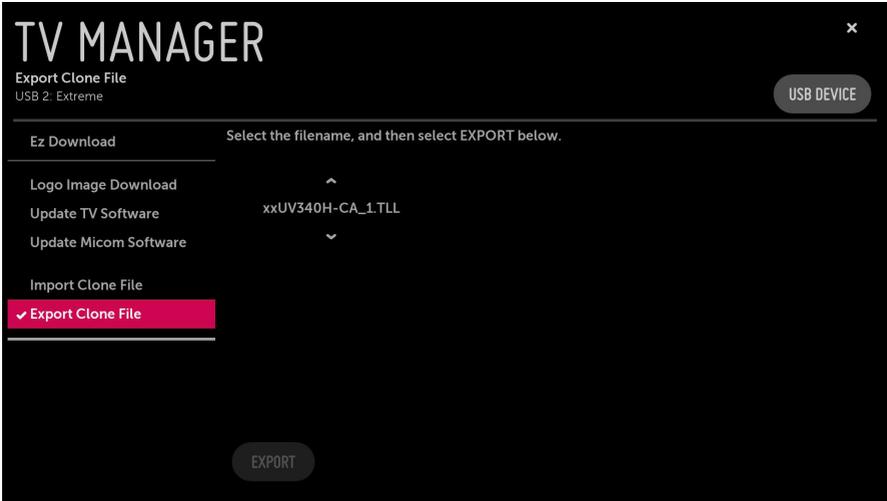
- This feature update MICOM of TV through the txt file in USB. The target file is located in \LG_DTV folder
- If there are more than two USB memory Device, It is possible to select the USB.
- The download sequence is Update Micom Software -> Select file(Micom) -> UPDATE.

Import Clone File



- Once the internal TV data and its channel map information is written to the USB memory card, the user can start "Import Clone File" process with the data file generated and stored in USB memory card. As previously warned in "Export Clone File" process, the user should not turn TV off nor unplug the USB memory card. The following images might be slightly different than the OSD image.

Export Clone File



- "Export Clone File" must be done first before "Import Clone File" process, as it generate the file to be used in "Export Clone File". While writing is in process, the user must not turn TV off nor unplug the USB memory card. The following images might be slightly different than the OSD image.

