Hospital Grade Interactive Pro:Centric® TVs

Commercial Mode Setup Guide

Note: Selected features shown in this guide may not be available on all models.

EXPERIENCED INSTALLER

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MODEL and SERIAL NUMBER
The model and serial numbers of this TV are located on the back of the cabinet. For future reference, LG suggests that you record those numbers here:

Model No._________________ Serial No._______________

WARNING:
TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING:
This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

POWER CORD POLARIZATION:
This product is equipped with a 3-wire grounding-type alternating current power plug. This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the 3-wire grounding-type plug.

NOTE TO CABLE/TV INSTALLER:
This reminder is provided to call the cable TV system installer’s attention to Article 820-40 of the National Electrical Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

CAUTION:
Do not attempt to modify this product in any way without written authorization from LG Electronics U.S.A., Inc. Unauthorized modification could void the user’s authority to operate this product.

COMPLIANCE:
The responsible party for this product’s compliance is: LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs, NJ 07632, USA • Phone: 1-201-816-2000
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination in order to avoid injury from tip-over.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Never touch this apparatus or antenna during a thunder or lightning storm.
15. Do not apply pressure on or scratch the TV panel during handling. Do not press against the TV panel with your hand or a sharp object such as a nail, pencil, or pen.
16. Power Cord
Caution: Check the TV specifications in the Owner’s Manual to determine power requirements. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as twisting, kinking, or pinching or being closed in a door or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. Do not use a damaged or loose power cord. Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV. Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.
17. Overloading
Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in fire or electric shock.
18. Outdoor Use/Wet Location
Warning: To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles or expose the TV to direct air conditioning. Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc., on or over the apparatus (e.g., on shelves above the unit).
19. Grounding
Ensure that you connect the earth ground wire to prevent possible electric shock (i.e., a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.
20. Disconnect Device
The power plug is the disconnecting device. The power plug must remain readily accessible. As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.

(Continued on next page)
21. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, follow the precautions below.
An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits or where it can come into contact with such power lines or circuits as death or serious injury can occur.
Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
Article 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to NEC, ANSI/NFPA 70

22. Cleaning
When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzene.

23. Transporting Product
Make sure the TV is turned off and unplugged and that all cables have been removed. It may take two or more people to carry larger TVs. Do not press against or put stress on the front panel of the TV.

24. Ventilation
Install the TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the TV with cloth or other materials (e.g., plastic) while it is plugged in. Do not install in excessively dusty places.

25. If you smell smoke or other odors coming from the TV or hear strange sounds, unplug the power cord, and contact an authorized service center.

26. Keep the product away from direct sunlight.

27. When mounting a TV on the wall, make sure that none of the electrical cabling bears any of the weight of the TV. Install in accordance with the manufacturer’s instructions.

28. Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.

29. Do not allow an impact shock or any objects to fall into the product, and do not drop objects onto the screen.

30. Do not touch the ventilation openings, as they may become hot while the TV is operating. This does not affect the performance of the product or cause defects in the product.

31. Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.

32. Dot Defect
This panel is an advanced product that contains millions of pixels. In a very few cases, you could see fine dots on the screen while you are viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.

33. Generated Sound
“Cracking”: A cracking noise that occurs while the TV is on or when it is turned off is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required. Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product. This generated sound does not affect the performance and reliability of the product.

34. If the TV feels cold to the touch, there may be a small “flicker” when it is turned on. This is normal; there is nothing wrong with the TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV’s performance. Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

35. Displaying a still image for a prolonged period of time may cause image burn-in. Avoid displaying a fixed image on the TV screen for an extended length of time.
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Notes
• Installer Menu content is intended for use primarily by qualified TV electronics technicians.
• Refer to the applicable Owner’s Manual and/or Easy Setup Guide for additional information on TV installation, specifications, maintenance, and safety instructions.
• Design and specifications subject to change without prior notice. This document provides examples of typical TV displays. Your displays may vary from those shown in this document.
Commercial Mode Overview

This document describes how to set up LT572M Pro:Centric® TVs for Commercial Mode operation. LG commercial TV functionality is based on “ownership” of the Channel Map; that is, the Channel Map resides in the TV’s CPU, Protocol Translation Controller (PTC), or embedded b-LAN™ (EBL) module, or it resides in a Pro:Centric application or an external device from the solution provider.

These TV models support several different operational modes: LG’s Free-To-Guest (FTG) Mode via the TV CPU, FTG Mode via the TV’s EBL module, or Pass-through Mode (default). When in Pass-through Mode, these TV models can also be externally controlled via Multiple Protocol Interface (MPI) or—for 32/43LT572M TVs only—TV-Link Tuner (TLT) interface (RS-232C).

Setup Checklist

Note: This document provides information specific to Commercial Mode operation. Refer to the Owner’s Manual for information on TV installation and hardware and cable connections.

Installation
__  Unpack TV and all accessories.
__  Install batteries in the Installer Remote.
__  Install TV on VESA mount or stand.
   Note: It may be advisable to make all cable connections before installing on VESA mount or stand, as appropriate.

Hardware Connections
__  Install any additional hardware as appropriate to your institution, LAN, etc.

Cable Connections
__  Make all rear jack panel connections, as appropriate.

Commercial Mode Setup
__  Complete appropriate procedures as described in this document for Commercial Mode operation.

Pass-through Mode

This mode allows you to configure individual TVs for Pro:Centric and/or FTG Mode via CPU operation or create a Master TV Setup for cloning purposes. This mode also allows external control via either the GAME CONTROL/MPI port or—for 32/43LT572M TVs only—the TLT (RS-232C) port on the TV rear jack panel.

There are three methods for configuring individual TVs that are currently in Pass-through Mode: using one of the two LG First Use Wizard options or using the Custom Master TV Setup procedure.

LG First Use Wizard Configuration

When the TV is in a factory default state, the LG First Use Wizard provides the following two configuration options. See “First Use Wizard” on pages 12 to 13 for further information.

• The EZ-Manager Wizard provides automated or manual options for configuring Pro:Centric operation and also provides the option to configure the TV using a USB memory device.

• The Express Script provides streamlined configuration of the TV for FTG Mode via CPU operation with Hospital Mode features (including pillow speaker setup) and also provides the option to configure the TV for Pro:Centric operation.

Custom Master TV Setup

Unlike the guided process above, the Custom Master TV Setup procedure enables you to create a customized Master TV Setup for cloning purposes for TVs that are to remain in Pass-through Mode. Use the Installer Remote to configure Installer Menu items as required for TV operation and set up TV features (Channels, Picture, Sound, etc.). See “Custom Master TV Setup” on pages 47 to 49 for detailed information.
Installer Menu
To create a Master TV Setup, you will need to know how to access the commercial controller (PTC) Installer Menu and make changes to the default values as required. If necessary, familiarize yourself with the Installer Menu and how to make and save changes. See pages 35 to 46 for information on accessing the Installer Menu and for detailed descriptions of the Installer Menu items.

TV Setup Menus
On-screen setup menus control the features of the TV. Use the Installer Remote to access the TV setup menus, and set the TV features to the desired configuration for the end user.

Cloning
Cloning refers to the process of using a Master TV Setup to configure a Target TV. The Master TV’s clonable setup menu features should be configured as part of the Master TV Setup. If there are features in the Master TV’s setup—channel icons or labels, digital font options, etc.—that are not set or that are set incorrectly, those features also will not be set or will be set incorrectly in the Target TVs. See pages 50 to 55 for detailed information on Clone (.tlx) files and cloning requirements and procedures.

External MPI Control
To control the TV using an external MPI control device, you must use the TV’s GAME CONTROL/MPI port for communication purposes. In these TVs, Installer Menu item 118 POWER SAVINGS controls the power circuitry for both the embedded b-LAN module and the GAME CONTROL/MPI port; therefore, to ensure that the GAME CONTROL/MPI port circuitry is powered, thus enabling MPI communication, Installer Menu item 118 POWER SAVINGS must be set appropriately. See Installer Menu item descriptions as well as Reference section, “b-LAN Setup & Overview,” for further information.

To control the TV (32/43LT572M TVs only) using an external TLT control device, you must use the TV’s RS-232C port for communication purposes. See Reference section, “TLT Communication Parameters,” for further information.

FTG Mode
In this mode, an FTG Channel Map enables the decryption of each Pro:Idiom® encrypted channel. The FTG Channel Map also provides logical channel mapping of physical RF channels (digital and analog) and Aux inputs. The method for creating the FTG Channel Map is ultimately determined by which element of the TV will “own” the FTG Channel Map—the CPU or the EBL.

For these TV models, there are two FTG Modes—FTG Mode via CPU and FTG Mode via EBL—which are separate and distinct FTG Modes of operation, each with its own unique advantages and requirements, as outlined below.
When the TV CPU is configured with an FTG Channel Map, the CPU controls and restricts the tuning operation of the TV, and when the EBL is configured with an FTG Channel Map, the EBL controls and restricts the tuning operation of the TV. In these models, FTG Mode via CPU also provides the option to select either logical or physical tuning (see note below) during configuration. You must determine which element of the TV will own the FTG Channel Map before you can begin configuration.

**Note:** Logical channel mapping of physical RF channels eliminates dash tuning; for example, physical 19-3 can be mapped to logical channel 9. It also allows physical RF channels and Aux inputs to be listed in any order, not only in physical numeric ascending order. Physical channel tuning requires that you include the dash when direct entering RF channel numbers and Aux inputs (the latter designated by 130-0 through 137-0).

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**FTG Mode via CPU**

This mode provides the following features:

- Logical or physical channel tuning of physical RF channels and Aux inputs.
- Mapping of RF channels with minor (program) numbers up to 999.
- FTG Channel Map of up to 600 channels.
- Start Channel set for RF or Aux input delivered content.
- Pro:Centric data delivery over RF.
- TV Zoning (including channel restrictions by Zone) option for location-specific configurations.

LG’s Cloud Configuration Tool enables you to create an FTG Configuration (.tlx) file, which may be used to configure the CPU for FTG Mode. You can also create a Clone (.tlx) file from a Master TV Setup that may be used to configure the CPU for FTG Mode.

**Note:** The TV Zoning feature is supported via ".tlx" file. See Reference section, “Using the TV Zoning Feature,” for further information.

In this mode, the CPU is the owner of the FTG Channel Map and must be configured with an FTG Channel Map and FTG Installer Menu settings using one of the following processes:

- **Local:** Configure an individual LT572M TV via its USB port using a USB memory device / ".tlx" file. The file may be either a Clone file (see Cloning Procedures” on pages 50 to 55) or an FTG Configuration file (see “Cloud Configuration Tool Overview” on pages 56 to 62).
- **Remote:** Configure all LT572M TVs at the site using a Pro:Centric server head end device (Example: PCS400R). Refer to the Pro:Centric Server Admin Client User Guide for further information.

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**FTG Mode via EBL**

This mode provides the following features:

- Logical channel tuning of physical RF channels and Aux inputs.
- Mapping of RF channels with minor (program) numbers up to 255.
- FTG Channel Map of up to 141 logical channels.
- Start Channel set for RF or Aux input delivered content.
- Pro:Centric data delivery over RF.

LG’s FTG Device Configuration Application PC software is required to configure the EBL. In this mode, the EBL is the owner of the FTG Channel Map and must be configured with an FTG Channel Map and FTG Installer Menu settings using one of the following processes:

**Note:** In order to create an FMA Configuration (.fma) file for these models that can be used for remote management of FTG Installer Menu settings, you will need to “Read” FTG Installer Menu settings from a Master TV. See Reference section, “FTG Mode via EBL (Local Configuration),” for further information.

- **Local:** Configure an individual LT572M TV’s EBL via its TV-LINK CFG jack using a direct PC-to-TV (EBL) connection and the FTG Device Configuration Application. See Reference section, “FTG Mode via EBL (Local Configuration),” for information on the “Write” process for an FTG Channel Map and FTG Installer Menu settings.
- **Remote:** Configure all LT572M TV EBLs at the site using a Free-To-Guest Management Appliance (FMA) head end device (Example: FMA-LG102). Refer to the Free-To-Guest (FTG) Device Configuration Application User Guide and/or the Installation & Configuration Guide for the FMA device for further information.
While the TV is in FTG Mode:

- Users can still access the Installer Menu using an LG Installer Remote; however, all Installer Menu items will be read-only.

- FTG Mode via CPU configuration changes must be made using a ".tlx" file (typically edited in the Cloud Configuration Tool), while FTG Mode via EBL configuration changes must be made using the FTG Device Configuration Application. Channel Map and Installer Menu configuration utilities in both applications enable you to make changes, respectively, to the FTG Channel Map and FTG Installer Menu settings as necessary. Based on the initial method used to configure the TV for FTG Mode operation (via CPU or EBL), all subsequent changes must be transferred to either the TV CPU or the EBL via a process that is in accordance or compatible with that method (see information on local configuration in this document or refer to documentation for the head end device/server for information on remote management).

- If it becomes necessary to restore the TV to Pass-through Mode, there are several options that will enable you to do so. See Reference section, “Restoring Factory Defaults on the TV(s),” for further information.

Pages 56 to 62 provide overviews of the utilities that comprise the Cloud Configuration Tool. Refer to the Cloud Configuration Tool User Guide for further information on the Cloud Configuration Tool. Refer to the Free-To-Guest (FTG) Device Configuration Application User Guide for information on the FTG Device Configuration Application.

Remote Management in FTG Mode

When the TV is configured for FTG Mode via CPU, remote management of the FTG Channel Map and FTG Installer Menu settings is provided by a Pro:Centric server, via a Clone/Configuration (.tlx) file loaded on the Pro:Centric Admin Client. See the Pro:Centric Server Admin Client User Guide for further information.

When the TV is configured for FTG Mode via EBL, the b-LAN module, which is internal to the TV, allows hospital/institution head end equipment (for example, an FMA-LG102) with b-LAN technology to provide remote management of the FTG Channel Map and FTG Installer Menu settings. See Reference section, “b-LAN Setup & Overview,” for further information.

Determining the TV Operating Mode

To determine the operating mode of the TV, press MENU on the Installer Remote. The menu displayed depends on the operating mode. See examples below.

If the Function Menu appears, the TV is in a mode (FTG, PPV, etc.) that does not allow the end user to change the fundamental TV setup. If the TV setup menus appear, the TV is in Pass-through Mode.
Interactive Menu Features

LG’s Pro:Centric Java (GEM) application enables patients and visitors to locate and select television entertainment using an interactive channel guide, check the daily weather, view hospital and surrounding amenities, etc. via custom portal interactive menus. The application provides multiple templates for portal interactive menus.

Pro:Centric application features include:

• Portal and information screens/pages (including a “Welcome” page) that include branding logos.
• An optional customized user interface (custom “skins”).
• Billboards and points-of-interest maps that can be customized to focus on hospital amenities, local attractions and businesses, restaurants, news, events, etc.
• An optional Weather billboard that includes a local radar map, current conditions, and a four day forecast.
• An interactive channel guide that provides a channel list with channel icons. An electronic program guide (EPG) is an optional feature that displays up to three days of programming information viewable by channel and time.
• Video spooling that enables the hospital to deliver a video file to patients and visitors TVs for promotion and information purposes.

The Pro:Centric Admin Client web editor/content wizard is provided for customer configuration of portal content.

Note: Customized content is typically defined by the service integrator and/or hospital administrators. LG does not provide hospital-specific content.

Interactive Menu Navigation

LG’s Pro:Centric pillow speaker provides access to both interactive menus and regular TV features. Press PORTAL on the Pro:Centric pillow speaker to access the interactive menus.

Example: Pro:Centric Java (GEM) Application Portal

Note: Interactive menu options may vary, depending on Pro:Centric features enabled for the site. This example shows typical portal interactive menus.
Pro:Centric Java Application Setup

The Pro:Centric Java (GEM) application operates in conjunction with FTG and PPV Modes. This section provides an overview of the setup required for the Pro:Centric features. Administration and management options for the Pro:Centric server are described in detail in the Pro:Centric Server Admin Client User Guide. This document describes only those settings that must be specified on the TVs to enable Pro:Centric remote management and/or the Pro:Centric application.

- Remote management (TV E-Z Installation): The Pro:Centric Admin Client provides remote management facilities for downloading boot logo image and software updates as well as facilities for downloading a Clone/Configuration (.tlx) file for FTG Mode via CPU configuration.
- Pro:Centric application: The application comprises the Pro:Centric interactive menus/features described on the previous page. Pro:Centric application settings are managed via the Pro:Centric Admin Client for the Java application.

The Pro:Centric remote management facilities and application download are based on Installer Menu item settings that are used to set up the TV’s Pro:Centric features. The Installer Menu / Pro:Centric server settings can be configured using one of the methods described below.

Note: If using a Pro:Centric pillow speaker, also set Installer Menu item 027 HOSPITAL MODE to the required value.

TV in Factory Default State

When the TV is in a factory default state, LG’s First Use Wizard provides automated or manual options for configuring the TV’s Pro:Centric server settings. See “First Use Wizard” on pages 12 to 13 for further information. The First Use / EZ-Manager Wizard also provides a USB configuration option that enables you to configure a TV for FTG Mode via CPU using a Clone/Configuration (.tlx) file stored on a USB memory device. The “.tlx” file incorporates FTG Installer Menu settings, including Installer Menu items 098 PRO:CENTRIC and 119 DATA CHANNEL, which are used to set up the TV’s Pro:Centric feature.

TV in Pass-through Mode

If the First Use Wizard has been exited and the TV is in Pass-through Mode, set Installer Menu items 098 PRO:CENTRIC and 119 DATA CHANNEL to the appropriate values. See Installer Menu information on pages 35 to 46 for further details. Also, as necessary, refer to “Custom Master TV Setup” on pages 47 to 49 and/or cloning information on pages 50 to 55.

Note: When the TV is in either Pass-through Mode or FTG Mode via CPU, you can also leave Installer Menu item 119 DATA CHANNEL set to its default value (255) to enable the TV’s Data Channel Auto Search feature to set the DATA CHANNEL value. See item 119 description on page 45 for additional information.

TV in FTG Mode

If the TV is already in FTG Mode (via CPU or EBL), use the appropriate FTG application to update Installer Menu items #98 Pro:Centric and #119 Data Channel (along with their affiliated fields). Then, transfer the FTG Installer Menu settings to the TV in accordance with the FTG Mode of configuration. Refer to the FTG Mode overview on pages 7 to 9 for further information on FTG Mode operation and configuration. Also—for FTG Mode via CPU only—see note above regarding the option to use the TV’s Data Channel Auto Search feature to set the DATA CHANNEL value.
The LG First Use Wizard, comprising EZ-Manager Wizard and Express Script configuration options, will appear on the screen each time the TV is turned ON, until one of its configuration methods has been completed or the wizard is exited. Use the Installer Remote to make selections and complete each step.

• The primary purpose of the EZ-Manager Wizard is to guide you through the process (automated or manual) of configuring the essential Installer Menu items for Pro:Centric operation. However, while intended primarily for Pro:Centric-related configuration, the EZ-Manager Wizard also offers Zoning options. LT572M TVs support the (Lodging) TV Zoning feature, which enables location-specific configurations. See Reference section, “Using the TV Zoning Feature,” for further information. The EZ-Manager Wizard enables you to set the TV Zone # in the TV as part of the configuration process.

The EZ-Manager Wizard also enables you to access the TV Manager / USB download options as part of the configuration process, if desired, to perform USB configuration and/or update functions. See “EZ-Manager Wizard” on pages 14 to 21 for further information.

• The Express Script guides you through the process of configuring the TV for FTG Mode via CPU operation with Hospital Mode features. This includes setting up the pillow speaker, as required, as well as setting up channel banks (up to four) for tiered channel programming. The Express Script also enables you to configure the Pro:Centric settings on the TV. See “Express Script” on pages 22 to 30 for further information.

Caution: Do NOT unplug the TV power cord or remove the antenna cable or, if applicable, the LAN cable during the configuration process, as doing so will interrupt the current step and may corrupt the configuration data.

Note: If you do not intend to complete the Express Script, but you wish to enable Hospital Mode (pillow speaker functionality and also channel banks), you must set Installer Menu item 027 HOSPITAL MODE appropriately. See the “Installer Menu” section of this document for further information.

Before You Begin

• If you plan to create a customized Master TV Setup using the procedure described on pages 47 to 49, be sure to exit the LG First Use Wizard in order to avoid setup conflicts or setting modes that may cause unintended behavior or restrict the custom setup procedure. See also “Initiate Configuration or Exit the LG First Use Wizard” below.

• If it has been completed or exited and therefore does not display, the First Use Wizard can be reactivated; however, this requires that you restore the TV to a factory default condition. See Reference section, “Restoring Factory Defaults on the TV(s),” for further information.

Initiate Configuration or Exit the First Use Wizard

The Welcome screen provides a brief introduction to the First Use Wizard.

Note: Once you proceed with one of the configuration options, it is not possible to return to the First Use Wizard Welcome screen; however, if you simply wish to exit the EZ-Manager Wizard or Express Script (depending on your selection from the First Use Wizard Welcome screen), you can do so by selecting the “Exit” button from the subsequent screen(s).
Welcome to the First Use Wizard

This wizard features two different setup options:
• The EXPRESS SCRIPT provides streamlined configuration of the TV for Free-To-Guest (FTG) via CPU operation (including pillow speaker setup). The Express Script also provides the option to configure the TV for Pro:Centric operation.
• The EZ-MANAGER provides automated or manual options for configuring Pro:Centric operation. The EZ-Manager also provides the option to configure the TV using a USB memory device.

Select the desired option, or exit this First Use Wizard to perform a custom setup.

Use the arrow keys on the Installer Remote to select the desired option in the Welcome screen:

• To proceed with the EZ-Manager Wizard, select/highlight EZ-Manager, and then press OK. Then, continue to the "EZ-Manager Wizard" section on pages 14 to 21.

• To proceed with the Express Script, select/highlight Express Script, and then press OK. Then, continue to the "Express Script" section on pages 22 to 30.

• To exit the First Use Wizard, select/highlight Exit, and then press OK. In the confirmation pop-up window, select OK, and then press OK once more on the Installer Remote.

Note: Both the EZ-Manager Wizard and the Express Script enable you to configure Pro:Centric settings on this TV, even if you do not intend to configure any of the additional settings available. After you configure the Pro:Centric settings, you will have the option to exit without completing the remainder of the EZ-Manager Wizard or Express Script (as applicable), if desired.

Note: If you exit the First Use Wizard from this Welcome screen, no configuration will be performed and all Installer Menu items will retain their default values, including Installer Menu item 119 DATA CHANNEL. The default DATA CHANNEL setting (255) means that the Pro:Centric remote management feature on this TV will be activated if a Pro:Centric server is installed and the Data Channel value is set during a Data Channel Auto Search (see item 119 description on page 45 for additional information). If you actually would like to disable the Pro:Centric feature, both the EZ-Manager Wizard and the Express Script provide an option to do so, and/or you may disable Pro:Centric by modifying the value of Installer Menu item 119.
**EZ-Manager Wizard**

**Initiate the EZ-Manager Wizard**

After you select the “EZ-Manager” option from the First Use Wizard Welcome screen, an EZ-Manager Welcome screen provides a brief introduction to the EZ-Manager Wizard.

**Note:** Each EZ-Manager Wizard step is allotted a time frame after which the wizard proceeds without user interaction. If the Pro:Centric server is configured on the system/network and if no location-specific settings are required in the TV, for example, TV Zone, Label, and/or Room Number settings, once initiated, the wizard will proceed through each of the configuration steps with no further user interaction.

From the EZ-Manager Welcome screen, you have the following options:

- To proceed with the EZ-Manager Wizard, use the arrow keys on the Installer Remote to select **Next**, and then press **OK**. Then, continue to the “TV Configuration Options” section below.

- To exit the EZ-Manager Wizard, but retain the use of the Pro:Centric remote management feature on this TV (i.e., Installer Menu item 119 DATA CHANNEL set to 255) in the future, use the arrow keys on the Installer Remote to select **Exit**, and then press **OK**. In the confirmation pop-up window, select **OK**, and then press **OK** once more on the Installer Remote.

- If you do not intend to install a Pro:Centric server on this system and you do not wish to use the wizard’s Zoning or USB configuration options, exit the wizard as follows: Use the arrow keys on the Installer Remote to select **No Pro:Centric**, and then press **OK**. This will disable the Pro:Centric feature of this TV (i.e., Installer Menu item 119 DATA CHANNEL will be set to 0) and exit the wizard. In the exit confirmation pop-up window, select **OK**, and then press **OK** once more on the Installer Remote.

**TV Configuration Options**

In the TV Configuration Options screen, you can choose how to proceed with the configuration of this TV (assuming you do not opt to exit the wizard, which you may also do at any time).

**Note:** If you intend to use the Zoning feature on the TV for location-specific configuration purposes, select the “Zone & Room Number” option from this screen and set the appropriate TV Zone # in the TV BEFORE you continue with additional configuration.

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**Note:** If there is no user action in this screen within one minute, the wizard will automatically continue to the next configuration step.

Use the Left/Right arrow keys on the Installer Remote to navigate between options on this screen. Each time you select/highlight one of the following options, the screen text and fields will change in accordance with your selection.

- To continue with Pro:Centric configuration, select **Next** (default) and press **OK** on the Installer Remote. See “Configure Pro:Centric Settings” on pages 16 to 19 for additional information.

- To set the Zoning feature on the TV, select **Zone & Room Number**. See “Zone and Room Number Assignments” below for further information.

- To access the TV Manager / USB download options, select **USB Configuration**. See “USB Configuration” on pages 19 to 21 for further information.

**Note:** If you choose to exit the EZ-Manager Wizard from this point on, you will have the option to save any settings made by selecting **Save and Exit** in the exit confirmation window. Or, you can exit the wizard without saving any settings by simply selecting **OK** in the confirmation window.

**Zone and Room Number Assignments**

You may complete one or more of the fields in the Zone, Label, and Room Number screen or leave them at their default settings (Zone) or blank (Label and Room Number), as desired. However, if you intend to use the Zoning feature on this TV, you MUST specify the appropriate value in the Zone field as described below. See also Reference section, “Using the TV Zoning Feature,” for further information.

(Continued on next page)
Note: The TV Zoning feature is only applicable for TVs that will be configured using a ".tlx" file (local or remote configuration). Also, this feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See also item 027 description on page 41.

1. Complete the appropriate field(s) as described below. Use the Left/Right arrow keys on the Installer Remote to navigate between each of the fields.

   • Zone: Enables you to set a TV Zone # so that the TV can be configured with Installer Menu and/or Setup Menu settings intended only for the assigned Zone. The Installer Menu and/or Setup Menu settings may be provided in a Clone/Configuration (.tlx) file. If the TV is being configured for FTG Mode via CPU, the TV Zone # setting also allows the TV to omit channels that have been restricted in the FTG Channel Map.

      To change the TV Zone from its default value (0), navigate to the Zone field at the left of the screen, and use the Up/Down arrow keys to specify the desired TV Zone # (1–8).

   • Label: Allows you to select a North, South, East, or West text label for this TV. In the Label field, use the Up/Down arrow keys to select the applicable label.

   • Room Number: Allows you to specify the number of the room—up to 16 characters—in which the TV is located. In the Room Number field, you can use the number keys on the Installer Remote to direct enter a room number. Use the Dash key on the Installer Remote as necessary to toggle between number and letter characters in the Room Number field. Also, you can use the Flashback key on the Installer Remote to delete characters in this field.

2. When you are ready to continue, select the appropriate option, as follows:

   • To proceed to the next EZ-Manager screen, use the arrow keys to select Next, and then press OK on the Installer Remote. Continue to “Configure Pro:Centric Settings” below.

   • To use a USB memory device to complete the configuration, select USB Configuration. See “USB Configuration” on pages 19 to 21 for further information.

Configure Pro:Centric Settings

Once you select “Next” from the TV Configuration Options screen, the Searching for Pro:Centric Server screen is displayed.

Note: Select the “Back” button, where available, to check previous settings, as necessary. Also note that if any of the configuration steps fails, you will see a “Diagnostics” screen with an indication of the failure. You will then have the opportunity to reinitiate the configuration process from the previous screen or exit the EZ-Manager Wizard.
You have the following options:

- You can allow the EZ-Manager Wizard to proceed with a series of automated steps to configure the TV for Pro:Centric operation and then to look for the Pro:Centric application and maintenance (E-Z Installation) files to download. In this case, the wizard uses a search algorithm to determine the Data Channel and the Pro:Centric Application Mode to set in the TV.
  Continue with the “Automated Pro:Centric Configuration” subsection below.

- If you already know the settings (e.g., Data Channel and Pro:Centric Application Mode) that need to be configured in order for the TV to connect to the Pro:Centric server and/or if the Pro:Centric server is not yet installed, you may expedite the setup process by entering this data manually.
  Continue with the “Manual Pro:Centric Configuration” subsection on page 18.

Automated Pro:Centric Configuration

**Note:** If the server is not yet configured on the system, use the manual configuration option to configure the TV’s Pro:Centric server settings (see “Manual Pro:Centric Configuration” subsection on page 18).

Once the Pro:Centric data channel is found (a Pro:Centric Server Was Found screen will be displayed) and the Pro:Centric Application Mode is determined, the wizard will advance to the Processing the Pro:Centric Configuration screen, which shows the progress of the data downloads (see example below). Note that some steps may require a few minutes.

If the process is successful, no further user interaction is required, though, in some instances, where the option (for example “Next”) is available, you may manually move forward to subsequent steps within the wizard to speed up the process.

![EZ-Manager Wizard](image)

**Note:** If, after completing the search, the TV is unable to find the Pro:Centric data channel (while the Searching for Pro:Centric Server screen is on display), the wizard will stop and show a Diagnostics screen that enables you to manually return to the previous screen (to reinitiate the configuration) or exit the wizard.

When the Pro:Centric Configuration is complete, an EZ-Manager Configuration Complete screen is displayed, and after 10 seconds, the wizard exits, and the TV turns OFF.

(Continued on next page)
EZ-Manager Wizard (Cont.)

Note: With the EZ-Manager Configuration Complete screen on display, you can also manually turn off or reboot the TV. If desired, select Turn Off or Reboot, respectively, and then press OK on the Installer Remote.

Manual Pro:Centric Configuration

1. With the Searching for Pro:Centric Server screen on display, use the Left/Right arrow keys on the Installer Remote to select Manual Pro:Centric at the bottom right of the screen, and then press OK.

   In the Pro:Centric Manual Configuration screen (see example below), you will be able to configure the appropriate Pro:Centric settings in the TV. Use the Up/Down arrow keys on the Installer Remote to navigate between fields.

   2. In the Pro:Centric Mode field, use the Left/Right arrow keys to select the appropriate Pro:Centric Application Mode—GEM (Java) or Configuration Only.

      Note: For remote management only, select Configuration Only. The TV will search for TV E-Z Installation data downloads; however, Pro:Centric application data will not be downloaded, i.e., Installer Menu item 098 PRO:CENTRIC will be set to 0.

3. In the Data Channel field, either key in or use the Left/Right arrow keys to select the RF channel number that will be used by the Pro:Centric server as its data channel. The Data Channel value can be set from 1 to 135.*

   * PCS150R and later Pro:Centric servers do not support HRC or IRC cable channel frequencies.
4. Once all fields are completed as required, you have two options:

- To save the data entered and exit the wizard, use the arrow keys to select Exit and then press OK. In the subsequent confirmation window, select Save and Exit, and then press OK once more. The Pro:Centric application and/or E-Z Installation data will be downloaded to the TV at a later time. This option is useful if the Pro:Centric server has not yet been configured.

- To initiate a real-time download of Pro:Centric application and/or E-Z Installation data, use the arrow keys to select Next, and then press OK (see also note below).

  Note: Pro:Centric server data must be present on the RF channel selected as the TV’s Data Channel in order for you to select “Next” (you will see a “Data Channel Found” message below the Signal Quality indicator).

If you opt to initiate a real-time download in the last step, the EZ-Manager Wizard will proceed with the Pro:Centric application and/or E-Z Installation data downloads (see Processing the Pro:Centric Configuration screen example on page 17). When the Pro:Centric configuration is complete, an EZ-Manager Configuration Complete screen (see example on page 18) is displayed, and after 10 seconds, the wizard exits, and the TV turns OFF.

  Note: With the EZ-Manager Configuration Complete screen on display, you also have the option to manually turn off or reboot the TV. If desired, select Turn Off or Reboot, respectively, and then press OK on the Installer Remote.

### USB Configuration

TV Manager / USB download options enable you to download configuration, boot logo (splash screen) image, or software files individually from a USB memory device to the TV. You can also use the Ez Download utility available from the menu to select multiple types of files to be downloaded at one time using one process.

Each of the USB download functions requires that you have the appropriate file(s) loaded on a USB memory device. If you wish to perform a software update or download a boot logo, the software/image file(s) must be stored in a folder named “LG_DTV” in the root directory of the USB device. Clone/Configuration (.tlx) files should simply be stored in the root directory of the USB device.

The procedure below assumes that the desired file(s) is/are already loaded onto the USB device. For further information on TV Manager / USB download options and file requirements, and/or for information on creating Clone/Configuration (.tlx) files, refer to the appropriate section(s) in this document.

#### Before You Begin

- If you intend to use the Zoning feature on this TV, make sure to set the appropriate TV Zone # in the EZ-Manager’s Zone, Label, and Room Number screen BEFORE continuing with USB Configuration. See “TV Configuration Options” on pages 14 to 15 for further information.

  Note: The TV Zoning feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See item 027 description on page 41 for further information.
(Continued from previous page)

• Ensure the USB device to be used has been formatted with FAT format.
• When creating files to be downloaded, avoid using special characters (?, &, @, etc.) in filenames.
• Refer to “Ez Download Utility” on pages 31 to 34 for further information on the Ez Download utility.
• Refer to “Custom Master TV Setup” on pages 47 to 49 for information on creating a Clone (.tlx) file, and/or refer to “Creating an FTG Configuration File” on pages 56 to 58 for information on creating an FTG Configuration (.tlx) file for FTG Mode via CPU configuration.
• See Reference section, “Downloading a Boot Logo Image using a USB Memory Device,” for boot logo image guidelines.
• See Reference section, “Updating TV/PTC Software using a USB Memory Device,” for further information on software updates.

**USB Configuration via EZ-Manager Wizard**

With either the TV Configuration Options or the Zone, Label, and Room Number screen on display, proceed as follows to configure the TV using the USB memory device.

1. Insert the USB memory device with the appropriate file(s) into the TV’s USB port.
2. Use the arrow keys on the Installer Remote to select **USB Configuration**, and then press **OK**.
   
   You will be redirected to the TV Manager / USB download options.

   **Note:** You can press $\triangleright$ on the Installer Remote at any time to return to the EZ-Manager Wizard.

   **Note:** Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.

3. Select the appropriate option from the TV Manager, and initiate the desired download(s).
Update progress will be displayed on the screen. Do NOT remove the USB device while updates are in progress. When the update process is finished, depending on the type of update(s) completed, either the EZ-Manager TV Configuration Options screen will be redisplayed (software and/or boot logo image updates only—see also note below) or the TV will tune according to the Start Channel setting in the Installer Menu (TV configured with Clone/Configuration file).

**Note:** If you are performing a software and/or boot logo image update, the TV will reboot after the update(s) is/are complete. When the TV Configuration Options screen is redisplayed, you can either proceed with configuration via the EZ-Manager Wizard or exit the EZ-Manager Wizard, as required.

4. Remove the USB memory device, and verify that the appropriate configuration/download(s)/update(s) is/are resident on the TV.
Initiate the Express Script

**Note:** The Express Script configures the TV for FTG Mode via CPU operation with Hospital Mode features. This means that while the TV is functioning in FTG Mode, Hospital Mode is enabled (i.e., Installer Menu item 027 HOSPITAL MODE is not set to 0). In addition, you can create custom channel lineups for Channel Banks 1 to 4.

**Note:** While the Express Script enables you to set up TVs individually in lieu of cloning, you can also use the resulting Express Script TV Setup for cloning purposes, if desired. However, note that TV setup menu customization via the Express Script is limited to Channel Menu options.

After you select the “Express Script” option from the First Use Wizard Welcome screen, an Express Script Welcome screen provides a brief introduction to the Express Script.

From the Express Script Welcome screen, you have the following options:

- To proceed with the Express Script, use the Left/Right arrow keys on the Installer Remote to select **Next**. Then, press **OK** on the Installer Remote.

  **Note:** Select this option even if you only intend to configure Pro:Centric settings on this TV. After you configure the Pro:Centric settings, you will have the option to exit without completing the remainder of the wizard, if desired.

- To exit the Express Script without completing any configuration, use the Up/Down arrow keys on the Installer Remote to select **Exit**, and then press **OK**. In the confirmation pop-up window, select **OK**, and then press **OK** once more on the Installer Remote.

**Configure Pro:Centric Settings**

The next screen enables you to configure the TV’s Pro:Centric server settings.
(Continued from previous page)

By default, the Data Channel is configured for Auto Search, which enables the TV’s Data Channel Auto Search feature to set the Data Channel value. See item 119 DATA CHANNEL description on page 45 for further information on the Data Channel Auto Search feature.

The Pro:Centric Application Mode default setting is “Configuration Only,” which enables remote management only. That is, the TV will search for TV E-Z Installation data downloads; however, Pro:Centric application data will not be downloaded, i.e., Installer Menu item 098 PRO:CENTRIC will be set to 0.

If you wish to proceed with the wizard without changing the default values for the Pro:Centric settings, you can simply select Next and press OK on the Installer Remote. Or, if you wish to exit the wizard while retaining the default values for Pro:Centric settings, use the arrow keys on the Installer Remote to select Done, and then press OK.

If you already know the Pro:Centric settings that need to be configured in order for the TV to connect to the Pro:Centric server and/or if the Pro:Centric server is not yet installed, follow the procedure below to expedite the setup process. Use the Up/Down arrow keys on the Installer Remote to navigate between the fields.

Note: If you wish to disable the Pro:Centric feature of the TV, select the Data Channel field, and then use the Left/Right arrow keys on the Installer Remote to select Disabled. From here, you may opt to proceed with the wizard (select Next) or save this setting and exit the wizard (select Done). See also step 3 below.

1. In the Data Channel field, either key in or use the Left/Right arrow keys to select the RF channel number that will be used by the Pro:Centric server as its data channel. The Data Channel value can be set from 1 to 135.*

2. In the Pro:Centric Mode field, use the Left/Right arrow keys on the Installer Remote to select the appropriate Pro:Centric Application Mode—GEM (Java) or Configuration Only.

Note: For remote management only, select Configuration Only. The TV will search for TV E-Z Installation data downloads; however, Pro:Centric application data will not be downloaded, i.e., Installer Menu item 098 PRO:CENTRIC will be set to 0.

3. Once all fields are completed as required, you have two options:
   • To proceed with TV configuration via the Express Script, select Next and press OK on the Installer Remote. Continue to “Complete the TV Configuration” below.
   • To save the data entered and exit the Express Script, select Done and press OK on the Installer Remote. Remember, however, that if you do not complete the Express Script, pillow speaker functionality will not be enabled unless you set Installer Menu item 027 HOSPITAL MODE appropriately. See the “Installer Menu” section of this document for further information.

Complete the TV Configuration

The following procedure describes the remaining steps in the Express Script. You can select the “Back” button, where available, to check previous settings, as necessary.

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* PCS150R and later Pro:Centric servers do not support HRC or IRC cable channel frequencies.
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The following procedure describes the remaining steps in the Express Script. You can select the "Back" button, where available, to check previous settings, as necessary. Typically, if you do not modify the default settings, the "Next" button is automatically selected when you proceed forward within the Express Script. Where appropriate, you can simply press OK on the Installer Remote to proceed to the next step if the default value(s) for the TV parameter(s) in question are applicable for your installation.

⚠️ Note: If you choose to exit the Express Script from this point on, any settings made will not be retained.

1. Select the tuning band.
   Use the Up/Down arrow keys on the Installer Remote to select the tuning band field, and then use the Left/Right arrow keys to select the appropriate tuning band option: Cable Standard (default), Cable HRC, Cable IRC, or Air. When you have made your selection, use the arrow keys to select Next, and then press OK.

2. Enable/disable Aux inputs.
   If you simply select Next and press OK in this step, default values will be used, i.e., all Aux inputs will be enabled. To disable one or more of the TV’s Aux inputs, use the Up/Down arrow keys on the Installer Remote to select Enable/Disable Aux Inputs, and then press OK. Aux input options will be displayed in a pop-up window, and you can use the arrow keys to select the input(s) to enable or disable. When you are finished, press OK on the Installer Remote. Then, continue with step 3.

   Enabled Aux inputs are included in the channel lineup. If an Aux input will not be used, it is typically advisable to disable it, though you may also simply delete it from the channel lineup in step 6, if you want to leave it enabled in the Installer Menu.
(Continued from previous page)

**Note:** After the TV setup is complete (see step 8), the only way to add or remove Aux inputs to/from the FTG Channel Map, is to edit the FTG Channel Map using the Cloud Configuration Tool. See the Cloud Configuration Tool / Channel Map web page overview on page 60, and/or refer to the *Cloud Configuration Tool User Guide* for further information.

**Note:** Disabled Aux inputs are not included in the channel lineup. However, if you wish to enable a disabled Aux input in the future, you may do so by changing the applicable Installer Menu settings (see Installer Menu information in this document). See also note above.

3. Select the speaker configuration.

In this screen you will be able to select the speaker configuration for the TV. This selection sets Installer Menu item 027 HOSPITAL MODE, which also means that when the Express Script is complete, the TV will be operating in FTG Mode via CPU with Hospital Mode features enabled. See item 027 description on page 41 for further information.

Use the Up/Down arrow keys on the Installer Remote to select the speaker configuration field, and then use the Left/Right arrow keys to select the appropriate speaker: Pillow Only (default), TV Only, or Pillow & TV. When you have made your selection, use the arrow keys to select **Next**, and then press **OK**.

4. Select the pillow speaker code/voltage.

If using a Pro:Centric pillow speaker (LG IR codes) or a pillow speaker with Zenith IR codes, you can simply select **Next** and press **OK** on the Installer Remote to accept the Zenith pillow speaker code default. Otherwise, use the Up/Down arrow keys on the Installer Remote to select the pillow speaker code field, and use the Left/Right arrow keys to select the appropriate option. When you have made your selection, use the arrow keys to select **Next**, and then press **OK**.

(Continued on next page)
5. Run Auto Tuning.

This step gives you the option to initiate an automated channel scan that will search for all available digital and analog channels. Select **Run Auto Tuning** and press **OK** on the Installer Remote to start the channel scan.

**Note:** You MUST select Run Auto Tuning and press OK in order to run the channel scan. If you move on to the next step without running Auto Tuning, there will be no digital or analog channels in the channel lineup. In this case, upon completion of the Express Script, the only channels in the resulting FTG Channel Map will be any enabled Aux inputs.

Auto Tuning progress will be shown in a new pop-up window. The scan typically takes a few minutes. When the channel scan is complete, press **OK** on the Installer Remote to close the pop-up window. Then, continue with step 6.

**Note:** If you do not want to run Auto Tuning, use the arrow keys on the Installer Remote to select **Next** and press **OK**.

6. Edit the channel lineup.

This option enables you to customize the channel lineup, add channel labels and icons, etc., before the channel lineup is used to create an FTG Channel Map in step 8. You can also set up channel banks in this step.

**Note:** If, for any reason, you elect to re-run Auto Tuning after customizing channels in this screen, your current custom channel settings will be lost, and you will need to replicate the desired customization.
Select **Edit Channel Lineup** and press **OK** on the Installer Remote to edit the channel lineup. Channel edit options will be displayed in a pop-up window (see example at right). Use the Up/Down arrow keys to navigate between fields.

**Note:** The total number of channels found ("Searched") during Auto Tuning is indicated at the top of the pop-up window.

- **Input & CH:** Edit the channel lineup, as necessary. Use the Left/Right arrow keys on the Installer Remote to select channels (including Aux inputs), and press **OK** to delete (or re-add) channels per the installation site requirements.

**Note:** When a channel is active in the channel lineup (i.e., added), all additional fields in this screen are selectable/available. If a channel is deleted, all other fields in this screen become inaccessible (grayed out).

- **Icon:** This field enables you to select the appropriate trademark/icon for each channel's Channel-Time on-screen display. If known, you can direct enter the icon number using the number keys on the Installer Remote. Otherwise, use the Left/Right arrow keys on the Installer Remote to select the desired logo. Icons are available for familiar channels, such as ABC, CBS, NBC, etc. Identifiable icons should enable the end user to readily know what common networks are available.

- **Label:** Press **OK** to display the pop-up virtual alphanumeric keypad, and add a custom text label for each channel/Aux input (up to 17 characters), as desired. Added custom labels will be displayed above the Label/Keypad field for each channel, as applicable.

- **Bank:** All channels found during Auto Tuning, as well as all enabled Aux inputs, automatically are added to and active in all four channel banks. Use the arrow keys to define channel banks, as desired. See also “Channel Banks Overview” on the following page for further information.

When you are finished, press **MENU** to close the pop-up window. Use the arrow keys to select **Next**, and then press **OK**.

7. Select the channel tuning/channel banner display format.

If logical channel tuning (default) is appropriate for the installation site, you can simply select **Next** and press **OK**. Otherwise, use the Up/Down arrow keys on the Installer Remote to select the channel tuning/channel banner field, and then use the Left/Right arrow keys on the Installer Remote to select “Physical” for the channel tuning/channel banner display format. When you have made your selection, use the arrow keys to select **Next**, and then press **OK**.
Express Script (Cont.)

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8. As the final step of the Express Script, the TV saves your settings and uses the channel/Aux input lineup to create an FTG Channel Map before configuring the TV for FTG Mode via CPU (see also notes below). When you are ready to proceed, select **Finish**, and then press **OK**.

![Express Script](image.png)

Configuration progress will be shown at the bottom of the screen. When this step is complete, the Express Script exits, and the TV tunes to the first channel in the FTG Channel Map. Also when the Express Script is complete, the TV is set for Channel Bank 1. If required, you can set up/modify channel banks at a later time using LG's Cloud Configuration Tool. See “Channel Banks Overview” below for further information.

**Note:** If desired, the TV Setup created from the Express Script may also be saved to a USB memory device and used for cloning purposes (see “Cloning Procedures” on pages 50 to 55 for further information).

**Note:** Aux inputs (if enabled) will appear between the highest analog and lowest digital channel number in the FTG Channel Map when Channel Up/Down is used on the Installer Remote.

**Note:** If you did not run Auto Tuning and all Aux inputs are disabled, an FTG Channel Map will NOT be created and the TV will not be configured for FTG Mode via CPU.

### Channel Banks Overview

Channel Banks enable institution administrators to create tiered channel programming on patient in-room TVs. Each channel bank may offer a custom channel lineup for a pre-determined fee. The Express Script enables you to configure four channel banks (1, 2, 3, and 4) for the channel lineup (see step 6 of procedure above). The top tier generally contains the most programming (premium, etc.), 2nd tier = lesser programming, 3rd tier = basic programming, etc. It is also possible to create an Inactive TV display with Channel Bank 4, so that an “Inactive TV Call Attendant” message appears when the TV is turned ON. In this case, an administrator can then select another channel bank on the patient’s in-room TV depending on the programming tier requested by the patient.

All channels found during Auto Tuning, as well as all enabled Aux inputs, automatically are added to and active in all four channel banks. See “Channel Attributes and Channel Bank Allocation” below for further information. If you would like to modify channel banks after completing the Express Script (or after enabling Hospital Mode by setting Installer Menu item 027 accordingly), you can save (export) the FTG Channel Map to a USB memory device and then use the Cloud Configuration Tool to make the required changes (see also “Updating Channel Attributes and/or Channel Bank Allocation” below).
Note: Channel banks are not supported if Hospital Mode is disabled, i.e., set to 0, or on TVs that are configured for FTG Mode via EBL, EBL-LNT Mode, or MPI-EXT Mode.

Channel Attributes and Channel Bank Allocation

Three attributes are available for each channel: Encrypted, OSD, and Blank Video. When the TV creates an FTG Channel Map upon completion of the Express Script, the OSD attribute (displays the channel number, label, and icon) is automatically assigned to all channels, and the Encrypted attribute is assigned to each Pro:Idiom encrypted channel detected during the channel scan. The Blank Video attribute is not assigned automatically to any channels; however, in step 6 of the Express Script, you have the option to assign the Blank Video (i.e., “BLANK”) attribute to channels, as required. When you assign the BLANK attribute to a channel (as opposed to the default “NORMAL”), this means that the channel audio will be audible; however, its video will be black (no picture). The NORMAL or BLANK attribute applies to the channel regardless of channel bank allocation.

Once you have set a channel's NORMAL/BLANK attribute, determine the channel bank allocation for each of the four available channel banks: ADDED or DELETED. When DELETED, the channel will not appear in the channel lineup of the currently selected channel bank.

Selecting a Channel Bank

To select a channel bank, press CH. BANK on the Installer Remote. The first time you press the CH. BANK key, the TV display will show the currently active channel bank (default = Channel Bank 1). Each successive CH. BANK key press selects channel banks numerically, i.e., from Channel Bank 1 to Channel Bank 4. Press CH. BANK repeatedly until the desired channel bank is selected.

Updating Channel Attributes and/or Channel Bank Allocation

If you would like to modify channel attributes and/or channel bank allocation and/or update the FTG Channel Map in general, you can save (export) the FTG Channel Map to a USB memory device (see “Exporting a Clone File” on pages 50 to 52) and then use the Cloud Configuration Tool / Channel Map web page to make the required changes. On the Channel Map web page, Zones 1 to 4 are used to create custom channel lineups for Channel Banks 1 to 4. A checked Zone Restriction (1 to 4) checkbox means that the selected channel is “deleted” from the same numbered channel bank. Refer to the Channel Map web page overview on page 60 and also the Cloud Configuration Tool User Guide for further information. The Cloud Configuration Tool is available at: cct.procentric.tv.

Note: Hospital Mode channel banks and Lodging TV Zoning are mutually exclusive features of these TV models. If you wish to use channel banks, do not change the TV Zone # during the TV setup, as the TV Zone # will be used to track channel banks (banks are selected after configuration using the CH. BANK key on the remote as described above). If it becomes necessary to import a “.tlx” file with Installer Menu updates, in order to ensure that the Installer Menu settings are accepted by all LT572M TVs regardless of their current channel bank, you must also ensure that the new Installer Menu profile has a Zone 0 assignment. For additional information on TV Zoning, see Reference section, “Using the TV Zoning Feature.”
Inactive TV Setup

To create an inactive TV display on Channel Bank 4, you need to modify the channel bank allocation for each channel in Channel Bank 4 to DELETED. You can do this in the Express Script, or you can use the Cloud Configuration Tool, as indicated above, to make changes.

When the TV is turned ON by the patient, an “Inactive TV Call Attendant” message will appear on the screen, and after a few moments the TV will turn itself OFF. This will prompt the patient to arrange for an available programming package on Channel Bank 1, 2, or 3. Using the Installer Remote, the administrator can select Channel Bank 1, 2, or 3 depending on the entertainment programming tier selected by the patient. When the patient leaves the hospital, the administrator can then select Channel Bank 4 to reinstate the “Inactive TV” message.
The Ez Download utility, available from the TV Manager, enables you to select multiple files at one time from the files loaded on a USB memory device. You may use this utility to download any one or all of the following to a TV:

- One Clone or FTG Configuration (.tlx) file
- One TV CPU software update
- One PTC software update
- One boot logo (splash screen) image

**Before You Begin**

- Ensure the USB device has been formatted with FAT format.
- Software update and boot logo image files must be stored in a folder named “LG_DTV” in the root directory of the USB memory device. Clone/Configuration (.tlx) files should simply be stored in the root directory of the USB device.
- If you have initiated the EZ-Manager Wizard, you can use the wizard’s “USB Configuration” option to access the Ez Download utility, if desired (see “TV Configuration Options” and/or “USB Configuration” on pages 14 and 19, respectively, as necessary).
- If the TV is currently in Pass-through Mode and you intend to use the TV Zoning feature for location-specific configuration purposes, make sure to set the appropriate TV Zone # in the TV when directed to do so in the procedure below.

**Note:** The TV Zoning feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See item 027 description on page 41 for further information.

- When creating files to be downloaded, avoid using special characters (?, &, @, etc.) in filenames.
- Refer to “Custom Master TV Setup” on pages 47 to 49 for information on creating a Clone (.tlx) file, and/or refer to “Creating an FTG Configuration File” on pages 56 to 58 for information on creating an FTG Configuration (.tlx) file for FTG Mode via CPU configuration.
- See Reference section, “Downloading a Boot Logo Image using a USB Memory Device,” for boot logo image guidelines.
- See Reference section, “Updating TV/PTC Software using a USB Memory Device,” for further information on software updates.

**Caution:** Do not unplug the TV power cord or remove the USB memory device during a data download, as doing so may cause the TV to malfunction or harm the USB device, respectively.

**Accessing and Using the Ez Download Utility**

1. If it is not ON already, turn ON the TV.
2. The next step depends on whether the First Use Wizard appears on the screen when you turn ON the TV:

(Continued on next page)
Ez Download Utility (Cont.)

(Continued from previous page)

- If the wizard is displayed, you can access the Ez Download utility via the EZ-Manager Wizard, as indicated above (see “Before You Begin”). However, to continue with this procedure and access the Ez Download utility from the TV menus, exit the First Use Wizard. Then, continue with step 3.

- If the wizard is not displayed, go directly to step 3.

3. If the TV is currently in Pass-through Mode, you would like to transfer (import) a “.tlx” file to the TV via the Ez Download utility, and you intend to use the TV Zoning feature, set the appropriate TV Zone # in the TV at this time. See Reference section, “Using the TV Zoning Feature,” for further information.

   **Note:** In order for the proper TV Zone profile data to be applied, the appropriate TV Zone # must be set in the Target TV BEFORE you continue with the Ez Download utility.

4. Insert the USB memory device with the appropriate file(s) into the TV’s USB port.

5. To access the TV Manager from the TV menus:

   - Press **MENU** on the Installer Remote to display the TV setup menus (TV is in Pass-through Mode) or the Function Menu (TV is not in Pass-through Mode).

   - Use the arrow navigation keys to select/highlight either the **General** menu icon from the TV setup menus or the **Safety** menu icon from the Function Menu. Then, press the number “7” key a total of seven times.

   **Note:** Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.

6. If it is not currently selected, use the arrow keys to select **Ez Download**, and then press **OK**.

   The Ez Download utility screen (see example below) contains a listing of the TLX (Clone/Configuration) files stored in the root directory on the USB device and the CPU (EPK), PTC, and LOGO (boot logo image) files stored in the LG_DTV folder.

(Continued on next page)
Note: Press ► on the Installer Remote, as necessary, to exit the Ez Download utility and/or the TV Manager. If you accessed the TV Manager via the EZ-Manager Wizard, you will be returned to the last screen on display before you selected the “USB Configuration” option. If you accessed the TV Manager via the TV menus, you will be returned to program viewing.

7. To select or de-select a file, respectively, use the Up/Down arrow keys on the Installer Remote to highlight the filename, and press OK to add or remove the checkmark at the left of the filename.

Note: The utility will only allow you to select one of each file type for downloading. For example, if there are two TLX files in the Ez Download list, you can only select one or the other of those two files.

Note: After the Ez Download utility is run, a file is automatically created and stored on the USB device that was used. The file, which will have a “.dzm” extension, maintains a history of the file(s) previously used with the Ez Download utility. The next time(s) you use this USB device with the Ez Download utility, the file(s) selected for the last download will be pre-selected for the current download, thus facilitating the process of configuring additional TVs of this model using the same USB device.

8. The fields at the right of the screen will change depending on the currently highlighted file. Select the appropriate option(s) for each file, as applicable.

• For software and boot logo image files: The fields at the right of the screen show the TV software versions and any available Forced Update options. Do not select any Forced Update options unless you have been specifically instructed to do so or have previous experience with Expert Software Updates.

• For Clone/Configuration (.tlx) files: If the selected Clone/Configuration (.tlx) file includes an FTG Channel Map, a Channel Tuning / Channel Banner Display field at the right of the screen enables you to choose the format for the channel tuning/banner display. Press the green button on the Installer Remote to select Logical tuning, or press the yellow button on the Installer Remote to select Physical tuning.

(Continued on next page)
Ez Download Utility (Cont.)

(Continued from previous page)

**Note:** If the selected “.tlx” file does not include an FTG Channel Map, the message, “No Channel Map in Clone file,” will be displayed at the right of the screen.

9. When you are ready to continue, use the arrow keys on the Installer Remote to select **Apply**, and then press **OK**.

Update progress will be displayed on the screen. Do NOT remove the USB device while updates are in progress. When the Ez Download process is complete, an overview of the results will briefly be displayed and then, the TV will either return to program viewing or reboot (the latter if software and/or the boot logo image has/have just been updated).

10. Remove the USB memory device, and verify that the appropriate configuration/download(s)/update(s) is/are resident on the TV.

**Note for TLX configuration:** When configuration is complete, the TV tunes according to the Start Channel setting in the Installer Menu. If a Start Channel is specified, the TV will tune to that channel, though in the case of FTG Mode via CPU configuration, a channel banner will only be displayed if the Start Channel is included in the FTG Channel Map (depending on your selection in step 8, the channel banner will display either the Start Channel’s logical channel number or physical RF channel number). Otherwise, the TV will either return to the last channel tuned (TV in Pass-through Mode) or tune to the first channel in the FTG Channel Map (TV in FTG Mode via CPU). In the latter case, remember that the channels in the FTG Channel Map are always arranged in logical order, regardless of your selection in step 8.
Use the Installer Menu to set up, change, or view operational settings. This section describes how to access, use, and exit the Installer Menu from the TV itself. However, you should also refer to the Installer Menu descriptions in this document if you are configuring the TV CPU using an FTG Configuration (.tlx) file created using LG’s Cloud Configuration Tool or configuring the EBL locally (.rml) or remotely (via FMA-LG102 / .fma) using the FTG Device Configuration Application software.

Refer to the table on pages 37 to 39 for brief descriptions of Installer Menu items. More detailed descriptions follow the table listing.

**Accessing the Installer Menu**

1. Turn ON the TV.

   If the First Use Wizard appears on the screen when you turn ON the TV, exit the wizard.

2. Using an Installer Remote, press **MENU** repeatedly until the on-screen display of the TV setup menus (if the TV is in Pass-through Mode) or the Function Menu (if the TV is not in Pass-through Mode) no longer toggles, and then press the Installer Menu entry sequence (e.g., 9-8-7-6 + OK) to access the Installer Menu.

   **Note:** The default Installer Menu entry sequence is “9876”; however, if Installer Menu item 000 INSTALLER SEQUENCE has been modified, the entry sequence may be one of three additional options. See Installer Menu detailed descriptions for further information.

The Installer Menu opens with item 000 INSTALLER SEQ 000.

**Typical Installer Menu**

The Installer Menu header will vary depending on the TV you are setting up. In the Installer Menu footer, you can see the current software versions of the TV, as indicated.

**Note:** If the password (entry sequence) is not entered or registered correctly, you will see the message “ENTER PASSWORD 0000” at the top of the screen instead of the Installer Menu header. Once you re-enter the correct password (e.g., press 9-8-7-6 + OK), the Installer Menu will display.

**Note:** If the TV is not in Pass-through Mode, the Installer Menu is accessible as read-only. Also, the TV Zone # will be indicated in the Installer Menu header under the configuration mode indicator described on the following page.
As part of the Installer Menu header (in all modes), two 3-character acronyms are displayed to indicate the TV's current configuration mode. The table below lists all possible mode identifiers for these TV models.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU-CTV</td>
<td>Pass-through Mode with Channel Lineup in CPU</td>
</tr>
<tr>
<td>CPU-FTG</td>
<td>FTG Mode via CPU</td>
</tr>
<tr>
<td>CPU-P:C</td>
<td>Application Tuning Mode via CPU</td>
</tr>
<tr>
<td>EBL-FTG</td>
<td>FTG Mode via EBL</td>
</tr>
<tr>
<td>EBL-LNT</td>
<td>SONIFI PPV Mode</td>
</tr>
<tr>
<td>MPI-EXT</td>
<td>External MPI Control</td>
</tr>
<tr>
<td>PTC-CTV</td>
<td>Pass-through Mode with Channel Map in PTC</td>
</tr>
</tbody>
</table>

Navigating Within the Installer Menu

Use the Up/Down arrow keys on the Installer Remote to sequence through the available menu items, or access an item directly by keying in the item number and then pressing **MENU SETTINGS**. For example, to access the SLEEP TIMER option, which is item 015, press 0-1-5 + **MENU SETTINGS**.

Installer Menu items not relevant to these TV models are not present in the Installer Menu; therefore, some numbers are missing. For example, item 006 will not appear. In addition, items that are dependent on other Installer Menu item settings will not be initially accessible. For example, item 046 STRT AUX SRCE will not display in the Installer Menu unless item 004 STRT CHANNEL is set to 0. See Installer Menu detailed descriptions for further information.

Modifying Installer Menu Settings

Refer to the table starting on the next page for an overview of the available Installer Menu items, including their item numbers, functions, value ranges, and default values.

To change an Installer Menu item value, use the Left/Right arrow keys on the Installer Remote to select the appropriate value, or direct enter a valid value. To save the new setting, press **OK** once on the Installer Remote. If you have additional items to modify, use the Up/Down arrow keys to navigate to a new Installer Menu item or access an item directly as described in the previous section. Note that invalid values will not be saved.

**Caution:** In order for Installer Menu item changes to be saved, you must press **OK** as indicated above and then exit the Installer Menu as described below. Never remove power from the TV while in the Installer Menu. Also, remember that Installer Menu settings may affect options available from the TV setup menus or the Function Menu.

Exiting the Installer Menu and Activating Settings

After you have adjusted all required Installer Menu item settings, press **OK** once on the Installer Remote to save your changes; then, press **OK** again to exit the Installer Menu. Any changes you make will be stored in non-volatile memory.

**Note:** Each time you exit the Installer Menu in Pass-through Mode, all V-Chip (Parental Control) settings in the TV are reset to their default values; that is, the Lock System, if previously enabled from the Safety Menu, will now be disabled, and the individual Parental Control settings will be restored to default values.
### Installer Menu Items 000 through 041

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Value Range</th>
<th>Default Value</th>
<th>Brief Description of Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>INSTALLER SEQ</td>
<td>0–3</td>
<td>0</td>
<td>Leave default set to 0.</td>
</tr>
<tr>
<td>001</td>
<td>POWER MANAGE</td>
<td>0–7</td>
<td>0</td>
<td>Selects the number of hours of inactivity allowed before the TV automatically turns itself OFF. Set to 0 to disable Power Management.</td>
</tr>
<tr>
<td>002</td>
<td>AC ON</td>
<td>0–3, 16–19</td>
<td>0</td>
<td>Determines the status of the TV (ON, Instant ON enabled, etc.) when AC power is applied. See detailed descriptions.</td>
</tr>
<tr>
<td>003</td>
<td>BAND/AFC</td>
<td>0–3</td>
<td>1</td>
<td>Selects the RF Tuning Band: 0=Broadcast, 1=Cable, 2=HRC, 3=IRC</td>
</tr>
<tr>
<td>004</td>
<td>STRT CHANNEL</td>
<td>0–127, 255</td>
<td>255</td>
<td>Channel tuned when the TV is turned ON. (Set to 255 to tune to channel tuned before the TV was turned OFF.)</td>
</tr>
<tr>
<td>005</td>
<td>CHAN LOCK</td>
<td>0 / 1</td>
<td>0</td>
<td>If set to 1, cannot tune from current channel.</td>
</tr>
<tr>
<td>007</td>
<td>STRT VOLUME</td>
<td>0–63, 255</td>
<td>255</td>
<td>Volume level when the TV is turned ON. (Set to 255 to use volume level set before the TV was turned OFF.)</td>
</tr>
<tr>
<td>008</td>
<td>MIN VOLUME</td>
<td>0–63</td>
<td>0</td>
<td>Sets the minimum allowable volume setting.</td>
</tr>
<tr>
<td>009</td>
<td>MAX VOLUME</td>
<td>0–63</td>
<td>63</td>
<td>Sets the maximum allowable volume setting.</td>
</tr>
<tr>
<td>010</td>
<td>MUTE DISABLE</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to disable the Mute function.</td>
</tr>
<tr>
<td>011</td>
<td>KEY DEFEAT*</td>
<td>0 / 1</td>
<td>1</td>
<td>If set to 1, joystick button menu navigation functions on the display panel are not available.</td>
</tr>
<tr>
<td>012</td>
<td>IR BANKS EN.</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to enable TV to respond to bank discrete IR codes.</td>
</tr>
<tr>
<td>013</td>
<td>SCAN MODE</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to allow Channel Up/Down key presses to turn ON TV. See detailed descriptions.</td>
</tr>
<tr>
<td>014</td>
<td>STRT CH IN SM</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to use the Start Channel for the Channel Map pivot point in Scan Mode.</td>
</tr>
<tr>
<td>015</td>
<td>SLEEP TIMER</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable the Sleep Timer feature.</td>
</tr>
<tr>
<td>016</td>
<td>EN. TIMER</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable On/Off timers.</td>
</tr>
<tr>
<td>017</td>
<td>ALARM</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable the Alarm feature in the Function Menu.</td>
</tr>
<tr>
<td>020</td>
<td>FEATURE LEVEL</td>
<td>0–1, 16–24, 64–65</td>
<td>1</td>
<td>Determines an additional IR code scheme to which the TV will respond.</td>
</tr>
<tr>
<td>021</td>
<td>V-CHIP</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable V-Chip (Parental Control) functions.</td>
</tr>
<tr>
<td>022</td>
<td>MAX BLK HRS</td>
<td>0–99</td>
<td>12</td>
<td>Determines the maximum number of Parental Control blocking hours that can be set in the Function Menu.</td>
</tr>
<tr>
<td>023</td>
<td>CAPTION LOCK</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to retain the caption setting selected before the TV was turned OFF.</td>
</tr>
<tr>
<td>025</td>
<td>FUNCTION PRE.</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to allow Channel Preview/Banks Setup Menu access via the CH PREVIEW key on the Installer Remote.</td>
</tr>
<tr>
<td>027</td>
<td>HOSPITAL MODE</td>
<td>0–162, 254</td>
<td>254</td>
<td>Set according to the speaker selection, the pillow speaker code/supply voltage, and the hospital IR code. See detailed instructions.</td>
</tr>
<tr>
<td>028</td>
<td>CH. OVERIDE</td>
<td>0 / 1</td>
<td>1</td>
<td>If set to 0, users can only tune to channels that are included in the PTC Channel Map. See detailed descriptions.</td>
</tr>
<tr>
<td>029</td>
<td>REMAP AUX INPS</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to remap the PTC’s direct tune channels for Aux inputs from 13x to 9x.</td>
</tr>
<tr>
<td>030</td>
<td>ACK MASK</td>
<td>0 / 1</td>
<td>0</td>
<td>If set to 1, enables the ACK feature of MPI.</td>
</tr>
<tr>
<td>031</td>
<td>POLL RATE</td>
<td>20–169</td>
<td>94</td>
<td>Selects the poll rate for MPI.</td>
</tr>
<tr>
<td>032</td>
<td>TIMING PULSE</td>
<td>186–227</td>
<td>207</td>
<td>Sets the baud rate for MPI.</td>
</tr>
<tr>
<td>035</td>
<td>HDMI1 ENABLE</td>
<td>0–2</td>
<td>1</td>
<td>Set to 0 to disable HDMI 1. Set to 1 (DTV Mode) or 2 (PC Mode), as applicable, to enable HDMI 1.</td>
</tr>
<tr>
<td>039</td>
<td>REAR AUX EN.</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable the display panel AV input jack.</td>
</tr>
<tr>
<td>041</td>
<td>SIMPLINK EN</td>
<td>0–3</td>
<td>0</td>
<td>Determines the status of the SIMPLINK feature. See detailed descriptions.</td>
</tr>
</tbody>
</table>

* This item is applicable for 24/28LT572M TVs only.
### Installer Menu Items 042 through 116

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Value Range</th>
<th>Default Value</th>
<th>Brief Description of Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>042</td>
<td>AUTO INPUTS</td>
<td>0 – 255</td>
<td>0</td>
<td>Determines the Aux inputs for which auto-sensing is enabled. See detailed descriptions.</td>
</tr>
<tr>
<td>046</td>
<td>STRT AUX SRCE</td>
<td>1, 3, 5, 255</td>
<td>255</td>
<td>Sets the starting Aux source (if item 004 STRT CHANNEL is set to 0).</td>
</tr>
<tr>
<td>047</td>
<td>AUX STATUS</td>
<td>0 / 1</td>
<td>0</td>
<td>Controls the MPI status channel response for Aux sources. Set to 1 for Aux source to be reported as its channel number.</td>
</tr>
<tr>
<td>053</td>
<td>DIS. CH-TIME</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to disable the TV’s native Channel-Time display.</td>
</tr>
<tr>
<td>069</td>
<td>EN. CH-T COL.</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable custom color for MPI display characters.</td>
</tr>
<tr>
<td>070</td>
<td>FOR. CH-TIME</td>
<td>0 – 7</td>
<td>2</td>
<td>Chooses custom foreground color for MPI display characters.</td>
</tr>
<tr>
<td>071</td>
<td>BCK. CH-TIME</td>
<td>0 – 7</td>
<td>2</td>
<td>Chooses custom background color for MPI display characters.</td>
</tr>
<tr>
<td>073</td>
<td>CH NOT AVBLE</td>
<td>0 / 1</td>
<td>0</td>
<td>If set to 1 and item 028 CH. OVERIDE is set to 0, a “CHANNEL NOT AVAILABLE” message is displayed if the user attempts to direct tune a channel that is not included in the channel lineup.</td>
</tr>
<tr>
<td>075</td>
<td>REVERT CH</td>
<td>0 / 1</td>
<td>0</td>
<td>If set to 1 and loss of MPI communication occurs, the TV tunes to the Start Channel.</td>
</tr>
<tr>
<td>077</td>
<td>QUICK SHUTOFF</td>
<td>0 – 17</td>
<td>0</td>
<td>Allows the TV to be turned OFF with press and hold of pillow speaker channel buttons. Set to 0 to disable. Set from 1 to 17 to define hold time. See detailed descriptions.</td>
</tr>
<tr>
<td>078</td>
<td>UPN MSB</td>
<td>0 – 255</td>
<td>255</td>
<td>User programmable number, most significant byte.</td>
</tr>
<tr>
<td>079</td>
<td>UPN MSB-1</td>
<td>0 – 255</td>
<td>255</td>
<td>User programmable number, most significant byte - 1.</td>
</tr>
<tr>
<td>080</td>
<td>UPN MSB-2</td>
<td>0 – 255</td>
<td>255</td>
<td>User programmable number, most significant byte - 2.</td>
</tr>
<tr>
<td>081</td>
<td>UPN LSB</td>
<td>0 – 255</td>
<td>255</td>
<td>User programmable number, least significant byte.</td>
</tr>
<tr>
<td>082</td>
<td>CHKSM ERROR</td>
<td>0 / 1</td>
<td>1</td>
<td>Enforces rigid MPI checksum.</td>
</tr>
<tr>
<td>083</td>
<td>HANDSHK TIME</td>
<td>0 – 5</td>
<td>5</td>
<td>Determines the MPI timing requirement of an MPI command to follow an MPI Status Response.</td>
</tr>
<tr>
<td>084</td>
<td>PERMANENT BLK</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to remove the blocking hours setting in the Function Menu for Parental Control and make the block permanent.</td>
</tr>
<tr>
<td>088</td>
<td>EN NOISE MUTE</td>
<td>0 / 1</td>
<td>1</td>
<td>(Analog channels only) If set to 1, audio is muted if no signal is present.</td>
</tr>
<tr>
<td>090</td>
<td>KEY LOCK</td>
<td>0 / 1</td>
<td>0</td>
<td>If set to 1, all display panel button functions are locked. IR is still functional.</td>
</tr>
<tr>
<td>091</td>
<td>HDMI2 ENABLE</td>
<td>0 – 2</td>
<td>1</td>
<td>Set to 0 to disable HDMI 2. Set to 1 (DTV Mode) or 2 (PC Mode), as applicable, to enable HDMI 2.</td>
</tr>
<tr>
<td>094</td>
<td>SAP MENU EN</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 to enable the SAP feature in the Function Menu.</td>
</tr>
<tr>
<td>096</td>
<td>DEF. ASP. RATIO</td>
<td>0 – 4</td>
<td>2</td>
<td>Selects the default aspect ratio. See detailed descriptions.</td>
</tr>
<tr>
<td>097</td>
<td>AUDIO OUTPUT</td>
<td>0 – 9</td>
<td>7</td>
<td>Set as required in accordance with external audio equipment connected to the TV. See detailed descriptions.</td>
</tr>
<tr>
<td>098</td>
<td>PRO:CENTRIC</td>
<td>0 / 2</td>
<td>0</td>
<td>Set to 0 to disable the Pro:Centric application. Set to 2 for GEM (Java) Mode.</td>
</tr>
<tr>
<td>099</td>
<td>BACK LIGHTING</td>
<td>1 – 202, 255*</td>
<td>255</td>
<td>Sets the level of the TV picture back lighting. See detailed descriptions.</td>
</tr>
<tr>
<td>102</td>
<td>ATSC BAND</td>
<td>0 – 4</td>
<td>4</td>
<td>Selects the RF band used by the ATSC tuner. See detailed descriptions.</td>
</tr>
<tr>
<td>103</td>
<td>ATSC TUNE MODE</td>
<td>0 / 1</td>
<td>1</td>
<td>Set to 1 for Physical Channel tuning. Set to 0 for Virtual Channel tuning.</td>
</tr>
<tr>
<td>104</td>
<td>START MINOR CH</td>
<td>0 – 255</td>
<td>0</td>
<td>Selects the Minor Start Channel number. Set to 0 for analog (NTSC) channel.</td>
</tr>
<tr>
<td>106</td>
<td>ASP RATIO LOCK</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 0 to use the default aspect ratio each time the TV is turned ON. Set to 1 to retain the aspect ratio set before the TV was turned OFF.</td>
</tr>
<tr>
<td>107</td>
<td>BANNER SELECT</td>
<td>0 / 1</td>
<td>1</td>
<td>Selects the type of banner to display during channel change.</td>
</tr>
<tr>
<td>116</td>
<td>VIDEO MUTE EN</td>
<td>0 / 1</td>
<td>0</td>
<td>(Analog channels only) If set to 1, video mutes (blank screen) when no signal is present.</td>
</tr>
</tbody>
</table>

* Values 201, 202 applicable for 32/43LT572M TVs only.
### Installer Menu Items 117 through 122

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Value Range</th>
<th>Default Value</th>
<th>Brief Description of Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>FACT DEFAULT</td>
<td>0 / 1</td>
<td>0</td>
<td>Set to 1 to restore the factory default settings of all Installer Menu items.</td>
</tr>
<tr>
<td>118</td>
<td>POWER SAVINGS</td>
<td>1, 3, 7</td>
<td>3</td>
<td>Determines the powered status of the embedded b-LAN module and the GAME CONTROL/MIPI port. See detailed descriptions.</td>
</tr>
<tr>
<td>119</td>
<td>DATA CHANNEL</td>
<td>0 – 135, 255</td>
<td>255</td>
<td>Set to 0 to disable. Set from 1 to 135 to match the RF channel number used by the Pro:Centric server as its data channel. Set to 255 to use Auto Search to find the Pro:Centric RF channel. See detailed descriptions.</td>
</tr>
<tr>
<td>121</td>
<td>UPDATE TIME HR</td>
<td>0 – 23, 128, 255</td>
<td>128</td>
<td>Sets the Wake For Update hour. See detailed descriptions.</td>
</tr>
<tr>
<td>122</td>
<td>UPDATE TIME MN</td>
<td>0 – 59</td>
<td>0</td>
<td>Sets the Wake For Update minute. See detailed descriptions.</td>
</tr>
</tbody>
</table>

### Detailed Descriptions of Installer Menu Items

#### 000 - INSTALLER SEQUENCE
Specifies entry sequence to the Installer Menu.
- 0 = 9876
- 1 = 4321
- 2 = 1478

#### 001 - POWER MANAGE (Power Management)
Energy saving feature. Determines the number of hours, in the range 1 to 7, of inactivity allowed, either at the TV control panel or from the remote, before the TV automatically turns itself OFF. If set to 0, Power Management is disabled.

#### 002 - AC ON (AC Power Switchable)
Determines the status of the TV when AC power is applied. Set to 0 (default) for standard TV turn ON/OFF operation. Set to 16 if you would like the TV to turn ON the first time AC power is applied, after which the TV will be configured for standard ON/OFF operation. If set to 1 or 17, the TV will turn ON when AC power is applied. Pressing the POWER button is not necessary. This is desirable if the TV is plugged into a switched AC outlet (i.e., a set-top box).

Though note that if the Pro:Centric application is loaded (i.e., item 098 PRO:CENTRIC is not set to 0), the TV will reboot and initiate an update once every 24 hours. During the update event, the TV checks for and downloads any available updates from the Pro:Centric server (item 119 DATA CHANNEL set from 1 to 135 or 253). The time at which this event occurs depends on the setting of item 121 UPDATE TIME HR. See item 119 and 121 descriptions for further information. Once the update cycle is complete, the TV completes the reboot and resumes its ON state.

**Note:** If set to 1 or 17, the TV does not respond to ON/OFF commands from either the remote or the display panel, and the Sleep Timer is also nonfunctional.

Set to 2, 3, 18, or 19 to enable the Instant ON feature, as required. 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 remains powered ON while appearing to be OFF. Pressing the POWER button toggles the video and audio mutes, so that the TV appears to turn ON instantly.

Set to the appropriate value to enable Instant ON without reboot (value 2 or 18) or Instant ON with reboot (value 3 or 19), respectively. See bullets below for further information on reboot functionality. See also note below.

**Note:** Values 2 and 3 represent standard Instant ON functionality; i.e., when AC power is applied, the TV is in a Muted ON state. If set to 18 or 19, the Instant ON feature allows the TV to turn ON, without muting video and audio, when AC power is initially applied.

- **Instant ON with reboot:** The TV will reboot and, if applicable (i.e., item 119 DATA CHANNEL set from 1 to 135 or 253), check for and download any available updates from the Pro:Centric server at every turn OFF. This setting is not recommended if the TV will be configured with a resident application.

- **Instant ON without reboot:** The TV will not reboot to check for and download updates at turn OFF, with the following exception: the first time the TV is turned OFF after this item is set to 3 or 19, the TV will reboot and initiate an update event (Data Channel Auto Search and/or check for and download of updates—see also paragraph below). This setting is recommended if the TV will be configured with a resident application. In this mode, the standard check for and download of updates is under application control.

Refer to your site-specific documentation for further information on configuring the TV with a resident application.

When this item is set to 2, 3, 18, or 19, the TV will also reboot and initiate an update event once every 24 hours. During the update event, the TV, as applicable, performs a Data Channel Auto Search (item 119 set to 255) and/or checks for and downloads any available updates from the Pro:Centric server (item 119 set from 1 to 135 or 253). The time at which this event occurs depends on the setting of item 121 UPDATE TIME HR. See item 119 and 121 descriptions for further information. Once the update cycle is complete, the TV completes the reboot and resumes its Muted ON state.

**Note:** Instant ON is not supported when the TV is in MPI-EXT Mode, EBL-LNT Mode, or FTG Mode via EBL.
003 - BAND/AFC (Band/Automatic Frequency Control)
Selects the RF band used by the NTSC tuner:
0 = Broadcast 1 = Cable (default)
2 = HRC 3 = IRC
Determine the RF band used by the RF distribution system, and then select the appropriate value for this item before tuning channels or running Auto Tuning (Channel Search). See also item 102 ATSC BAND.

004 - STRT CHANNEL (Start Channel)
If active, this function allows you to determine the initial Major Start Channel number when the TV is turned ON. This feature is useful for an in-house information channel, since the TV would always select that channel when it is turned ON. If set to 255, the last channel tuned before the TV was turned OFF will be the channel tuned when the TV is turned ON again.
0 = Aux 127 = Map to Major CH 4
1 – 125 = Major CH # 255 = Last Channel
126 = Map to Major CH 3
For a digital (ATSC) Start Channel, always remember to set item 104 to the Minor Start Channel number. If setting this item to 0 (Aux), make sure to also set item 046 STRT AUX SRCE to the appropriate value.
Note: 126 and 127 are mapped only in SONIFI PPV Mode.

005 - CHAN LOCK (Channel Lock)
Channel Lock is ideal if the system must always be on the same channel. If set to 1, Channel Lock is enabled and it is not possible to change channels. If set to 0 (default) Channel Lock is disabled. Generally, this feature is used in connection with item 004 STRT CHANNEL where the Start Channel may, for example, be set to 3 or 4. If the Start Channel is 3, then the TV will remain locked on channel 3.

007 - STRT VOLUME (Start Volume)
This function allows the Installer to determine the initial volume level setting when the TV is turned ON. This feature is useful for an in-house information channel, since the TV will always select that volume level when it is turned ON. The range of values is 0 to 63, 255. If set to 255, the last volume level before the TV was turned OFF will be the current volume level when the TV is turned ON again.

Note: The factory default volume level (i.e., when AC power is initially applied) for these TV models is 20. In addition, if AC power is removed/disconnected and then reapplied to the TV while this item is set to 255, the TV volume level will revert to 20 when the TV is turned ON again.

008 - MIN VOLUME (Minimum Volume)
This function determines the minimum volume level allowable with the Volume (VOL) Up/Down control. In this way, for example, someone cannot set the volume too low to hear. The value range is from 0 to 63. The factory default is 0, which provides the full range of volume control, if item 009 MAX VOLUME is set to 63. It is recommended to set the same value on every TV.
Note: The minimum volume level cannot have a value setting higher than the maximum volume level (described below).

009 - MAX VOLUME (Maximum Volume)
This function determines the maximum volume level allowable with the Volume (VOL) Up/Down control. In this way, for example, someone cannot set the volume level high enough to disturb others. The value range is 0 to 63, with 63 as the default, which gives the user the full range of volume control, if item 008 MIN VOLUME is set to 0. It is recommended to set the same value on every TV.
Note: The maximum volume level cannot have a value setting lower than the minimum volume level (described above).

010 - MUTE DISABLE
Enables or disables sound mute function. If set to 1, sound cannot be muted. If set to 0, sound can be muted.

011 - KEY DEFEAT
If set to 1, Key Defeat is enabled, which means that end users cannot access or navigate within the on-screen menu(s) from the display panel; i.e., joystick button menu navigation functions will not be available. Set to 0 to disable Key Defeat. Note that all IR features remain functional regardless of this setting; users can always access the menus by pressing MENU on the remote.
Note: This item is only applicable for 24/28LT572M TVs.

012 - IR BANKS EN. (IR Banks Enable)
When enabled, you can direct access a particular channel bank by inputting the discrete IR code for that bank.
Note: This item is not available in the Installer Menu when item 027 HOSPITAL MODE is set to 0.

013 - SCAN MODE
If set to 1 (default), the TV can be turned ON with Channel Up/Down key presses. Also, the TV will turn OFF when Channel Up/Down is used to tune above or below the Channel Map pivot point. By default, the Channel Map pivot point is between the highest and lowest channel in the Channel Map (also see item 014 STRT CH IN SM). Set to 0 to disable.
Note: This item is only applicable when the TV is in PTC-CTV Mode or FTG Mode via CPU.
014 - **STRT CH IN SM (Start Channel in Scan Mode)**

Only valid when item 013 SCAN MODE is set to 1 (enabled). Set to 1 to force the Channel Map pivot point to be between the RF channel designated as the Start Channel (see item 004 STRT CHANNEL) and next lower channel in the Channel Map. Set to 0 (default) to disable.

**Note:** This item is not available in the Installer Menu when item 013 SCAN MODE is set to 0.

015 - **SLEEP TIMER**

If set to 1, the Sleep Timer feature is enabled and available to the end user. Set to 0 to disable the Sleep Timer feature.

016 - **EN. TIMER (Enable On/Off Timers)**

If set to 1, the Timer function is enabled and available to the end user. Set to 0 to disable On/Off timers.

**Note:** The TV clock must be set in order for timers to be used.

017 - **ALARMD**

If set to 1, the Alarm feature is enabled and available to the end user in the Function Menu (i.e., the TV is not in Pass-through Mode). Set to 0 to disable the Alarm feature.

**Note:** The TV clock must be set before the Alarm feature will work.

020 - **FEATURE LEVEL**

Determines an additional IR code scheme to which the TV will respond, allowing for the use of unique IR codes based on "bed number" in a multi-TV single room installation. First determine the IR mode; then select the bed number.

**Note:** When item 027 HOSPITAL MODE is set to 0, both the IR code that will control the TV and the speaker selection are determined by this item (default = 1). Set this item as required to enable Zenith Bed 1 or Bed 2 IR codes and Speaker selections.

<table>
<thead>
<tr>
<th>Values</th>
<th>IR Mode</th>
<th>Bed #</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 1</td>
<td>Zenith (Hospital)</td>
<td>1 – 2</td>
<td>TV Only</td>
</tr>
<tr>
<td>16 – 24</td>
<td>Multi-code Remote</td>
<td>1 – 9</td>
<td>TV Only</td>
</tr>
<tr>
<td>64 – 65</td>
<td>Zenith (Hospital)</td>
<td>1 – 2</td>
<td>Pillow Only</td>
</tr>
</tbody>
</table>

**Note:** See Reference section, “LG Pro:Centric Patient Remote and Pillow Speaker,” for additional information. Also, see documentation for the accessory package that includes the multi-code remote.

021 - **V-CHIP (Parental Control)**

Set to 1 to activate V-Chip (Parental Control) and have it available to the end user to filter and control or otherwise restrict programming content that can appear. Set to 0 to turn off the V-Chip feature (not available to user); no programming restrictions can be set.

022 - **MAX BLK HRS (Maximum Block Hours)**

Sets hours from 0 to 99 for the maximum number of Parental Control blocking hours that can be set in the Function Menu (i.e., the TV is not in Pass-through Mode). Default setting is for 12 blocking hours.

**Note:** This item is not available in the Installer Menu when item 021 V-CHIP is set to 0 or when item 084 PERMANENT BLK is set to 1.

023 - **CAPTION LOCK**

If set to 0, captions are off when the TV is turned ON. If set to 1, the caption setting selected before the TV was turned OFF will be the current caption setting when the TV is turned ON again.

025 - **FUNCTION PRE (Function Preview)**

Set to 1 to allow access to the Channel Preview/Banks Setup Menu via the CH PREVIEW key on Installer Remote. Set to 0 to disable access to the Channel Preview/Banks Setup Menu.

**Note:** This item is only applicable when the TV is in PTC-CTV Mode.

027 - **HOSPITAL MODE**

Set according to the speaker selection, the pillow speaker code/supply voltage and the hospital IR code. If using a Pro:Centric pillow speaker, select one of the Zenith codes in accordance with the desired speaker selection. See table below.

When Hospital Mode is set to 0 (disabled), both the IR code that will control the TV and the speaker selection depend on the Installer Menu item 020 FEATURE LEVEL setting.

<table>
<thead>
<tr>
<th>Value</th>
<th>Speaker</th>
<th>Pillow Speaker Code/Voltage</th>
<th>Hospital IR Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>Determined by item 020 setting</td>
<td>Zenith (+12v)</td>
<td>Determined by item 020 setting</td>
</tr>
<tr>
<td>001</td>
<td>Pillow Only</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>002</td>
<td>Pillow Only</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>017</td>
<td>Pillow Only</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>018</td>
<td>Pillow Only</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>033</td>
<td>Pillow Only</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>034</td>
<td>Pillow Only</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>065</td>
<td>TV Only</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>066</td>
<td>TV Only</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>081</td>
<td>TV Only</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>082</td>
<td>TV Only</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>097</td>
<td>TV Only</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>098</td>
<td>TV Only</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>129</td>
<td>Both Pillow &amp; TV</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>130</td>
<td>Both Pillow &amp; TV</td>
<td>Zenith (+12v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>145</td>
<td>Both Pillow &amp; TV</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>146</td>
<td>Both Pillow &amp; TV</td>
<td>Philips (+5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>161</td>
<td>Both Pillow &amp; TV</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #1</td>
</tr>
<tr>
<td>162</td>
<td>Both Pillow &amp; TV</td>
<td>RCA (-5v)</td>
<td>Zenith Bed #2</td>
</tr>
<tr>
<td>254</td>
<td>TV Only</td>
<td>Disabled (0v)</td>
<td>Zenith Bed #2</td>
</tr>
</tbody>
</table>
Note: The default setting (254) is not selectable in the Installer Menu. If you ever need to restore the default setting, you must reload the factory default settings. See item 117 description and/or Reference section, “Restoring Factory Defaults on the TV(s),” for further information.

Note: When Hospital Mode is enabled, i.e., not set to 0, channel banks are applied, which means that the (Lodging) TV Zoning feature is not available. Channel banks are not supported if Hospital Mode is disabled, i.e., set to 0, or on TVs that are in FTG Mode via EBL, EBL-LNT Mode, or MPI-EXT Mode. If Hospital Mode is disabled and if the TVs are not configured in one of the three modes listed above (EBL-FTG, EBL-LNT, or MPI-EXT), the TV Zoning feature is available. See “Channel Banks Overview” on pages 28 to 30 and/or Reference section, “Using the TV Zoning Feature,” for further information.

Note: In the Installer Menu, an informational code is displayed at the right of each Hospital Mode value. Each code consists of three characters. The first character—T, P, or B—identifies the speaker: TV, Pillow, or Both. The second character—Z, P, R, or D—identifies the pillow speaker code: Zenith, Philips, RCA, or Disabled. The third character—1 or 2—identifies the bed number. In the table above, each bolded character represents an element of the Hospital Mode code.

028 - CH. OVERRIDE (Channel Override)
This item either allows or restricts tuning of channels that are NOT in the PTC Channel Map. If set to 1, end users can tune channels that are not in the PTC Channel Map by direct keypad entry. If set to 0, users are restricted to only the channels that are in the PTC Channel Map. In the case of CPU-CTV Mode, there are no channels in the PTC Channel Map; therefore, direct keypad entry is not available. Also, when this item is set to 0, the PTC Channel Map (PTC-CTV Mode)/CPU channel lineup (CPU-CTV Mode) is locked, and user access to channel settings in the TV setup menus is restricted.

Note: This item is not applicable when the TV is in FTG Mode.

029 - REMAP AUX INPUTS
Set to 1 to remap the PTC’s direct tune channels for Aux inputs from 13x to 9x. This allows 2-digit only tuning systems (i.e., legacy On Command Video™) to direct tune Aux inputs. See also Reference section, “TV Aux Input Configuration.”

030 - ACK MASK
MPI Communication Parameter. When set to 1, enables the ACK feature of MPI.

031 - POLL RATE
MPI Communication Parameter. Selects the poll rate for MPI. Step size of 16 ms. Changing from default may affect communication via MPI.

032 - TIMING PULSE
MPI Communication Parameter. Sets the baud rate for MPI. Step size of 4.3 uS. Changing from default may affect communication via MPI.

035 - HDMI1 ENABLE
Set to 1 to enable HDMI 1 input in DTV Mode. Set to 2 to enable HDMI 1 input in PC Mode. Set to 0 to disable display panel HDMI 1 input.

039 - REAR AUX EN. (Rear Aux Enable)
Set to 1 to enable display panel rear Aux (AV) input. Set to 0 to disable display panel rear Aux (AV) input.

041 - SIMPLINK EN
Set to 0 to disable the SIMPLINK feature. Set to 1 to enable SIMPLINK functionality without enabling remote control access to the SIMPLINK Menu. Set to 2 to enable both SIMPLINK functionality and SIMPLINK Menu access, though note that the Speaker menu option will be inaccessible/grayed out. Set to 3 to enable all aspects of SIMPLINK feature and SIMPLINK Menu. If a home theater device is connected to the TV, users can select either the TV or HT (home theater) speaker.

Note: When both this item and item 042 AUTO INPUTS are enabled in the Installer Menu, HDMI inputs will be detected by SIMPLINK, but the Auto Input(s) Sensing Feature will not function.

042 - AUTO INPUTS
Determines the Aux inputs for which auto-sensing is enabled. Set to 0 to disable auto-sensing for all available inputs. Set to 255 to enable auto-sensing for all available inputs. For information on options for individual input settings, see Reference section, “Auto Input(s) Sensing Feature.”

Note: In order for auto-sensing to be enabled for an input, that input must also be enabled in the Installer Menu. For example, to enable auto-sensing for HDMI 1, item 035 HDMI1 ENABLE must also be set to 1 or 2. Also, see note above regarding TV operation when both this item and item 041 SIMPLINK EN are enabled.

046 - STRT AUX SRC (Start Aux Source)
Sets the starting Aux source. When turned ON, the TV will tune to starting Aux source if item 004 STRT CHANNEL is set to 0.

1 = AV 3 = HDMI 1 5 = HDMI 2
255 = Last Aux

Note: In order for an Aux input to be selected as the starting Aux source, the input also must be enabled in the Installer Menu.

Note: This item is not available in the Installer Menu unless item 004 STRT CHANNEL is set to 0.
047 - AUX STATUS
Controls the MPI status channel response for Aux sources. Set to 1 for the Aux source to be reported as its channel number. Set to 0 for the Aux source to be reported as channel 0. See Reference section, “TV Aux Input Configuration,” for Direct Access channel numbers.

053 - DIS. CH-TIME (Disable Channel-Time Display)
Set to 1 to disable the TV’s native Channel-Time display when a custom channel label/channel information will be provided by the MPI command. Set to 0 to enable the TV’s native Channel-Time display.

069 - EN. CH-T COL. (Enable Display Characters Custom Color)
Set to 1 to enable custom color for MPI display characters. Set to 0 to disable custom color for MPI display characters.

070 - FOR. CH-TIME (Display Characters Foreground Color)
Set the foreground color for MPI display characters according to the following color chart:

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Green</td>
</tr>
<tr>
<td>4</td>
<td>Red</td>
</tr>
<tr>
<td>6</td>
<td>Yellow</td>
</tr>
<tr>
<td>1</td>
<td>Blue</td>
</tr>
<tr>
<td>3</td>
<td>Cyan</td>
</tr>
<tr>
<td>5</td>
<td>Violet</td>
</tr>
<tr>
<td>7</td>
<td>White</td>
</tr>
</tbody>
</table>

If the foreground and background colors for the display characters are the same, the background will be transparent.

Note: This item and item 071 BCK. CH-TIME also apply to the “Channel Not Available” message if item 073 CH NOT AVBLE is set to 1 (enabled).

Note: Items 070 FOR. CH-TIME and 071 BCK. CH-TIME are only available in the Installer Menu when item 069 EN. CH-T COL. is set to 1.

071 - BCK. CH-TIME (Display Characters Background Color)
See description for item 070 FOR. CH-TIME above. The color chart is the same for both items.

073 - CH NOT AVBLE (Channel Not Available)
If set to 1 and item 028 CH. OVERIDE is set to 0, a “CHANNEL NOT AVAILABLE” message is displayed when a user attempts to direct tune a channel that is not included in the channel lineup.

Note: This item is not available in the Installer Menu when item 028 CH. OVERIDE is set to 1.

Note: This item is only applicable when the TV is in PTC-CTV Mode.

075 - REVERT CH (Revert to Start Channel)
If set to 1 and loss of MPI communication occurs, the TV automatically tunes to the specified Start Channel.

Note: This item is not available in the Installer Menu when item 004 STRT CHANNEL is set to 255.

077 - QUICK SHUTOFF
Allows end user (patient) to turn OFF TV using mechanical (analog) Pillow Speaker Channel Up/Down buttons. Patient needs to press and hold either channel button for time determined by value set. Set to 0 to disable. Set from 1 to 17 to establish required hold time of button—from 2 seconds to 10 seconds in half-second increments.

Note: This item is not available in the Installer Menu when item 013 SCAN MODE is set to 0.

078 - UPN MSB (UPN Most Significant Byte)
User programmable number, most significant byte readable by MPI command. Note: Not linked to serial number.

079 - UPN MSB-1 (UPN Most Significant Byte-1)
User programmable number, most significant byte-1 readable by MPI command. Note: Not linked to serial number.

080 - UPN MSB-2 (UPN Most Significant Byte-2)
User programmable number, most significant byte-2 readable by MPI command. Note: Not linked to serial number.

081 - UPN LSB (UPN Least Significant Byte)
User programmable number, least significant byte readable by MPI command. Note: Not linked to serial number.

082 - CHKSM ERROR (Checksum Error)
Enforces rigid MPI checksum validation. Set to 1 for validation. Set to 0 to disable (does not check checksum on MPI async port). SPI is always checked.

083 - HANDSHK TIME (Handshake Time)
Determines the MPI timing requirement of the (STB’s) MPI command to follow the end of the transmission of the (display’s) MPI Status Response. Value range is 0 to 5. Changing from default may affect communication via MPI.

(Handshake Time = 25.5 ms + [25.5 ms x item value])

084 - PERMANENT BLK (Permanent Block)
Allows Parental Control blocking schemes to be permanent by disabling the user’s ability to limit blocking hours in the Function Menu. Set to 1 to install Parental Control restrictions permanently. Set to 0 for user-specified hours control of blocking schemes. See also item 022 MAX BLK HRS.

Note: This item is not available in the Installer Menu when item 021 V-CHIP is set to 0.

088 - EN NOISE MUTE (Enable Noise Mute)
Applicable for analog channels only. If set to 1, audio mutes if no signal is present.
**090 - KEY LOCK**
If set to 1, Key Lock is enabled, which means that the display panel power button function will be locked, i.e., non-functional. Set to 0 to disable Key Lock. Note that all IR features remain functional regardless of this setting.

**091 - HDMI2 ENABLE**
Set to 1 to enable HDMI 2 input in DTV Mode. Set to 2 to enable HDMI 2 input in PC Mode. Set to 0 to disable display panel HDMI 2 input.

**094 - SAP MENU EN (2nd Audio Program)**
Set to 1 to enable the SAP feature in the Function Menu (i.e., TV is not in Pass-through Mode). Set to 0 to disable the SAP feature in the Function Menu.

**096 - DEF. ASP. RATIO (Default Aspect Ratio)**
Selects the aspect ratio to be set as default each time the TV is turned ON:
- 0 = Set By Program
- 1 = 4:3
- 2 = 16:9 (default)
- 3 = Just Scan
- 4 = Zoom

**097 - AUDIO OUTPUT**
Determines availability and signal type/level (fixed speaker, variable speaker, or fixed line level [amplifier]) of the audio output to be used by external audio equipment connected to the SPEAKER OUT / LINE OUT jack on the TV. Set to 0 to disable audio output. Otherwise, see the table below and set as required in accordance with audio equipment. See also Reference section, “External Stereo Speaker Specifications.”

<table>
<thead>
<tr>
<th>Value</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fixed 0.01 Watts</td>
</tr>
<tr>
<td>2</td>
<td>Fixed 0.03 Watts</td>
</tr>
<tr>
<td>3</td>
<td>Fixed 0.05 Watts</td>
</tr>
<tr>
<td>4</td>
<td>Fixed 0.10 Watts</td>
</tr>
<tr>
<td>5</td>
<td>Fixed 0.20 Watts</td>
</tr>
<tr>
<td>6</td>
<td>Fixed 0.50 Watts</td>
</tr>
<tr>
<td>7</td>
<td>Fixed 1.00 Watt (default)</td>
</tr>
<tr>
<td>8</td>
<td>Control with volume</td>
</tr>
<tr>
<td>9</td>
<td>Fixed line level (typically 400 mVrms ± 100 mVrms @10kΩ) output</td>
</tr>
</tbody>
</table>

**098 - PRO:CENTRIC**
Selects the Pro:Centric Application Mode. Set to 0 (default) to disable the Pro:Centric application. Set to 2 for GEM (Java Application) Mode.

**099 - BACK LIGHTING**
Sets the TV screen brightness at power up. Default setting is 255.
- 1 (dimmest picture) – 100 (brightest picture) Static Back Lighting
- 101 (dimmest picture) – 200 (brightest picture) Dynamic Back Lighting: The TV automatically controls back lighting depending upon the picture level of the current program.
- 201 Automatic Static Back Lighting: The TV automatically controls back lighting by using Intelligent Sensor to detect the level of ambient lighting.
- 202 Automatic Dynamic Back Lighting: The TV automatically controls back lighting by using Intelligent Sensor to detect the level of ambient lighting and depending upon the picture level of the current program.

If set to 201 or 202, back lighting can be controlled via the Picture settings in the TV setup menus. However, each time the TV is turned ON, Picture Mode (set in Picture Menu) is defaulted to Intelligent Sensor. If Picture Mode is manually set to a static option (Vivid, Standard, etc.) during a viewing session, Intelligent Sensor is temporarily disabled.

If set to 255, back lighting is controlled via the Picture settings in the TV’s setup menus.

**102 - ATSC BAND**
Selects the RF band used by the ATSC tuner:
- 0 = Broadcast
- 1 = Cable
- 2 = HRC
- 3 = IRC
- 4 = Same as NTSC (default)

**103 - ATSC TUNE MODE**
Sets the ATSC tuning mode. Set to 1 (default) for Physical Channel tuning. Set to 0 for Virtual Channel tuning.

**104 - START MINOR CHANNEL**
When a digital (ATSC) Start Channel has been specified for item 004 STRT CHANNEL, this item sets the Minor Start Channel number. Set to 0 when an analog (NTSC) Start Channel has been specified for item 004.

**Note:** This item is not available in the Installer Menu when item 004 STRT CHANNEL is set to 0 or 255.
106 - ASP RATIO LOCK (Aspect Ratio Lock)
Set to 0 to use the default aspect ratio each time the TV is turned ON (see item 096 DEF. ASP. RATIO). If set to 1, the aspect ratio set before the TV was turned OFF will be the current aspect ratio when the TV is turned ON again.

107 - BANNER SELECT
Selects the type of banner to display during channel change. Set to 1 for Channel-Time display, plus channel information (full banner). Set to 0 for Channel-Time display only (small banner).

116 - VIDEO MUTE EN (Video Mute Enable)
Applicable for analog channels only. If set to 1, video mutes (blank screen) when no signal is present.

117 - FACT DEFAULT (Factory Default)
Set to 1 and press OK to restore the factory default settings of all Installer Menu items. Once complete, the value returns to 0.

Caution: If set to 1, this clears all Installer Menu custom settings and restores the factory default settings. It also clears the channel lineup, including any assigned channel icons and custom text labels.

Note: See also Reference section, “Restoring Factory Defaults on the TV(s),” for further information.

118 - POWER SAVINGS
Default set to 3—the power circuitry for both the embedded b-LAN module and the GAME CONTROL/MPI port is only powered when the TV is turned ON. When the TV is turned OFF, the embedded b-LAN and the GAME CONTROL/MPI port are not powered.

Note that the TV must be turned ON in order to communicate with the embedded b-LAN module for configuration and control when POWER SAVINGS is set to 3. If POWER SAVINGS is set to 1, the b-LAN module is always powered.

Similarly, if MPI communication is required for external MPI control, POWER SAVINGS should be set to 1 so that the GAME CONTROL/MPI port circuitry is always powered.

Note: See Reference section, “b-LAN Setup & Overview,” for further information.

Caution: POWER SAVINGS should NEVER be set to 7. This setting is intended for factory use only.

119 - DATA CHANNEL
Set to 0 to disable. Set from 1 to 135 to match the RF channel number that will be used by the Pro:Centric server as its data channel.*

For TVs in Pass-through Mode or FTG Mode via CPU, if this item is left at its default value (255), the TV’s Data Channel Auto Search feature will be enabled (see additional information below).

Note: The Data Channel Auto Search feature is not available when the TV’s EBL is in FTG Mode. If the DATA CHANNEL value is 255 when the TV is configured for FTG Mode via EBL, DATA CHANNEL is defaulted to 0.

Data Channel Auto Search feature: When this item is set to 255 (default), once every 24 hours, the TV will initiate a search of 10 predefined channels (10, 20, 30, ..., 100) and then, if necessary, perform a complete search of the RF channels (1 to 135) in an attempt to find the RF channel used by the Pro:Centric server as its data channel. If the Pro:Centric RF channel is found, the DATA CHANNEL value will be changed from 255 to match the server’s RF channel number. The time at which the Auto Search occurs depends on the setting of item 121 P:C RF WAKE HR. See item 121 description for further information.

Note: Pro:Centric updates are downloaded from the Pro:Centric server to the TV when the TV is turned OFF. While Pro:Centric updates are in progress, it is not possible to turn ON the TV.

121 - UPDATE TIME HR
Based on the settings of this item and item 122 UPDATE TIME MN, the Wake For Update feature wakes the TV once daily to check for and, if applicable, download updates from the Pro:Centric server.

Set the Wake For Update hour from 0 to 23. This item uses the 24-hour clock format. The value “128” (default) is displayed as “OFF.” Directly entering 128 resets the default value (OFF) for this item, though note that this setting does not mean the TV will not initiate update events—see additional information below.

Under standard TV OFF/ON operating conditions (i.e., item 002 AC ON is set to 0), a Wake For Update event occurs when the TV is OFF and causes the TV’s CPU to temporarily turn ON, perform the update cycle, and then turn back OFF, all while the TV appears to be OFF. If item 002 AC ON is set to 2, 3, 18, or 19 for Instant ON, then the TV’s CPU is always ON and Wake For Update occurs when the TV is in its Muted ON state (i.e., the TV only appears to be OFF). The Wake For Update event causes the TV’s CPU to reboot in order to perform the update cycle and then return to its Muted ON state. See also description for item 002.

If this item is set to 128 (OFF), the time at which a Data Channel Auto Search (item 119 set to 255) and/or an Instant ON update (item 002 set to 2, 3, 18, or 19) occurs is determined as follows:

The TV initiates the search and/or checks for updates at 2:00 AM (if the TV clock is set) or after two hours of elapsed time from when AC power was applied (if the TV clock is not set). If the TV display is ON when a Wake For Update event is to occur, the update will take place the next time the TV is turned OFF.

* PCS150R and later Pro:Centric servers do not support HRC or IRC cable channel frequencies.
Caution: UPDATE TIME HR should NEVER be set to 255. This setting is intended for factory use only.

Note: This item is not available in the Installer Menu when item 119 DATA CHANNEL is set to 0, except when item 002 AC ON is set to 2, 3, 18, or 19 for Instant ON.

Note: The TV clock must be set in order for a Wake For Update event to occur at the precise time of day in accordance with item 121 and item 122 settings.

122 - UPDATE TIME MN
Set the Wake For Update minute from 0 to 59. See also description for item 121 UPDATE TIME HR above.

Note: This item is not available in the Installer Menu unless item 121 UPDATE TIME HR is set from 0 to 23.

Note: The TV clock must be set in order for a Wake For Update event to occur at the precise time of day in accordance with item 121 and item 122 settings.
Custom Master TV Setup

This section describes how to create a customized Master TV Setup for cloning purposes when the TV is in Pass-through Mode. All cloning (export and import) processes on the TV are performed via USB memory device / "tlx" file. The Master TV Setup may be exported to a Clone (.tlx) file, which can then be used (i.e., imported) to configure either TVs that are to remain in Pass-through Mode or TVs that are to be configured for FTG Mode via CPU.

Cloning requirements and procedures are described in detail on pages 50 to 55.

Note: You can also use the Cloud Configuration Tool to create an FTG Configuration (.tlx) file for FTG Mode via CPU configuration/cloning purposes, if desired (see pages 56 to 58). However, it is not possible to customize TV setup menu settings in the Cloud Configuration Tool. If you wish to include customized TV setup menu settings in the TV configuration, in addition to the channel lineup and Installer Menu settings, perform the Master TV Setup procedure to create a Clone (.tlx) configuration file.

Before You Begin

• It is recommended that you disconnect all Aux inputs if you intend to run Auto Tuning (Channel Search). Under certain conditions, Auto Tuning is disabled if there is an Aux input active.

• A Clone (.tlx) file comprises Installer Menu settings and all TV sources’ analog, digital, AV, HDMI, etc.) clonable setup menu settings. See also "Clonable TV Setup Menu Features” list below.

• If the “.tlx” file (either a Clone or FTG Configuration file) to be imported on the Target TV(s) contains an FTG Channel Map, the Target TV(s) will be configured for FTG Mode via CPU, though as part of the import process, you will have the option to select either logical or physical channel tuning. If you would like the Target TV(s) to remain in Pass-through Mode, the "tlx” file should not include an FTG Channel Map.

Clonable TV Setup Menu Features

<table>
<thead>
<tr>
<th>Picture</th>
<th>Channels</th>
<th>Accessibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture Mode Settings</td>
<td>Auto Tuning (Channel Lineup)</td>
<td>Audio Guidance</td>
</tr>
<tr>
<td>Additional Settings</td>
<td>Manual Tuning</td>
<td>Closed Caption</td>
</tr>
<tr>
<td>Sound</td>
<td>Channel Manager</td>
<td>Accessibility</td>
</tr>
<tr>
<td>Sound Mode Settings</td>
<td>Channel Label</td>
<td>Audio Guidance</td>
</tr>
<tr>
<td>Auto Volume</td>
<td>Accessibility</td>
<td>Audio Guidance</td>
</tr>
<tr>
<td>Sound Out</td>
<td>Accessibility</td>
<td>Audio Guidance</td>
</tr>
<tr>
<td>AV Sync Adjustment</td>
<td>Accessibility</td>
<td>Audio Guidance</td>
</tr>
<tr>
<td>TV Installation Type</td>
<td>Accessibility</td>
<td>Audio Guidance</td>
</tr>
</tbody>
</table>

Note: Some menu options vary between digital and analog channels and Aux inputs.
Custom Master TV Setup (Cont.)

Custom Master TV Setup Procedure

1. Turn ON the TV.

   The next step depends on whether the First Use Wizard appears on the screen when you turn ON the TV:

   • If the wizard is displayed, the TV is in the required factory default state. To continue with this procedure, exit the wizard, and then go to step 2.

     **Note:** If desired, you may also use the First Use Wizard / Express Script to create an Express Script TV Setup for cloning purposes. See “Express Script” on pages 22 to 30 for further information. Note that TV setup menu customization via the Express Script is limited to Channel Menu options.

   • If the wizard is not displayed, restore the TV to a factory default condition before continuing with this procedure. See Reference section, “Restoring Factory Defaults on the TV(s),” as necessary, for further information.

2. **Set Installer Menu items.**

   This step provides specific instruction only on the Installer Menu items that should be set on a Master TV. Refer to pages 35 to 46 for detailed information on all Installer Menu items.

   a) Use the Installer Remote to access the Installer Menu (see “Accessing the Installer Menu” on page 35 for further information).

   b) Set Installer Menu item **003 BAND/AFC**, as appropriate.
      - Broadcast: Set to 0.
      - HRC: Set to 2.
      - Cable: Set to 1 (default).
      - IRC: Set to 3.

   c) Set Installer Menu item **027 HOSPITAL MODE**, as appropriate, to select the speaker configuration.

     **Note:** This setting also determines whether channel banks are applied. See item 027 description for further information. The TV Zoning feature is only available when item 027 is set to 0 (i.e., Hospital Mode is disabled).

   d) Set any other Installer Menu items that affect your TV programming network to the required configuration. For example, enable/disable Aux inputs, set a Start Channel, etc.

   e) After you have adjusted all Installer Menu item settings as required, press **OK** once on the Installer Remote to save your changes; then, press **OK** again to exit the menu.

   (Continued on next page)
3. Set up TV features.

On-screen setup menus control the features of the TV. Press MENU on the Installer Remote to access the TV setup menus, and then set Picture, Sound, Channels, etc. options to the desired configurations. See “Clonable TV Setup Menu Features” list on page 47 and also notes below.

**Note:** If you intend to use the TV Zoning feature, make sure to set the appropriate TV Zone # at this time as described in Reference section, “Using the TV Zoning Feature.” See also note in step 2(c) regarding Hospital Mode and TV Zoning availability.

**Note:** If desired and if appropriate, you can run Auto Tuning (see step 5) prior to completing this step.

4. (Optional) Run Auto Tuning.

If you are creating a Master TV Setup for cloning purposes and you want the Target TV(s) to remain in Pass-through Mode, do NOT run Auto Tuning. If you export a Master TV Setup that includes an auto-tuned/edited channel lineup, thereby creating a Clone (.tlx) file with an FTG Channel Map, and then import the Clone file to a Target TV, this will put the Target TV in FTG Mode via CPU.

**Note:** When you import a Clone/Configuration (.tlx) file that contains an FTG Channel Map on a Target TV (for FTG Mode via CPU configuration), you will have the option to select either logical or physical channel tuning. For either selection, the channel sequence will be based on the order in which the channels appear in the FTG Channel Map. You can view and/or edit the channel sequence in the Cloud Configuration Tool, as required.

a) Use the Installer Remote to access the Channels Menu. Then, select Auto Tuning and follow the on-screen instructions to search for all available digital and analog channels.

b) Use the Channel Manager option in the Channels Menu to edit the channel lineup, as necessary. Add/delete channels per your system requirements.

5. Verify the TV setup.

Make sure the TV features are set per your requirements. Also, if applicable, verify that the channel lineup is correct.

The Master TV Setup is now ready to be saved (exported) to a USB memory device. See “Cloning Procedures” on pages 50 to 55.
Cloning Procedures

Cloning typically refers to the process of using a Master TV Setup to configure a Target TV. This section describes how to save (export) a Master TV Setup and then transfer (import) it to a Target TV using a USB memory device / Clone (.tlx) file.

You can also create an FTG Configuration (.tlx) file using the Cloud Configuration Tool and then use the Import Clone File procedure to transfer the configuration to Target TVs. Refer to “Creating an FTG Configuration File” on pages 56 to 58, as necessary.

Exporting a Clone File

This section describes how to use the TV Manager “Export Clone File” option to export Master TV Setup (including Express Script TV Setup) configuration to a USB memory device / Clone (.tlx) file.

Before You Begin

• Ensure the USB device has been formatted with FAT format.
• If applicable, complete the Custom Master TV Setup procedure (see pages 47 to 49).
• If you would like the Target TV(s) to remain in Pass-through Mode after the Clone file is imported, ensure the Master TV does not have an auto-tuned/edited channel lineup; otherwise, importing the exported file will result in the Target TV(s) being configured for FTG Mode via CPU.
• If you intend to use the TV Zoning feature, make sure to set the appropriate TV Zone # as described in Reference section, “Using the TV Zoning Feature,” BEFORE performing the procedure below.

Note: The TV Zoning feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See item 027 description on page 41 for further information.

• It is not possible to clone a Master TV’s clock. Either set a Target TV’s clock manually, or use the Auto Clock setting in the TV setup menus.
• Since the Export Clone File process retrieves the channel lineup from the CPU, if the TV is currently in FTG Mode via EBL (FTG Channel Map resides in EBL) it is not possible to export an FTG Channel Map.

Caution: Do not unplug the TV power cord or remove the USB memory device while exporting is in progress, as doing so may cause the TV to malfunction or harm the USB device, respectively.

Export Clone File Procedure

1. Ensure the Master TV is set up completely and turned ON.
2. Insert the USB memory device into the USB port on the Master TV.
3. Press MENU on the Installer Remote to display the TV setup menus (TV is in Pass-through Mode) or the Function Menu (TV is already in FTG Mode).
4. Use the arrow navigation keys to select/highlight either the General menu icon from the TV setup menus or the Safety menu icon from the Function Menu. Then, press the number “7” key a total of seven times to access the TV Manager.

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**Note:** Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.

5. To gain access to the “Export Clone File” option in the TV Manager, key in the following number sequence on the Installer Remote: **9-8-7-6**.

![TV Manager Interface](image)

6. Use the Up/Down arrow keys to select **Export Clone File**, and then press **OK**.

   Clone file parameters will be displayed on the screen. See example below.

![Export Clone File Screen](image)

7. Modify the filename, as required. While the TV model element of the filename may not be changed, you can differentiate this Clone file from other LT572M Clone files by changing the numeric assignment appended to the end of the filename. Use the Up/Down arrow keys to scroll through numeric assignments until the desired number is shown.

   ![Modified Filename](image)

(Continued on next page)
8. When you are ready to continue, i.e., when you have selected the desired filename, press **OK** to export the file.

   Export progress will be displayed on the screen. This process may take a few minutes. Do NOT remove the USB device while exporting is in progress. When the export process is complete, an “Export Clone File is completed” pop-up message will be displayed on the screen.

9. Press **OK** to return to the TV Manager. To return to program viewing, press ＞ on the Installer Remote.

10. Remove the USB memory device from the Master TV.

    **Note:** If the Master TV has a channel lineup, during the export process, logical channel numbers are automatically assigned in ascending order, starting with 0 (zero), to the physical RF channels of the TV channel lineup to create an FTG Channel Map. See also note below.

    **Note:** If the exported Clone file is to be used for FTG Mode via CPU configuration (i.e., it contains an FTG Channel Map), it is highly recommended that you open the file in the Cloud Configuration Tool—BEFORE transferring (importing) the file to any Target TVs—to verify FTG Channel Map and FTG Installer Menu settings. This will also enable you to confirm channels and add channel attributes, labels, etc.

**Importing a Clone File**

This section describes how to transfer (import) a Clone or FTG Configuration (.tlx) file from a USB memory device to a TV using the TV Manager “Import Clone File” option. The “.tlx” file may be created either from a Master TV Setup that was saved (exported) from a Master TV or in the Cloud Configuration Tool.

**Before You Begin**

- Ensure the USB device has been formatted with FAT format.
- Avoid using special characters, such as ?, &, @, etc., in the Clone/Configuration (.tlx) filename.
- If you have initiated the EZ-Manager Wizard, you can use the wizard’s “USB Configuration” option to access the TV Manager and complete the import procedure, if desired (see “TV Configuration Options” and/or “USB Configuration” on pages 14 and 19, respectively, as necessary).
- You may also use the Ez Download utility to import the Clone/Configuration (.tlx) file. See “Ez Download Utility” on pages 31 to 34 for further information.
- If the Target TV is currently in Pass-through Mode and you intend to use the TV Zoning feature—i.e., the Clone/Configuration (.tlx) file you are importing contains an FTG Channel Map and/or FTG profile(s) with TV Zone assignments—make sure to set the appropriate TV Zone # in the TV when directed to do so in the procedure below. See Reference section, “Using the TV Zoning Feature,” for further information.

    **Note:** The TV Zoning feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See item 027 description on page 41 for further information.

(Continued on next page)
• If you would like the Target TV(s) to remain in Pass-through Mode after the Clone/Configuration (.tlx) file is imported, ensure the "tlx" file does not contain an FTG Channel Map; otherwise, the import will result in the Target TV(s) being configured for FTG Mode via CPU.

• If a Clone (.tlx) file (exported Master TV Setup) contains an FTG Channel Map, the physical RF channels in the FTG Channel Map have been assigned logical channel numbers (see “Exporting a Clone File” above). When you import the Clone file with the FTG Channel Map on the Target TV(s), you will have the option to select either logical or physical channel tuning. Even if you select physical channel tuning, the (list of) physical RF channels in the FTG Channel Map will remain in logical order.

• If an FTG Configuration (.tlx) file (created in the Cloud Configuration Tool) contains an FTG Channel Map, each logical channel number in the FTG Channel Map has been assigned a physical RF channel or an Aux input (the latter designated by 130-0 through 137-0—see also Reference section, "TV Aux Input Configuration").

  **Note:** When you import the FTG Configuration file on the Target TV(s), you will have the option to select either logical or physical channel tuning. If you select physical channel tuning, the physical RF channels and Aux inputs in the FTG Channel Map will remain in logical order.

• If the Target TV EBL is already in FTG Mode, you cannot use this procedure to make changes to the FTG Channel Map and FTG Installer Menu settings. You must use a direct PC-to-TV connection as described in Reference section, “FTG Mode via EBL (Local Configuration),” or an FMA head end device to reconfigure the EBL.

• If the preceding condition applies, but you wish to switch the TV to FTG Mode via CPU, see Reference section, “Restoring Factory Defaults on the TV(s),” for further information before proceeding.

• If the Clone/Configuration (.tlx) file was edited/created in the Cloud Configuration Tool, it may contain multiple zoned FTG Installer Menu profiles for different TV models. Make sure it includes the appropriate Installer Menu profile(s) for the Target TV(s) before performing the procedure below.

  **Caution:** Do not unplug the TV power cord or remove the USB memory device while importing is in progress, as doing so may cause the TV to malfunction or harm the USB device, respectively.

**Import Clone File Procedure**

1. Turn ON the Target TV.

2. The next step depends on whether the First Use Wizard appears on the screen when you turn ON the TV:

   • If the wizard is displayed, you can complete the import procedure via the EZ-Manager Wizard, as indicated above (see “Before You Begin”). However, to continue with this procedure and access the “Import Clone File” option from the TV menus, exit the First Use Wizard. Then, continue with step 3.

   • If the wizard is not displayed, go directly to step 3.
(Continued from previous page)

3. If applicable (see also “Before You Begin” above), make sure to set the appropriate TV Zone # in the Target TV at this time.

⚠️ **Note:** In order for the proper TV Zone profile data to be applied, the appropriate TV Zone # must be set in the Target TV BEFORE importing is initiated.

4. Insert the USB memory device with the Clone/Configuration (.tlx) file into the USB port on the Target TV.

5. Press **MENU** on the Installer Remote to display the TV setup menus (TV is in Pass-through Mode) or the Function Menu (TV is already in FTG Mode).

6. Use the arrow navigation keys to select/highlight either the **General** menu icon from the TV setup menus or the **Safety** menu icon from the Function Menu. Then, press the number “7” key a total of seven times to access the TV Manager.

**Note:** Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.

7. Use the Up/Down arrow keys to select **Import Clone File**, and then press **OK**.

![TV Manager Menu](image)

8. In the Import Clone File window, use the Up/Down arrow keys to select the “.tlx” file you want to import (see example on following page).

**Note:** Filenames of exported Clone files are comprised of the TV model and a numeric element, for example, xxLT572M-UA00001.TLX.

9. If the Clone/Configuration (.tlx) file includes an FTG Channel Map, select the desired Channel Tuning / Channel Banner Display option at the right side of the Import Clone File window:

- Press the green 💚 button on the Installer Remote to select **Logical** tuning.
- Press the yellow 📅 button on the Installer Remote to select **Physical** tuning.

(Continued on next page)
A checkmark will appear at the left of the selected option. Logical tuning is selected by default.

**Note:** If the ".tlx" file does not include an FTG Channel Map, the message, "No Channel Map in Clone file," will be displayed at the right of the screen.

10. When you are ready to continue, press **OK** on the Installer Remote.

   Import progress will be displayed on the screen. This process may take a few minutes. Do NOT remove the USB device while importing is in progress. When the import process is complete, an "Import Clone File complete" message will briefly be displayed, and then the TV will exit the TV Manager.

11. Remove the USB memory device from the Target TV, and verify that the appropriate configuration is now resident on the Target TV.

   **Note:** If the Target TV was previously in Pass-through Mode and the Clone/Configuration (.tlx) file that was imported contained an FTG Channel Map, the Target TV CPU is now in FTG Mode. After the import process is complete, the TV tunes according to the Start Channel setting in the Installer Menu. If a Start Channel is specified, the TV will tune to that channel, though, in the case of FTG Mode via CPU configuration, a channel banner will only be displayed if the Start Channel is included in the FTG Channel Map (depending on your selection in step 9, the channel banner will display either the Start Channel's logical channel number or physical RF channel number). Otherwise, the TV will either return to the last channel tuned (TV in Pass-through Mode) or tune to the first channel in the FTG Channel Map (TV in FTG Mode via CPU). If the latter, remember that the channels in the FTG Channel Map are always arranged in logical order, regardless of your selection in step 9.
Cloud Configuration Tool Overview

As indicated in the introduction to this document, there are two separate and distinct methods for configuring LT572M TVs for FTG Mode of operation: one method is to configure the TV CPU for FTG Mode operation, while the other is to configure the TV EBL for FTG Mode operation. FROM A LOCAL CONFIGURATION STANDPOINT, EACH OF THESE METHODS IS MUTUALLY EXCLUSIVE. IF THE CPU IS IN FTG MODE, THE EBL CANNOT BE SWITCHED TO FTG MODE. LIKEWISE, IF THE EBL IS IN FTG MODE, THE CPU CANNOT BE SWITCHED TO FTG MODE.

This section provides an overview of LG’s Cloud Configuration Tool web application, which is used for FTG Mode via CPU configuration. For best results, it is recommended that you access the Cloud Configuration Tool using one of the following web browsers: Google Chrome™ 51 or later or Mozilla Firefox® 47 or later.

Creating an FTG Configuration File

The subsections below briefly describe how to use the Cloud Configuration Tool to create an FTG Configuration (.tlx) file that can be used to configure the TV for FTG Mode via CPU. The Cloud Configuration Tool provides options both for advanced and new users. If you are not familiar with the steps to create an FTG Configuration file, you may choose a Wizard Setup that will guide you through the process of creating a new file. Refer to the Cloud Configuration Tool User Guide for further information.

Note: There is also an option to save (export) configuration from a TV, which may be desirable or required if you want to save customized TV setup menu settings to the FTG Configuration file and/or if you do not know the RF channels at the site. See “Exporting a Clone File” on pages 50 to 52 for further information.

Access the Cloud Configuration Tool and Select a Setup Option

1. Launch a web browser, and navigate to the following URL: cct.procentric.tv.
2. On the Welcome web page, make sure North America (default) is selected in the Select Your Region field, and then click on the SELECT button at the right of the field.
3. Once you select your region, you can choose the desired setup option, depending on your familiarity with the utilities and/or your file requirements:

(Continued on next page)
Cloud Configuration Tool Overview (Cont.)

(Continued from previous page)

• If you are creating an FTG Configuration file from scratch and this is your first time using the Cloud Configuration Tool, you may wish to select the wizard setup, which will guide you through the essential steps of creating the file, i.e., creating the FTG Channel Map and/or the Installer Menu profile(s). To initiate the wizard setup, click on the WIZARD SETUP button.

On the next wizard page you will be prompted to indicate whether you would like to create an FTG Channel Map. Note that an FTG Channel Map is required for FTG Mode operation. Once you complete (or bypass) Channel Map activities and proceed to the next step, you will be prompted to indicate whether you would like to create an Installer Menu profile. The final wizard step enables you to review a summary of the FTG Configuration (.tlx) file contents and then save (export) the file to your PC.

• To view and/or base a new FTG Configuration file on an existing FTG Configuration (.tlx) file, or if you do not require wizard guidance to complete your activities, click on the ADVANCED SETUP button.

The File Manager web page will be displayed, and you have a number of options.

The following procedure provides an overview of the Advanced Setup. Refer to the Cloud Configuration Tool User Guide for further information on both the Wizard Setup and the Advanced Setup.

Advanced Setup Overview

1. When you select ADVANCED SETUP from the Welcome page (see “Access the Cloud Configuration Tool and Select a Setup Option” above), the File Manager page is displayed (see example on page 59).

2. (Optional) If desired/appropriate, you may view and/or base the new FTG Configuration file on an existing FTG Configuration (.tlx) file:

   • Click on the BROWSE button at the right of the Find File to Upload field, and select/double-click on the desired “.tlx” file. Then, click on the UPLOAD button below the Find File to Upload field.

   Once the file is successfully uploaded, the Find File to Upload field is replaced with a Loaded From File summary of the file’s contents, including a Channel Map Summary, Installer Menu Summary, and Setup Menu Summary.

   • Double-click on each item in the Loaded From File summary at the left of the page that you would like to copy to the FTG Configuration List at the right of the page. As you move your mouse over the contents of a summary field, the field will be highlighted in blue, and arrows at the right of the field will indicate that the data may be copied to the FTG Configuration List.

   • Edit the configuration of the items in the FTG Configuration List as well as the FTG Configuration List itself, as necessary, to create a new file.

Note: While Setup Menu profiles can be included in the new FTG Configuration file (i.e., the profile[s] can be copied to the FTG Configuration List), Setup Menu profiles are not available for editing. However, on the File Manager page, you may change the Zone assignment for a Setup Menu profile, as required, for those models on which the TV Zoning feature is supported.

Note: If desired, you can click on the UPLOAD NEW FILE button below the list of Loaded From File items to select a different existing FTG Configuration file. If you want to add Installer Menu and/or Setup Menu profiles from more than one existing file to the new FTG Configuration file, make sure to transfer the appropriate items from the currently uploaded file to the FTG Configuration List before uploading a different file.

(Continued on next page)
3. If you need to edit the FTG Channel Map from an existing file (see previous step) or create a new FTG Channel Map, click on CHANNEL MAP in the menu options bar at the top left of the page to access the Channel Map web page (see example on page 60), and edit/create the FTG Channel Map. Up to 600 logical channels can be defined in the FTG Channel Map.

4. (Optional) To load default FTG Installer Menu settings by model, click on INSTALLER MENU in the menu options bar at the top left of the page to access the Installer Menu web page (see example on page 62), select the desired model/chassis ID and the desired Zone, and then click on the CREATE PROFILE button to create a new profile.

The new model profile will be added to the Installer Menu Profile List at the top right of the page, and the Installer Menu items for the selected model will now be displayed on the lower half of the page. The Summary tab shows the features that are available for configuration. Click on any Installer Menu item in the Summary tab or a category (User, Tuning, Audio, etc.) tab to view and/or edit its parameters, as required.

Note: Unless you select a different Zone assignment when you create the new profile, the default Zone 0 is assigned automatically. See Reference section, “Using the TV Zoning Feature,” for further information on the TV Zoning feature and setting the TV Zone # in the TV(s), though also note that the TV Zoning feature is only available when Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled). See item 027 description on page 41 for further information.

5. Click on FILE MANAGER in the menu options bar at the top left of the page to return to the File Manager web page. The FTG Configuration List will now be populated with summaries of the FTG Channel Map, FTG Installer Menu profile(s), and, if applicable, Setup Menu profile(s) you created or added in the previous steps. Review and edit the FTG Configuration List, as necessary.

Note: If you need to edit the Channel Map or an Installer Menu profile, double-click on the desired item to access the Channel Map page or the Installer Menu page, as applicable. When you return to the File Manager page, the FTG Configuration List is automatically updated with all Channel Map and Installer Menu changes. (Installer Menu and/or Setup Menu profile Zone assignments may be changed on the File Manager page.)

Note: To remove an individual item from the FTG Configuration List, click on the x at the right of the applicable item field. At the prompt for confirmation [Are you sure? Yes, No], either click yes to confirm and remove the item immediately, or click no to retain the item. To clear all current FTG Configuration List contents, click on the CLEAR LIST button at the bottom right of the FTG Configuration List.

6. Export the FTG Configuration List contents to an FTG Configuration (.tlx) file on the PC's hard drive for later use:
   • Type a brief descriptive name in the File Name field at the bottom of the FTG Configuration List (avoid using special characters, such as ?, &, @, etc.).
   • Click on EXPORT FILE.
   • In the Save As window (if applicable—see note below), select the desired location to which to export the file (you can also edit the file name here, if necessary), and click Save.

Note: Depending on the browser you are using and its current settings, files may automatically be saved to the “Downloads” or another designated folder on your PC. If you want to be able to select the folder in which to save the FTG Configuration file, check your browser settings.

7. Transfer the FTG Configuration (.tlx) file to a USB memory device, and proceed to “Importing a Clone File” on pages 52 to 55 to transfer the FTG Configuration file to an LT572M TV.
File Manager Web Page Overview

The File Manager page (displayed after you select ADVANCED SETUP from the Welcome page) enables you to compile, modify, and save (export) FTG Configuration (.tlx) files. The following example provides an overview reference of the functions available on the File Manager page.

- **Data contained in uploaded FTG Configuration (.tlx) file.** Users may choose to copy some or all of this data to the FTG Configuration List.
- **Data to be saved in the FTG Configuration (.tlx) file.** This data may include contents transferred from an uploaded file and/or Channel Map/Installer Menu contents created or modified in the Cloud Configuration Tool.

**Cloud Configuration Tool menu bar provides access to all utilities.**

- **Upload a new file, as required.**
- **Save (export) or reset (i.e., clear) the FTG Configuration List.**
- **The name of the new FTG Configuration file to be created.**
Cloud Configuration Tool Overview (Cont.)

Channel Map Web Page Overview
On the Channel Map page, you can create, view, and edit a Logical Channel Map.

- Search for existing channels or clear the FTG Channel Map.
- Click the RF CHANNEL button to add a new RF channel to the FTG Channel Map.
- (Advanced Setup only) Cloud Configuration Tool menu bar provides access to all utilities.
- (Wizard Setup only) Proceed to next step.
- Click the appropriate icon to either edit an existing Logical Channel's data (see below) or remove a channel from the FTG Channel Map.
The following example illustrates the fields that define the channel.

Select a channel icon (select “No Logo” if applicable), and/or enter a custom channel label.

Assign the RF, Major, and Minor channel numbers and PLP ID for the channel.

Set Zone restriction(s) per channel. Zones you select will be listed in the Restricted from Zones column. See also note below.

Enter a logical channel number.

Set channel attributes. Check/select Encrypted, OSD, or Blank Video.

After adding a new channel or editing an existing channel, save or cancel the changes.

Note: The application of FTG Channel Map Zone restrictions in the TV (see Restricted from Zones field in this screen) depends on the setting of Installer Menu item 027 HOSPITAL MODE (see item 027 description on page 41 for further details). If Installer Menu item 027 is set to 0, Hospital Mode is disabled, and TV Zoning / FTG Channel Map Zone restrictions may be set, as in Lodging models (see also Reference section, “Using the TV Zoning Feature”). When Hospital Mode is enabled, you can use Zones 1 to 4 to create custom channel lineups for Channel Banks 1 to 4 (see also “Channel Banks Overview” on pages 28 to 30). In the latter case, a checked Zone Restriction (1 to 4) checkbox means that the selected channel is “deleted” from the same numbered channel bank.
Installer Menu Web Page Overview

Load default Installer Menu for selected model. Assign Zone as applicable. Once you click on CREATE PROFILE, this Installer Menu profile will be listed under the Installer Menu Profile List, and Installer Menu items will be displayed on the lower half of the page.

Installer Menu profiles to be included in the FTG Configuration (.tlx) file. The currently active profile is highlighted.

Select tabs for categories of Installer Menu items to set up TV.

Reset default values for currently active configuration profile. A RESET button is also available within each category tab.

Note: The Pro:Centric tab enables you to set up Pro:Centric-specific parameters. Refer to the Cloud Configuration Tool User Guide for further information.
This section describes how to update TV (CPU) and/or PTC software using the TV Manager “Update TV Software” and/or “Update PTC Software” option(s), respectively, though you may also use the Ez Download utility to update software, if desired. See “Ez Download Utility” on pages 31 to 34 for further information.

Before You Begin

- Software update files must be stored in a folder named “LG_DTV” in the root directory of the USB memory device.
- Ensure the USB device has been formatted with FAT format.

Update the TV/PTC Software

Note: You can check the TV/PTC software versions by accessing the Installer Menu with the Installer Remote. See “Accessing the Installer Menu” on page 35 for further information. PTC and CPU versions are displayed in the Installer Menu footer.

Note for TV CPU Software Update only: If the TV detects a later version of software on the USB device, it will automatically display a dialog from which you can start the software update immediately. Otherwise, you can close the dialog, and access the TV Manager as described below.

1. Turn ON the TV, and then insert the USB memory device into the TV’s USB port.
2. Press MENU on the Installer Remote to display the TV setup menus (TV is in Pass-through Mode) or the Function Menu (TV is not in Pass-through Mode).
3. Use the arrow navigation keys to select/highlight either the General menu icon from the TV setup menus or the Safety menu icon from the Function Menu. Then, press the number “7” key a total of seven times to access the TV Manager.

Note: Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.
(Continued from previous page)

4. Use the Up/Down arrow keys to select **Update TV Software** or **Update PTC Software**, as applicable, and then press **OK**.

   Depending on your selection, a list of either TV or PTC software files stored in the LG_DTV folder on the USB memory device will be displayed on the screen. Above the listing of files, you can also see the current version of TV or PTC software. The following sample screen illustrates the Update TV Software window.

![Update TV Software Window](image)

5. Use the Up/Down arrow keys to select/highlight the update file to download. Then, press **OK**.

   **Note:** Do not select Forced Update options unless you have been specifically instructed to do so or have previous experience with Expert Software Updates.

Software update progress will be displayed on the screen. Do NOT remove the USB device until the software update is complete. When the software update is complete, an "Updating complete" message will briefly be displayed, and then, the TV will reboot.
This section describes how to download a boot logo image using the TV Manager “Download Boot Logo” option, though you may also use the Ez Download utility to download the boot logo, if desired. See “Ez Download Utility” on pages 31 to 34 for further information.

A boot logo image, also known as a “splash screen,” is briefly displayed when the TV is turned ON from its standby (OFF) state.

**Boot Logo Image File Guidelines**

- The boot logo image must be a baseline (not progressive) JPEG.
- The image should be no larger than 1 MB.
- The maximum resolution allowed for a 24/28/32LT572M boot logo is 1360 x 768 pixels (HD).
- The maximum resolution allowed for a 43LT572M boot logo is 1920 x 1080 pixels (FHD).
- Avoid using special characters, such as ?, &, @, etc., in the image filename.

**Before You Begin**

- The boot logo image file must be stored in a folder named “LG_DTV” in the root directory of the USB memory device.
- Ensure the USB device has been formatted with FAT format.

**Download the Boot Logo Image**

1. Turn ON the TV, and then insert the USB memory device into the TV’s USB port.
2. Press **MENU** on the Installer Remote to display the TV setup menus (TV is in Pass-through Mode) or the Function Menu (TV is not in Pass-through Mode).
3. Use the arrow navigation keys to select/highlight either the **General** menu icon from the TV setup menus or the **Safety** menu icon from the Function Menu. Then, press the number “7” key a total of seven times to access the TV Manager.

**Note:** Ez Download is always selected by default when you initially access the TV Manager. Also note that Diagnostics is for service use only.
4. Use the Up/Down arrow keys to select **Download Boot Logo**, and then press **OK**.

5. In the Download Boot Logo screen, use the Up/Down arrow keys to select the image file to download, and then press **OK**.

Boot logo image update progress will be displayed on the screen. Do NOT remove the USB device until the image update is complete. When the image update is complete, an “Updating complete” message will briefly be displayed, and then, the TV will automatically reboot. During the reboot, you should see the new boot logo.
The following tables assume that Installer Menu item 118 POWER SAVINGS is set to 3 (default) and Installer Menu item 099 BACK LIGHTING is set as shown below (default value is 255).

### Item 099 Back Lighting (Static)

<table>
<thead>
<tr>
<th>Item 099 Back Lighting (Static)</th>
<th>24LT572M</th>
<th>28LT572M*</th>
<th>32LT572M</th>
<th>43LT572M</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>20.5</td>
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<td>90</td>
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<td>70</td>
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<td>60</td>
<td>18.3</td>
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<td>50</td>
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<td>tbd</td>
</tr>
<tr>
<td>30</td>
<td>15.6</td>
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<td>tbd</td>
<td>tbd</td>
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<tr>
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</tr>
<tr>
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<td>11.5</td>
<td>44%</td>
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* 28LT572M data not available at the time of publication.

### Item 099 Back Lighting (Dynamic)

<table>
<thead>
<tr>
<th>Item 099 Back Lighting (Dynamic)</th>
<th>24LT572M</th>
<th>28LT572M*</th>
<th>32LT572M</th>
<th>43LT572M</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
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<td>0%</td>
<td>tbd</td>
<td>tbd</td>
</tr>
<tr>
<td>190</td>
<td>19.5</td>
<td>5%</td>
<td>tbd</td>
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<td>180</td>
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<td>43%</td>
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</table>

Note: Values are results of controlled experiments under laboratory conditions.
Reference: TV Aux Input Configuration

<table>
<thead>
<tr>
<th>Installer Menu Item 029 REMAP AUX INPS = 0</th>
<th>Installer Menu Item 029 REMAP AUX INPS = 1</th>
<th>Aux Input</th>
<th>Input Mode</th>
<th>Item</th>
<th>Function</th>
<th>Value</th>
<th>Enable Bit</th>
<th>Label</th>
<th>Value</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-0 91-0 AV (Rear) CV 39 REAR AUX EN 1 1 Rear Video (Aux) 1 0 VIDEO 1</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>132-0 92-0 HDMI 2 DTV 91 HDMI2 ENABLE 1 2 S-Video Rear 2 0 VIDEO 5</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>133-0 93-0 HDMI 1 DTV 35 HDMI1 ENABLE 1 3 Front Computer 3 0 VIDEO 3</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

* Use Installer Remote to enter channel number indicated based on REMAP AUX INPS Installer Menu setting.
The b-LAN module is internal to the TV. It allows hospital/institution head end equipment with b-LAN technology to communicate, via the institution’s RF distribution system, with the TV for configuration and control.

Installer Menu item 118 POWER SAVINGS controls the power circuitry for both the embedded b-LAN module and the GAME CONTROL/MPI port. The default value is 3—the b-LAN module is only powered when the TV is turned ON. See chart below.

<table>
<thead>
<tr>
<th>POWER SAVINGS</th>
<th>TV OFF</th>
<th>TV ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>3 (default)</td>
<td>Off</td>
<td>On</td>
</tr>
</tbody>
</table>

A b-LAN enabled head end device, such as an LG FMA-LG102, broadcasts over the RF distribution system to communicate to multiple TVs. When the TV is first installed, it must be turned ON in order for its embedded b-LAN module to receive communication from the head end device. At this point, if it is desired for the b-LAN module to always be powered, including while the TV is turned OFF, set Installer Menu item 118 POWER SAVINGS to 1.

Also, if MPI communication is required for external MPI control, set Installer Menu item 118 POWER SAVINGS to 1 so that the GAME CONTROL/MPI port circuitry is always powered.

⚠️ **Caution:** POWER SAVINGS should NEVER be set to 7. This setting is intended for factory use only.
Note: FTG Device Configuration Application version 5.5.8 is the latest and final release of this software. There will be no future releases. However, the application may still be used for FTG Mode via EBL configuration, as described below.

If you are using an FMA head end device for remote management and you wish to include FTG Installer Menu settings for these models in an FMA Configuration (.fma) file, you will need to “Read” FTG Installer Menu settings from a Master 24/28LT572M and/or 32/43LT572M TV (as applicable) that is already configured for FTG Mode via EBL. That is, you will need to perform all steps of the procedure below before you can add an FTG Installer Menu profile for this model to the FMA Configuration List in the FMA Configuration Utility. See the Free-To-Guest (FTG) Device Configuration Application User Guide for further information on the FMA Configuration Utility.

The following steps outline local FTG configuration of individual TV EBLs using a direct PC-to-TV (EBL) connection. Refer to the Free-To-Guest (FTG) Device Configuration Application User Guide for further information. FTG Device Configuration Application software is available online at: www.lg.com/us/business/display-solutions/ftg.

Note: If the TV CPU is already in FTG Mode, you cannot use this procedure to make changes to the FTG Channel Map and FTG Installer Menu settings. Refer to FTG Mode information on pages 7 to 9 for further details. If the preceding condition applies, but you wish to switch the TV to FTG Mode via EBL, see Reference section, “Restoring Factory Defaults on the TV(s),” for further information before proceeding.

1. Install (if necessary) and launch the FTG Device Configuration Application on the PC that will be used to configure the EBL.

2. Build an FTG Channel Map using the FTG Channel Map Editor in the FTG Channel Map Configuration Utility (or, if applicable, open an existing FTG Configuration [.rml] file).

   Note: Up to 141 logical channels can be defined in the FTG Channel Map.

3. Connect the PC to the TV-LINK CFG jack on the TV’s rear jack panel using a USB-to-TTL serial cable (TTL-232R-5V-AJ). If necessary, install the device driver on the PC.

(Continued on next page)
4. Turn ON the TV.
   **Note:** If Installer Menu item 118 POWER SAVINGS is set to 3 (default), the TV must be ON in order for steps 6 and 7 to be successful.

5. (Optional) Since the application is no longer being updated with new model profiles, these models are unknown to the application, which means that it is not possible to use the FTG Installer Menu Configuration Utility to change Installer Menu items.

   Therefore, if you would like to make any changes to the Installer Menu items, access the Installer Menu on the TV and make the desired/applicable changes to the items BEFORE configuring the EBL for FTG Mode in the next step.

6. "Write" the FTG Channel Map to the EBL (switches the EBL from Pass-through Mode to FTG Mode).
   **Note:** After a “Write” of new data, the TV will briefly display a green text banner that shows the EBL firmware version and release date.

7. "Read" the current FTG Installer Menu settings from the EBL using the FTG Installer Menu Configuration Utility.
   **Note:** When you “Read” the settings from the EBL, a pop-up notice will be displayed (see example below) to indicate that the chassis ID of this model is unknown and so a generic Installer Menu profile will be loaded. Click **OK** to dismiss the pop-up window and continue. The resulting “generic” profile contains all Installer Menu items, including a number of items that may not be applicable for this model. Refer to the Installer Menu section of this document for detailed information on Installer Menu items that are specific to the LT572M.

![Unknown Model Chassis ID](image)

8. Save the FTG Channel Map and FTG Installer Menu settings to an FTG Configuration (.rml) file for future use.

9. Tune the TV to a logical channel in the FTG Channel Map.
   **Note:** For information on remote management using an FMA, refer to the appropriate Installation & Configuration document for the FMA in use. For example, for an FMA-LG102, refer to the **FMA-LG102 Installation & Configuration Guide**.
This section provides detailed settings information for Installer Menu item 042 AUTO INPUTS. To disable auto-sensing for all available Aux inputs, set item 042 to 0. To enable auto-sensing for all available Aux inputs, set item 042 to 255. For specifications on all other available settings (i.e., settings for individual inputs), refer to the table on the following page.

**Note:** When both item 042 AUTO INPUTS and item 041 SIMPLINK EN are enabled in the Installer Menu, HDMI inputs will be detected by SIMPLINK, but the Auto Input(s) Sensing Feature will not function.

In the Installer Menu, an informational text code is displayed at the right of each Auto Inputs value, for example:

![AUTO INPUTS Display Code](image)

Each Auto Inputs text code consists of eight characters that identify the Aux input(s) for which auto-sensing is enabled. The following table identifies the Installer Menu text code input # for each Aux input that is available on the LT572M TV models. The table also identifies the Installer Menu item associated with each Aux input. Remember that in order for auto-sensing to be enabled for an input, that input must also be enabled in the Installer Menu.

**Input # Assignments**

<table>
<thead>
<tr>
<th>Installer Menu Display Code</th>
<th>Aux Input</th>
<th>Installer Menu Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>042 AUTO INPUTS 193 76XXXXX0</td>
<td>0</td>
<td>AV</td>
<td>039</td>
</tr>
<tr>
<td>042 AUTO INPUTS 193 76XXXXX0</td>
<td>6</td>
<td>HDMI 1</td>
<td>035</td>
</tr>
<tr>
<td>042 AUTO INPUTS 193 76XXXXX0</td>
<td>7</td>
<td>HDMI 2</td>
<td>091</td>
</tr>
</tbody>
</table>
The following table shows all available Aux inputs as if each is enabled in the Installer Menu. The Installer Menu text codes for item 042 will be altered accordingly if any of the available Aux inputs are disabled in the Installer Menu.

**Auto Inputs Values**

<table>
<thead>
<tr>
<th>Item 042 Value</th>
<th>AV</th>
<th>HDMI 1</th>
<th>HDMI 2</th>
<th>Installer Menu Text Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>DDXXXXXD</td>
</tr>
<tr>
<td>001</td>
<td>Enabled</td>
<td>Disabled</td>
<td>Disabled</td>
<td>DDXXXXX0</td>
</tr>
<tr>
<td>064</td>
<td>Disabled</td>
<td>Enabled</td>
<td>Disabled</td>
<td>D6XXXXXD</td>
</tr>
<tr>
<td>065</td>
<td>Enabled</td>
<td>Enabled</td>
<td>Disabled</td>
<td>D6XXXXX0</td>
</tr>
<tr>
<td>128</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Enabled</td>
<td>7DXXXXXD</td>
</tr>
<tr>
<td>129</td>
<td>Enabled</td>
<td>Disabled</td>
<td>Enabled</td>
<td>7DXXXXX0</td>
</tr>
<tr>
<td>192</td>
<td>Disabled</td>
<td>Enabled</td>
<td>Enabled</td>
<td>76XXXXXD</td>
</tr>
<tr>
<td>193</td>
<td>Enabled</td>
<td>Enabled</td>
<td>Enabled</td>
<td>76XXXXX0</td>
</tr>
<tr>
<td>255</td>
<td>Enabled</td>
<td>Enabled</td>
<td>Enabled</td>
<td>76XXXXX0</td>
</tr>
</tbody>
</table>

X = Aux input source is Disabled or Not Available (i.e., on these TV models)
D = Auto-sensing for input is Disabled
Input # = Auto-sensing for input is Enabled
Hospital Features

The following table identifies when and how the LT572M hospital features are supported in three different TV configurations. As indicated in the introduction to this document, LG commercial TV functionality is based on “ownership” of the Channel Map. For the purposes of this table, “CPU” indicates that the TV is in Pass-through Mode with the Channel Map in the CPU (i.e., auto-tuned/edited channel lineup) and “PTC” indicates that the TV is in Pass-through Mode with the Channel Map in the PTC (PTC-CTV Mode).

<table>
<thead>
<tr>
<th>Hospital Mode State</th>
<th>CPU</th>
<th>PTC</th>
<th>FTG/PPV Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installer Menu Item</td>
<td>Disabled</td>
<td>Enabled</td>
<td>Disabled</td>
</tr>
<tr>
<td>IR Banks Enable</td>
<td>012</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>013</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Start Channel in Scan Mode</td>
<td>014</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Feature Level</td>
<td>020</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Bed 1/Bed 2</td>
<td>020</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Multi-code IR</td>
<td>020</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Speaker</td>
<td>020</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Function Preview</td>
<td>025</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hospital Mode</td>
<td>027</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Bed 1/Bed 2</td>
<td>027</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Pillow Speaker Voltage</td>
<td>027</td>
<td>(a)</td>
<td>X</td>
</tr>
<tr>
<td>Speaker</td>
<td>027</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Quick Shutoff</td>
<td>077</td>
<td>(b)</td>
<td>(b)</td>
</tr>
</tbody>
</table>

Channel Banks

<table>
<thead>
<tr>
<th></th>
<th>CPU</th>
<th>PTC</th>
<th>FTG/PPV Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Banks Enabled</td>
<td>1</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Channel Preview/Banks Setup Menu</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Blanked Channel</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Inactive TV</td>
<td>X</td>
<td>X*</td>
<td></td>
</tr>
<tr>
<td>SAP Key (special use in Channel Preview/Banks Setup Menu)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Aux Input Sources

<table>
<thead>
<tr>
<th></th>
<th>CPU</th>
<th>PTC</th>
<th>FTG/PPV Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input List Menu</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Aux in Channel Lineup</td>
<td>X</td>
<td>X</td>
<td>(c)</td>
</tr>
</tbody>
</table>

TV Setup Menus

<table>
<thead>
<tr>
<th></th>
<th>CPU</th>
<th>PTC</th>
<th>FTG/PPV Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Out (TV Speaker)</td>
<td>(d)</td>
<td>(d)</td>
<td>(d)</td>
</tr>
<tr>
<td>General (Standby Light)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* Applicable for FTG Mode via CPU only.

X = feature supported

a) Zenith pillow speaker code/(+12v) supply voltage. (When Installer Menu item 027 is set to 254 [factory default value], there is no power [voltage] supplied to the pillow speaker interface.)

b) Quick Shutoff feature only functions when Scan Mode is enabled and if you are using an analog pillow speaker.

c) Dependent upon installer-defined FTG/PPV Channel Map.

d) Sound Out Menu is only accessible when the speaker selected is TV Only or both TV & Pillow.
**Speaker Selection**

The following table identifies the speaker sound source as determined by Installer Menu items 027 HOSPITAL MODE and 020 FEATURE LEVEL and the Sound Out setting in the Audio Menu.

<table>
<thead>
<tr>
<th>Item 027 HOSPITAL MODE Value</th>
<th>Item 020 FEATURE LEVEL Value</th>
<th>Audio / Sound Out Menu Setting</th>
<th>Sound Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0–24</td>
<td>TV Speaker</td>
<td>TV (Internal) Speaker</td>
</tr>
<tr>
<td>0</td>
<td>0–24</td>
<td>External Speaker</td>
<td>External Speaker*</td>
</tr>
<tr>
<td>0</td>
<td>64–65</td>
<td>N/A</td>
<td>Pillow Speaker</td>
</tr>
<tr>
<td>1–34</td>
<td>N/A</td>
<td>N/A</td>
<td>Pillow Speaker</td>
</tr>
<tr>
<td>65–98</td>
<td>N/A</td>
<td>TV Speaker</td>
<td>TV (Internal) Speaker</td>
</tr>
<tr>
<td>65–98</td>
<td>N/A</td>
<td>External Speaker</td>
<td>External Speaker*</td>
</tr>
<tr>
<td>129–162</td>
<td>N/A</td>
<td>TV Speaker</td>
<td>Pillow Speaker and TV (Internal) Speaker</td>
</tr>
<tr>
<td>129–162</td>
<td>N/A</td>
<td>External Speaker</td>
<td>Pillow Speaker and External Speaker</td>
</tr>
</tbody>
</table>

* You will only hear sound if an external speaker is connected to the TV.

**Note:** The Sound Out Menu is only accessible when the speaker selected is TV Only or both TV & Pillow.
This section describes how to restore all factory defaults or just the Installer Menu factory defaults either on a single TV that is currently in Pass-through or FTG Mode or on multiple TVs that are currently in FTG Mode.

**Restore All Factory Defaults**

This section describes how to restore a single TV, regardless of its mode, to a factory default condition. The following procedure requires that you contact LG technical support to obtain a predefined value/password for Installer Menu item 117 FACT DEFAULT that enables access to initiate a factory "IN-STOP" process, which restores all factory defaults. This procedure will also reactivate the EZ-Manager Wizard.

1. Use the Installer Remote to access the TV’s Installer Menu, navigate to Installer Menu item 117 FACT DEFAULT, and key in the value provided by technical support. Then, press OK.

2. At the prompt for confirmation, key in the password provided by technical support. This will initiate the IN-STOP that restores the factory defaults on the TV.

**Installer Menu Item 117 FACT DEFAULT**

If the TV is currently in Pass-through Mode, you can set Installer Menu item 117 FACT DEFAULT to 1 to restore the Installer Menu factory defaults and clear the PTC Channel Map, including any assigned channel icons and custom text labels. Note, however, that if a complete restoration of the TV’s factory defaults is required, see “Restore All Factory Defaults” above.

**Additional FTG Mode via CPU Options**

There are two additional options for restoring Pass-through Mode/Installer Menu factory defaults on TVs that are in FTG Mode via the CPU. The first enables you to restore a single TV to Pass-through Mode, while the second enables you to restore multiple TVs to Pass-through Mode at one time. However, both options require that you create a "Restore_Pass-through_Mode.tlx" file, i.e., an FTG Configuration file with no data. Refer to the Cloud Configuration Tool User Guide for further information.

- Using a USB memory device, import a "Restore_Pass-through_Mode.tlx" file on the TV. Refer to “Importing a Clone File” on pages 52 to 55 for further information on the import procedure.
- If your system uses a Pro:Centric server for remote management of LT572M TVs that are in FTG Mode, use the Pro:Centric Admin Client to load a "Restore_Pass-through_Mode.tlx" file on the Pro:Centric server. Refer to the Pro:Centric Server Admin Client User Guide for further information.

**Additional FTG Mode via EBL Options**

There are two additional options for restoring Pass-through Mode/factory defaults on TVs that are in FTG Mode via the EBL. The first enables you to restore a single TV to Pass-through Mode, while the second enables you to restore multiple TVs to Pass-through Mode at one time.

Note: While the IN-STOP process described above will clear both the PTC and the CPU, both options below only clear the PTC. Thus, the current Channel Map and TV setup menu settings will remain in the CPU after the reset is completed.

- Using a direct PC-to-TV connection, “Write” an unpopulated Channel Map—that is, a Channel Map with 0 (zero) channels—to the TV. See Reference section, “FTG Mode via EBL (Local Configuration),” and/or the Free-To-Guest (FTG) Device Configuration Application User Guide for further information.
- If your system uses an FMA for remote management/broadcast configuration, configure the FMA device with an FMA Configuration (.fma) file that only contains a “0 Mapped Channels” FTG Channel Map to broadcast to the TV EBL(s). Refer to the Free-To-Guest (FTG) Device Configuration Application User Guide and/or the Installation & Configuration Guide for the FMA device for further information.
This section describes the TV Zoning feature available with the LT572M model TVs. The TV Zoning feature enables you to create localized configurations for TVs in selected “Zones” within the installation site, for example, a lobby area, fitness center, restaurant, etc. This feature is primarily intended for use when the TV is configured for FTG Mode via CPU operation. However, selected elements of TV Zoning (Installer Menu and Setup Menu profile Zone assignments) may also be used with TV cloning processes using a Clone (.tlx) file.

Refer to the appropriate section(s) below for further information on the TV Zoning feature and how to set the TV Zone # in a TV that is currently in Pass-through Mode.

Note: Hospital Mode channel banks and Lodging TV Zoning are mutually exclusive features of these TV models. The TV Zoning feature is only available when Hospital Mode is disabled (i.e., Installer Menu item 027 HOSPITAL MODE is set to 0). For additional information, see Channel Banks Overview” on pages 28 to 30.

Using the TV Zoning Feature with FTG Mode via CPU Configuration

The Cloud Configuration Tool may be used to create an FTG Configuration (.tlx) file that contains multiple Installer Menu and Setup Menu profiles, each with its own Zone assignment. Up to nine unique Zones can be designated for LT572M FTG Installer Menu and/or Setup Menu profiles. Zone restrictions can also be placed on individual channels in the FTG Channel Map. Thus, for example, you may create an FTG Installer Menu and/or Setup Menu profile to specifically configure a TV in the fitness center and also restrict the channels that are available to be tuned on that TV.

The TV Zone # must be set appropriately on each TV in order for the TVs to be configured correctly. See “Set the TV Zone # in the TV” on the following page, and set the TV Zone # in all the TVs in a select area, so that the TVs are configured with corresponding FTG Installer Menu and/or Setup Menu settings and/or can omit channels that have been restricted in the FTG Channel Map. TV Zone 0 is the default TV Zone #.

The following subsections briefly describe how to assign Zones in the Cloud Configuration Tool. Refer to the Cloud Configuration Tool User Guide for further information.

FTG Installer Menu Profile Zone Assignments

The Cloud Configuration Tool / Installer Menu web page enables you to create multiple Installer Menu profiles for the same chassis model, each with a different Zone assignment (default = Zone 0), to be included in an FTG Configuration (.tlx) file. For example, you may wish to create one Installer Menu profile for the LT572M TV in the the lobby area and another Installer Menu profile for the LT572M TV in the fitness center, both of which are different from the Installer Menu profile used for LT572M TVs in standard patient rooms. The TV Zoning feature enables you to save multiple LT572M FTG Installer Menu profiles, each with its own Zone assignment, in one FTG Configuration (.tlx) file. If each TV in the aforementioned locations (Zones) has had its TV Zone # set appropriately, as described in the procedure on the following page or via the EZ-Manager Wizard, the TV(s) will only be configured by the Installer Menu profile that matches its(there) Zone setting.

In the Cloud Configuration Tool / File Manager web page, you can also change the Zone assignment for each Setup Menu profile already present in the FTG Configuration List. See the File Manager and Installer Menu web page overviews on pages 59 and 62 for further information. Note that Setup Menu profiles cannot be created in the Cloud Configuration Tool; they must be saved (exported) from a TV.
Reference: Using the TV Zoning Feature (Cont.)

**FTG Channel Map Zone Restrictions**

In the Cloud Configuration Tool / Channel Map web page, you can place Zone restrictions on individual channels that may be prohibited or deemed unsuitable for certain locations. One or more Zone restrictions (1–8) may be placed on each channel that is to be restricted. For example, if you wish to restrict a channel from Zones 2 and 4, select both “Zone 2” and “Zone 4” in the Restricted from Zones field when defining or editing that channel.

**Note:** While a channel can be restricted from up to eight Zones, a TV can only ever be in (set for) one Zone. See also the Channel Map web page overview on page 60.

At the same time, keep in mind that the TV Zone designations are not mutually exclusive. That is, you may opt to place Zone restrictions on selected channels in the FTG Channel Map, but at the same time, you can choose to configure all TVs at the site with the same Installer Menu and/or Setup Menu settings. For example, an FTG Configuration (.tlx) file being used to configure the TVs at a site may contain multiple Installer Menu and Setup Menu profiles with different Zone assignments, as well as an FTG Channel Map with Zone restrictions on several channels. Each TV that still has the default TV Zone 0 setting will only be configured by the Installer Menu and/or Setup Menu profile(s) with a Zone 0 designation. If, on the other hand, the TV Zone # is set to 1, the TV will first look in the file for the LT572M Installer Menu and/or Setup Menu profile(s) with a Zone 1 designation. If none of the LT572M Installer Menu and/or Setup Menu profiles has a Zone 1 designation, the TV will then look for the LT572M profile(s) with a Zone 0 designation. For the FTG Channel Map configuration, when the TV Zone # is set to 0, the TV will ignore any Zone restrictions (1–8) that may be placed on channels in the FTG Channel Map. However, when the TV Zone # is set to 1, the TV will omit any channels that have been restricted from Zone 1 in the FTG Channel Map.

**Using the TV Zoning Feature with Cloning Configuration**

A location-specific configuration / Clone (.tlx) file may be saved (exported) from a Master TV and then be used to configure Target TVs. For example, if the TV Zone # in the Master TV is set to 3 before the Clone file export is initiated, the Master TV’s Installer Menu and Setup Menu profiles will be saved with the TV Zone 3 assignment. In order to configure the Target TVs with the Zone 3 Installer Menu and Setup Menu profiles exported from the Master TV, you must set the TV Zone # accordingly in the Target TVs before importing the Clone file. See “Set the TV Zone # in the TV” below. Also, see “Cloning Procedures” on pages 50 to 55 for additional information on the cloning processes. TV Zone 0 is the default TV Zone #.

**Set the TV Zone # in the TV**

You can set the TV Zone # in the EZ-Manager Wizard (see “EZ-Manager Wizard” on pages 14 to 21) or, if the TV is in Pass-through Mode, via the TV’s setup menus as described below. Note that the following procedure can only be performed while the TV is in Pass-through Mode. You will also be able to specify a Label (North, South, East, West) and Room Number for this TV, if desired.

1. Turn ON the TV.
2. Press MENU on the Installer Remote, and use the arrow navigation keys to select/highlight the OPTION menu icon. Then, press OK.
3. Use the Up/Down arrow keys to select Zones & Room Number, and then press OK.
4. In the Zone, Label, and Room Number pop-up window, complete the appropriate fields as described below. Use the Left/Right arrow keys on the Installer Remote to navigate between each of the fields.

(Continued on next page)
(Continued from previous page)

- Zone: Enables you to set a TV Zone # so that the TV can be configured with Installer Menu and/or Setup Menu settings intended only for the assigned Zone. The Installer Menu and/or Setup Menu settings may be provided in a Clone/Configuration (.tlx) file. If the TV is being configured for FTG Mode via CPU, the TV Zone # setting also allows the TV to omit channels that have been restricted in the FTG Channel Map (see “FTG Channel Map Zone Restrictions” on previous page).

To change the TV Zone, navigate to the Zone field, and use the Up/Down arrow keys to specify the desired TV Zone # (0–8).

- Label: Allows you to select a North, South, East, or West text label for this TV. Navigate to the Label field, and use the Up/Down arrow keys to select the applicable label.

- Room Number: Allows you to specify the number of the room—up to 16 characters—in which the TV is located. You can use the number keys on the Installer Remote to direct enter a room number. Use the Dash key on the Installer Remote as necessary to toggle between number and letter characters in the Room Number field. Also, you can use the Flashback key on the Installer Remote to delete characters in this field.

5. When you have completed the fields as necessary, select OK, and then press OK on the Installer Remote to close the window and return to the Option Menu.

6. Press MENU to return to program viewing.
**Reference: 24/28LT572M Rear and Side Jack Panels**

**TV-LINK CFG**
(3.5 mm jack) Use to connect PC to TV (EBL) for local FTG Mode via EBL configuration.

**UPDATE**
Restricted to software updates.

**RESET**
Initiates a hardware reset and turns the TV OFF.

**SERVICE ONLY**
Restricted to service updates.

**GAME CONTROL/MPI**
When the TV/EBL is in Pass-through Mode, the MPI function enables an external MPI control device (i.e., VOD/PPV STB, etc.) to control the TV. Game Control—EBL in SONIFI PPV Mode only.

**OPTICAL AUDIO OUT**
Use for amps and home theater systems. Note: When the TV is OFF, this port is not enabled.

**SPEAKER OUT / LINE OUT**
(3.5 mm jack) Connect external audio (fixed speaker, variable speaker, or fixed line level [amplifier]) equipment. See Reference section, “External Stereo Speaker Specifications,” for further information.

**HDMI IN 1**
Connection for HDMI output from external device.

**PILLOW SPEAKER**
Connect pillow speaker here.

**ANTENNA/CABLE IN**
Connect to Antenna/CATV.

**USB IN**
Insert USB memory device for software updates, cloning purposes, FTG Mode via CPU configuration, picture/music entertainment, etc., as applicable.

**HDMI IN 2**
Connection for HDMI output from external device.

**AV IN**
(3.5 mm jack) Connect video/audio output from external device (use A/V adapter cable provided with TV).
**Reference: 32/43LT572M Rear and Side Jack Panels**

**HDMI IN 1**
Connection for HDMI output from external device.

**SPEAKER OUT / LINE OUT**
(3.5 mm jack) Connect external audio (fixed speaker, variable speaker, or fixed line level [amplifier]) equipment. See Reference section, “External Stereo Speaker Specifications,” for further information.

**PILLOW SPEAKER**
Connect pillow speaker here.

**SERVICE ONLY**
Restricted to service updates.

**RS-232C IN**
(3.5 mm jack) When the TV is in Pass-through Mode, the control function enables an external TLT control device (i.e., VOD/PPV STB, etc.) to control the TV. Service for factory use only.

**GAME CONTROL/MPI**
When the TV/EBL is in Pass-through Mode, the MPI function enables an external MPI control device (i.e., VOD/PPV STB, etc.) to control the TV. Game Control—EBL in SONIFI PPV Mode only.

**OPTICAL DIGITAL AUDIO OUT**
Use for amps and home theater systems. Note: When the TV is OFF, this port is not enabled.

**TV-LINK CFG**
(3.5 mm jack) Use to connect PC to TV (EBL) for local FTG Mode via EBL configuration.

**ANTENNA/CABLE IN**
Connect to Antenna/CATV.

**UPDATE**
Restricted to software updates.

**RESET**
Initiates a hardware reset and turns the TV OFF.

**AV IN**
(3.5 mm jack) Connect video/audio output from external device (use A/V adapter cable provided with TV).

**Side Jack Panel**

**USB IN**
Insert USB memory device for software updates, cloning purposes, FTG Mode via CPU configuration, picture/music entertainment, etc., as applicable.

**HDMI IN 2**
Connection for HDMI output from external device.
Reference: External Stereo Speaker Specifications

The SPEAKER OUT / LINE OUT 3.5 mm stereo jack on the LT572M rear panel provides stereo speaker signal outputs (fixed speaker, variable speaker, or fixed line level [amplifier]) for external audio equipment. Set Installer Menu item 097 AUDIO OUTPUT as required in accordance with external audio equipment connected to the TV. Also, refer to the following diagram for pinout details.

**Caution:** Do NOT insert a mono plug, as this may damage the TV.

![Diagram of 3.5 mm stereo jack](image)

1. LEFT (Tip)
2. RIGHT (Ring)
3. GROUND (Sleeve)
An LG Installer Remote is required to set up and operate the TV. The LG Installer Remote illustrated below shows typical remote control functions and is provided for reference only.

- **TV LG1/TV LG2 & TV Z1/TV Z2**: Selects the LG or Zenith IR codes sent by the remote. In order for the TV to respond, this setting must match the setting in the TV.
- **Numbers (0 - 9) & DASH**: Use to enter a channel or program number. Dash is used for sub-channel numbers such as 9-1, 9-2, etc.
- **FLASHBK (Flashback)**: Returns to the previously tuned channel.
- **CHANNEL UP/DOWN**: Changes channels based on channels in the channel lineup.
- **VOLUME UP/DOWN**: Increases/decreases sound level.
- **Arrows (Up/Down/Left/Right) & OK**: Use to navigate on-screen menus, direct tune channels, and adjust TV settings.
- **CH. BANK**: Selects Channel Bank 1, 2, 3, or 4 when Hospital Mode is enabled and the TV is in PTC-CTV Mode or FTG Mode via CPU. Otherwise, this button displays available Aux inputs.
- **CH. PREVIEW**: Displays and exits the Channel Preview/Banks Setup Menu (TV in PTC-CTV mode only).
- **MUTE**: Switches sound ON or OFF.
- **TIMER**: Sets the amount of time before the TV automatically turns itself OFF.
- **ALARM**: Enables users to schedule a one-time "alarm" event, in which the TV turns itself ON at the user-specified time.
- **EXIT**: Clears all on-screen displays and returns to program viewing.

**POWER**
- Turns the TV ON or OFF.

**MENU**
- Displays and removes the TV setup menus (or, if applicable, the Function Menu).

**PORTAL**
- Displays and removes the Pro:Centric interactive menu.

**INFO**
- Displays channel information.

**GUIDE**
- Displays and removes the Pro:Centric channel guide/EPG.

**RETURN**
- Returns one level to the previous menu/display.

**Color buttons access special functions in some menus.**

- **CC**: Activates subtitles, unless the Channel Preview/Banks Setup Menu is currently on the screen (applicable for PTC-CTV Mode only), in which case this option displays the Lock (V-Chip) Menu.

- **SAP**: Analog Mode: Selects MTS sound (Mono, Stereo, or SAP). DTV Mode: Changes the audio program language, if additional languages are available. *

* **SAP notes:**
  - If SAP is selected and no SAP is provided, sound may not be heard on channel.
  - Each channel may have its own SAP setting.
  - Each time digital channels are tuned, the TV attempts to locate the default audio program language. If the default audio program language is not available, the TV will use the first available audio program.
LG Pro:Centric patient remotes and/or pillow speakers are available for purchase (see patient remote example at right and pillow speaker example on following page). For additional information and/or to purchase an LG Pro:Centric patient remote or pillow speaker, please contact your LG service representative.

**Patient Remote and Pillow Speaker Functionality**

Both the LG Pro:Centric patient remote and the LG Pro:Centric pillow speaker provide access to Pro:Centric application features (via PORTAL, INFO, and GUIDE buttons). See also “Installer Remote Control Typical Key Functions” on the previous page for further information on button functions. The patient remote also provides multi-code capability as described below.

**Set the Patient Remote IR Code Scheme (Multi-code Feature)**

This section describes how to set the LG Pro:Centric patient remote to send unique IR codes based on “bed number” in a multi-TV single room installation. The remote may be set from Bed 1 to Bed 4.

**Note:** The TV will always respond to the standard LG Installer Remote IR code scheme, i.e., you can always use an Installer Remote with the TV, regardless of its multi-code IR setting.

The following procedure describes how to set the bed number in the TV’s Installer Menu and in the patient remote.

1. Installer Menu item 020 FEATURE LEVEL determines the additional IR code scheme to which the TV will respond. Access the Installer Menu, and set item 020 to the desired value (16–19).

   The patient remote must now be set to match the FEATURE LEVEL setting. That is, if item 020 is set to 17 for Bed 2, the patient remote must also be set to multi-code Bed 2.

   **Note:** By default, the patient remote IR code scheme is the same as the standard LG Installer Remote IR code scheme.

2. On the patient remote, press and hold OK along with the desired (bed) number key (1–4).

   The LED at the top left of the remote will light for three seconds and then turn OFF.

3. Once the LED turns OFF, release both keys on the remote.

4. Verify that the patient remote now controls the TV, based on your settings.

   **Note:** If necessary, you can restore the patient remote IR code scheme to the standard LG Installer Remote IR code scheme by pressing and holding OK on the remote along with the “0” key.
USB Media Navigation

This section provides a brief overview of the LG Pro:Centric patient remote and LG Pro:Centric pillow speaker navigation tools for use with USB media files (photos, videos, music, etc.).

**Note:** The LG Pro:Centric pillow speaker is currently the only pillow speaker that enables users to navigate and play/view USB media files.

**Note:** Refer to the Owner’s Manual for detailed information on USB memory device requirements and the types of media supported by the LT572M TVs.

1. Insert the USB memory device into the TV's USB port.
   
   Once the TV detects the USB device, a SmartShare icon will be displayed on the screen. Press **OK** (patient remote) or **Enter** (pillow speaker) to access the Smart Share application.

2. Use the arrow keys on the patient remote /pillow speaker to select/highlight the desired option(s) in the Smart Share screen, and then press **Enter/OK**.

3. Within each USB media directory (Photos, Videos, or Music):
   
   - Use the arrow keys on the patient remote/pillow speaker to navigate from one folder or file to another, and press **Enter/OK** to open or play a selected folder or file.
   
   - Use the arrow keys on the patient remote/pillow speaker, as necessary, to scroll through all available files.
   
   - In View and Play modes, you typically can use the pillow speaker/patient remote to navigate to another directory level (without exiting the Smart Share application).
   
   - To exit the Smart Share application, press **Return** (patient remote) or **Return** (pillow speaker). The TV's Smart Launcher will be displayed along the bottom of the screen, and you can use the Left/Right arrow keys on the patient remote/pillow speaker to select **LiveTV** to return to program viewing. If you wish to relaunch the Smart Share application, you must physically remove and then reinsert the USB memory device.
Reference: Pillow Speaker Setup

The pillow speaker will only be functional after the Express Script/Custom Master TV Setup and/or cloning/USB configuration procedures are complete.

**Note:** When Installer Menu item 027 HOSPITAL MODE is set to 254 (factory default value), there is no power (voltage) supplied to the pillow speaker interface.

**Connecting a Pillow Speaker to the TV**

Connect the pillow speaker (see example at right) to the PILLOW SPEAKER interface on the rear jack panel of the TV.

**Caution:** Use a pillow speaker that is a UL recognized pendant control bearing the warning: “Risk of fire if used in oxygen enriched atmosphere. Keep pendant control away from oxygen equipment.”

**Controlling the TV with Serial Data**

These TV models are capable of being controlled by a single-wire, serial data signal. This is an LG patented technology and is being implemented by certain brands of “smart” pillow speakers.

**Pillow Speaker Interface**

This connector provides an interface for patient-pendant remote control or entertainment audio and nurse call systems. All lines are isolated from the AC power line and earth ground (a transformer isolates the DC supply, optocouplers isolate the control lines, and a transformer isolates the audio). For positive voltage configurations (e.g., for Zenith/Philips pillow speakers), +12 volts/+5 volts is provided on pin 3 (Channel Up/Data In) in reference to pin 4 (Common). For negative voltage configurations (e.g., for RCA pillow speakers), +5 volts is provided on pin 4 in reference to pin 3.

The following table describes the TV pillow speaker interface pinout. See also diagram at right.

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analog external control for TV ON/OFF.</td>
</tr>
<tr>
<td>2</td>
<td>No connection.</td>
</tr>
<tr>
<td>3</td>
<td>Analog external control for Channel Up or Serial Data In.</td>
</tr>
<tr>
<td>4</td>
<td>Common connection for control, data, and audio output.</td>
</tr>
<tr>
<td>5</td>
<td>Isolated Audio Output. Nominal 14 ohm source impedance with short circuit protection. Audio level control provided by an external low-impedance, pad-type volume control or serial data Volume Up/Down keys.</td>
</tr>
<tr>
<td>6</td>
<td>Analog external control for Channel Down.</td>
</tr>
</tbody>
</table>

** Typical Pillow Speaker (Serial Data Control)**

**TV Pillow Speaker Interface Pinout**

1 TV ON/OFF
2 NC
3 CHAN UP/DATA IN
4 COMMON
5 AUDIO OUT
6 CHAN DOWN
Controlling the TV with Mechanical Switches

A typical analog pillow speaker with mechanical switches will momentarily connect pin 1, 3, or 6 to pin 4 (Common) to control Power ON/OFF, Channel Up, or Channel Down. See schematic below. These pins are at +13 volts DC (when measured from pin 4) with the switches open. Typical current draw is 8 mA when a switch is closed. (This operation is identical to previous models using the 5-wire interface, except that only +7 volts DC was supplied and current draw was only 2.5 mA.)
General Guidelines: Choosing a Location for Installing a VESA Standard Mount

To the right are some examples of VESA standard mounts. Since there are numerous types of stands and mounts available, only a few are shown here. Refer to the instructions provided with the TV stand that will be used to mount the TV. Be sure the style of stand selected is capable of supporting the weight of the TV and is appropriate for the application.

Wall Mounts

If the mount will be on a wall, a typical wooden stud behind the wall board would be the preferred choice for a location to attach the wall mount. The wall mount location chosen should be appropriate for drilling holes and have available the required power source as well as antenna/cable and any other equipment leads as necessary.

Pedestal Mounts and Stands

A sturdy surface on a desk or other similar flat table-like furniture would be the appropriate location for mounting a pedestal-style TV stand.

Most stands are designed so that the wiring is threaded through the stand itself or a loop-through style clamp so that the wiring is neatly bunched and not strung in such a way as to create a potential hazard to the user. (Some stands are portable and can be moved from one location to another.) Be sure all safety considerations are followed.
Reference: TLT Communication Parameters

RS-232C IN (CONTROL & SERVICE) Jack Configuration

⚠ Note: This feature is applicable only for 32/43LT572M TVs.

RS232C IN (CONTROL & SERVICE)
3.5 mm Jack on TV

RS232C IN (CONTROL & SERVICE) Jack
4 Contact Configuration

<table>
<thead>
<tr>
<th>Contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXD</td>
<td>Connects to 1 (Tip)</td>
</tr>
<tr>
<td>RXD</td>
<td>Connects to 2 (Ring 1)</td>
</tr>
<tr>
<td>IR Data Pass-through</td>
<td>Connects to 3 (Ring 2)</td>
</tr>
<tr>
<td>GND</td>
<td>Connects to 4 (Sleeve)</td>
</tr>
</tbody>
</table>

Communication Parameters

- Baud rate: 9600 bps (UART)
- Data length: 8 bits
- Parity: None
- Stop bit: 1 bit

Command Reference List

Note: Commands may work differently depending on model and signal.

<table>
<thead>
<tr>
<th>Command</th>
<th>Command 1</th>
<th>Command 2</th>
<th>Data (Hexadecimal)</th>
<th>Command 1</th>
<th>Command 2</th>
<th>Data (Hexadecimal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01. Power</td>
<td>k</td>
<td>a</td>
<td>00 / 01</td>
<td>11. OSD Select</td>
<td>k</td>
<td>l</td>
</tr>
<tr>
<td>02. Aspect Ratio</td>
<td>k</td>
<td>c</td>
<td>(see page 91)</td>
<td>12. Remote Control</td>
<td>k</td>
<td>m</td>
</tr>
<tr>
<td>03. Screen Mute</td>
<td>k</td>
<td>d</td>
<td>00, 01, 10</td>
<td>13. Balance **</td>
<td>k</td>
<td>t</td>
</tr>
<tr>
<td>04. Volume Mute</td>
<td>k</td>
<td>e</td>
<td>00 / 01</td>
<td>14. Color Temperature *</td>
<td>x</td>
<td>u</td>
</tr>
<tr>
<td>05. Volume Control</td>
<td>k</td>
<td>f</td>
<td>00–64</td>
<td>15. Equalizer</td>
<td>j</td>
<td>v</td>
</tr>
<tr>
<td>06. Contrast *</td>
<td>k</td>
<td>g</td>
<td>00–64</td>
<td>16. Tune Command</td>
<td>m</td>
<td>a</td>
</tr>
<tr>
<td>07. Brightness *</td>
<td>k</td>
<td>h</td>
<td>00–64</td>
<td>17. Channel Add/Delete</td>
<td>m</td>
<td>b</td>
</tr>
<tr>
<td>08. Color *</td>
<td>k</td>
<td>i</td>
<td>00–64</td>
<td>18. Key</td>
<td>m</td>
<td>c</td>
</tr>
<tr>
<td>09. Tint *</td>
<td>k</td>
<td>j</td>
<td>00–64</td>
<td>19. Control Backlight</td>
<td>m</td>
<td>g</td>
</tr>
<tr>
<td>10. Sharpness *</td>
<td>k</td>
<td>k</td>
<td>00–32</td>
<td>20. Input Select (Main)</td>
<td>x</td>
<td>b</td>
</tr>
</tbody>
</table>

* These features are also adjustable in the Picture Menu.
** This feature is also adjustable in the Sound Menu.
Transmitting / Receiving Protocol

This communication protocol transmits and receives 1-byte ASCII data representation for each Command, Set ID, and Data character. Therefore, a standard ASCII terminal program can be used to send and receive the protocol.

Command Structure

[Command1][Command2][ ][Set ID][ ][Data][CR]

The following table describes the parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command 1</td>
<td>First part of command to control the TV: j, k, m, or x. Corresponding transmission data of 0x6A, 0x6B, 0x6D, or 0x78, respectively.</td>
</tr>
<tr>
<td>Command 2</td>
<td>Second part of command to control the TV.</td>
</tr>
<tr>
<td>Set ID</td>
<td>Choose the [Set ID] value to match the Set ID number in the General Menu. The Set ID valid range is decimal 1 to 99. If the [Set ID] value is sent as [00], every connected display will act on the command. Note: The [Set ID] value should be entered in an ASCII terminal program as hexadecimal 00 to 63 values; however, note that each character of the hexadecimal value is transmitted as the ASCII value of that character. For example: [00] since ASCII 0=0x30, would be sent as “3030” [0A] since ASCII A=0x41, would be sent as “3041” [63] since ASCII 6=0x36 &amp; ASCII 3=0x33, would be sent as “3633”</td>
</tr>
<tr>
<td>Data</td>
<td>Enter the command’s required data (hexadecimal—see [Set ID] note above for correct translation). Enter Data [FF] to read status of the function.</td>
</tr>
<tr>
<td>CR</td>
<td>Carriage Return (ASCII value 0x0D)</td>
</tr>
<tr>
<td>[ ]</td>
<td>Space (ASCII value 0x20)</td>
</tr>
</tbody>
</table>

OK Acknowledgment

[Command2][ ][Set ID][ ][OK][Data][x]

The display responds with OK acknowledgment in the format shown above after receiving valid Command and Data values. The [Data] value in the response is either the current status (if Data [FF] was sent) or the [Data] value that was sent in the acknowledged control command.

Error Acknowledgment

[Command2][ ][Set ID][ ][NG][Data][x]

The display responds with NG (error) acknowledgment in the format shown above after receiving abnormal data from non-viable functions or communication errors. The [Data] value in the response is the [Data] value that was sent in the acknowledged control command.
Data Conversion (Hexadecimal : Decimal)
In cases where decimal values are shown in commands, refer to following conversion examples to enter the [Data] value in the terminal program as hexadecimal.

Note: The Channel Tune (ma) Command uses two-byte hexadecimal values ([Data]) to represent the channel number.

00: Step 0 32: Step 50 or Set ID 50  FE: Step 254
01: Step 1 or Set ID 1 33: Step 51 or Set ID 51  FF: Step 255
... ... ... ... ...
0A: Step 10 or Set ID 10 63: Step 99 or Set ID 99  01 00: Channel 256
... ... ... ... ...
0F: Step 15 or Set ID 15  C7: Step 199  27 0E: Channel 9998
10: Step 16 or Set ID 16  C8: Step 200  27 0F: Channel 9999
... ... ...

TLT Command Detailed Descriptions

Note: Commands may work differently depending on model and signal.

01. Power (Command: k a)
   • To control TV power (ON/OFF).
     Command (Control) Structure
     [k][a][ ][Set ID][ ][Data][CR]
     Data 00: Power Off 01: Power On
     Acknowledgment
     [a][ ][Set ID][ ][OK/NG][Data][x]
   • To show TV power status (ON/OFF).
     Command (Status) Structure* 
     [k][a][ ][Set ID][ ][FF][Cr]
     Acknowledgment
     [a][ ][Set ID][ ][OK][Data][x]
     * Similarly, when Data [FF] is sent for other functions (based on this format), the Acknowledgment feedback returns status about each function.

02. Aspect Ratio (Command: k c)
   To adjust the aspect ratio.
   Command Structure
   [k][c][ ][Set ID][ ][Data][CR]
   Data 01: Normal Screen (4:3) 02: Wide Screen (16:9)
   04: Zoom 06: Set by Program/Original 09: Just Scan
   10 to 1F: Cinema Zoom 1 to 16 0C: Cinemascope (21:9)
   Acknowledgment
   [c][ ][Set ID][ ][OK/NG][Data][x]
   • Using the PC input, you can select either 16:9 or 4:3 screen aspect ratio.
   • In DTV/HDMI/Component mode (high-definition), Just Scan is available.
   • Full wide mode may work differently based on model and is supported for DTV fully and ATV / AV partially.

03. Screen Mute (Command: k d)
   To control screen mute.
   Command Structure
   [k][d][ ][Set ID][ ][Data][CR]
   Data 00: Screen Mute Off (Picture On) Video Mute Off
   01: Screen Mute On (Picture Off) 10: Video Mute On*
   Acknowledgment
   [d][ ][Set ID][ ][OK/NG][Data][x]
   * In case of Video Mute On only, the TV will show OSD. In case of Screen Mute On, the TV will not show OSD.

04. Volume Mute (Command: k e)
   To control volume mute.
   Command Structure
   [k][e][ ][Set ID][ ][Data][CR]
   Data 00: Volume Mute On (Volume Off) 01: Volume Mute Off (Volume On)
Reference: TLT Communication Parameters (Cont.)

Acknowledgment
[e][ ][Set ID][ ][OK/NG][Data][x]

05. Volume Control (Command: k f)
To adjust volume.
Command Structure
[k][f][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[f][ ][Set ID][ ][OK/NG][Data][x]

06. Contrast (Command: k g)
To adjust screen contrast.
Command Structure
[k][g][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[g][ ][Set ID][ ][OK/NG][Data][x]

07. Brightness (Command: k h)
To adjust screen brightness.
Command Structure
[k][h][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[h][ ][Set ID][ ][OK/NG][Data][x]

08. Color (Command: k i)
To adjust the screen color.
Command Structure
[k][i][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[i][ ][Set ID][ ][OK/NG][Data][x]

09. Tint (Command: k j)
To adjust the screen tint.
Command Structure
[k][j][ ][Set ID][ ][Data][CR]
Data Red: 00 to Green: 64
Acknowledgment
[j][ ][Set ID][ ][OK/NG][Data][x]

10. Sharpness (Command: k k)
To adjust the screen sharpness.
Command Structure
[k][k][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 32
Acknowledgment
[k][ ][Set ID][ ][OK/NG][Data][x]

11. OSD Select (Command: k l)
To select OSD (On Screen Display) status when controlling remotely.
Command Structure
[k][l][ ][Set ID][ ][Data][CR]
Data 00: OSD Off 01: OSD On
Acknowledgment
[l][ ][Set ID][ ][OK/NG][Data][x]

12. Remote Control Lock Mode (Command: k m)
To lock both the display panel button functions and remote control IR features.
Command Structure
[k][m][ ][Set ID][ ][Data][CR]
Data 00: Lock Off 01: Lock On
Acknowledgment
[m][ ][Set ID][ ][OK/NG][Data][x]

- If the TV is turned OFF by Off timer or “ka” or “mc” command) while Remote Control Lock Mode is on, it is not possible to turn the TV back ON via the POWER key on the display panel or the remote control.
- When the TV’s AC power is removed/disconnected and then reapplied, Remote Control Lock is released.

13. Balance (Command: k t)
To adjust sound balance.
Command Structure
[k][t][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[t][ ][Set ID][ ][OK/NG][Data][x]
14. Color Temperature (Command: x u)  
To adjust color temperature.

Command Structure
```
x[u][ ][Set ID][ ][Data][CR]
```

Data Min: 00 to Max: 64

Acknowledgment
```
[u][ ][Set ID][ ][OK/NG][Data][x]
```

15. Equalizer (Command: j v)  
To adjust EQ of the TV.

Command Structure
```
j[v][ ][Set ID][ ][Data][CR]
```

<table>
<thead>
<tr>
<th>MSB</th>
<th>LSB</th>
<th>Frequency</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>6</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Step</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

Acknowledgment
```
[v][ ][Set ID][ ][OK/NG][Data][x]
```

Depends on model and can be adjusted when sound mode is EQ adjustable value.

16. Tune Command (Command: m a)  
To tune the channel to the following Physical Major/Minor Channel number.

Command Structure
```
m[a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][ ][Data3][ ][Data4][ ][Data5][CR]
```

- **Analog Antenna/Cable**
  - Data0: Physical Channel number
    - Antenna (ATV): 02–45 (Decimal: 2–69)
    - Cable (CATV): 01–7D (Decimal: 1–125)
  - Data1 & Data2: xx (Don’t care)
  - Data3 & Data4: xx (Don’t care)
  - Data5: Input Source (Analog)
    - 00: Antenna TV (ATV)
    - 01: Cable (CATV)

- **Digital Antenna/Cable**
  - Data0: Physical Channel number*
    - Antenna (DTV): 02–45 (Decimal: 2–69)
    - Cable (CADTV): 01–87 (Decimal: 1–135)
  * When [Data5] is 22 or 26 (see below), use 00 for [Data0].
  - Data1 & Data2: Major Channel number
    - Data1: High byte Channel Data
    - Data2: Low byte Channel Data
    - Data: Low byte channel data
    - Data4: Low byte channel data
    - Data5: Input Source (Digital)
    - 02: Antenna TV (DTV), Use Physical Channel number
    - 06: Cable TV (CADTV), Use Physical Channel number
    - 22: Antenna TV (DTV), Do not use Physical Channel number (see also [Data0] * above)
    - 26: Cable TV (CADTV), Do not use Physical Channel number (see also [Data0] * above)
    - 46: Cable TV (CADTV), Use Physical Major Channel number only (One Part Channel)
    - 66: Cable TV (CADTV), Use Major Channel number only (One Part Channel)

Two bytes are available for each Major and Minor Channel number. The high byte is 00 unless the channel number exceeds 255.

**Tune Command Examples:**

**Example 1:** Tune to analog (NTSC) channel 35
- Set ID = All = 00
- Data0 = Channel Data is 35 = 23
- Data1 & Data2 = No Major = 00 00
- Data3 & Data4 = No Minor = 00 00
- Data5 = Analog Cable TV = 01
- Total = ma 00 23 00 00 00 00 01

**Example 2:** Tune to digital (ATSC) channel 30-3
- Set ID = All = 00
- Data0 = Don’t know Physical = 00
- Data1 & Data2 = Major is 30 = 00 1E
- Data3 & Data4 = Minor is 3 = 00 03
- Data5 = Digital Antenna TV = 22
- Total = ma 00 00 1E 00 03 22
Acknowledgment

[Set ID] [OK][Data0][Data1]
[Data2][Data3][Data4][Data5]
[x][a][ ][Set ID][ ][NG][Data0][x]

17. Channel Add/Delete (NTSC) (Command: m b)
To set the saved channel status.
Command Structure
[m][b][ ][Set ID][ ][Data][CR]
Data 00: Delete
  01: Add
Acknowledgment
[b][ ][Set ID][ ][OK/NG][Data][x]

18. Key (Command: m c)
To send IR remote key code.
Command Structure
[m][c][ ][Set ID][ ][Data][CR]
Data Key code. See Key Codes table on page 95.
Acknowledgment
[c][ ][Set ID][ ][OK/NG][Data][x]

19. Control Backlight (Command: m g)
To control the backlight.
Command Structure
[m][g][ ][Set ID][ ][Data][CR]
Data Min: 00 to Max: 64
Acknowledgment
[g][ ][Set ID][ ][OK/NG][Data][x]

20. Input select (Command: x b)
To select input source for main picture. *
Command Structure
[x][b][ ][Set ID][ ][Data][CR]
Data 00: DTV
  01: CADTV
  02: Satellite DTV
  10: ATV
  11: CATV
  20: AV or AV 1
  21: AV 2
  40: Component 1
  41: Component 2
  60: RGB
  90: HDMI 1
  91: HDMI 2
  92: HDMI 3
  93: HDMI 4
Acknowledgment
[b][ ][Set ID][ ][OK/NG][Data][x]
* This function depends on model and signal.
## Key Codes

The following table provides key codes for a typical LG Installer Remote.

**Note:** Some keys are not applicable to all models.

<table>
<thead>
<tr>
<th>Code (Hexa)</th>
<th>Function</th>
<th>Code (Hexa)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>CH  PAGE↑</td>
<td>C0</td>
<td>© (Green)</td>
</tr>
<tr>
<td>01</td>
<td>CH  PAGE↓</td>
<td>C1</td>
<td>© (Red)</td>
</tr>
<tr>
<td>02</td>
<td>VOL +</td>
<td>C2</td>
<td>© (Yellow)</td>
</tr>
<tr>
<td>03</td>
<td>VOL −</td>
<td>C3</td>
<td>© (Blue)</td>
</tr>
<tr>
<td>06</td>
<td>&gt;</td>
<td>C4</td>
<td>POWER ON</td>
</tr>
<tr>
<td>07</td>
<td>&lt;</td>
<td>C5</td>
<td>POWER OFF</td>
</tr>
<tr>
<td>08</td>
<td>POWER © (toggle)</td>
<td>8E</td>
<td>▶</td>
</tr>
<tr>
<td>09</td>
<td>MUTE/DELETE</td>
<td>8F</td>
<td>◀</td>
</tr>
<tr>
<td>10–19</td>
<td>Numbers (0–9)</td>
<td>B0</td>
<td>▼</td>
</tr>
<tr>
<td>28</td>
<td>BACK ⇐</td>
<td>B1</td>
<td>■</td>
</tr>
<tr>
<td>39</td>
<td>CC CHAR/NUM</td>
<td>BA</td>
<td>II</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td>AA</td>
<td>INFO ©</td>
</tr>
<tr>
<td>41</td>
<td></td>
<td>AB</td>
<td>GUIDE</td>
</tr>
<tr>
<td>43</td>
<td>MENU SETTINGS</td>
<td>7C</td>
<td>SMART</td>
</tr>
<tr>
<td>44</td>
<td>OK/ENTER ©</td>
<td>7E</td>
<td>≡</td>
</tr>
<tr>
<td>0A</td>
<td>SAP</td>
<td>DC</td>
<td>3D/*</td>
</tr>
<tr>
<td>0B</td>
<td>INPUT</td>
<td>60</td>
<td>PIP/*</td>
</tr>
<tr>
<td>0C</td>
<td>PORTAL</td>
<td>61</td>
<td>PIP INPUT/*</td>
</tr>
<tr>
<td>0E</td>
<td>TIMER</td>
<td>63</td>
<td>SWAP/*</td>
</tr>
<tr>
<td>1A</td>
<td>FLASHBK</td>
<td>71</td>
<td>PIP CH +/*</td>
</tr>
<tr>
<td>4C</td>
<td>−</td>
<td>72</td>
<td>PIP CH −/*</td>
</tr>
<tr>
<td>5B</td>
<td>EXIT</td>
<td>79</td>
<td>RATIO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>91</td>
<td>VD/*</td>
</tr>
</tbody>
</table>
## Troubleshooting

### General Troubleshooting (Some Quick and Easy Tips for Resolving Problems)

### Installation

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot direct enter channel number.</td>
<td>(TV in Pass-through Mode) Installer Menu item 028 CH. OVERRIDE is set to 0, i.e., disabled (recommended setting).</td>
<td>If the channel lineup is locked (recommended setting), only channels that are active in the TV's channel lineup can be selected. Set 028 CH. OVERRIDE to 1 to allow access for direct keypad entry to all channels.</td>
</tr>
<tr>
<td></td>
<td>(TV in FTG Mode) The channel entered is not included in the FTG Channel Map.</td>
<td>Channel access is restricted to channels included in the FTG Channel Map. If necessary, make changes to the FTG Channel Map using the Cloud Configuration Tool or the FTG Device Configuration Application, as appropriate.</td>
</tr>
<tr>
<td>No channels present after Express Script.</td>
<td>Auto Tuning not run.</td>
<td>Refer to Express Script procedure. Auto Tuning must be run in order for the channel lineup to be populated. To reactivate the Express Script, restore the TV to a factory default condition.</td>
</tr>
</tbody>
</table>

### Picture Reception and Sound

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture.</td>
<td>TV is turned OFF.</td>
<td>• Turn TV ON.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Power failure?</td>
</tr>
<tr>
<td></td>
<td>Antenna/cable not connected.</td>
<td>Connect antenna/cable signal to TV.</td>
</tr>
<tr>
<td></td>
<td>Connections incorrect.</td>
<td>Check connections on TV.</td>
</tr>
<tr>
<td></td>
<td>MPI not connected.</td>
<td>If applicable, connect MPI cable to MPI device.</td>
</tr>
<tr>
<td></td>
<td>Encrypted program.</td>
<td>Try another channel.</td>
</tr>
<tr>
<td></td>
<td>Wrong tuning band.</td>
<td>Adjust Installer Menu settings.</td>
</tr>
<tr>
<td>Normal picture, poor or no sound.</td>
<td>Broadcast problem.</td>
<td>Try a different channel.</td>
</tr>
<tr>
<td></td>
<td>Audio muted.</td>
<td>Press MUTE or use Volume Up key to increase sound level.</td>
</tr>
<tr>
<td></td>
<td>Pillow/TV speaker not configured properly.</td>
<td>Check that Installer Menu items 020 FEATURE LEVEL and 027 HOSPITAL MODE are set as required. Also, if applicable, select TV Speaker in the Audio Menu.</td>
</tr>
</tbody>
</table>

### Erratic Operation

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installer Menu setup.</td>
<td>Wrong Installer Menu settings.</td>
<td>Adjust Installer Menu settings as required.</td>
</tr>
</tbody>
</table>

### Installer Remote (not supplied with TV)

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote doesn't work.</td>
<td>Remote not in TV Mode.</td>
<td>Depending on the remote used, you may need to use a MODE key to put the remote into TV Mode.</td>
</tr>
<tr>
<td></td>
<td>Not aimed at IR receiver.</td>
<td>Point remote at IR receiver on TV.</td>
</tr>
<tr>
<td></td>
<td>Remote too far from IR receiver or IR path is obstructed.</td>
<td>Move remote closer to IR receiver on TV, darken room, and/or remove obstructions.</td>
</tr>
<tr>
<td></td>
<td>MPI not connected.</td>
<td>If applicable, connect MPI cable to MPI device.</td>
</tr>
<tr>
<td></td>
<td>Weak batteries.</td>
<td>Replace batteries.</td>
</tr>
<tr>
<td></td>
<td>Wrong battery polarity.</td>
<td>Check that “+” and “-” match in battery compartment.</td>
</tr>
<tr>
<td></td>
<td>Too much light in room.</td>
<td>Dim room light.</td>
</tr>
<tr>
<td></td>
<td>Remote IR codes do not match setting(s) in TV.</td>
<td>Make sure the Installer Remote is compatible. Contact your LG representative, as necessary. Then, check settings both in the TV and on the remote. IR codes sent by the remote must match the setting(s) in the TV.</td>
</tr>
</tbody>
</table>
Commercial Mode Check

Use this flowchart to determine whether the TV is currently in Commercial Mode.

FTG Operation Troubleshooting

The following table provides troubleshooting information for when the EBL is configured for FTG Mode operation.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Error</td>
<td>Cable(s) not connected.</td>
<td>Check and connect communication cables.</td>
</tr>
<tr>
<td>(&quot;Communications Timeout&quot;)</td>
<td>TV not powered.</td>
<td>Check/connect the TV power cord.</td>
</tr>
<tr>
<td></td>
<td>TV not turned ON.</td>
<td>TV needs to be turned ON (default setting of Installer Menu item 118 POWER SAVINGS).</td>
</tr>
<tr>
<td></td>
<td>Wrong COM (communication) port.</td>
<td>In the FTG Device Configuration Application, select the correct COM port for the cable being used.</td>
</tr>
</tbody>
</table>
## Troubleshooting (Cont.)

### Channel Banks Setup Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel is blanked in all channel banks.</td>
<td>Blanking a channel in one channel bank will make it blank in all channel banks.</td>
<td>Modify the channel attribute(s), if desired, using the Cloud Configuration Tool / Channel Map utility. See also the Channel Map web page overview on page 60. Restore normal operation by unchecking the &quot;Blank Video&quot; checkbox for the channel. Note that normal operation will be restored to the channel in all channel banks.</td>
</tr>
<tr>
<td>&quot;Inactive TV&quot; message appears and then TV turns OFF.</td>
<td>TV is set up to display &quot;Inactive TV&quot; message if all channels are deleted from Channel Bank 4.</td>
<td>Use the Installer Remote to select another channel bank (1, 2, or 3) to return TV to normal operation.</td>
</tr>
<tr>
<td>Channel found during Auto Tuning does not tune in with Channel Up/Down.</td>
<td>Channel was deleted in currently selected channel bank.</td>
<td>Premium channels may only be available on another channel bank. Modify the channel bank allocation(s) for the channel, if desired, using the Cloud Configuration Tool / Channel Map utility. See also the Channel Map web page overview on page 60.</td>
</tr>
<tr>
<td>When CH. BANK key on Installer Remote is pressed, TV shows Input List Menu.</td>
<td>Installer Menu item 027 HOSPITAL MODE is set to 0 (i.e., Hospital Mode is disabled).</td>
<td>Installer item 027 must be set appropriately (i.e., Hospital Mode must be enabled) in order for channel banks to be available. If the TV is in CPU-CTV or PTC-CTV Mode, access the Installer Menu and set item 027 as applicable. If the TV is in FTG Mode via CPU, use the Cloud Configuration Tool / Installer Menu utility to update Installer Menu item #027.</td>
</tr>
</tbody>
</table>
b-LAN
SONIFI Solutions, Inc. proprietary RF communication system used to configure control TV via RF distribution system.

Channel Lineup
Channels set in the TV memory, via Auto Tuning/manual editing.

Channel Map
Typically refers to a logical channel mapping of physical channels (for example, an FTG Channel Map). This allows digital channels, like analog channels, to be tuned without requiring the dash key. Also, channels (analog or digital) can be arranged in any order that seems logical for customer tuning/viewing.

Cloning
The process of capturing a Master TV Setup and transferring it to a Target TV using a USB memory device.

Commercial Mode
A mode of operation that provides a broad range of commercial TV features based on control (settings) provided by the PTC and/or an MPI control device.

CPU
The TV’s Central Processing Unit. Responsible for the presentation of video and audio from content received via the TV’s tuner or Aux inputs.

EBL
Embedded b-LAN module. See also b-LAN.

E-Z Installation
Enables boot logo image, TV configuration, and software file downloads to selected TV models from a Pro:Centric server. Managed and administered via the Pro:Centric Admin Client.

Express Script
Hospital model TV configuration script that provides streamlined configuration for FTG Mode via CPU operation in a hospital setting, including a configuration option for Pro:Centric operation.

EZ-Manager Wizard
Lodging/hospital model TV configuration wizard that provides configuration options for Pro:Centric operation as well as an option for using a USB memory device to configure a TV.

FTG Mode
LG commercial TV mode that enables decryption of Pro:Idiom encrypted channels and logical channel mapping. Implementation and TV operation is based on the “owner” of the FTG Channel Map—the CPU or the EBL. TVs may be configured locally using LG’s proprietary applications or remotely using an applicable head end device.

Function Menu
Available via Installer Remote “MENU” key. Indicates the TV is not in Pass-through Mode. Restricts menu options to a subset of the TV setup menus, allowing users to retain functional control, while disabling setup options.

Installer Menu
Defines commercial TV functionality based on the parameters set.

LG Free-To-Guest (FTG)
Refers to a particular commercial mode of operation within an LG TV. See also FTG Mode.

Logical Channel Number
A number assigned to either a physical or virtual channel number in a Logical Channel Map.

Major Channel Number
Typically, the RF channel number assigned to a digital video stream.

Master TV
A TV whose Channel Map and Installer Menu and TV setup menu settings have been configured as a Master TV Setup for cloning purposes.

Minor Channel Number
A sub-channel or program number assigned to the content embedded in the digital video stream.

MPI
Multiple Protocol Interface. An MPI port or, for some TV models, an MPI card slot provides external control options for solution providers.

Pass-through Mode
The TV’s factory default mode of operation. TVs can be configured for stand-alone use or as Master TVs for cloning purposes, and/or TVs may be controlled externally in this mode.

Physical Channel Number
The major channel number assigned to represent a specific 6 MHz RF band as specified by either the broadcast or CATV channel plan. See CEA (formerly EIA) or NCTA specifications for further information.

Pro:Centric Application
LG content delivery and communication interface powered by a Pro:Centric server, that provides interactive entertainment, weather, amenities, etc. information for end users.

Pro:Centric Admin Client
Web editor/content wizard provided for service provider and customer configuration of Pro:Centric application and management elements.

Pro:Idiom
Zenith proprietary security software that unlocks access to premium content to help assure rapid, broad deployment of HDTV and other high-value digital content.

PTC
Protocol Translation Controller. The commercial controller (microprocessor) of the commercial TV.

Target TV
A TV to which a Master TV Setup will be transferred.

TV Setup Menus
Available via Installer Remote “MENU” key in Pass-through Mode only. Menus provide access to setup and functional features of the TV.

USB Memory Device
A USB flash drive or USB storage device, etc. that can be used for TV configuration purposes (typically cloning or FTG Mode via CPU configuration) or for updating TV software.

Virtual Channel Number
An alias (virtual) channel number provided in the data stream, by the broadcast, of a digital broadcast channel to be displayed by consumer TVs in place of the physical channel number. The major number is the same as the original analog channel number and the minor number is the nth program available in that digital video stream.
**Document Revision History / Open Source Software Notice**

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**Document Revision History**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2019</td>
<td>Revision A: New document</td>
</tr>
</tbody>
</table>


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