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HTVE-Universal with LG 43US670H0UA TV

By: Guillermo Castano Date: Feb-21-24

Status summary:

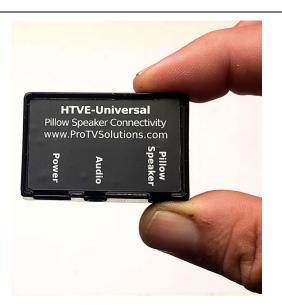
The HTVE Universal is a new Healthcare TV Emulator interface developed to be simple to use with standard consumer TVs in locations such as clinics and adult care facilities.

This interface uses IR remote control conversion to control the TV but differs from other solutions due to its compact design and simple installation.

The main requirement from the TV is that it supports "Headphone Audio output" this is a stereo audio with variable volume that is presented on the TV as a standard 3.5mm Jack.

The HTVE-Universal will accept most pillow speaker protocols including the Zennith, Philips, LG Procentric, Samsung protocols and convert the keys to match the remote-control signals for the customer TV.

Currently we support the LG, Samsung, Insignia, TCL, Hisense, Onn, TVs.

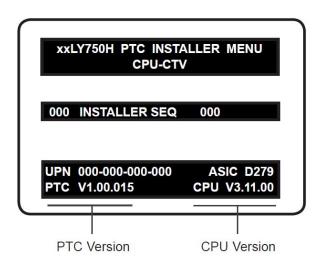


Setup of LG 43US670H0UA TV:

The LG TV supports variable volume stereo audio output but needs to be configured for it to work properly.

Enter the Factory setup menu using the following procedure:

- 1. Using the LG Remote control, press the MENU key multiple times until it no longer responds.
- 2. Type the keys: "9", "8", "7", "6", "ENTER". This should allow you to go into the Factory Setup menu, that looks like this:



- 3. Using the Up/Down keys move to item 097 AUDIO OUTPUT
- 4. Use the RIGHT/LEFT arrows to change the value to 8
- 5. Press the ENTER key twice to exit the factory setup menu.

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The next step is to disable the internal TV speakers, this way audio will be heard only on the Pillow speaker.

- 1. With the TV on, press the MENU button to display the user's menu.
- 2. Select the SOUND/AUDIO menu.
- 3. Go to the "TV Speaker" and turn them off.

Installation of the HTVE-Universal interface:

The interface has three connections.

- 1. USB connector that is used to power the device using a USB plug in charger.
- 2. A Stereo cable is used to connect the audio between the Interface and the TV's "Speaker OUT/Line Out" connector.
- 3. A 3.5mm jack is used to support the Pillow speaker connection to that normally goes to the Nurse call panel and then the pillow speaker.

We do not normally supply this last cable as it is dependent on the local installation. Popular connections are the ¼" stereo jack, the LG 6 Pin roung connector, RJ12 Modular connections.

4. Once all the connection are made, we need to figure the best location to set the interface.

NOTE: please do not remove the adhesive protector until the final location is figured out.

5. While pressing keys on the pillow speaker, (For example the Channel UP) try to position the Interface in the bottom of the TV near the location where the Remote-control sensor is located.

On the 55US670H0UA the sensor is located at the bottom center of the screen and looks like a small box. We recommend that you place the HTVE interface by the right side or behind (In the back) of the TV's sensor. Please test what location works better.



6. Once the location has been chosen, please make sure the TV's is clean of dust, remove the cables from the HTVE and remove the Adhesive protector sheet. The adhesive tape is high performance epoxy based and after a couple of hours will bond to the TV and be nearly impossible to remove.

NOTE: once placed on a location, it can't be relocated, even if it done immediately, because the bonding will lose its properties.

Please be careful in selecting a good location from the start.

7. Connect the power, audio and pillow speaker connections and all should work well now.