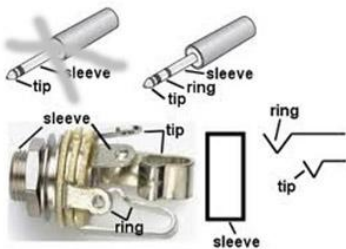




HC20 Healthcare Kit Installation Instructions

Our HC20 installation kit uses technology that allows a standard hospital pillow speaker to control a TV and receive audio from the TV at the pillow speaker next to the patient. The HC20 product, when used with an approved TV model, will convert an inexpensive, commercially available LCD TV into a healthcare grade TV at a fraction of the cost and it is very easy to install.

Before installing, make sure you completely understand standard three-wire TV patient room cabling. The standard connector to our HC20 is a stereo ¼" plug typically used for analog signals. It is cylindrical in shape with three contacts.



Three-contact versions are known as TRS connectors, where T stands for "tip", R stands for "ring" and S stands for "sleeve" (See diagram on last page)

Items needed that make up a HC20 Healthcare TV Installation Kit:



HC20 Box



IR Blaster cable w/ headphone jack connector



Pillow Speaker



DC Power Adapter

Four Additional Items You May Need to Complete Your Installation:

- Wall plates at bedside and/or TV side
- Dual RCA adapter cable (female 3.5mm, male RCA)
- Access to AC power outlets (2)
- Connection to a cable TV signal source



HC20 Healthcare Kit Installation Instructions

Begin Set up:

STEP 1: Set up LCD TV

- 1) Connect TV Power cord to TV and AC outlet
- 2) Connect TV to Cable TV or Antenna (RF cable)
- 3) Verify basic TV operation using TV IR remote (on/off, volume, channels, etc.)

Step 2: Auto Tune TV channels

- 1) Check manual under TV set-up as each TV model handles this differently
- 2) Select channel...auto channel ...enter
- 3) Select channel type...cable/air
- 4) Select automatic search...enter

TV will scan for channels. The process should take several minutes.

Before proceeding to step 3, make sure there is continuity from the three wires on the bedside wallplate to the termination point on the TV side.

MAKE ABSOLUTELY CERTAIN THE DATA/5V (Ring) LINE IS NOT CROSS-WIRED TO THE GROUND (Sleeve) LINE!

Note: If your first evaluation of the HC20 kit is in a patient room environment, it may take two people to identify the exact location of the IR sensor on the front of the TV. See Item 4 in Step 3 for detailed explanation.



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Step 3: Connect HC20 to TV using the supplied cable assembly

- 1) Power off the TV, using IR Remote
- 2) From the cable assembly, connect the RJ45 connector to HC20
- 3) Apply power to HC20 using supplied power adapter



- 4) Locate the IR sensor on the front of TV(usually located near the LED power indicator light). Once location is confirmed**, firmly affix to TV by peeling away adhesive.



** Each TV has a different location for the IR sensor. In order to locate the IR sensor on front of the TV, power on the TV and wave the IR Blaster across the front of the TV pressing Channel UP on the pillow speaker. When the TV responds to the button presses, you have found the sweet spot.

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Final connection from supplied cable assembly is the audio connection. Connect to audio output jack in back of TV. TV model must have either a headphone jack or line level audio output jacks (dual RCA). Do not confuse with Audio-In.



Dual RCA Audio Connection



Headphone Audio Connection



HC20 Healthcare Kit Installation Instructions

Step 4: Connecting HC20 to TV side wall plate using ¼" stereo plug.
Is there an existing wall plate connector for the previous TV?



6-pin jack

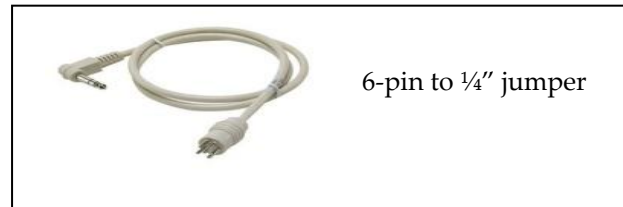


5-pin jack



¼" jack

Jumper cables are required to convert multi-pin jacks to a ¼" stereo plug. Where there is a ¼" jack, a ¼" to ¼" inch jumper cable is necessary.



Make sure you do a **continuity test** before powering up the HC20.

Reminder: Tip-Audio, Ring-5V/Data, Sleeve-Ground

Ensure that the three TV wires pulled from the bedside wall-plate connector are consistent with TSR configuration outputting to the stereo plug connected to the HC20.



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Sample of existing TV connection.



An old Zenith healthcare TV with a 6-pin to 6-pin jumper cable (white).

Sample of Toshiba TV w/ HC20 connections



The only required equipment to replace the old Zenith TV solution with the HC20 solution is a 6-pin to 1/4" jumper cable (figure on page 5).

Final Step:

Once continuity has been determined, insert the 1/4" stereo plug, the RJ45, and DC power plug into appropriate connectors provided on the HC20.

CAUTION: When power is applied to HC20 and both green and amber light remain on, disconnect power immediately. There is either a crossed wire or short in the line. If the 5V line (Ring) is introduced into the Ground line (Sleeve), you can damage the HC20.

HC20 units are not warranted if cross-room wiring instructions, from the pillow speaker wall plate, are not followed properly.

HC20 Healthcare Kit Installation Instructions

If you are unsure of any steps, please contact technical support at
(541) 686-2296.

