



# CAB for CORE 8-Series STB-Ready 15" Embedded Consoles

BroadcastVision CAB manual to allow control of external cable, satellite and IPTV boxes on 8-Series STB-Ready 15" Embedded Consoles.



Online Service Manuals available at: [www.broadcastvision.com](http://www.broadcastvision.com)

**Benefits of the BroadcastVision CAB include:**

- Eliminates the hand-held battery operated remote control.
- Exercisers can control the cable/satellite/IPTV box using controls on the front of the TV
- An expensive head-end system is not required.
- Club operators can choose ANY cable, satellite or IPTV provider.
- TV channels are not restricted.
- Members can access all the channels available per your subscription.
- No troublesome wireless devices to manage.
- Proven Technology - BroadcastVision first offered a solution for set top box control in 2011 and is the clear-cut market leader in this technology.

**CAB CONFIGURATION**

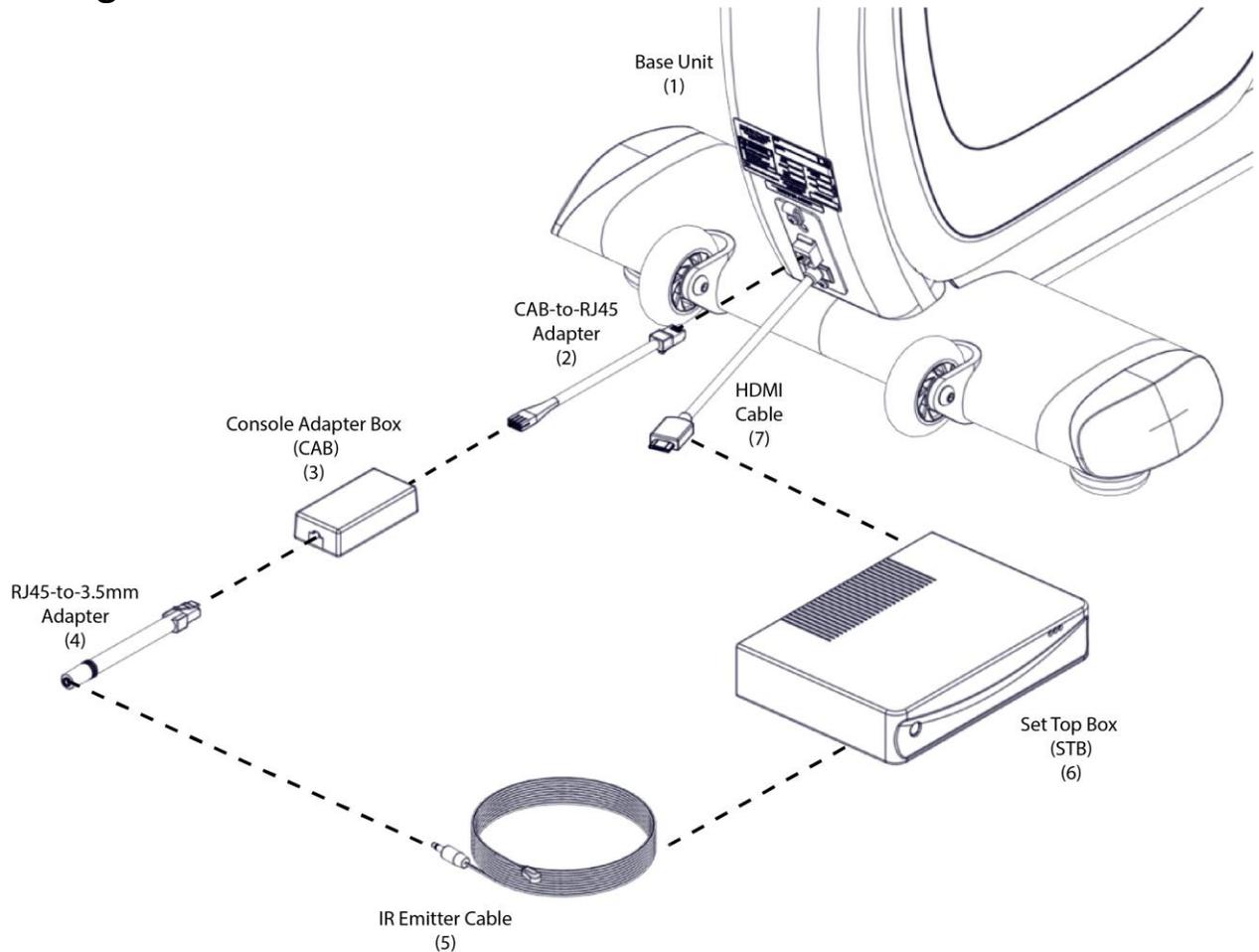
The CAB ships pre-configured for IPTV Unicode. Normally no additional configuration steps are required. **If the CAB does not work for any reason, please see the troubleshooting guide below and/or call technical support at 1(888)330-4283 ext.3 before leaving the facility.**

The CAB contains 8 dip-switches internally. Normally these should all be in the OFF position. To help solve specific deployment compatibility challenges, BVe Technical Support may instruct that some of the switch positions be changed.

**Note:** The BroadcastVision CAB should always be installed after the cable/satellite/IPTV service has been installed and you have a picture on the screen. If the Set Top Box (STB) is not functional at the time of installation of the CAB, you can still install the CAB, but you will not be able to test the CAB to ensure it is changing channels on the STB.



## Troubleshooting Guide:



Before beginning to troubleshoot the STB/CAB system, it is important to understand how the system works. The STB/CAB system works on a feedback loop as outlined below:

The user presses a button on the console's entertainment keypad (1). The signal is fed down through the machine via the CSAFE cable and out the front of the machine to the adapter cable (2). The user input signal is then received by the CAB (3) which is in turn converted into an IR signal and transmitted by the IR Transmitter Cable (4) to the STB (5). Depending on which command was issued by the user, the STB will either adjust the volume or change the channel, which will then be sent to the console via the HDMI cable (6).

### 1. Double button presses

Some set top boxes respond to more than one of the IR codes that we send out. If you notice that pressing a channel button on the console results in multiple presses, simply remove the two (2) screws that hold the lid on the CAB and turn on dip switch #2 and #4. If this does not solve the problem, call (888)330-4283 ext.3 for further assistance.

## 2. No control over set top box

- a. **Incorrect IR emitter placement** – If the IR emitter is not in the correct location on the front of the box you may need to move it around until you find the location that works.  
**Tip:** Try initially holding the IR emitter away from the front of the STB initially then continue pressing the channel button while “zeroing in” on the correct IR emitter placement.
- b. **IR signal strength issue** – In rare circumstances, the CAB may output too strong of an IR signal for the set top box IR receiver. To test if the IR emitter is over-driving the set top box receiver, pull the emitter away from the front of the set top box, and press the channel button to see if the set top box now receives the channel command. Opening up the CAB and turning on dip switch #8 will reduce the IR current by 50% and solve this issue.
- c. **No Continuity between CAB and IR emitter** – In some circumstances utilizing the “Far” set top box scenario, the CAT5/6 cable between the set top box and the CAB may not provide full continuity through wall plates etc. It may be helpful to re-locate the STB at the base of the cardio and re-test. Or, it may be helpful to temporarily run an alternate CAT5/6 cable from the CAB to the set top box then re-test.
- d. **CAB not programed for the correct set top box** - Your CAB is defaulted for Broadcastvision’s popular “Unicode” setting which provides control of the most popular cable and IPTV set top boxes including, but not limited to:
  - AT&T Uverse
  - Brighthouse
  - Comcast
  - Time Warner
  - Verizon

The CAB can be quickly configured on site to operate other popular set top boxes by flipping dip switches inside the CAB enclosure as pictured below. CAB operates with many other set top boxes not included in the list below. Please call BroadcastVision support at 8883304283 x3 to determine the dip switch settings for your cable, satellite, or IPTV provider.

1 2 3 4 5 = Dip Switch settings for the following set top boxes:

0 0 0 1 1 - CAB will output commands for Amino set top boxes

1 1 1 0 1 - CAB will output commands for Enseo set top boxes

0 0 1 0 1 - CAB will output commands for LG set top boxes

0 1 0 0 1 - CAB will output commands for Rogers set top boxes

1 0 0 0 1 - CAB will output commands for Cox set top boxes

0 1 0 1 0 - CAB will output commands for Charter set top boxes

1 0 0 1 0 - CAB will output commands for Unicode-Satellite for DirecTV and Dish set top boxes

