Application Note

IR Detectors and Emitters for Hall Research HDMI-over-UTP extenders

Most Hall Research HDMI extenders that have IR extension capability do not come with IR cables. These include extenders such as: UHBX-S(-PD/-PSE), UHBX-R(-PD/PSE), UHCOM-WP, UHBX-WPC-P2, and UHBX-8X, and UH-1D.

Notes

- *There is no built-in IR detector on any of the above units. There are 3.5mm jacks for connection of external IR-detector and IR-emitter cables*

- *The IR cables are sold separately. Please read below for ordering info*

- *Since both the detector and emitter cables have 3.5mm plugs, it is easy to plug the cable in the wrong jack. Please familiarize yourself with what each detector looks like so that they are plugged in the correct jack*

IR Detector Cable

The UHBX devices use "pass-thru" IR detector cable that maintains the IR modulation. Compatible cables are available from Hall Research (Model Number **CIR-DET-P2**).

IR Detector Cable CIR-DET-P2
(Detector eye has adhesive backing)
Pinout: Tip=Data, Ring=+5V DC, Sleeve=GND

IR Emitter (Blaster) Cables

Currently two IR emitter cables are available: **CIR-EMT** and **CIR-EMT2**.

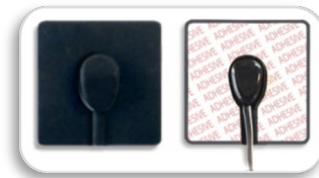**CIR-EMT**, shown below, is recommended for most applications

IR Emitter Cable CIR-EMT
(Emitter has adhesive backing)
Pinout: Tip=Anode, Ring=Cathode, Sleeve=Not Connected

An alternative emitter cable is **CIR-EMT2**. This cable is best suited for situations where there is a need to isolate and confine the IR signal to just one device. This is useful in cases where there are several devices that respond to the same IR signal and you want to control only one particular one. A separately sold adhesive rubber cover (**CIR-EMT2-CVR**) can be used to confine the IR beam to just one target device.

Alternate IR Emitter Cable CIR-EMT2
(The CIR-EMT2 has a mono-type plug)
Pinout: Tip=Anode, Sleeve=Cathode

Emitter Cover: CIR-EMT2-CVR
(shown with CIR-EMT2)

IR Cable Kits

IR detector and emitter cables can also be ordered as kits

The following kits are available

Part Number	Description	Pictures
CIR-KIT-EMT2	IR Emitter Cable Kit Comprised of: *** CIR-EMT2 Emitter Cable *** CIR-EMT2-CVR Adhesive Cover for Emitter Cable	
CIR-KIT-UHBX	IR Cable Kit for UHBX Series, Comprised of: *** CIR-DET-P2 Detector Cable *** CIR-EMT Emitter Cable	
CIR-KIT-UHBX-CVR	IR Cable Kit for UHBX Series, Comprised of: *** CIR-DET-P2 Detector Cable *** CIR-KIT-EMT2 (CIR-EMT2 + Cover)	