

Product Profile: Hall Research UHBX HDBaseT™ HDMI Extenders

By: Brien Barr



Hall Research has recently released a new line of HDMI extenders. We are now installing these in our upcoming projects. These new extenders use HDBaseT™ technology. HDBaseT™ is quickly being adopted, with dozens of manufacturers meeting the standard of the consortium. See: <http://www.HDBaseT™.org>

HDBaseT™ technologies have several advantages over other extenders.

- 1) HDBaseT™ work over ONE cable, not two.
- 2) HDBaseT™ supports “5 Play”.
- 3) HDBaseT™ equipment is very likely to be compatible between “brands”. At least this is the intent of the HDBaseT™ consortium.

These units can send HDMI (resolutions up to 4K x 2K up to 330ft and resolutions up to 1920 x 1080 up to 500ft), IR control, full-duplex RS-232 control, and 48V PoH the (Power Over HDBaseT™) between sender and receiver units via a

single CAT6 cable. These sender and receiver units comply with the IEEE 802.3af handshake. Since these units support PoH, it is only necessary to use a 5VDC power supply on one end of the extender set, where the 48V PoH is created internally and injected on the CAT6 cable to power the other end of the extender set.



We recently tested these units in-house for evaluation. We put them through the paces. They just work (assuming you have a good CAT6 cable)!!! These units are great for facilities that have a centrally located equipment room, where you need to get HDMI, RS-232, and/or IR out to the exhibit space or local equipment locations. Since they only use a single CAT6 cable, there is less labor and material for pulling wire and fewer hardware pieces, compared to other extenders where

you have to use separate extender sets and separate cables for the video, RS-232, and/or IR signals.

The sender units come in three different models:

A Decora® style wall plate (UHBX-S-WP). These are single gang Decora inserts and fit in wall and floor boxes.

A “brick style” unit requiring power from the receiver end (UHBX-S-PD) and a metal brick style unit that is powered and supplies PoH to the receiver end (UHBX-S-PSE).

The receiver comes in two models: A brick style unit requiring power from the sender end (UHBX-R-PD) and a brick style unit that is powered and supplies PoH to the sender end (UHBX-R-PSE).

To learn more about these units, contact a Bowen Technovation representative.

Product Profile: Acoustics First Model D

By: Jeff Bowen



We work with many, many acoustic products and have been specifying products by Acoustics First for about 15-20 years. We often spec their black (yes...black without any painting!) acoustic blanket and board absorbers for installation behind domed and flat screens, as well as their

attractive panel absorbers for spaces visible to visitors.

But sound control is not always about absorbing. We often use the structure of the building to break up sound waves. If we are brought in too late to use the structure, then we have diffusion products to add to flat surfaces, such as ceilings.



The new ArtDiffusor® Model D has been developed as an organic alternative in the world of geometric [continued on next page...](#)