

# AC-CXWP-KVM-KIT

HDMI & BI-DIRECTIONAL USB EXTENSION KIT WITH HDBASET TECHNOLOGY

## QUICK START GUIDE

AVPro Edge's ConferX Dual Gang Wall Plate presents a Full 4k60 444 KVM solution for anything from the home office to the classroom. Fully integrate with today's interactive displays using bidirectional USB and ARC up to 40 meters over a single category cable.

This guide will walk you through the following topics:

- Installation
- EDID Management
- Scaling
- Test Pattern Generator
- IR Control Signals
- RS232 Control Signals
- Audio Extraction
- ARC
- USB Extension
- Troubleshooting



## INSTALLATION

1. Install a CAT5e (or better) cable between the display and the source (be sure to follow local low voltage code. This varies state to state).
2. The Tx has an HDMI input. Connect this to the output of the source with an 18Gbps HDMI cable
3. The Rx has an HDMI output. Connect this to the input of the display with an 18Gbps HDMI cable.
4. Both the Tx and Rx have an RJ45 HDBT connector. Connect each end of the installed Category cable to these ports.
5. Install the TX Wall Plate into the dual gang box
6. Connect the orange 2 Pin Phoenix power supply to the RX, setting the RX POE Switch to the "RX" Position

\*NOTE - Only use the included power supply

## EDID MANAGEMENT/SCALING

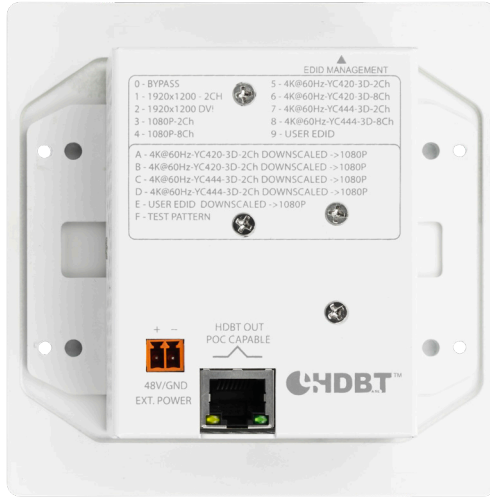
The EDID Management Pin Wheel allows you to manage the input device (typically the display) to request specific video resolutions and/or audio codecs from a source. EDID Pin Wheel also allows for downscaling for use with newer sources and legacy displays.



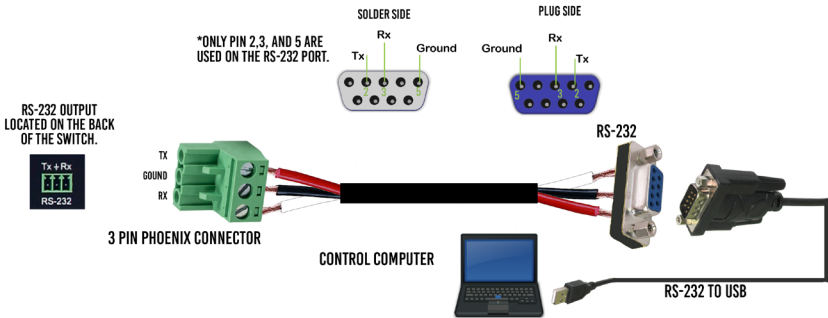
Using a small, flathead screwdriver adjust the EDID Pin Wheel to the desired EDID \*"E" Copies EDID from Display and downscales incoming signal to 1080p Test Pattern Generator (Tx only):

The Test Pattern Generator can be used for testing and troubleshooting infrastructure, cables, and signal path. This test pattern will be generated at 1080p.

1. Toggle Test Pattern by turning EDID Wheel to "F"



## RS 232 CONTROL



RS232 control signals can be sent 2 different ways:

1. From the rack using a control system (Control4, Crestron, etc) to the display
2. From the display back to the rack

## AUDIO EXTRACTION (TX ONLY)

This feature will allow you to extract 2ch audio from the source or ARC in order to send audio signals to an amplifier or AVR.

You can make a cable, or a premade cable can be purchased separately (AC-CABLE-3PIN-2CH).

Follow the diagram below if you are making your own cable.

1. Plug the 3 pin connector into either the Tx or Rx (the audio port on both the Tx and the Rx are always active). The port is labeled "L/R Audio Extraction".
2. Plug the L/R stereo cables into the audio input of an amplifier or AVR.
3. Set the audio output of the source/display to 2CH PCM

## ARC

ARC can return audio from a display upstream to an audio device. ARC on the KVM Wall Plate is enabled simply by flipping the Audio Extraction Switch to "ARC". ARC audio input can be selected using the "Audio IN" switch on the RX device. ARC audio can be extracted from the TX 2 ways:

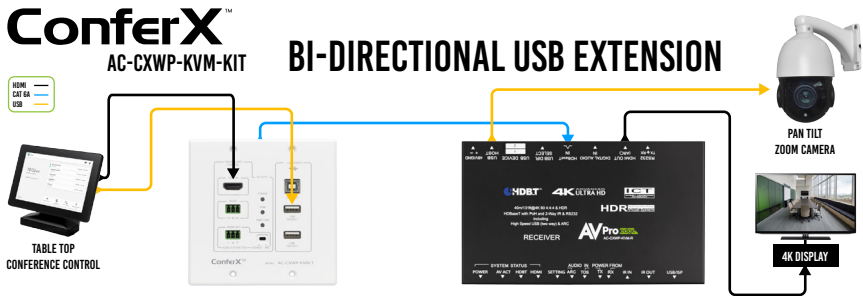
1. HDMI Input (ARC): Up to DD+ Atmos\*
2. L/R: 2CH PCM Only

Remember, ARC must be enabled in source/display to use over HDMI

\*Must be supported by both devices

## USB EXTENSION

The AC-CXWP-KVM-Kit can extend USB 2.0 bidirectionally up to 40 meters. USB Direction is selected by the "USB DIR. SELECT" switch on the RX. Use the USB Type A ports to extend USB devices to the PC on the opposite USB Type B port.



## TROUBLESHOOTING

1. Try different HDMI cables. A defective HDMI cable can bring the entire system down.
2. If using short HDMI cables (.5m, 1m) try a longer cable. Some short HDMI cables do not sync well.
3. Use the built in Test Pattern generator to confirm that the infrastructure is passing a signal
4. Re-terminate the Category cable (even if a cable tester indicates that the cable is passing signal).

5. Avoid RJ45EZ connectors
6. Check the Category cable length. It may be too long.
7. Remove any excess Category cable and be sure that it is not twisted or damaged.
8. Bypass any patch panels or punch-down blocks
9. If you are powering the Rx with the power supply and the Tx is not getting power, try plugging the power supply into the Tx instead. Be sure to double check the POE switch on the extender
10. If you are still having issues after troubleshooting, feel free to contact our Tech Support department.

**HAVE A QUESTION OR NEED ASSISTANCE?**

**DON'T HESITATE TO CONTACT US!**

**SUPPORT: +1 605-274-6055**

**USA TOLL FREE: 877-886-5112**

**EMAIL: [SUPPORT@AVPROEDGE.COM](mailto:SUPPORT@AVPROEDGE.COM)**

**DRIVERS ARE AVAILABLE AT [WWW.AVPROEDGE.COM/DRIVERS](http://WWW.AVPROEDGE.COM/DRIVERS)**

