TE Transformative Engineering

HDU-1

The ultimate all-in-one solution for the modest Classroom, Conference Room, or Huddle Space

As the needs of Commercial and Educational Markets rely on the Professional Installer to provide simple, reliable solutions for their Conference Rooms, Huddle Spaces, and the changing Class Room environment, Transformative Engineering is proud and excited to offer a comprehensive solution to the connectivity and automation needs of this segment. Our inspired answer allows for connection of a HDMI or VGA source, a synchronous USB device, Bi-Directional IR, and an auxiliary audio feed – all over a single Category cable. Only one power supply is needed for both Modules, and you may choose either side to connect it to. We even provide power for an IR Pickup device (not included). Our highest quality video transmission system, HDBase-T, enables video resolutions up to 1080p and computer resolutions up to 1920 x 1200 – all uncompressed. T he VGA Input is converted to HDMI with computer selected resolution.

Selection of input is automatically sensed and prioritizes HDMI, unless manual selection is activated. Auto selection is resumed upon next power-up or selected by the user. The Transmitter Unit fits in a double-gang electrical box and is fully enclosed in our shielded metal case for safety and code adherence. We provide both Black and White faceplates to match most décor. Our compact Receiver Module fits behind your monitor or on top of your projector to provide signal, control, and USB over a single Category wire up to a distance of 30 Meters (100 feet).

This system provides the functionality otherwise requiring multiple devices, while offering operational simplicity and outstanding value to the final user. The Quality, Utility, Value and competitive advantage this makes available to the Professional Installer is representative of all Transformative Engineering products.

HDU-1 Product Highlights:

- HDMI extender 30m @ 1080p over Cat6. 1920x1200/60Hz Max. Resolution for use with Cat 5e/6/6e/6a/7 UTP
- HDMI and VGA inputs w/ Auto switching (Priority HDMI)
- Force Selection button for manual switching
- HDMI Audio supports Dolby TrueHD, DTS-HD, and up to LPCM 7.1 @ 192KHz
- Analog L+R Audio (parallel signal path for use with VGA or HDMI)
- Dual IR pathways capable of powering a Xantech Compatible 12v IR pick up at Each end. Includes SMA-1 IR adapter for non-powered IR pass-thru applications such as a control system.
- Fully synchronous USB2.0 port will power a standard webcam and supports up to 1080p video.
- Tx unit sized to fit a standard 2-gang low voltage ring or electrical box.

- Fully enclosed design insures compliance in residential and commercial installs.
- Compact Rx fits easily behind a flatscreen or on top of a projector at just: 3" x 4" x 1" (5x4x1 including connected cables)
- USB Mini jack for future firmware updates
- (1) 24v power supply for use at Either Tx or Rx

Included In Kit:

- Tx and Rx units
- White and Black custom wall plates
- Mounting and plate screws
- Power supply
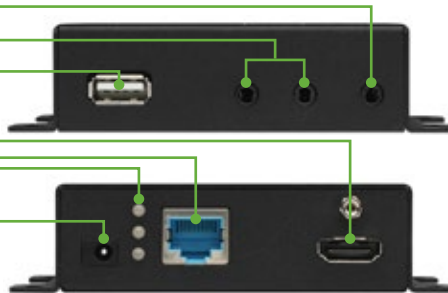- SMA-1 adapter.

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Huddle up everyone!

TRANSMITTER UNIT
1. Indicator Lights
2. Audio Input connection
3. Manual Source Select Button
4. HDMI Input
5. IR "In" and "Out" to/From Receiver
6. VGA Input
7. USB Host Connection
8. 24V Power In (Choose One Only – Use at Either End)
9. (On Rear) HDBase- T RJ45 Connector for Receiver

RECEIVER MODULE:
1. Audio Output
2. IR "Out" and "In" from Transmitter
3. USB Client Connection
4. HDMI Output
5. HDBase- T RJ45 Connection
6. Indicator Lights
7. 24V Power Input (Use One Only – Choose at Either End)

HDU-1 Specifications

Input Signal:
  HDMI Version 1.0 thru 1.4a
  USB (Synchronous) – 2.0 compatible
  IR Signal – Pass Thru (Industry Compatible)
  IR Powered Pickup – Ring (Ground), Tip (Signal), Sleeve (+12VDC)

Video Formats Supported:
  480i/576i/480p/576p/720p/1080i/1080p

Audio Formats Supported: All HDMI Supported Formats, including DTS-HD, Dolby-HD, DVD-A, Dolby TrueHD, 8-CH LPCM

Output Signal:
  HDMI Version 1.0 thru 1.4a
  USB (Synchronous) – 2.0 compatible
  IR Signal – Pass Thru (Xantech Compatible)

Maximum Distance:
  30 Meters (100 Feet), @ 1080p

Power Supply (included):
  24 VDC, 1A

Dimensions:
  TX: 3.6" W x 3.75" H x 1.4"
  RX: 4.125"W x 3.0" H x 1.0"D

Weight:
  0.90 lbs (TX)
  0.75 lbs (RX)

Transformative Engineering

Adopter Member of HDBase-T Alliance
Authorized HDMI 2.0 Adopter

781-769-6410
Norwood, MA 02062 USA
www.transformativeengineering.com