HALL
TECHNOLOGIES

EX-HDU
HDMI and USB Extension on CAT6
with Audio and Integrated Control

EX-HDU-R

EX-HDU-WP

FEATURES

- Extends HDMI + USB 2.0 to 150 ft (46 m) on one Cat 6 cable
- Wall plate sender has 2-port hub for connection to USB devices to the host PC
- Receiver provides HDMI, 4 USB ports, plus contact-closure I/O and RS-232 for display control
- HDMI Audio Extracted output (L/R analog) on Receiver
- Perfect for Interactive displays, Soft CODECs, and KVM extension
- Wall plate does not require separate power supply

DESCRIPTION

The EX-HDU is used to extend HDMI video and USB data on a single Cat6 cable up to 150 ft (46 meters). HDMI audio is extracted and is provided both as analog stereo and multi-channel digital. The EX-HDU can also be used to control other equipment by providing programmable contact closure I/O, RS-232 output, IR output, and optional LAN interface with internal WebGUI and IP control.

The EX-HDU extender consists of an EX-HDU-WP single-gang wall plate transmitter and an EX-HDU-R (or EX-HDU-R-IP) receiver.They connect using standard CAT5e/6 UTP cabling up to 150 feet (46 Meters) long.

The wall-plate Sender gets its power from the Receiver via the same UTP cable and does not need a separate power supply. For convenience, the wall plate features a USB hub with two USB ports for connection of USB devices. The plug-and-play extender is compatible with all PCs, MACs, and Android Tablets and does not require driver installation. Simply plug the PC's HDMI and USB ports to the sender and make them available at the remote receiver.

The Receiver provides HDMI video output, stereo audio output, 4 USB ports, IR output, and a terminal strip that has RS-232 output plus 4 programmable digital I/O ports. A mini-USB port is also provided for configuration upload from a PC for cases where the Receiver is used also as a control system.

Users can upload RS-232 commands to the EX-HDU to control other equipment such as turning a projector on and off. Commands can be triggered automatically by detecting video, or manually via the internal WebGUI, or by sensing open and close contact events on the I/O ports. For example, a simple toggle switch can be connected remotely to activate RS-232 commands for turning a projector on and off. The I/O ports can be configured to act as INPUTS or OUTPUTS. When an I/O port is configured as OUTPUT, it can trigger relays, for example to lower or raise a motorized projector screen.

Free PC software is available under the Downloads tab above for configuring the system and to upload control commands.

Video Standards	DVI (Single Link) HDMI 1.4 HDCP 1.1
Signal Type	TMDS
Connectors	EX-HDU-WP (1) HDMI Input (1) Type B USB Host PC Connection (2) Type A USB hub port Extension EX-HDU-R (1) HDMI Output (4) Type A USB hub port Extension (1) Mini-B USB for configuration
Video Resolutions	DVI - VGA (640x480) thru WUXGA (1920x1200) HDTV - 480p thru 1080p60 (no interlaced support)
USB Standards	Compatible with USB 2.0 and all previous USB standards and data rates.
Audio Format	LPCM 2 Channel Audio (32-192kHz sample rate)
Power Supply	100 to 240 VAC, 47-63 Hz, External; 12VDC
DDC	Pass-Thru DDC for reading EDID directly from remotely connected display + HDCP handshake
CEC	Pass-Thru Consumer Electronics Control (CEC) for compatible devices
Power Supply	100 VAC to 240 VAC, 50-60 Hz, external; 5 VDC, 2.0 A, regulated
Temperature / Humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Cooling	Convection
Enclosure	Metal (Steel)
Dimensions	EX-HDU-WP - 2.60" H x 1.30" W x 1.80" D (66mm H x 33mm W x 46mm D) EX-HDU-R - 1.18" H x 4.13" W x 4.57" D (30mm H x 105mm W x 116mm D) Depth includes mounting flanges
Weight	Model Only EX-HDU-WP - 0.75 lb EX-HDU-R - 1.20 lb Shipping EX-HDU-WP - 1.25 lb EX-HDU-R - 1.70 lb EX-HDU-WP + EX-HDU-R - 2.50 lb
Vibration	ISTA 1A in carton (International Safe Transit Association)
Safety	CE
EMI/EMC	CE, FCC Class A
MTBF	90,000 hours (estimate)
Warranty	3 years parts and labor