

Technical Specifications

TL-CAV-01-HD Classroom & Meeting Room Kit

Features at a Glance

- (1) included wall plate transmitter
- (1) included wall plate controller
- (1) included surface-mount receiver/processor
- Supports (2) HDMI source inputs
- Automatic switching with connection sensing
- Manual control via IR & RS232
- USB pass-through for interactive whiteboard integration
- Single twisted pair connectivity
- Mic/line input with 48V phantom power
- HDMI output with audio de-embedding
- Built-in 2x20W 4-ohm amplifier
- TCP/IP connectivity for system wide monitoring & diagnostics
- Firmware upgradeable via USB thumb drive
- IR learning for control of connected devices



The TL-CAV-01-HD is an affordable, easy-to-install, intuitive to use, and powerfully effective teaching and meeting room tool. The system includes both audio and video management, and only requires a single twisted pair cable to connect all of the components. Best of all, a simple wall plate controller provides the educator with volume control and source selection, and automatic modes of operation ensure the system will be used and not feared. This single TL-CAV-01-HD part number replaces hours of design and installation work, and the all-in system price is unrivaled in the classroom technology market.

Specifications

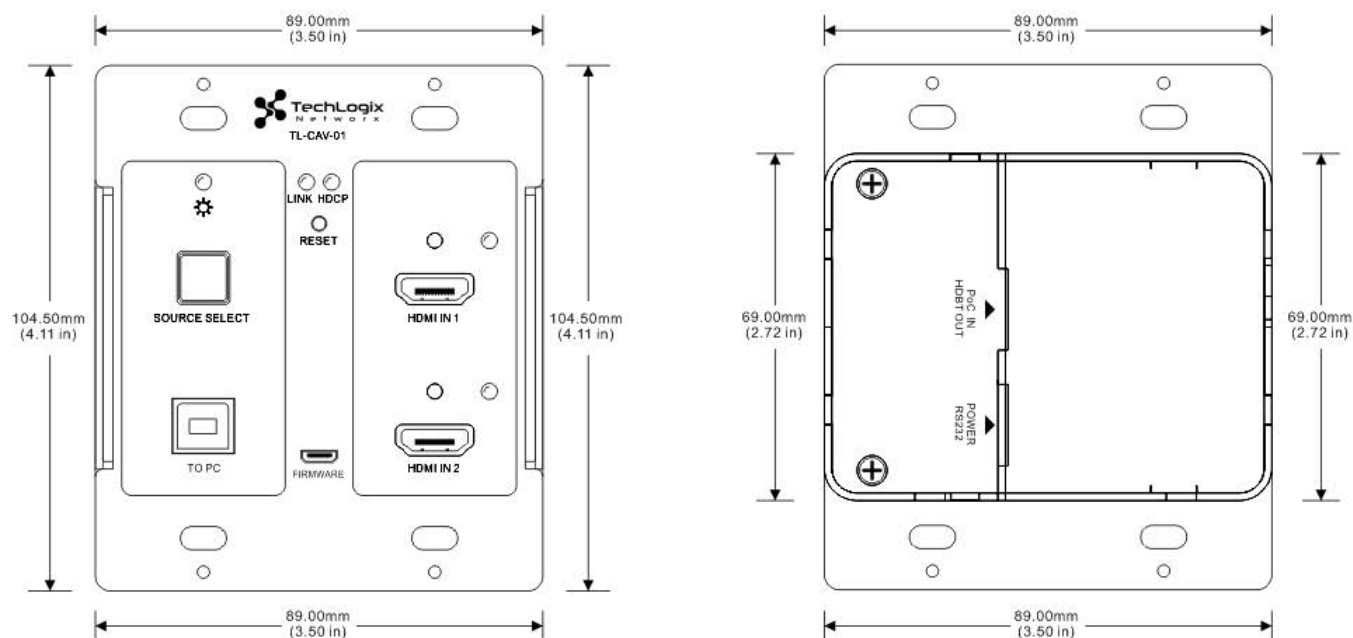
| I/O Connections (wall plate transmitter) | |
|--|---|
| HDM Inputs | Two (2) Type A receptacle |
| HDBT Output | One (1) RJ45 receptacle |
| USB Control | One (1) Type B receptacle |
| Source Select Button | One (1) white button, blue backlight |
| Reset Button | One (1) covered button |
| Firmware Update | One (1) covered USB Type B micro receptacle |
| Power + RS232 | One (1) RJ45 receptacle |

| I/O Connections (surface mount receiver processor) | |
|---|--|
| HDBT Input | One (1) RJ45 receptacle |
| HDMI Output | One (1) Type A receptacle |
| Audio Input | One (1) MIC, 3 pin captive screw connector |
| Audio Outputs | One (1) Amplifier output, 4 pin captive screw connector One (1) Line out, amplifier loop audio, 3 pin captive screw connector |
| TCP/IP Control | One (1) RJ45 receptacle |
| RS232 Control | One (1) 3 pin captive screw connector |
| IR OUT | One (1) 3.5mm stereo audio jack |
| USB Control | One (1) Type A receptacle |
| Remote | One (1) 2 pin captive screw connector |
| Switch | One (1) 2 pin dip switch |
| Control Connections (wall plate controller) | |
| Volume/Control | One (1) Knob |
| Button | Four (4) white buttons, blue backlight |
| USB | One (1) Type A receptacle |
| IR | One (1) Built-in IR receiver |
| RS232 + Power | One(1) RJ45 receptacle |
| Supported Video, Audio and Control | |
| Maximum Video Compatibility | Deep color 48/36/30/24 Bit at 1080p |
| Maximum HDBT transmission Distance | 30m(98ft) |
| EDID | Pass through from display |
| HDCP | HDCP1.4 compliant |
| HDMI Embedded Audio | Up to 8 channel, Dolby Digital TrueHD, and DTS-HD master audio |
| Amplifier/Line Out Frequency Response | 20 Hz~20 KHz |
| Analog Audio Output Impedance | 50Ω |
| IR Carrier Frequency Range | 33-55KHz at 5V |
| USB transmission rate | USB 2.0 standard compliant |
| TCP/IP control | Built-in GUI |
| Chassis and Environmental | |
| Enclosure | Painted aluminum |
| Transmitter Dimensions | US style double gang with decora inserts |
| Receiver/Processor Dimensions (W x H x D) | 250mm x 31mm x 130mm |
| Controller Dimensions | US style single gang |
| Shipping Weight(Kit for three parts) | 1.8 Kg |
| Operating Temperature (Environment) | 0° ~ 40° C (32° ~ 104° F) |
| Operating Temperature (Chassis) | 45° C (113° F) |
| Operating Humidity (Environment) | 10% ~ 90% Non-condensing |
| Storage Temperature (Environment) | -15° ~ 70° C (5° ~ 158° F) |
| Storage Humidity (Environment) | 10% ~ 90% Non-condensing |

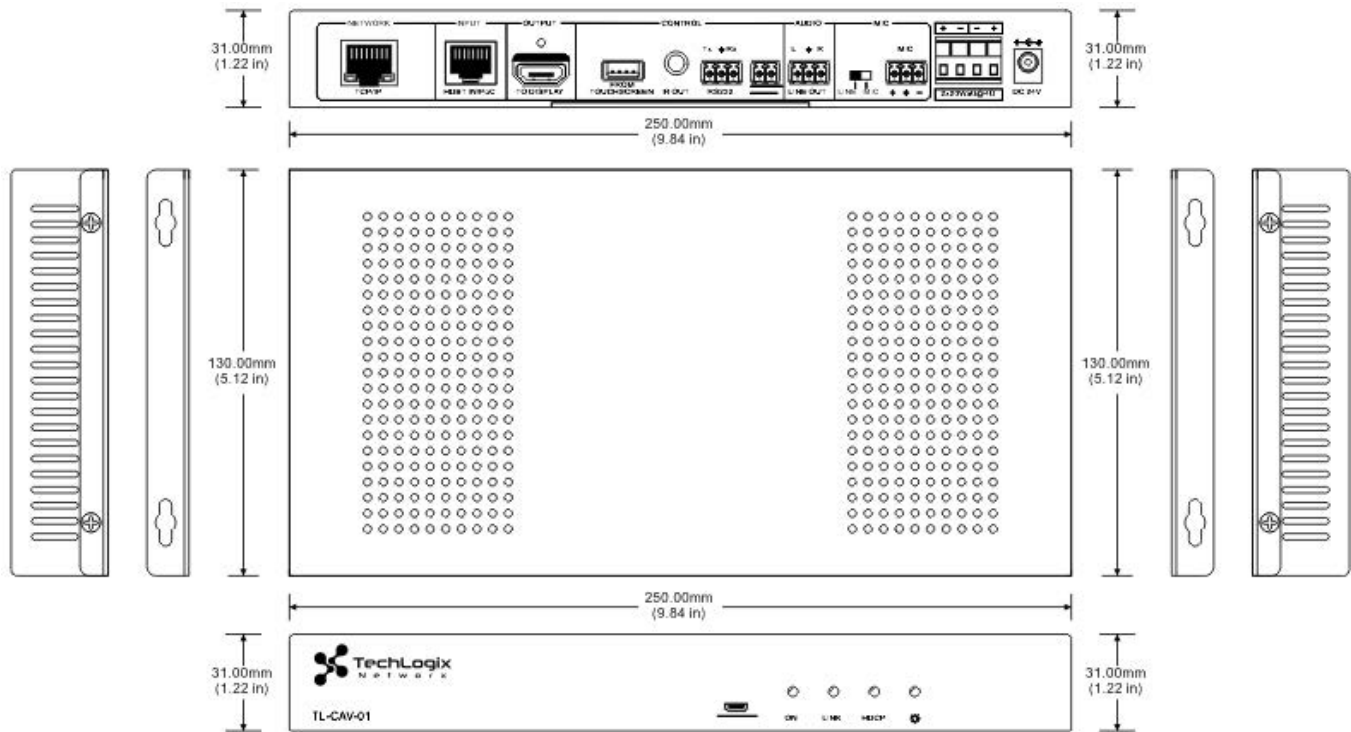
| Power, ESD, Regulatory | |
|---------------------------|--|
| Maximum Power Consumption | 55W |
| Power Supply | DC 24V at 2.71A |
| ESD Protection | 15KV |
| Regulatory | CE, FCC |
| Other | |
| Standard Warranty | 3 Year |
| Indicators | Transmitter: One red for Power, Two green for Input, One green for LINK, One green for HDCP Receiver/Processor: One red for Power, One green for ON, One green for LINK, One green for HDCP Controller: One blue for Source, One blue for MIC, Six blue for volume adjusting |
| Included Items | (1) Installation guide, (1) Power adapter, (2) Mounting ears, (4) Mounting screws, (4) Rubber feet, (1) Pluggable terminal block (4 pin), (2) Pluggable terminal block (3 pin), (1) Pluggable terminal block (2 pin), (1) IR emitter, (1) USB cable, (1) White faceplate |

Dimensional Drawings

Wall plate Transmitter



Surface Mount Receiver/Processor



Wall plate Controller

