

## Technical Specifications

# TL-CAV-01-HDV 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 (1) HDMI source input
- Supports (1) VGA source with analog audio input
- 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-HDV 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 shielded 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-HDV part number replaces hours of design and installation work, and the all-in system price is unrivaled in the classroom technology market.

## Specifications

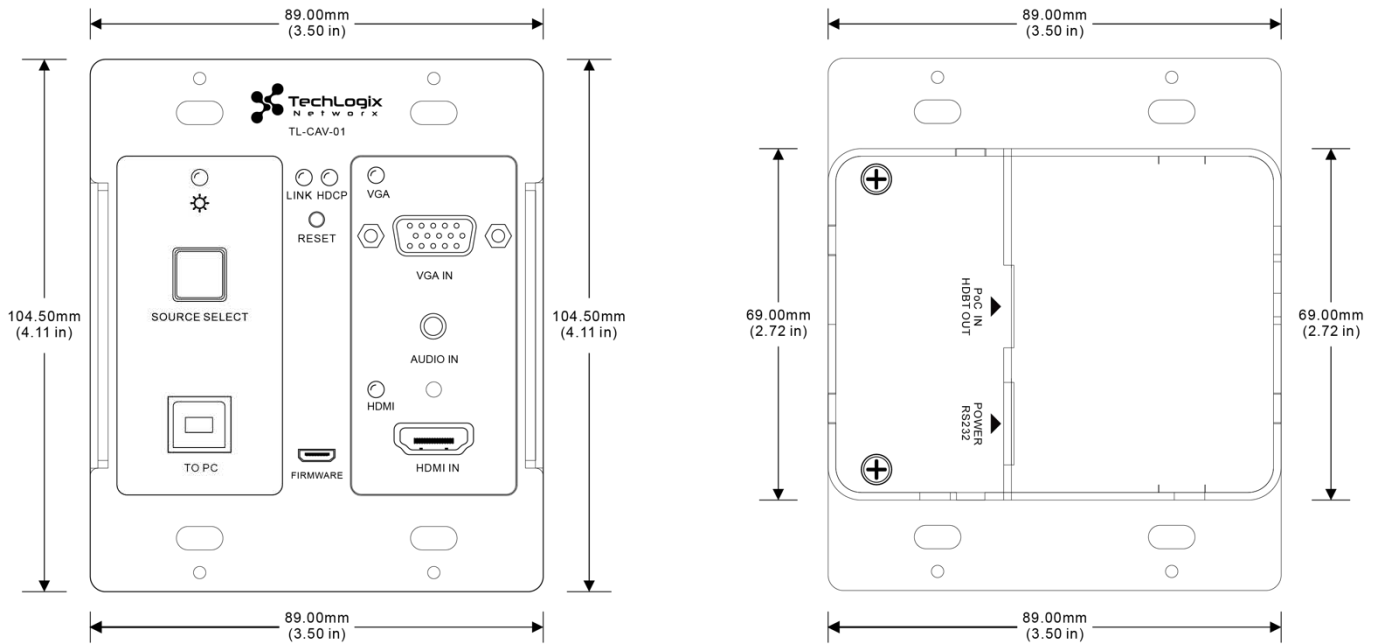
I/O Connections (wall plate transmitter)	
HDMI Input	One (1) Type A receptacle
VGA Input	One (1) HD-15 receptacle
Analog Audio Input	One (1) 3.5mm stereo audio jack
TP Output	One (1) RJ45 receptacle
USB Control	One (1) Type B receptacle
Source Select Button	One (1) white button, blue backlight
Reset Button	One (1) covered button
Firmware Update	One (1) covered USB Type B micro receptacle
Power + RS232	One (1) RJ45 receptacle

<b>I/O Connections</b> (surface mount receiver processor)	
TP 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
<b>Control Connections</b> (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
<b>Supported Video, Audio and Control</b>	
Maximum Video Compatibility - HDMI	Deep color 48/36/30/24 Bit at 1080p
Maximum Video Compatibility - VGA	1920x1200
Maximum TP transmission Distance	30m (98ft)
Recommended Twisted Pair Cable	Shielded solid core Cat 5e or greater with shielded connectors
HDMI EDID	Pass through from display
VGA EDID	1360x768
Supported VGA Input Resolutions	800x600, 960x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1360x768, 1366x768, 1366x768, 1400x1050, 1440x900, 1600x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200
Scaled VGA Output Resolutions	1024x768, 1280x720, 1280x800, 1360x768, 1600x1200, 1920x1080, 1920x1200
HDCP	HDCP 1.4 compliant
HDMI Embedded Audio	Up to 8 channels, 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
<b>Chassis and Environmental</b>	
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

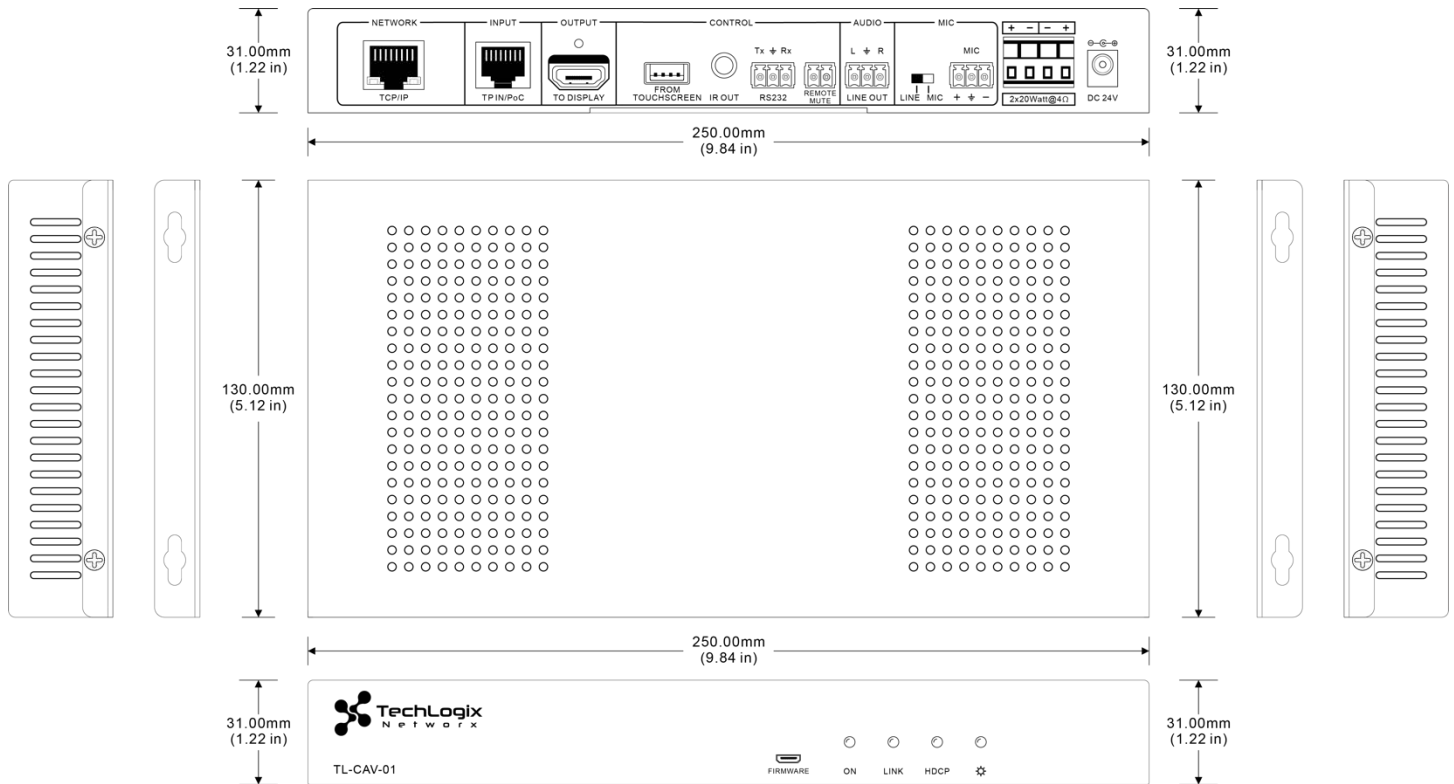
Power, ESD, Regulatory	
Maximum Power Consumption	55W
Power Supply	DC 24V at 2.71A
ESD Protection	15KV
Regulatory	CE, FCC
Other	
Standard Warranty	3 Year
Indicators	<b>Transmitter:</b> One red for Power, Two green for Input, One green for LINK, One green for HDCP <b>Receiver/Processor:</b> One red for Power, One green for ON, One green for LINK, One green for HDCP <b>Controller:</b> 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

