Technical Specifications

TL-CAV-01 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 4ohm 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 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 part number replaces hours of design and installation work, and the all-in system price is unrivaled in the classroom technology market.

Specifications

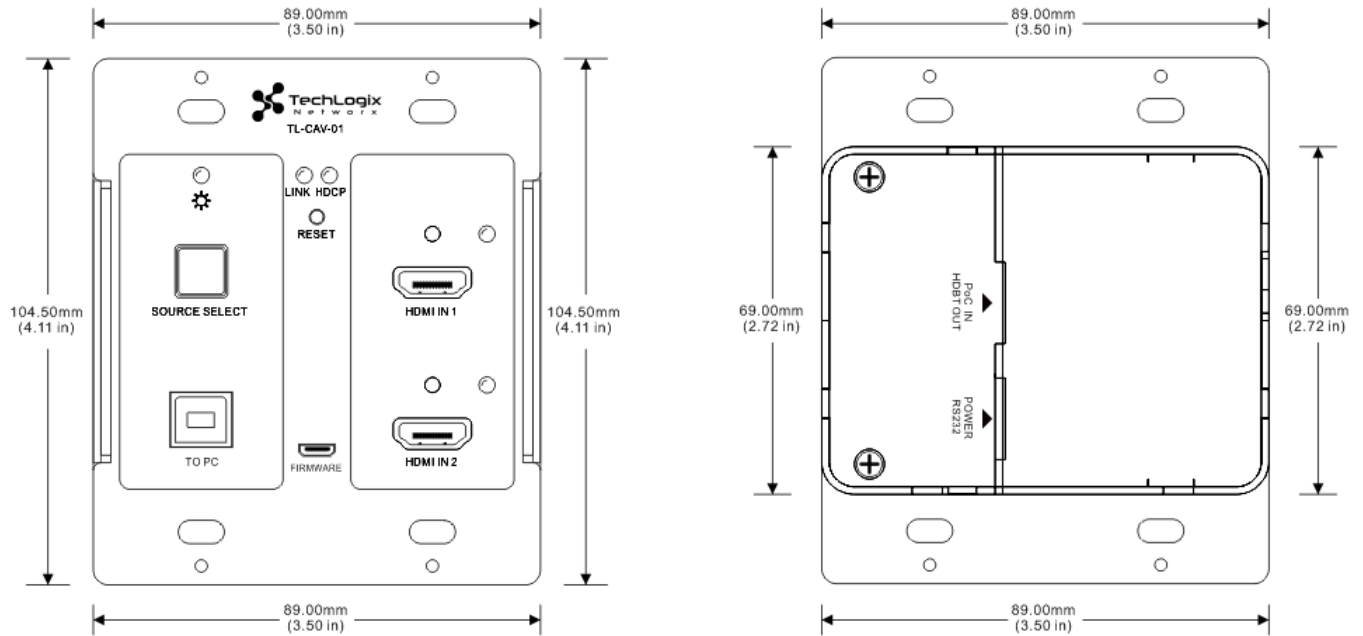| I/O Connections (wall plate transmitter)	
HDM Inputs	Two (2) Type A receptacle
HDBT Output	One (1) RJ45 receptacle
USB Control	One (1) Type B receptacle
Source Select Button	One (1) white button, backlight for blue
Reset Button	One (1) covered button
Firmware Update	One (1) covered Micro receptacle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

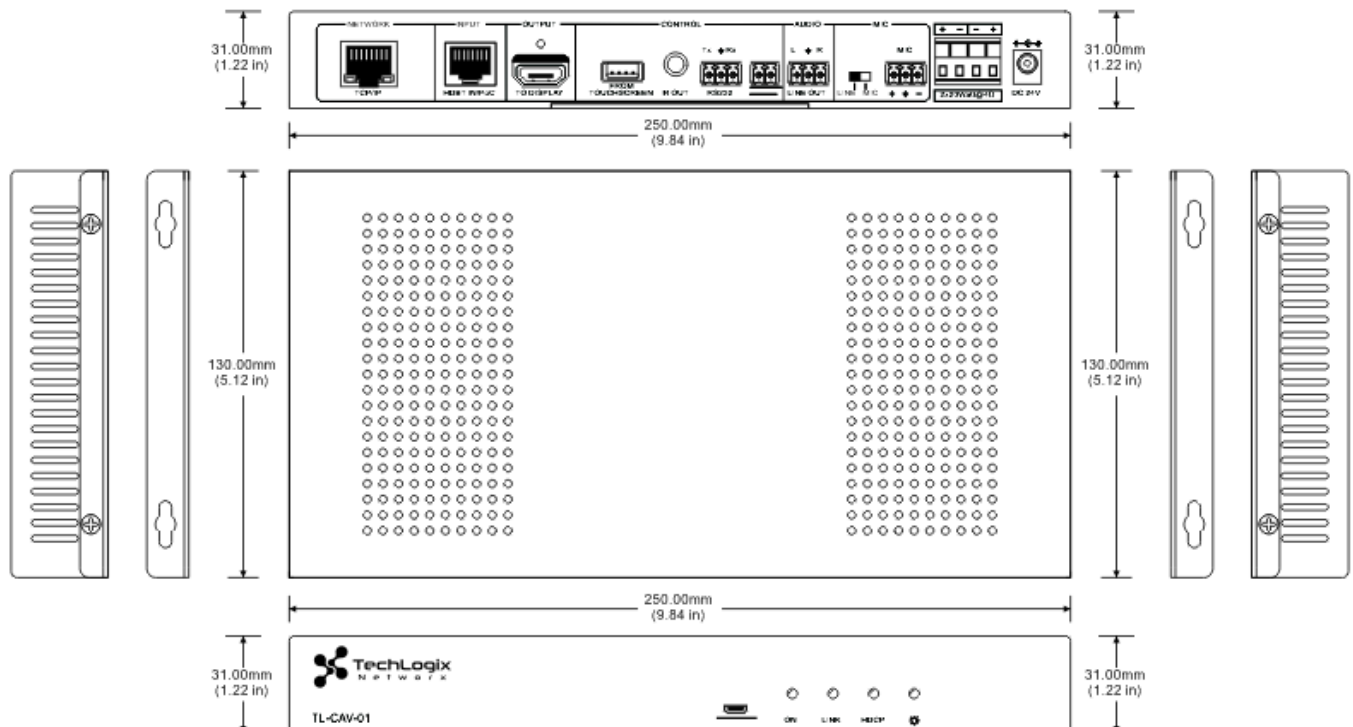|	
Operating Temperature (Chassis)	45° C (113° F)
Operating Humidity (Environment)	10% ~ 90% Non-condensing
Storage Temperature (Environment)	-15° ~ 70° C (5° ~ 158° F)
Storage Humidity (Environment)	10% ~ 90% Non-condensing

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

![TechLogix Networx logo]

TL-CAV-01

89.00mm (3.50 in)

104.50mm (4.11 in)

LINK HDCP

RESET

SOURCE SELECT

HDMI IN 1

TO PC

FIRMWARE

HDMI IN 2

89.00mm (3.50 in)

89.00mm (3.50 in)

69.00mm (2.72 in)

PoC IN
HDBT OUT

POWER
RS232

89.00mm (3.50 in)

Surface Mount Receiver/Processor

31.00mm (1.22 in)

NETWORK   INPUT   OUTPUT   CONTROL   AUDIO   MIC

TCP/IP   HDBT IN/PoC   TO DISPLAY   FROM TOUCHSCREEN   IR OUT   RS232   LINE OUT   MIC   DC 24V

250.00mm (9.84 in)

130.00mm (5.12 in)

250.00mm (9.84 in)

31.00mm (1.22 in)

TL-CAV-01   ON   LINK   HDCP

Wall plate Controller