

### **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 deembedding
- 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



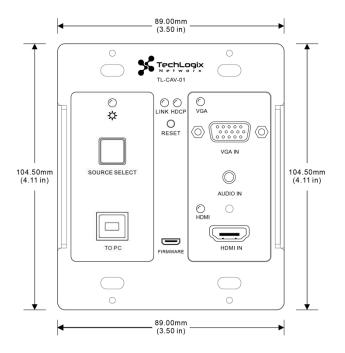
I/O Connections (surface mount receiv	ver processor)	
TP Input	One (1) RJ45 receptacle	
HDMI Output	One (1) Type A receptacle	
Audio Input	One (1) MIC, 3-pin captive screw connector	
Audio Outputs	One (1) Amplifier output, 4-pin captive screw connector	
Addio Odipuis	One (1) Line out, amplifier loop 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) Type A receptacie One (1) Built-in IR receiver	
RS232 + Power	One (1) Built-in IR receiver  One (1) RJ45 receptacle	
	•	
Supported Video, Audio and Control		
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,	
LIDOR	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	
Chassis and Environmental		
Enclosure	Painted aluminum	
Transmitter Dimensions	US style double gang with decora inserts	
Receiver/Processor Dimensions	250mm x 31mm x 130mm	
(W x H x D)		
Controller Dimensions	US style single gang	
Shipping Weight (Kit for three parts)	1.8 Kg	
	0° ~ 40° C	
Operating Temperature (Environment)		
	(32° ~ 104° F)	
Operating Temperature (Chassis)	(32° ~ 104° F) 45° C (113° F)	
Operating Temperature (Chassis) Operating Humidity (Environment)	(32° ~ 104° F) 45° C (113° F) 10% ~ 90% Non-condensing	
Operating Temperature (Chassis)	(32° ~ 104° F) 45° C (113° F)	

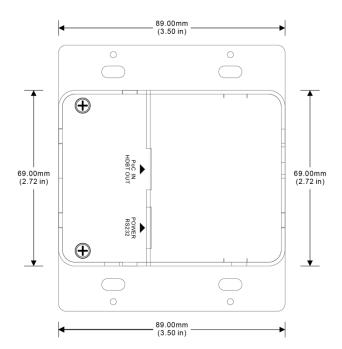


Power, ESD, Regulatory	
Maximum Power Consumption	55W
Power Supply	DC 24V at 2.71A
ESD Protection	15KV
Regulatory	CE, FCC
Other	
Standard Warranty	3 Year
Indicators	Transmitter:
	One red for Power, Two green for Input, One green for LINK, One green for HDCP
	Receiver/Processor:
	One red for Power, One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

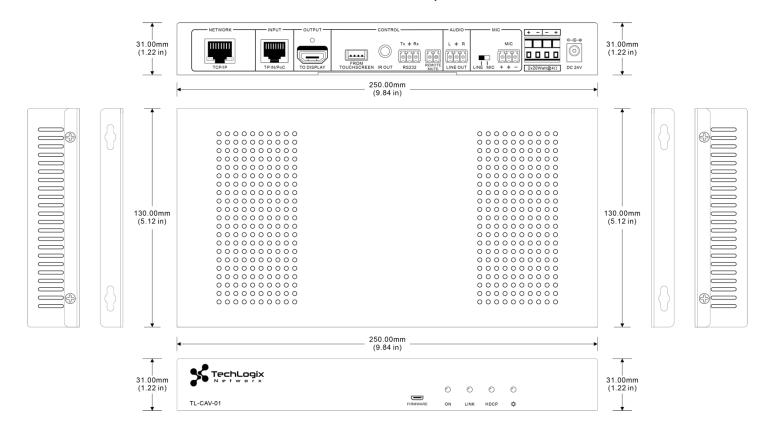
## Wall plate Transmitter







#### Surface Mount Receiver/Processor



### Wall plate Controller

