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 TechLogix Network

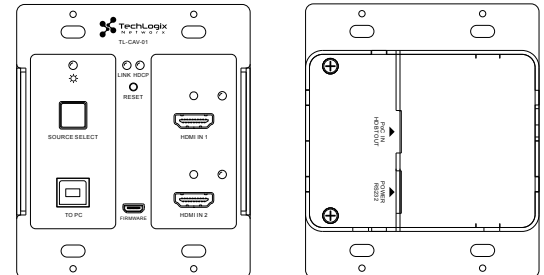
K-12 & Higher Education Design Guide

Connect. Control. Collaborate.
Q1 2017

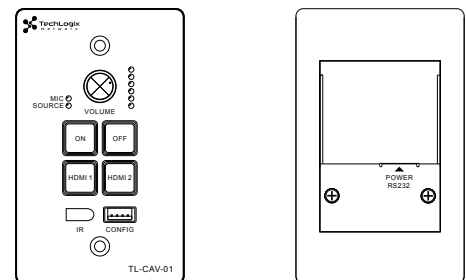
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Need a simple, affordable, all-in-one classroom system? The TL-CAV-01 combines remote control, switching, audio reinforcement, interactive whiteboard connectivity and remote monitoring and diagnostics into a single package. Even better, all three system components connect with a single twisted pair cable—you don't even need to worry about power!

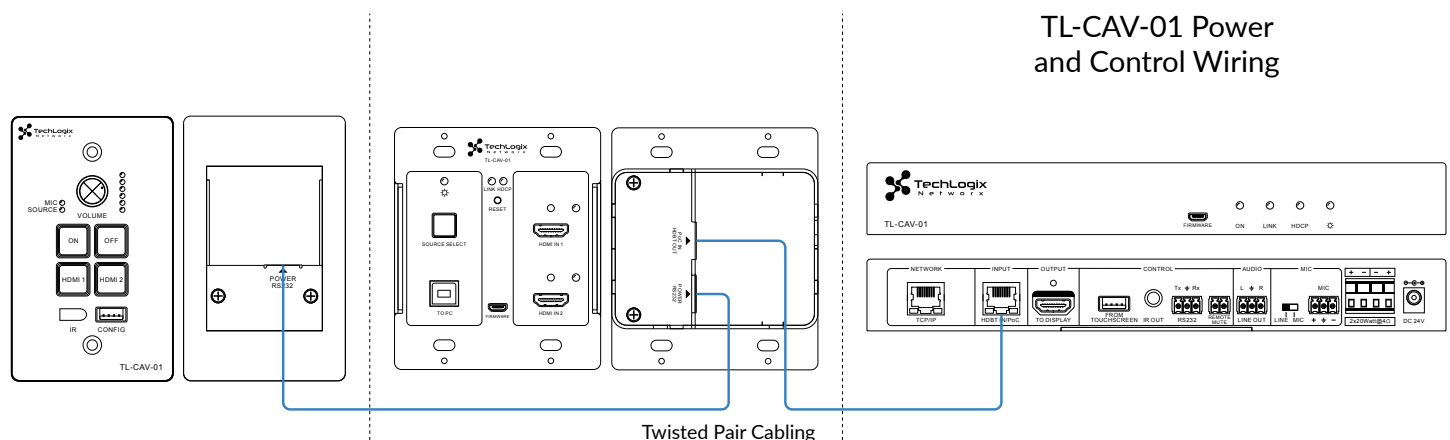
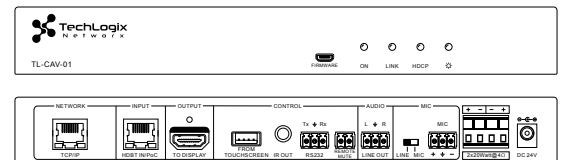
Wallplate Transmitter Features	Included in the system
<ul style="list-style-type: none"> - (2) HDMI source inputs - USB pass-through for interactive whiteboard integration - Single twisted pair connection for AV, communication & power 	<ul style="list-style-type: none"> - Automatic switching with connection sensing or manual switching - Standard US double-gang size (double Decora style)



Wallplate Controller Features	Included in the system
<ul style="list-style-type: none"> - System on/off & volume control - Controls the connected display - USB port for plug-and-play programming 	<ul style="list-style-type: none"> - Single twisted pair connection for communication & power - Standard US single-gang size

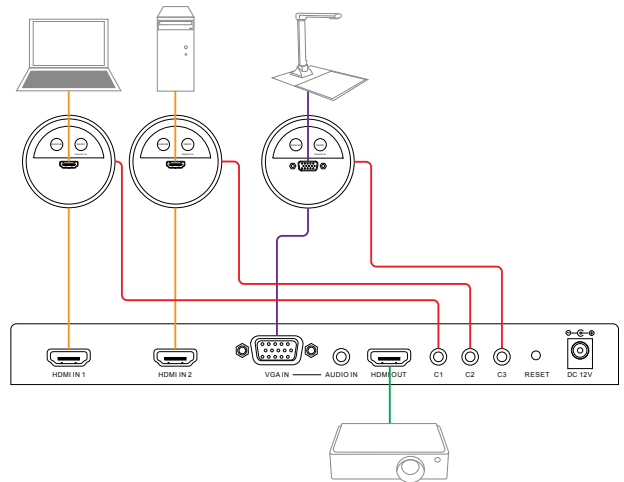


Surface-Mount Receiver/Processor	Included in the system
<ul style="list-style-type: none"> - Mic/line input - HDMI & analog audio output - Relays for system muting - Built-in 2x20W 4Ω amplifier 	<ul style="list-style-type: none"> - TCP/IP connectivity for building-wide monitoring & diagnostics - Single twisted pair connection receives control & AV signals and powers wallplates

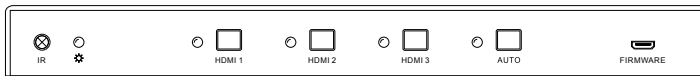


The TechLogix SM Series provides both AV switching and display control for the cost of most 40" displays. The system combines an under-table mounted switcher and up to three table inserts which lock securely to the educator's desk or podium.

The table insert design provides connectivity for sources such as laptops and tablets, as well as display on/off and source selection control that is simple enough for any user to understand with virtually no training. Simply put, an entire lesson can be run with only two buttons: an "on/off" button which turns the switcher and the display on or off, and a "show-me" button which switches the active input channel to the table insert on which the button was pressed.

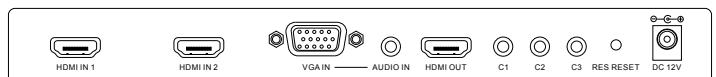


Step 1: Choose your switcher



TL-SM3X1-HD

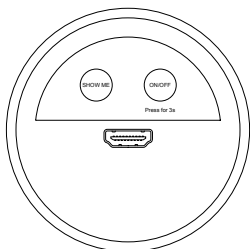
(3) HDMI inputs to (1) HDMI output switcher with CEC display control [(3) SMC-6 cables included]



TL-SM3X1-HDV

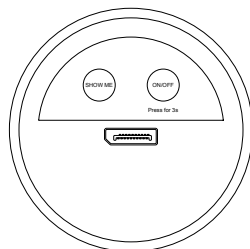
(2) HDMI inputs & (1) VGA input to (1) HDMI output switcher with CEC display control [(3) SMC-6 cables included]

Step 2: Choose your table inserts



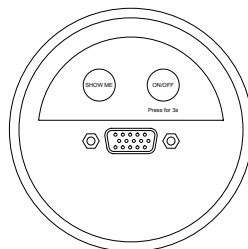
TL-SMG-HD

HDMI with display control



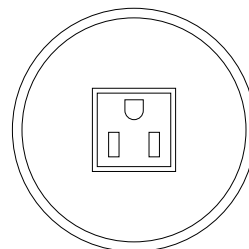
TL-SMG-DP

DisplayPort with display control



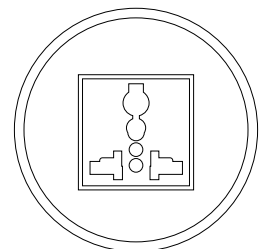
TL-SMG-VGA

VGA with display control



TL-SMG-PAC

US power connection



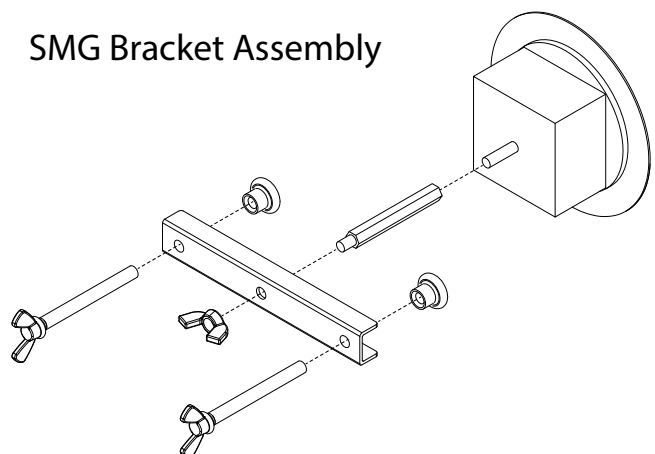
TL-SMG-PUN

Universal power connection

Optional SM cables (TL-SMC): Available in 1 ft, 2 ft, 3 ft, 6 ft & 10 ft lengths

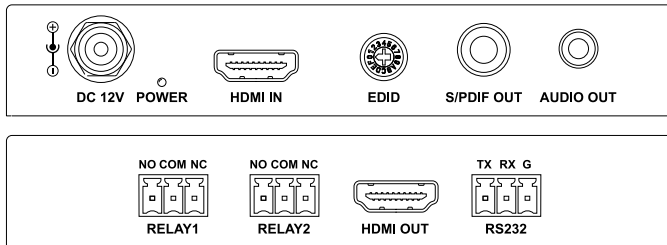
The TechLogix SM Series is also designed for an extremely quick installation. Simply mount the switcher under the podium or desk, mount the table inserts in pre-cut holes sized from 36mm through 60mm, and connect the table inserts to the switcher using standard AV cables (HDMI, DisplayPort, or VGA) and a 3.5mm cable. All power and control commands are sent from the table inserts to the switcher via the 3.5mm cable, and all display on/off commands are sent from the switcher to the display via CEC over an HDMI cable.

SMG Bracket Assembly



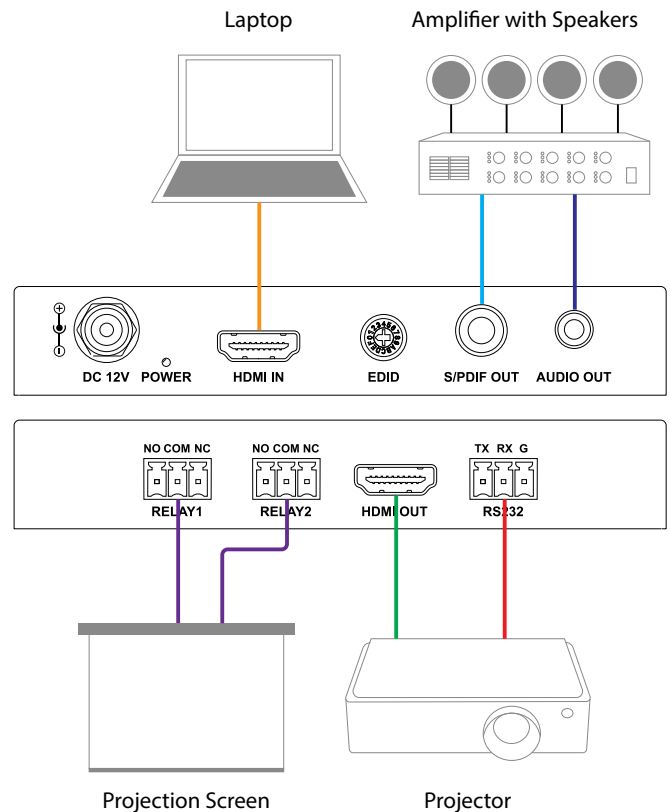
INCT Series In-Line Controller

The TechLogix TL-INCT-01 replaces expensive and complicated control systems with hands-free automation. It “senses” HDMI activity and automatically outputs control commands to connected devices via built-in CEC, RS232 & relay controllers. Commands are fully customizable and simultaneously output via an HDMI port (CEC), RS232 port, and/or dual logic relay ports.



The TL-INCT-01 is empowering teachers to do what they do best...teach!

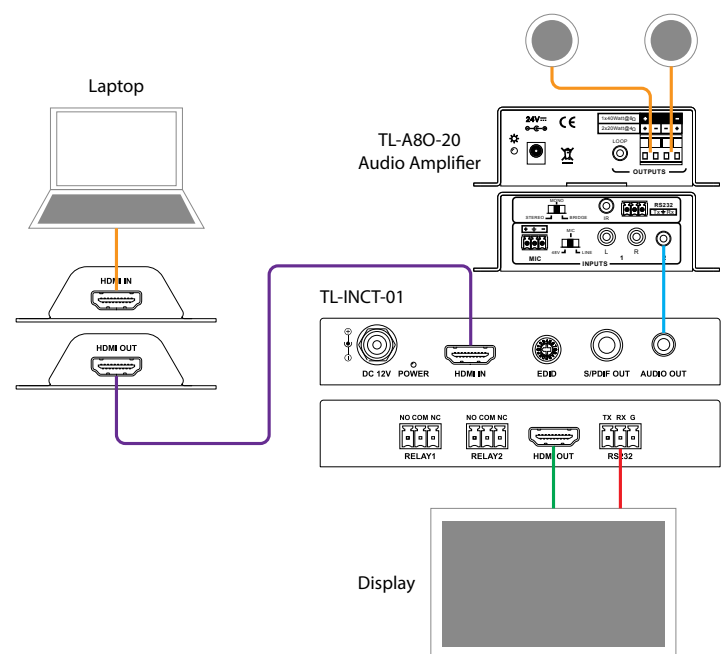
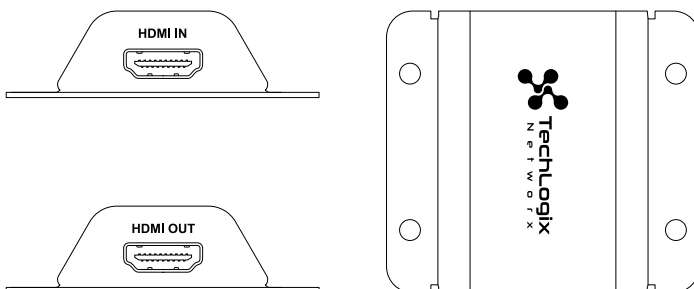
- It eliminates the need for expensive control systems, eliminates the hassle of tracking down remote controls and replacing their batteries, and greatly reduces the teacher technology learning curve.
- It provides connectivity for HDMI devices and a separate audio reinforcement system thanks to de-embedded audio outputs.
- It ensures source device compatibility with 15 definable EDID presets and built-in signal EQ.
- It learns and stores control commands, ensuring compatibility with virtually any manufacturer's equipment.



TL-CPT-HD01 HDMI Connection Point

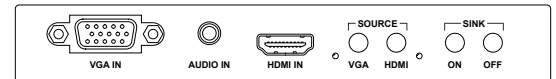
The TL-CPT-HD01 is the perfect complement to a classroom or lecture hall audio-visual system. This compact device provides a clean, low-profile HDMI connection point under tables, desks, work stations and podiums for a variety of portable presentation devices, including the teacher's laptop or tablet.

The TL-CPT-HD01 features a female HDMI input and a female HDMI output, and it is completely powered through the HDMI connection.

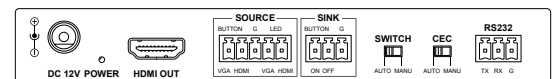
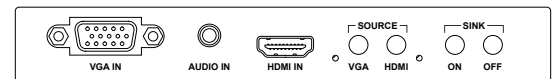


TechLogix presentation switchers manage the audio-visual devices in classrooms and lecture halls. Available in 2x1 through 6x1 configurations, they combine switching, video processing, audio processing and display control into a single, easy-to-install and easy-to-operate package.

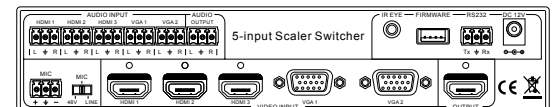
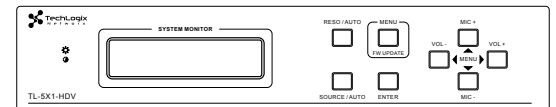
TL-2X1-HDV 2x1 HDMI & VGA switcher	
<ul style="list-style-type: none"> (1) HDMI & (1) VGA input (1) HDMI output Auto-switching with connection sensing HDMI support up to 10G 	<ul style="list-style-type: none"> Manual switching via front panel Built-in CEC controller for automatic display power on/off



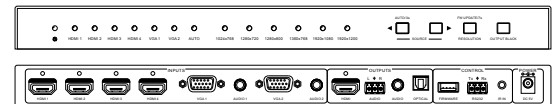
TL-2X1-HDVC 2x1 HDMI & VGA switcher with enhanced control	
<ul style="list-style-type: none"> (1) HDMI & (1) VGA input (1) HDMI output Auto-switching with connection sensing HDMI support up to 10G 	<ul style="list-style-type: none"> Manual switching via front panel, RS232 & contact closure Built-in CEC controller for automatic display power on/off



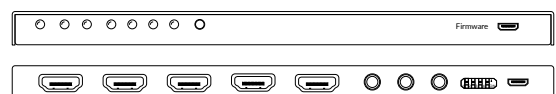
TL-5X1-HDV 5x1 HDMI & VGA switcher with scaling up to WUXGA	
<ul style="list-style-type: none"> (3) HDMI & (2) VGA inputs (1) HDMI output Mic & line inputs with phantom power Auto-switching with connection sensing 	<ul style="list-style-type: none"> Manual switching via front panel, RS232 & IR Built-in CEC controller for automatic display power on/off Analog audio embedding & de-embedding



TL-6X1-HDV 6x1 HDMI & VGA switcher with scaling up to WUXGA	
<ul style="list-style-type: none"> (4) HDMI & (2) VGA inputs (1) HDMI output Auto-switching with connection sensing HDMI support up to 10G 	<ul style="list-style-type: none"> Manual switching via front panel, RS232 & IR Analog audio embedding & de-embedding



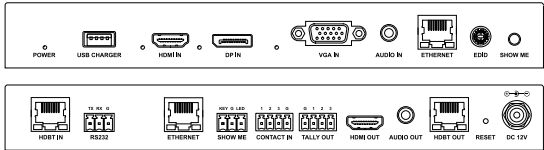
TL-4X1-HD2 4x1 HDMI switcher	
<ul style="list-style-type: none"> (4) HDMI inputs (1) HDMI output Auto-switching with connection sensing HDMI support up to 18G* 	<ul style="list-style-type: none"> Manual switching via front panel, RS232 & IR Analog audio de-embedding Audio Return Channel (ARC) supported



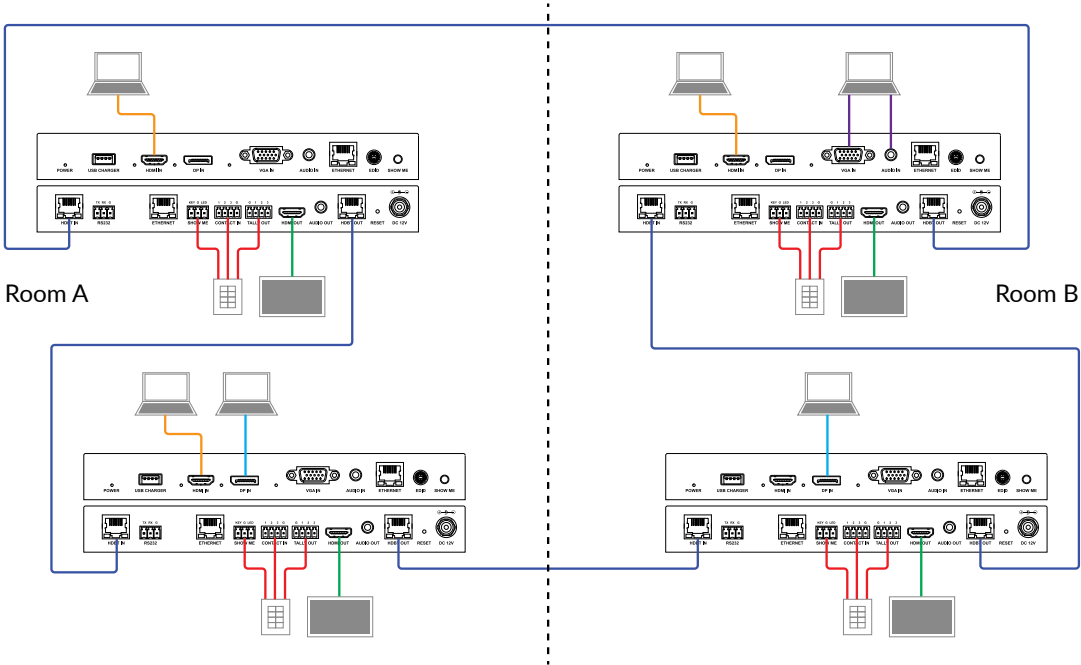
*10G model also available (TL-4X1-HD)

TL-SM-HDVDP Collaboration Solution

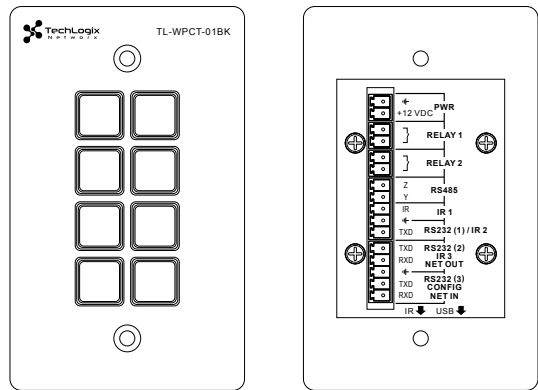
The TL-SM-HDVDP is a flexible and powerful show-me hub for collaboration and any-to-all team viewing. Simply place a unit at each workstation and at the main display—presenters can choose source content from any individual input, both at the workstations and from the front of the classroom or lecture hall.

TL-SM-HDVDP	HDMI, VGA and DisplayPort Collaboration Solution
	<ul style="list-style-type: none">- (1) HDMI, (1) DisplayPort, (1) VGA & (1) HDBaseT input- (1) HDMI & (1) HDBaseT output- Automatic switching with connection sensing- Manual switching via RS232, Ethernet, front panel, contact closure & built-in web GUI
	<ul style="list-style-type: none">- Built-in CEC & RS232 controller for automatic display on/off- Link up to 255 units in a single, daisy-chained system- Up to 100m (330 ft.) distance between each unit- Integrated Ethernet switch for local network access

The TL-SM-HDVDP is the ultimate collaboration transceiver, serving as a presentation switcher and both an HDBaseT transmitter *and/or* receiver depending on the application.



TL-WPCT-01BK Wallplate Controller



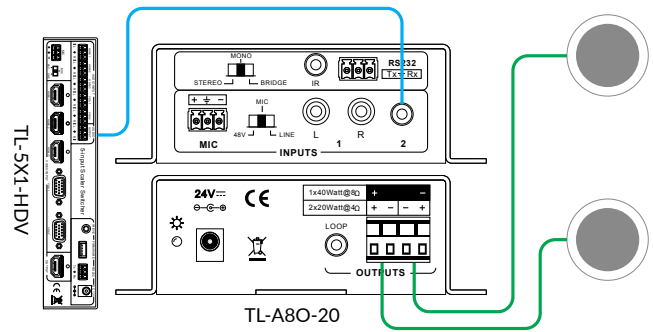
The TL-WPCT-01BK pairs a powerful and flexible control processor with a durable, easy-to-use design that’s ideal for most classrooms and lecture halls.

TL-WPCT-01BK	Eight button wall plate controller
<ul style="list-style-type: none">- Single gang, US-style wall plate- Eight backlit buttons with adjustable light settings- Customizable buttons- Free configuration software: upload with mini USB- Multiple controller looping for up to 99 units	<ul style="list-style-type: none">- Outputs customizable control commands in RS232, RS485, IR & relay- (3) RS232 ports, (1) RS485 port, (3) IR ports, (2) relay ports- Built-in IR learning- Firmware upgradeable

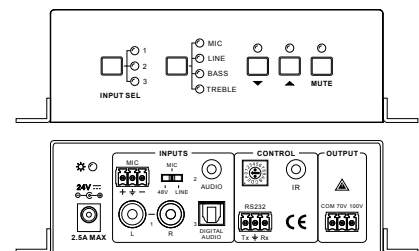
TechLogix offers a comprehensive line of audio solutions designed specifically for classroom audio reinforcement.

A70 and A80 Series amplifiers pair seamlessly with presentation switchers and third party control systems thanks to integrated RS232, IR and Ethernet control—and for a cost that's a fraction of most competitive solutions.

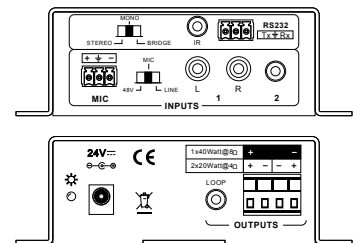
The TL-AD-HD de-embeds *and* decodes the audio from an HDMI stream for distribution to an analog or digital sound reinforcement system.



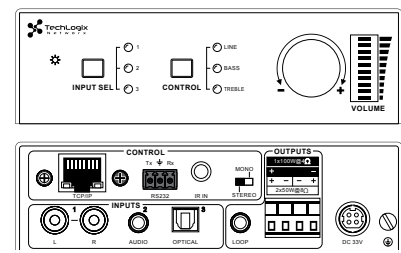
TL-A70-40W	70V & 100V / 40W mixer amplifier
<ul style="list-style-type: none"> (1) mic/line, (1) stereo audio & (1) digital audio input 70V or 100V 40W output Mic mixing with source audio Front panel, IR & RS232 control 	<ul style="list-style-type: none"> Built-in EQ 48 dB of mic gain with phantom power 4 dB of line gain Auto-ducking on the mic channel



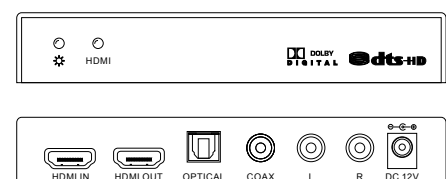
TL-A80-20W	8Ω / 20W mixer amplifier
<ul style="list-style-type: none"> (1) mic/line & (1) stereo audio 2x20W output at 4Ω Mic mixing with source audio Front panel, IR & RS232 control Line level looping output 	<ul style="list-style-type: none"> Built-in EQ 48 dB of mic gain with phantom power 4 dB of line gain Auto-ducking on the mic channel

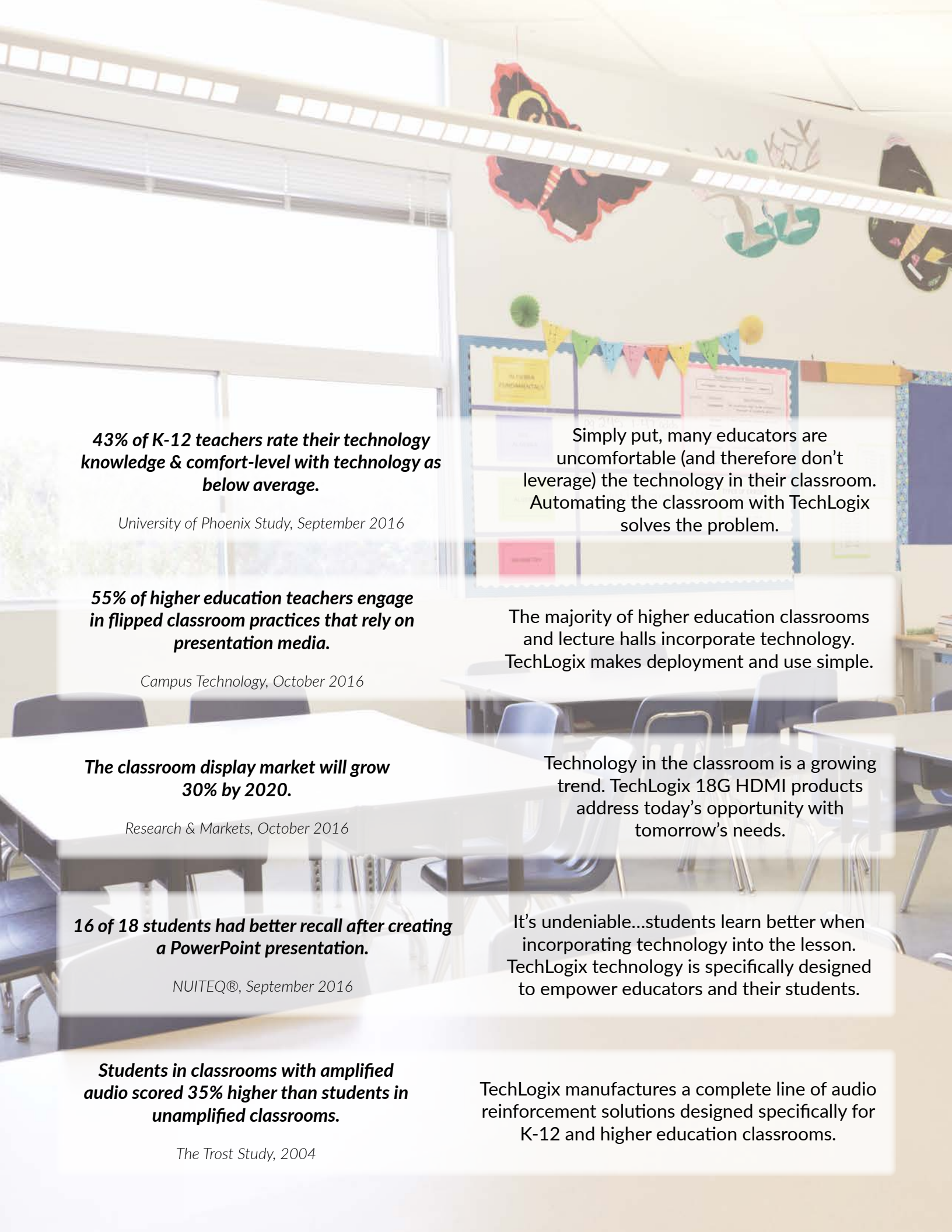


TL-A80-50W	8Ω / 50W mixer amplifier
<ul style="list-style-type: none"> (1) RCA, (1) 3.5mm & (1) TOSLink input 2x50W output at 8Ω Front panel, IR, Ethernet, RS232 & Software control 	<ul style="list-style-type: none"> Built-in EQ Line level looping output Rotary knob for volume control



TL-AD-HD	HDMI audio de-embedder & decoder
<ul style="list-style-type: none"> Decodes audio from the HDMI stream Dolby & DTS decoding Multi-channel audio conversion to stereo audio 	<ul style="list-style-type: none"> HDMI, digital audio & analog audio outputs HDMI 2.0 HDCP 2.2





43% of K-12 teachers rate their technology knowledge & comfort-level with technology as below average.

University of Phoenix Study, September 2016

55% of higher education teachers engage in flipped classroom practices that rely on presentation media.

Campus Technology, October 2016

The classroom display market will grow 30% by 2020.

Research & Markets, October 2016

16 of 18 students had better recall after creating a PowerPoint presentation.

NUITEQ®, September 2016

Students in classrooms with amplified audio scored 35% higher than students in unamplified classrooms.

The Trost Study, 2004

Simply put, many educators are uncomfortable (and therefore don't leverage) the technology in their classroom. Automating the classroom with TechLogix solves the problem.

The majority of higher education classrooms and lecture halls incorporate technology. TechLogix makes deployment and use simple.

Technology in the classroom is a growing trend. TechLogix 18G HDMI products address today's opportunity with tomorrow's needs.

It's undeniable...students learn better when incorporating technology into the lesson. TechLogix technology is specifically designed to empower educators and their students.

TechLogix manufactures a complete line of audio reinforcement solutions designed specifically for K-12 and higher education classrooms.