



KA129 HDMI/VGA WALL PLATE HD BASE-T EXTENDER 18G 70M SUPPORT CONTROL PAD



The product is a multi-function AV intelligent education system. It offers 2HDMI and VGA video extension, video switching, system control and analog audio amplification. Uncompressed video and audio can be transmitted up to 230ft/70m. This design of HDBaseT™ technology allows for full usage of HDMI and controls over CAT5e/6/6A cable. The product supports Web GUI and panel button control.

Transmitter support HDCP 1.4, HDCP2.2 and can be switched manually, auto, hybrid or priority. And the maximum distance can be up to 70m at 1920x1200@60Hz or up to 40m at 4K @ 30 Hz.

Receiver support a microphone input, analog audio output, 2x30 at 4 ohms speaker output, and Relay control to the projector screen rise and fall or RS-232 control to the display power on and off. A USB port on the receiver will transmit interactive display connections to the transmitter.

Control Panel supports volume control and system control. At the same time, it can support 2 HDMI and one VGA input selection.

Features

- HDMI 1.4b, HDCP 2.2 and HDCP 1.4 compliant.
- Video resolutions up to 4K2K@30Hz, 1080p@120Hz and 1080P 3D@60Hz.
- Audio up to 7.1 channels of High Definition audio pass through (LPCM, Dolby TrueHD, and DTS-HD Master Audio).
- HDBaseT™ over a single CAT5e/6/7 cable up to 230ft/70m distance.
- Support multi-VESA Standard VGA formats input.
- Supports MIC input.
- 2x30watts@4 ohms amplifier output.
- Supports interactive display USB pass-through.
- Supports Web GUI control.
- Supports control panel volume control and system control.
- Supports relay control.
- Supports RS-232 control.

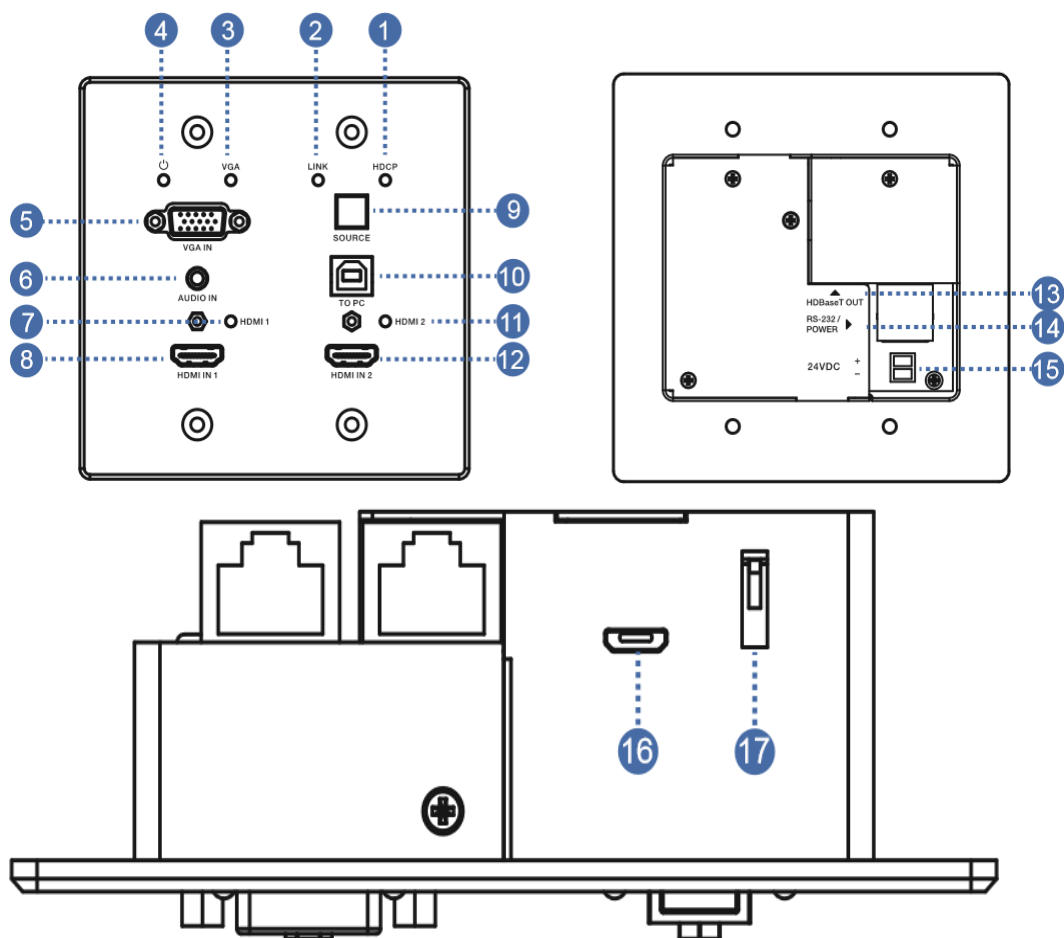
Specifications

Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 2.2/HDCP 1.4
Video Bandwidth	10.2 Gbps
Video Resolution	up to 4K2K@30Hz,1080P@120Hz and 1080P 3D @60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8/10/12-bit
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Transmitter	Inputs: 2x HDMI IN Type A [19-pin female] 1x VGA [DB15 VGA female] 1x AUDIO IN [3.5mm Stereo Mini-jack] 1x RS-232/POWER [RJ45]

	Outputs: 1x HDBaseT Out [RJ45]
Receiver	<p>Inputs: 1x HDBaseT In [RJ45] 1x MIC IN [Screw Terminal] 1x USB [USB A TYPE] 1x TCP/IP [RJ45]</p> <p>Outputs: 1x HDMI OUT Type A [19-pin female] 1x RS-232 [Screw Terminal] 1x RELAY [Screw Terminal] 1x AUDIO OUT [Screw Terminal] 1x 2x30watts@4 ohms amplifier output [Screw Terminal]</p>
Mechanical	
Housing	Metal Enclosure
Color	Transmitter: White, Receiver: Black
Dimensions	Transmitter: 115.9mm [W] x 114.3mm [D] x 38.7mm [H] Receiver: 250mm [W] x 104mm [D] x 30mm [H]
Weight	Transmitter: 305g, Receiver: 758g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 24V/3.75A (US/EU standards, CE/FCC/UL certified)
Power Consumption	75W (max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Operation Controls and Functions

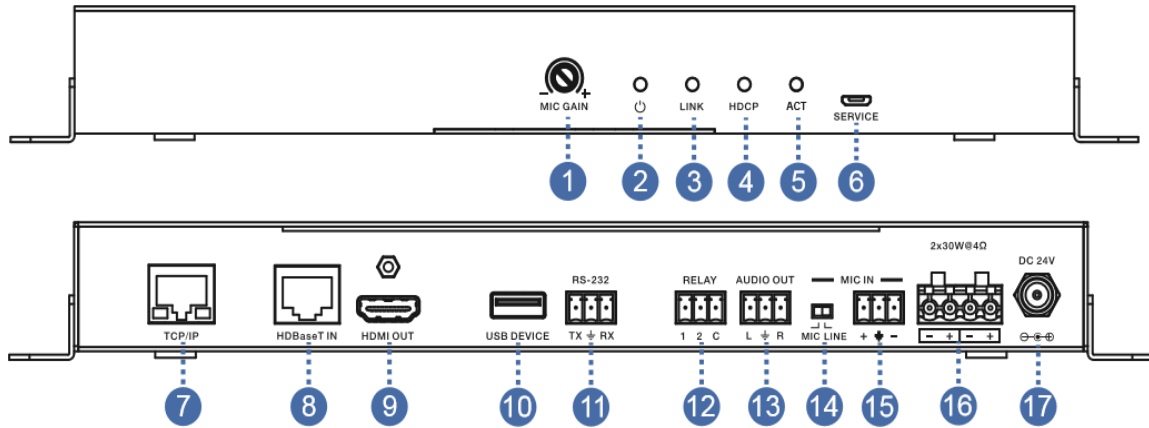
Transmitter Panel



Number	Name	Function description
1	HDCP LED	HDCP compliance indicator. <ul style="list-style-type: none"> ▪ OFF: HDMI input is not carrying HDCP content. ▪ ON: HDMI input is carrying HDCP content.
2	LINK LED	HDBaseT Link status indicator. <ul style="list-style-type: none"> ▪ OFF: No Link. ▪ GREEN: Link successful. ▪ Blink GREEN: Link abnormal.
3	VGA LED	VGA signal indicator. <ul style="list-style-type: none"> ▪ OFF: There is no +5V HPD or VGA signal detected on input. ▪ FLASHING: +5V HPD or VGA signal is detected.

		<ul style="list-style-type: none"> ▪ GREEN: VGA is active input and VGA signal is detected.
4	POWER LED	System power indicator.
5	VGA IN	Connect to VGA source.
6	ADUIO IN	Connect to external audio source for VGA signal.
7	HDMI 1 LED	<p>HDMI 1 signal indicator.</p> <ul style="list-style-type: none"> ▪ OFF: There is no +5V HPD or HDMI signal detected on input. ▪ FLASHING: +5V HPD or HDMI signal is detected. ▪ GREEN: HDMI is active input and HDMI signal is detected.
8	HDMI 1 IN	Connect to HDMI source device.
9	SOURCE	Press it to select one source.
10	TO PC	Connect PC to transmit USB control signal from the Receiver USB device in.
11	HDMI 2 LED	<p>HDMI 2 signal indicator.</p> <ul style="list-style-type: none"> ▪ OFF: There is no +5V HPD or HDMI signal detected on input ▪ FLASHING: +5V HPD or HDMI signal is detected. ▪ GREEN: HDMI is active input and HDMI signal is detected
12	HDMI 2 IN	Connect to HDMI source device.
13	HDBaseT OUT	Connect to HDBaseT Receiver with a Cat5e/6/7 cable.
14	RS-232/POWER	Connect to Control Panel via CAT5e/6/7 cable.
15	24VDC (OPTIONAL)	Connects 24V/1A adaptor to AC wall outlet for power supply.
16	Micro-USB	For firmware updated use.
17	DIP SWITCH	Select upgrade type.

Receiver Panel



Number	Name	Function description
1	MIC GAIN	Set the MIC input gain.
2	POWER LED	System power indicator.
3	LINK LED	HDBaseT Link status indicator. <ul style="list-style-type: none"> ▪ OFF: No Link. ▪ GREEN: Link successful. ▪ Blink GREEN: Link abnormal.
4	HDCP LED	HDCP compliance indicator. <ul style="list-style-type: none"> ▪ OFF: HDMI input is not carrying HDCP content. ▪ ON: HDMI input is carrying HDCP content.
5	ACT	System work indicator. <ul style="list-style-type: none"> ▪ OFF: System standby or power off. ▪ Blink GREEN: System working.
6	SERVICE	For firmware updated use.
7	TCP/IP	Connect to a PC access to the Web GUI for system setting.
8	HDBaset IN	Connect to HDBaseT Transmitter with a Cat5e/6/7 cable.
9	HDMI OUT	Connect to a HDMI display device.
10	USB DEVICE	Connect to an interactive display.
11	RS-232	RS-232 control for the display.
12	RELAY	To control the projector screen rise and fall.
13	AUDIO OUT	Connect to a speaker.
14	MIC LINE SWITCH	<ul style="list-style-type: none"> ▪ When the switch is set to “MIC”, the microphone input is used to connect a dynamic microphone.

		<ul style="list-style-type: none"> When the switch is set to "LINE", the microphone input is used for connecting a line level audio source or wireless microphone output.
15	MIC IN	Using Phoenix terminal cable to connect microphone input.
16	2X30 watts @4Ω	Connect to speaker out.
17	DC 24V	Connect 24V/3.75A adaptor to AC wall outlet for power supply.

Application Example

