VigilLink

VLWP-3HVG-TR

18G, 3x1 2xHDMI/VGA Wall Plate w/Auto -Switching, USB2.0, POC (2-Gang US Decora, 40M@4K, 70M@1080P) White color Tx/Rx pair





VER 1.1

Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference.

A surge protection device is recommended.

This product contains sensitive electrical components that electrical spikes may damage surges, electric shocks, lightning strikes, etc. Use of surge protection systems are highly recommended to protect and extend the life of your equipment.

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1. Introduction

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 total usage of HDMI and controls over CAT5e/6/6A cable. The product supports Web GUI and panel button control. Transmitter support HDCP 1.4 and HDCP2.2 and can be switched manually, auto, hybrid, or priority. And the maximum distance can be up to 70m at 1920x1200@60Hz or 40m at 4K @ 30 Hz.

The receiver supports 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.

2. Features

- $\stackrel{<}{\curvearrowright}$ HDMI 1.4b, HDCP 2.2, and HDCP 1.4 compliant.
- $\stackrel{<}{\sim}$ 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.
- $\stackrel{<}{\curvearrowright}$ Support multi-VESA Standard VGA formats input.
- \cancel{x} Supports MIC input.
- \cancel{x} 2x30watts@4 ohms amplifier output.
- $\stackrel{<}{\curvearrowright}$ Supports interactive display USB pass-through.
- $\cancel{\sim}$ Supports Web GUI control.
- $\stackrel{<}{\curvearrowright}$ Supports control panel volume control and system control.
- $\cancel{\sim}$ Supports relay control.
- ☆ Supports RS-232 control

3. Package Contents

- 1 1 \times HDMI Extender Transmitter
- 2 1 \times HDMI Extender Receiver
- $31 \times 24V/3.75A$ DC Power Supply
- 4 2× Mounting ears
- (5) 1× User Manual

4. 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 Format	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 \pm 8kV (Air-gap discharge) &
	\pm 4kV (Contact discharge)
Connections	
Connections	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	Inputs: 1x HDBaseT in [RJ45]
	1x MIC IN [Screw Terminal]
	1x USB [USB A TYPE]
	1x TCP/IP [RJ45]
	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]
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	32 - 104° F / 0 - 40° C
Temperature	
Storage Temperature	-4 - 140° F / -20 - 60° C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions

5.1 Transmitter Panel



Number	Name	Function description	
1	HDCP LED	HDCP compliance indicator.	
		 OFF: HDMI input is not carrying HDCP content. 	
		 ON: HDMI input takes HDCP content. 	
2	LINK LED	HDBaseT Link status indicator.	
		OFF: No Link.	
		GREEN: Link successful.	
		 Blink GREEN: Link abnormal. 	
3	VGA LED	VGA signal indicator.	
		 OFF: No +5V HPD or VGA signal detected on input. 	
		 FLASHING: +5V HPD or VGA signal is detected. 	
		 GREEN: VGA is active input, and VGA signal is seen. 	
4	POWER LED	System power indicator.	

5	VGA IN	Connect to VGA source.	
6	AUDIO IN	Connect to external audio source for VGA signal.	
7	HDMI 1 LED	HDMI 1 signal indicator.	
		 OFF: 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	HDMI 2 signal indicator.	
		 OFF: There is no +5V HPD or HDMI signal detected on the 	
		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	Connects 24V/1A adaptor to AC wall outlet for power supply.	
	(OPTIONAL)		
16	Micro-USB	For firmware updated use.	
17	DIP SWITCH	Select upgrade type.	

5.2 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.	
		 OFF: No Link. 	
		 GREEN: Link successful. 	
		 Blink GREEN: Link abnormal. 	
4	HDCP LED	HDCP compliance indicator.	
		 OFF: HDMI input is not carrying HDCP content. 	
		 ON: HDMI input takes HDCP content. 	

5	ACT	System work indicator.
		 OFF: System standby or power off.
		 Blink GREEN: System working.
6	SERVICE	For firmware updated use.
7	TCP/IP	Connect to a PC and access the Web GUI for system settings.
8	HDBaset IN	Connect to HDBaseT Transmitter with a Cat5e/6/7 cable.
9	HDMI OUT	Connect to an 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's rise and fall.
13	AUDIO OUT	Connect to a speaker.
14	MIC LINE	• When the switch is set to "MIC," the microphone input is used
	SWITCH	to connect a dynamic microphone.
		• 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 @4 Ω	Connect to speaker out.
17	DC 24V	Connect 24V/3.75A adaptor to AC wall outlet for power supply.

6. Web GUI User Guide

The product can be controlled via Web GUI through TCP/IP port. The default

IP address is 192.168.2.100. When the product has finished connection. You

can set the IP address to your PC/laptop Internet Explorer and click "Search."

to enter the Web GUI login page. On the login page, you need to set the 'User'

and

'Password.' The admin's default 'User Name' and 'Password' are both

'admin.' When you set it over, you need to click the 'Login' button to enter the

Web GUI function page. The login page likes below:

Please login to continue
Please login to continue
Please login to continue
-
User: admin
Password:
Login

MAIN page



	Input Select	
HDMI	HDMI2	VGA
1		

Shows the status of the input signal.

Green: The input port has connected an active signal.

Blue: The input port has connected success but no active signal.

Red: The input port has not connected.



Volume control outputs for the amplifier and the audio extractor. Adjusting the slider to increase or decrease results in the amplifier and the audio extractor. Toggle is the Mute setting to silence the amplifier and the audio extractor outputs. The mute setting does not silence the audio on the HDMI output line.

	System	Connection Status	Display	Output Mute
3	OFF 💽 ON		OFF ON	OFF ON

System – runs the system on/off subroutine when switching the toggle. (see

section 7)

Connection Status – indicates when the connection is well about the web server.

Display – Runs the show on/off subroutine when switching the toggle, see

section 8.

Output Mute – turns off the video output but does not mute audio.

CONTROL page

Room Label 👤 LOGOUT				
MAIN	CONTROL	INPUT/OUTPUT		SYSTEM
Display System Sync	Relay	SYSTEM	Baud Rate	9600 🗸
Auto System	Relay(0	Dn)Time Seconds	Data Bits Parity Bits	a V NONE V
Rs232 On Command			1	0 Seconds
Rs232 Off Command			2	0 Seconds
	CR+LF Save	Hex Cancel		
Display System System System	ync ABLE			

(1)

Display System Sync: When the toggle is in the 'enable' position, the display on/off subroutine will run the system subroutine on/off every time. (See section 7)



Auto System: When the toggle is in the 'enable' position, and the system is in standby status, if a new signal is connected, the system will change to active and fully controllable. When the toggle is in the 'disable' position and the system is in standby status, if a new signal is connected, the system status won't change.



Relay Sync: Sets the relays to either be triggered with the display subroutine

on/off or the system subroutine on/off. (see sections 7 and 8)

Relay(On)Time		
0	Seconds	

Relay (On) Time: Sets the amount of time that the relay contacts will stay

close.

	Baud Rate	9600	~
	Data Bits	8	~
(5)	Parity Bits	NONE	~

The RS-232 communication settings for the RS-232 port.

	Rs232 On Command			10	Seconds
	Rs232 Off Command			20	Seconds
(6)		CR+LF	Hex		

RS232 On Command: Sends out data when Display On subroutine is called.

RS232 Off Command Sends out data when the Display Off subroutine is called.

CR + LF: Appends a carriage return and line feed character to the end of the

input strings as they are sent out.

Hex: The commands can be input as hexadecimal numbers when the Hex checkbox is marked.

	Save	Cancel
\bigcirc	Juit	Cuncer

Save: After any setting has been made, the settings must be saved by pressing

the 'Save' button.

Cancel: Wait for the popup window to close automatically before continuing

to make another set while it saves.

INPUT/OUTPUT page

	Room	n Label	
MAIN	CONTROL	INPUT/OUTPUT	SYSTEM
Switch Mode	Auto 🗸	No Activity Timeout	8 Minutes
HDMI1 HDMI2	1 ✓ 2 ✓	Audio Delay	0 Seconds
VGA	3 🗸		
	INTERNAL	G-DH	EDID
EDID Update			
Open BIN File	ick here open file Save	Upgrade 0% Cancel	
Switch Moo	Auto	~	

Switch Mode: Sets how the switcher plate will change between input signals.

mode.

It includes	'Auto'	mode and	'Manual'
HDMI	L	1	~
HDMI2	2	2	~
VGA ②		3	~

Sets the priority to use when the switch mode is set to priority mode. 1 is the The highest priority and 3 are the lowest.

	No Activity Timeout	8	Minutes
3			

No Activity Timeout: Sets the amount of time it will take for the unit to turn

itself off when there is no detected input signal.

	Audio Delay	0	Seconds
4			

Audio Delay: Sets how many seconds the amp's audio is delayed.

	HD	MIEDID		EDID
	EXTERNAL			C DHD
	EDID Update			
	Open BIN File	click here open file	Upgrade	18%
(5)			Save Cancel	

HDMI EDID: When set to Internal, the EDID communicated to the source is

the one stored in the device's internal memory.

EDID: The name of the current EDID.

EDID Update: Upload a bin file to change what EDID is stored in the device' s

internal memory that is used when EDID is set to internal.

SYSTEM page

	Roc	om Label	
MAIN	CONTROL	INPUT/OUTPUT	SYSTEM
IP Address	192.163.2.100	Room Label	Room Label
Subnet Mask	255.255.255.0	User Password	user
Gateway	192.168.2.1	Admin Password	admin
Hardware Vers	ion 2.10	Software Version	T:1.14 R:1.00 C:1.13
Firmware Upda	ite		
Open BIN File	click here open file	Upgrade 0%	
	Save	Cancel	
Address	192.168.2.100		
ubnet Mask	255.255.255.0		
ateway	192.168.2.1		

The network settings of the device's internal system.

	Room Label	Room Label
2		

Room Label: This is the user-assigned label that appears at the top of the web

interface.

1

	User Password	user]
0	Admin Password	admin	

The user and the admin password settings

	Hardware Versi	on 2.10	Software Version T:1.14 R:1.00 C:1.13
	Firmware Updat	:e	
	Open BIN File	click here open file	Upgrade 0%
(4)			Save Cancel

Upload new firmware versions and see the current ones install. This can update

the firmware of the control panel and the receiver box, not the two-gang

transmitter. To update the firmware of the two-gang switcher, use the USB port on the plate.

Note: The default 'Username' and 'Password' for the user are both 'user.' The user login limits the number of functions accessible.

Plea	se login to continue	
User:	admin	
Password:	•••••	
	Login	

You can click the 'Login' button to enter the Web GUI function

Page, when you set it over The page, likes below:



7. System ON/OFF Subroutine



8. Display ON/OFF Subroutine



9. System Reset



To perform a system reset, hold the source button (SOURCE button) for 20 seconds until the HDCP light flashes three times. When the system is reset, user settings will return to their default values, including passwords, room labels, switching mode, IP address, etc.

10. Application Example

