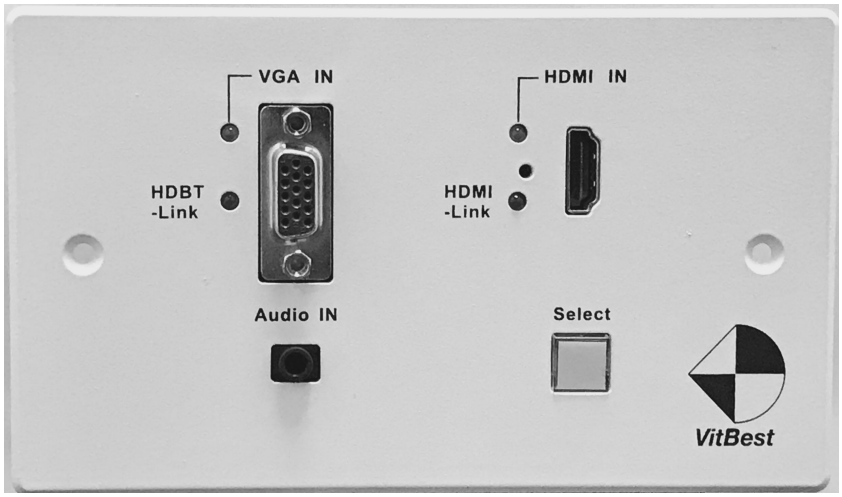
HDBaseT 2 Gang Multi-panel Wall Plate for HDMI, VGA with Audio, RS232 and POL

EAWP-VH70-T



User Manual

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Introduction

The EAWP-VH70-T is part of VitBest's expanding Multi Video HDBaseT Cat wall plate. The EAWP-VH70-T is a 2 gang multi-input Decora style wall plate with HDBaseT CAT extension. Its ability to convert VGA with audio to HDMI locally and transmit the signal up to 230ft sets this unit apart from the competition. Either VGA or HDMI with active signal is connected signal will send to HDBaseT automatically. Auto select between VGA and HDMI inputs. Also, it can be selected using front panel button. When both inputs connected with a video, HDMI input has priority over VGA after power reset. In addition, the EAWP-VH70-T could be powered by remote Matrix, receiver or local DC adapter and pass through RS232.

Package Contents

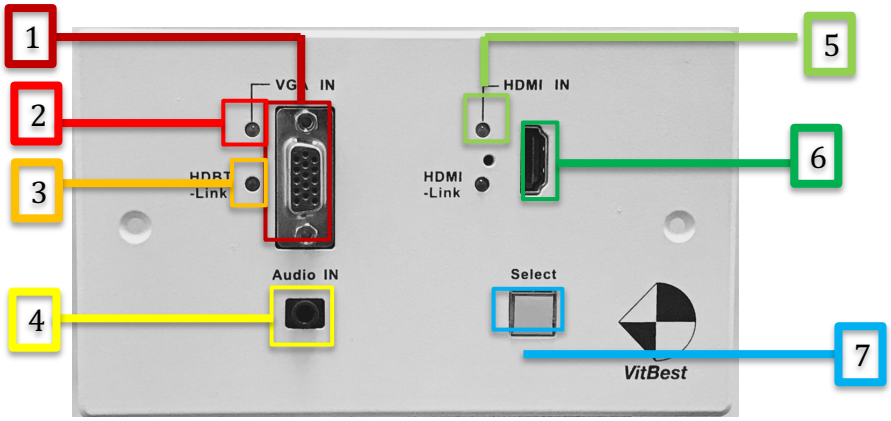
- 1xEAWP-VH70-T

Features

- Transmit VGA with Audio or HDMI up to 1080p@60Hz 36bit 230ft over one Cat 5e/6/6A cable;
- Support HDMI 4K x 2K and 3D;
- HDCP Compliant;
- EDID of VGA and HDMI are pass through;
- Auto output either VGA or HDMI input;
- Button/RS232 control for signal switching while VGA and HDMI input simultaneously, RS232 command could be sent by local RS232 port or remote HDBaseT receiver (option item: EA-70-R or EB-70-R) .
- Rs232 pass through;
- Remotely or Locally Powered;
- Status LED for all connections on front;
- US 2 GANG and European standard.

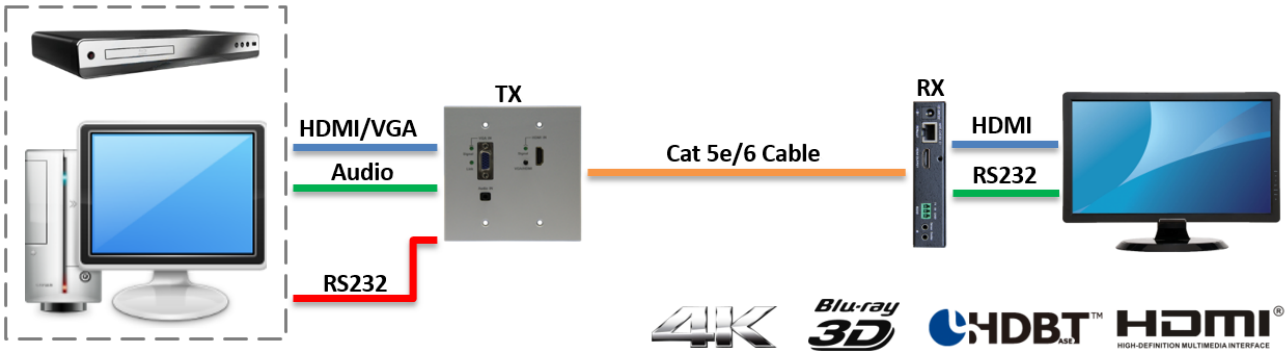
Panel Description

Front Panel



1. **VGA IN:** Connect to VGA source;
2. **LED for VGA:** LED blinking means there is VGA signal input; LED always on means current output is VGA;
3. **HDBT-Link:** LED blinking means cat cable connection available; LED always on means there is video signal input and output;
4. **Audio IN:** Connect to audio source;
5. **LED for HDMI:** LED blinking means there is HDMI signal input; LED always on means current output is HDMI;
6. **HDMI IN:** Connectk to HDMI source; **HDMI-Link**: Signal output light Receiver
7. **VGA/HDMI:** Pressing when change the input signal.

Connection and Installation



Specification

Video	
HDMI Compliance	HDMI 3D, 4K
VGA Compliance	VESA
HDCP Compliant	Yes
Distance	CAT 5e/6 cable: 70m on 1080p@60Hz 4:4:4, 35m on 4k60Hz 4:2:0) CAT 6A cable: 70m on 1080p@60Hz 4:4:4, 40m on 4k60Hz 4:2:0)
Max Resolution	4K*2K
Connectors	
Connectors	(1) HDMI,(1)VGA, (1)RJ45(HDBT),(1)Audio,
Mechanical	
Dimensions	US:2Gang & UK:146*86mm
Net Weight	0.728lbs[330g]
Package Size	240 x 180 x 70 mm(L/W/H)
Gross Weight	1.257lbs[330g]
Power	
Power Supply	24V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

RS232 Protocol

& - Command, $ - Query, ^ Response
<cr> = 0x0D Hex / 13 Decimal

Command	VitBest String	Information	Example	Example String	Example Response
Route Command	&Ra<cr>	A=V or H; V mean VGA, H mean HDMI.	Route VGA Input to HDBT Output	&RV<cr>	^RV<cr> OR No VGA Signal Input
Query Active Rourte	$R<cr>			$R<cr>	^RV<cr>
Baud Rate Setup Command	&Bab<cr>	a=baud rate=9600,19200,38400 b=bits,parity,stop=8N1,8E1,801	Set RS232 Port Baud Rate to 96008N1	&B96008N1<cr>	^B96008N1<cr>
Query Baud Rate	$B<cr>		Response shows 38400 8N1	$B<cr>	^B384008N1<cr>
Query Firmware	$FM<cr>		Query Processor firmware	$FM<cr>	^FM-1.0.0<cr>

Note: The default baud rate is 38400.

Switching Modes

The EAWP-70-T has four switching modes available to help customize a unique solution to your specific needs. The switching modes on the EAWP-70-T can be setup and changed by connecting to the RS 232 port with the correct RS 232 command string.
1. Manual Mode In this mode the EAWP-70-T will not auto switch at all. Even if the currently active input is disconnected, the EAWP-70-T will not switch. The only way to initiate a switch is by using the button on the front interface, RS232 commands, or by Contact closure button.

2. Auto Mode: (Default) In this mode the EAWP-70-T will switch automatically to any new source, So whenever a new input is connected, the EAWP-70-T will auto-switch to that input. If the active input is disconnected, the EAWP-70-T will switch to another active input. The front interface button and RS232 switching commands can also still be used in this mode for manual override.

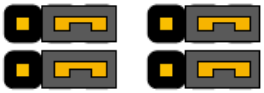
Button Functions

By press and hold the button, users can implement different functions.
1. press and hold the button for 3 seconds, will switch between Auto mode and Manual mode;
2. press and hold the button for 6 seconds, will switch the EDID between internal and external;
3. press and hold the button for 20 seconds, will make a factory reset to the product.

Powering options

The unit can be powered with POH or POC thru the HDBaseT connection, or by connecting a 24v power supply to the two position terminal block in the lower right side of the back panel. When powering the unit thru the HDBaseT RJ45 connector you will need to select weather you are sending POC, POH, or local powering method.

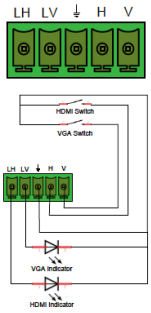
For POC – 24
All Jumpers to Right



For POH – PD
All Jumpers to Left

For Power Isolation
Remove All Jumpers

Closed Contact and Talley Terminal Block Connection Diagram.



Notes:

⏚ : Ground line

V : VGA Input LV: LED indicator for VGA

H: HDMI Input LH: LED indicator for HDMI

Safety Information

To reduce the risk of electric shock, do not expose this product to rain or moisture

Do not modify the wall plug. Doing so will void the warranty and safety features

If the wall plug does not fit into your local power socket, hire and electrician to replace your obsolete socket.

This equipment should be install near the socket outlet and the device should be easily accessible in the case it requires disconnection

Warranty

Warranty time is one year and from the date of original shipment.
This warranty shall be void if a serial number has been removed from the product.

Upon determination of a legitimate defect covered by this warranty and at VitBest's sole discretion, users should bear the transportation Charge.