DIGITALINX
VALUE-ENGINEERED DIGITAL SOLUTIONS

DL-2H1V1U-WP-W Quick Install Guide

This guide is for quick installation only.
For complete owners manual go to www.libav.com or use a QR reader to access the manual via QR code below.

Scan QR Code with your Smart-phone or Tablet

LIBERTY
AV SOLUTIONS
A SUBSIDIARY OF WESCO DISTRIBUTION, INC.

Rev 191028

11675 Ridgeline Drive
Colorado Springs, CO
80921

Phone: 719-260-0061
Toll-Free: 800-530-8998
Fax: 719-260-0075

Product Overview

The DigitaLinx DL-2H1V1U-WP-W is a 3x1 auto switching HDBaseT 2.0 transmitter that supports the long distance transport of HDMI, VGA and High Speed USB 2.0 signals up to 100 meters / 330' using category cabling. The DL-2H1V1U-WP-W is 4K compatible with a max resolution of 4K@60Hz / 4:2:0 8bit deep color. An additional analog audio pass through input is located on the wall plate that allows for audio distribution to the HDBaseT receiver side. With 48V integrated PoH, the DL-2H1V1U-WP-W can be powered via HDBaseT receiver with a PSE module or the wall plate can be powered by a local power supply.

The DL-2H1V1U-WP-W gives you the ability to automate the display power ON by using pre-loaded RS232 commands whenever a video signal is introduced to the system using either HDMI input. It will also turn the display power OFF after a specified amount of time has passed when no video signal is present. The DL-2H1V1U-WP-W also gives you the ability to turn the display ON or OFF as well and switch from one input to another manually using the control buttons on the transmitter face plate. For a complete list of programming commands to automate display power status, please see the complete owners manual online at www.libav.com or by using the QR code on the print page of this guide.
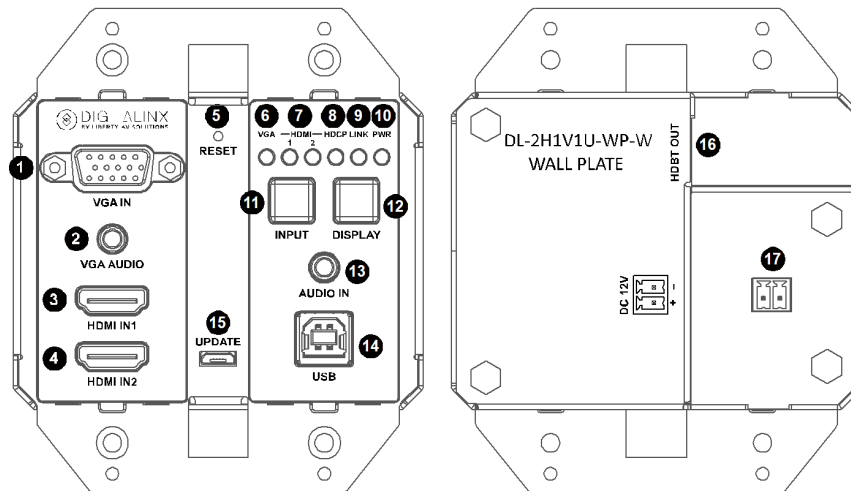
The DL-2H1V1U-WP-W is ideal for situations where USB must be extended alongside HDMI for display interactivity for items such as interactive whiteboards or projectors.

NOTE: The DL-2H1V1U-WP-W HDBaseT transmitter must be used with the DL-HD2-RX or the DL-HD2A-RX HDBaseT 2.0 receiver (sold separately) to complete the extension circuit.
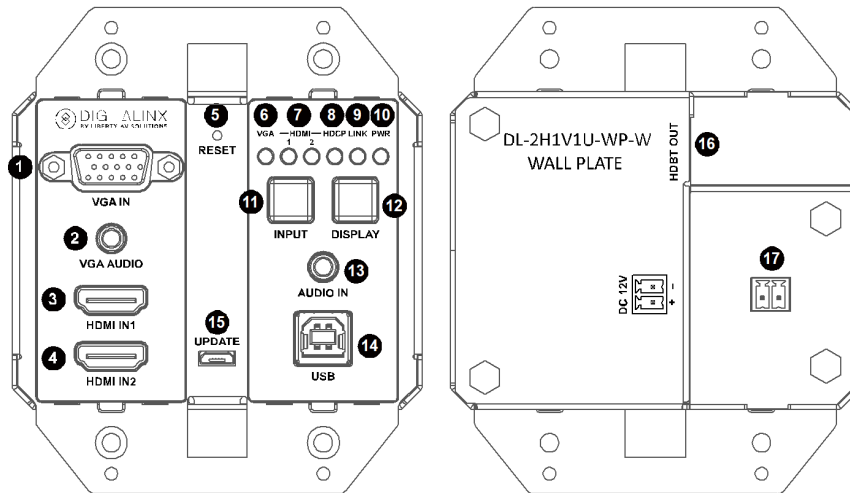
Package Contents

- DL-2H1V1U-WP-W HDBaseT Wall Plate Transmitter
- (1) Quick Install Guide
- (1) 2 pin Phoenix Male Connector
- (1) 2 gang Decorator style wall plate cover with screws
- (1) 2m / 6' USB A to B Cable

Front Panel View

1. VGA IN- VGA Input

2. VGA Audio- VGA Audio Input

3. HDMI IN1 - HDMI inputs 1

4. HDMI IN2 - HDMI inputs 2

5. RESET- Factory default reset button

6. VGA LED

    • When ON; Corresponding VGA input signal is being transmitted

    • When OFF; No VGA signal is being transmitted or signal is unstable

7. HDMI LEDs

    • When ON; Corresponding HDMI input signal is being transmitted

    • When OFF; No HDMI signal is being transmitted or signal is unstable

8. HDCP LED

    • When ON; HDCP video is being transmitted

    • When BLINKING; Non-HDCP video is being transmitted

    • When OFF; No video is being transmitted

9. LINK LED

    • When ON; HDBaseT Link is normal

    • When OFF / BLINKING; No HDBaseT link or link error

10. POWER LED

    • When ON; The transmitter is powered on

    • When OFF; The transmitter is powered off

11. INPUT- Input Selection Button

12. DISPLAY- Display On/Off Button

13. AUDIO IN- Pass-through Audio Input

14. USB- USB B Input

15. UPDATE- Micro USB Service Port for Firmware Update

16. HDBT OUT- RJ45 / HDBaseT Output

17. DC12V- DC12V Power Supply Input

Connectivity Instructions

1. Verify all components included with the extender set are present before installation.

2. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.

3. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter (DL-2H1V1U-WP-W) and the receiver (DL-HD2-RX or DL-HD2A-RX, sold separately) HDBaseT ports .TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.

4. Connect an HDMI cable between the AV source and the transmitter (DL-2H1V1U-WP-W).

5. Connect a USB A TO B cable (provided) between a USB host peripheral and the transmitter (DL-2H1V1U-WP-W).

6. Connect the power supply adapter to the receiver (DL-HD2-RX/DL-HD2A-RX, sold separately) to power the DL-2H1V1U-WP-W using HDBaseT or connect a 12V power supply to the 2 port phoenix power input of the DL-2H1V1U-WP-W to power locally.

7. Power on attached audio/video and USB devices.

Cabling Wiring Requirements

HDBaseT Cabling

To ensure proper performance of the DL-2H1V1U-WP-W, it is recommended that you use solid core, shielded Category 6 F/UTP cabling at a minimum. Category 5e F/UTP may perform well but may not support power over HDBaseT reliably over longer distances.

When using shielded category cabling *ALWAYS*...

....use shielded connectors
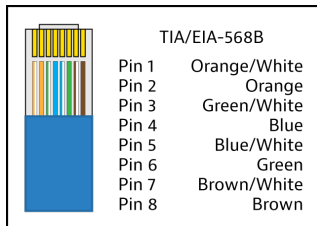....properly ground the category cable

For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

Category 6 plenum; **24-4P-P-L6SH**
Category 6A plenum; **24-4P-P-L6ASH**

Category 6 NON-plenum; **24-4P-L6SH**
Category 6A NON-plenum; **24-4P-L6ASH**

TIA/EIA-568B

Pin 1	Orange/White
Pin 2	Orange
Pin 3	Green/White
Pin 4	Blue
Pin 5	Blue/White
Pin 6	Green
Pin 7	Brown/White
Pin 8	Brown

Twisted Pair Wiring
Use TIA/EIA-568B wiring for Category 6 connection between send and receive units.

Technical Specifications

Video	
Video Inputs	(1) VGA, (2) HDMI
Video Input Connector	(1) DB-15, (2) HDMI type A
Input Video Signal	HDMI, VGA
Output Video Signal	HDBaseT 2.0
Input Resolutions Supported	**HDMI**: 4096 x 2160@24/30/60 (YUV4:2:0); 3840 x 2160@24/30/60 (YUV4:2:0); 2560 x 1600@60; 2560 x 1440@60; 1920 x 1200@60; 1920 x 1080@60; 1680 x 1050@60; 1600 x 1200@60; 1600 x 900@60; 1440 x 990@60; 1366 x 768@60; 1360 x 768; 1280 x 1024@60; 1280 x 960@60; 1280 x 800@60; 1280 x 768@60; 1280 x 720@60; 1024 x 768@60; 800 x 600@60 **VGA**: 1920x1080@60; 1920 x 1200@60; 1680 x 1050@60; 1600 x 1200@60; 1600 x 900@60; 1440 x 900@60; 1360 x 768@60; 1280 x 1024@60; 1280 x 960@60; 1280 x 800@60; 1280 x 720@60; 1024 x 768@60; 800 x 600@60
Standards	Compliant with HDMI 2.0 & HDCP 2.2
USB	
Supported USB Standard	Up to USB 2.0 High Speed up to 190Mbps
USB Port Type	USB B
Audio	
Supported input formats	**HDMI:** PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio **Unbalanced 3.5.mm:** Stereo
Audio Input	(1) Unbalanced stereo 3.5mm (VGA) (1) Unbalanced stereo 3.5mm (pass through)
General	
System Bandwidth	10.2Gbps
Transmission Distance	1080P @ 100m or less when using Cat6A F/UTP, 4K @ 70m or less when using Cat6 F/UTP
Operating Temperature	0 ~ +45 C (32 F to +113 F)
Storage Temperature	-20- +70 C (-4- +158 F)
Humidity	10% ~ 90%
Power Supply	DC12V / PoH
Power Consumption	7 watts (maximum)
Dimension (W*H*D)	106mm*91mm*36mm / 4.1"*3.6"*1.4"
Weight	0.18kg, .4 lbs
Warranty	5 years
Certification	CE, FCC, RoHS

DIGITALINX
VALUE-ENGINEERED DIGITAL SOLUTIONS

Thank you for your purchase.

For Technical Support please call our toll free number at
800-530-8998 or email us at supportlibav@libav.com

www.libav.com