



DIGITALINX  
VALUE-ENGINEERED DIGITAL SOLUTIONS

# DL-1H1V1U-WP-W Quick Install Guide



This guide is for quick installation only.

For complete owners manual go to [www.libav.com](http://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

## Important notice:

- Do not attempt to disassemble or alter the housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.
- To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation.
- Do not connect the device to a telecommunication outlet wired to unrelated equipment. Doing so may damage the unit or any connected equipment. Ensure all connected twisted pair cabling is straight-through (point-to-point).
- Allow proper ventilation to reduce the risk of thermal failure.

# Product Overview

The DigiLinX DL-1H1V1U-WP-W is a 2x1 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-1H1V1U-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-1H1V1U-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-1H1V1U-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 the HDMI or VGA input. It will also turn the display power OFF after a specified amount of time has passed when no video signal is present. It also gives you the ability to turn the display ON or OFF as well and switch from one input to another manually from the transmitter face plate.

The DL-1H1V1U-WP-W is ideal for situations where USB must be extended alongside HDMI or VGA for display interactivity for items such as interactive whiteboards or projectors.

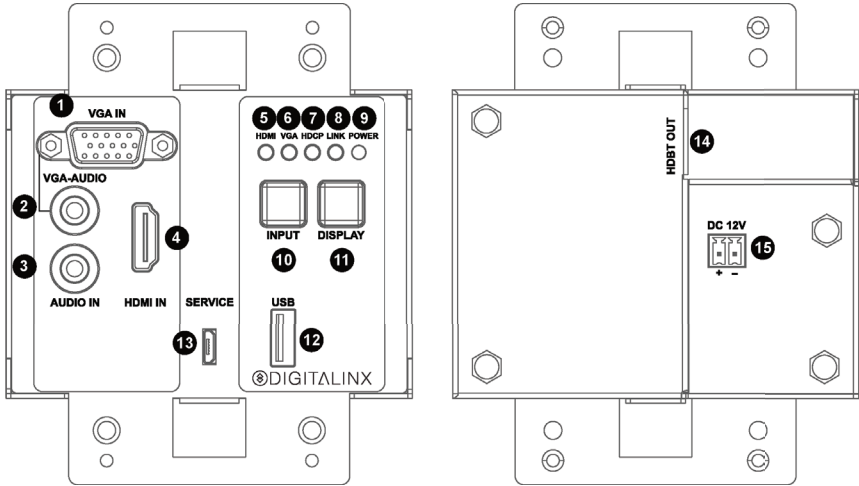
For a complete list of programming commands to automate display power status, please see the complete owners manual online at [www.libav.com](http://www.libav.com) or by using the QR code on the print page of this guide.

**NOTE:** The DL-1H1V1U-WP-W HDBaseT transmitter must be used with the DL-HD2-RX HDBaseT 2.0 receiver (sold separately) to complete the circuit.

## Package Contents

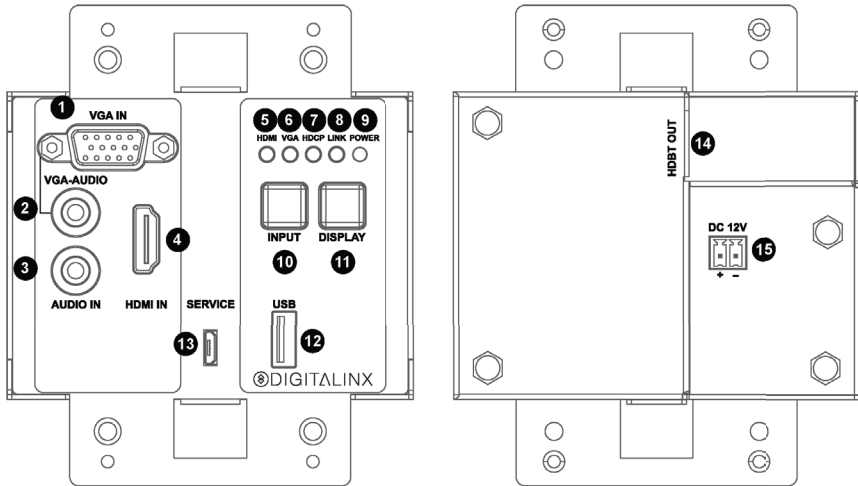
- DL-1H1V1U-WP-W HDBaseT Wall Plate Transmitter
- (1) Quick Install Guide
- (1) 2 pin Phoenix Male Connector
- (1) 2 gang Decora wall plate cover
- (1) 2m / 6' USB A to A Cable

# Transmitter View



1. VGA Input
2. VGA Audio Input
3. Pass-through Audio Input
4. HDMI Input
5. HDMI LED
  - When ON; HDMI signal is being transmitted
  - When OFF; No HDMI signal is being transmitted or signal is unstable
6. VGA LED
  - When ON; VGA signal is being transmitted
  - When OFF; No VGA signal is being transmitted or signal is unstable
7. HDCP LED
  - When ON; HDCP video is being transmitted
  - When BLINKING; Non-HDCP video is being transmitted
  - WHEN OFF; No video is being transmitted
8. LINK LED
  - When ON; HDBaseT Link is normal
  - When OFF / BLINKING; No HDBaseT link or link error
9. POWER LED
  - When ON; The transmitter is powered on
  - When OFF; The transmitter is powered off

## Transmitter View (continued)



10. Input Selection Button
11. Display On/Off Button
  - Display ON; Short press to power on display immediately
  - Display OFF; Press and hold for 3 seconds to power display off
12. USB A Input
13. Service Port for Firmware Update
14. HDBaseT Output
15. 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-1H1V1U-WP-W) and the receiver (DL-HD2-RX, sold separately) HDBaseT ports .TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.
4. Connect an HDMI or VGA cable between the AV source and the transmitter (DL-1H1V1U-WP-W).
5. Connect a USB A TO A cable (provided) between a USB host peripheral and the transmitter (DL-1H1V1U-WP-W).
6. Connect the power supply adapter to the receiver (DL-HD2-RX, sold separately) to power the DL-1H1V1U-WP-W using HDBaseT or connect a 12V power supply to the 2 port phoenix power input of the DL-1H1V1U-WP-W to power locally.
7. Power on attached audio/video and USB devices.

# Cabling Requirements

## *HDBaseT Cabling*

To ensure proper performance of the DL-1H1V1U-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.



When using shielded category cabling **ALWAYS...**

....use shielded connectors

....properly ground the category cable

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

**UHD @ 70m / 230'**

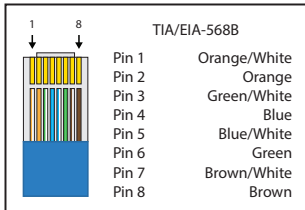
Category 6 plenum; 24-4P-P-L6SH

Category 6 NON-plenum; 24-4P-L6SH

**UHD @ 100m / 300'**

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

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



## *Twisted Pair Wiring*

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

# Technical Specifications

<b>Video</b>	
Video Inputs	(1) HDMI; (1) VGA
Video Input Connector	(1) HDMI type A; (1) VGA female 15 pin
Input Video Signal	HDMI, VGA
Output Video Signal	HDBaseT 2.0
Input Resolutions Supported	<p><b>HDMI:</b> 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</p> <p><b>VGA:</b> 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</p>
Standards	Compliant with HDMI 2.0 & HDCP 2.2
<b>USB</b>	
Supported USB Standard	Up to USB 2.0 High Speed up to 190Mbps
USB Port Type	USB A
<b>Audio</b>	
Supported input formats	<p><b>HDMI:</b> PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio</p> <p><b>Unbalanced 3.5.mm:</b> Stereo</p>
Audio Input	<p>(1) Unbalanced stereo 3.5mm (VGA)</p> <p>(1) Unbalanced stereo 3.5mm (pass through)</p>
<b>General</b>	
System Bandwidth	10.2Gbps
Transmission Distance	100m or less when using Cat6A F/UTP, 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

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 Colorado Springs, CO 80921  
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 supportlibav@libav.com

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