# DIGITALINX
## VALUE-ENGINEERED DIGITAL SOLUTIONS

# DL-HD2-RX 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

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**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 DigitaLinx DL-HD2-RX is an HDBaseT 2.0 receiver designed to work with the DL-1H1V1U-WP-W wall plater transmitter (sold separately). The DL-HD2-RX will reliably extend HDMI or VGA video, multichannel audio, USB 2.0 High Speed and RS232 up to 100m / 330'. The receiver is also 4K compatible with a max resolution of 4K@60Hz / 4:2:0 8bit deep color. With an integrated PSE module built in, the DL-HD2-RX can power the DL-1H1V1U-WP-W via HDBaseT transmission.
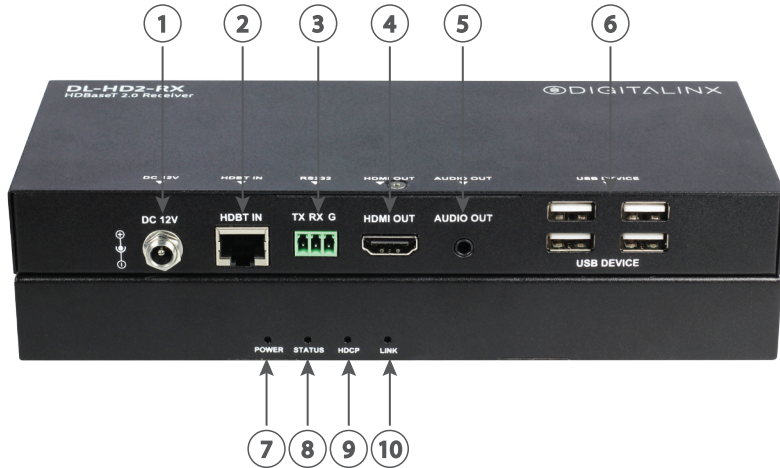
The DL-HD2-RX is ideal for situations where USB must be extended alongside HDMI or VGA for display interactivity for items such as interactive whiteboards or projectors.

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

# Package Contents

- DL-HD2-RX HDBaseT Receiver
- (1) Quick Install Guide
- (1) 3 pin Phoenix Male Connector
- (1) DC12V Power Supply with US, UK, EU and AU adapter plugs
- (2) Mounting Brackets

# Receiver View



1. DC12V Power Input
2. HDBaseT Input
3. RS232 Pass Through
4. HDMI Output
5. 3.5mm Analog Audio Output
   • Only passes audio from the DL-1H1V1U-WP-W pass through audio input port
6. USB Device Hub
7. Power LED
   • When ON; The receiver is powered on
   • When OFF; The receiver is powered off
8. Status LED
   • When BLINKING SLOWLY; The receiver is working properly
   • When OFF; The receiver is not working properly
9. HDCP LED
   • When ON; HDCP protected content is being transmitted
   • When BLINKING; Non-HDCP protected content is being transmitted
   • When OFF; No content is being transmitted
10. Link LED
    • When ON; HDBaseT link is working properly
    • When BLINKING or OFF; HDBaseT transmission is abnormal or no link

# 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, sold separately) and the DL-HD2-RX receivers HDBaseT ports. TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.

4.   Connect an HDMI cable between the display device and the DL-HD2-RX receiver.

5.   Connect USB cables between the USB hub to USB devices (optional).

6.   Connect an RS232 cable between the DL-HD2-RX and the RS232 port of a display device (optional).

7.   Connect the power supply adapter to the DL-HD2-RX receiver locking input port and plug into an AC outlet.

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

# Cabling Requirements

*HDBaseT Cabling*

To ensure proper performance of the DL-HD2-RX, 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;
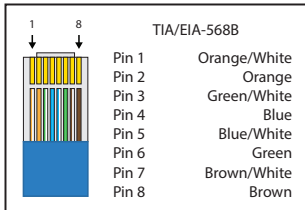
**UHD @ 70m / 230'**
Category 6 plenum; 24-4P-P-L6SH
Category 6 NON-plenum; 24-4P-L6SH

**UHD @ 100m / 300'**
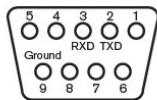Category 6A plenum; 24-4P-P-L6ASH
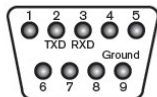Category 6A NON-plenum; 24-4P-L6ASH

| 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.

*RS232 Wiring*
Connect the display device RX signal to TX on the DL-HD2-RX extender. Connect the display device TX signal to RX on the DL-HD2-RX extender.

Female connector - 9 holes

Male connector - 9 holes

Tx Rx

# Technical Specifications

| Video | |
|---|---|
| Video Inputs | (1) HDBaseT |
| Video Input Connector | (1) RJ45 |
| Output Video Signal | HDMI |
| Input / Output  Resolutions Supported | **VESA**: 1920 x 1200@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; 1024 x 768@60; 800 x 600@60<br><br>**SMPTE**: 4096 x 2160@24/25/30/50/60; 3840 x 2160@ 24/25/30/50/60; 1920x1080@30/60; 1280 x720@50/60; 720 x 576@50; 720 x 480@60 |
| Standards | Compliant with HDMI 2.0 & HDCP2.2 |
| **USB** | |
| Supported USB Standard | Up to USB 2.0 High Speed up to 190Mbps |
| USB Port Type | (4) USB A |
| **Audio** | |
| Supported input formats | **HDMI:** PCM 2.0, LPCM 5.1, LPCM 7.1, Dolby TrueHD, DTS-HD Master Audio<br>**Unbalanced 3.5.mm:** Stereo |
| Audio Input | Unbalanced stereo 3.5mm |
| **Control** | |
| RS232 | Up to 115200 baud rate |
| RS232 Port Type | (3 pin phoenix |
| **General** | |
| 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 |
| Power Consumption | 8 watts (maximum) |
| Dimension (W*H*D) | 210mm*25mm*90mm / 8.2"*1"*3.5" |
| Weight | 0.46kg, 1lbs |
| Warranty | 2 years |
| Certification | CE, FCC, RoHS |

Thank you for your purchase.


For Technical Support please call our toll free number at
800-530-8898 or email us at supportlibav@libav.com


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