DL-1H1A1UB-H3 Owners Manual

Digitalinx Series 4K HDMI & USB HDBaseT 3.0 Extension Set.

18G uncompressed HDMI 2.0 4K60 and USB 2.0 High speed extender set with client hub on both ends

Liberty

www.libav.com   800.530.8998

PRODUCT OVERVIEW

The Digitalinx DL-1H1A1UB-H3 HDBaseT 3.0 extender set transmits video, audio, USB High Speed and RS232 over single category 6a F/UTP or better twisted pair cable.The DL-1H1A1UB-H3 can transmit 4K resolutions up to 4K@60Hz, 4:4:4 up to 40m / 131' and 1080P up to 70m / 230'. The transmitter and receiver each include a 2 port USB-A hub allowing for easy USB expansion and connection of other peripherals such as a camera, touch screen, microphone, or others to the connected source / host device. The Digitalinx DL-1H1A1UB-H3 is HDMI 2.0 and HDCP 2.2 compliant and supports CEC pass through.The Digitalinx DL-1H1A1UB-H3 supports multiple audio formats including LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio.
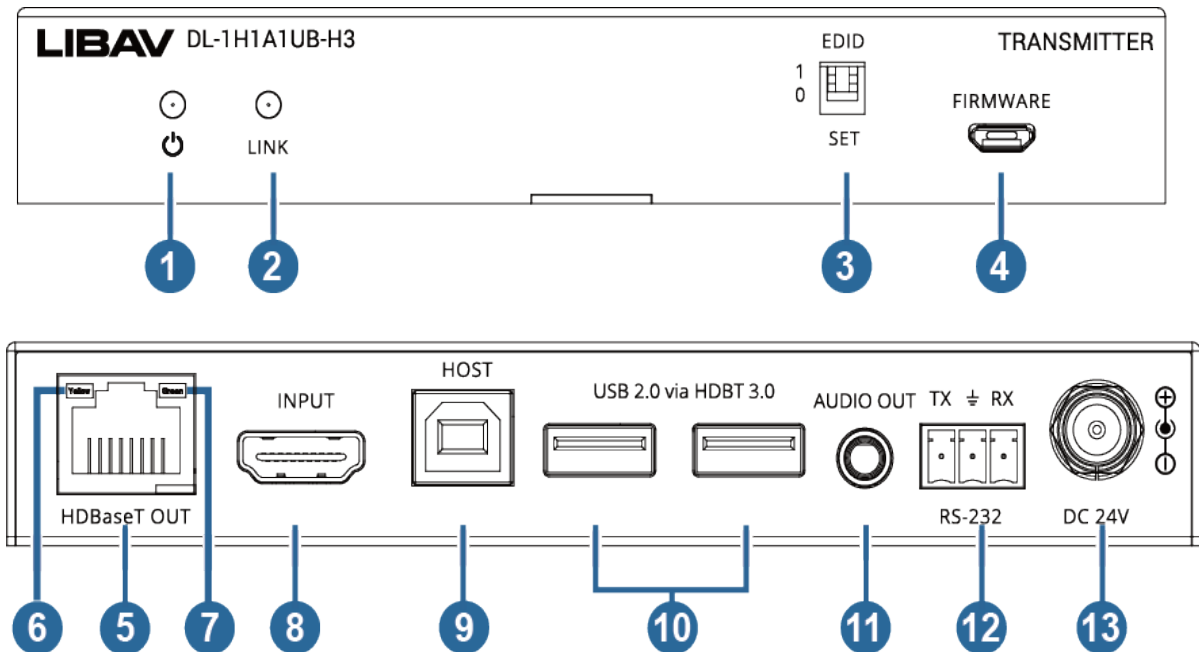
The DL-1H1A1UB-H3 has an EDID Dipswitch to allow EDID selection.

The DL-1H1A1UB-H3 is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.
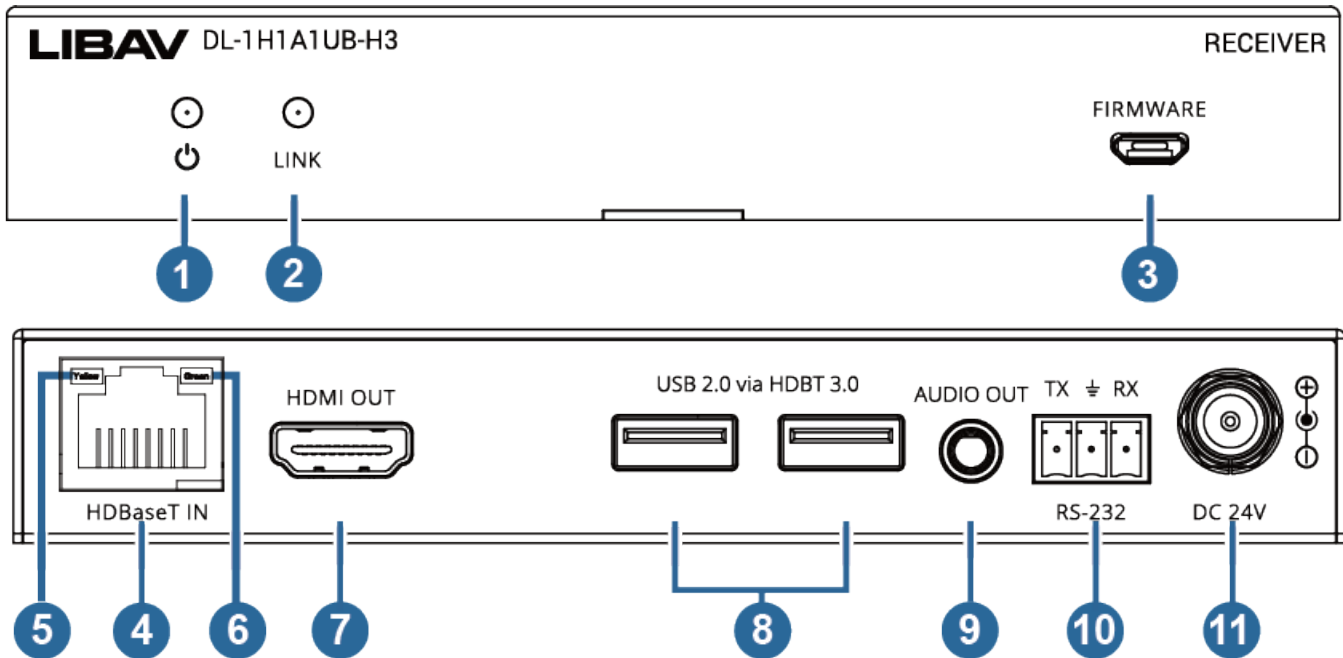
PACKAGE CONTENTS

- DL-1H1A1UB-H3 extender set
- (2) 3pin-3.81mm Phoenix Connectors (Male)
- (4) Mounting Ears with Mounting Screws
- 24V 1A Power Adapter with US, UK, AU AND EU Power Adapters

TRANSMITTER PRODUCT BREAKDOWN

1. Power LED (Red) : The red power LED is on the transmitter has power.

2. Link LED (Green) : Link LED is on, the transmitter and receiver have a good connection. When it's off the units are not connected.

3. EDID DIP switch : See EDID section for settings.

4. Micro USB : Firmware port

5. HDBaseT out : HDBT signal output port.

6. Data Signal LED (Yellow) : Solid -HDMI signal with HDCP. Flashing-HDMI signal without HDCP. OFF - No HDMI signal

7. Link LED (Green) : Link LED is on, the transmitter and receiver have a good connection. When it's off the units are not connected.

8. HDMI INPUT : For connecting Source

9. USB Host : For connecting PC USB

10. USB HUB : USB A Female ports for client / remote devices.

11. Audio out : 3.5mm Analog audio jack, De-embedding HDMI audioDL-1

12. RS232 : Phoenix connector, pass through to Rx RS232.

13. Power Port : DC 24v, only one side needs power.
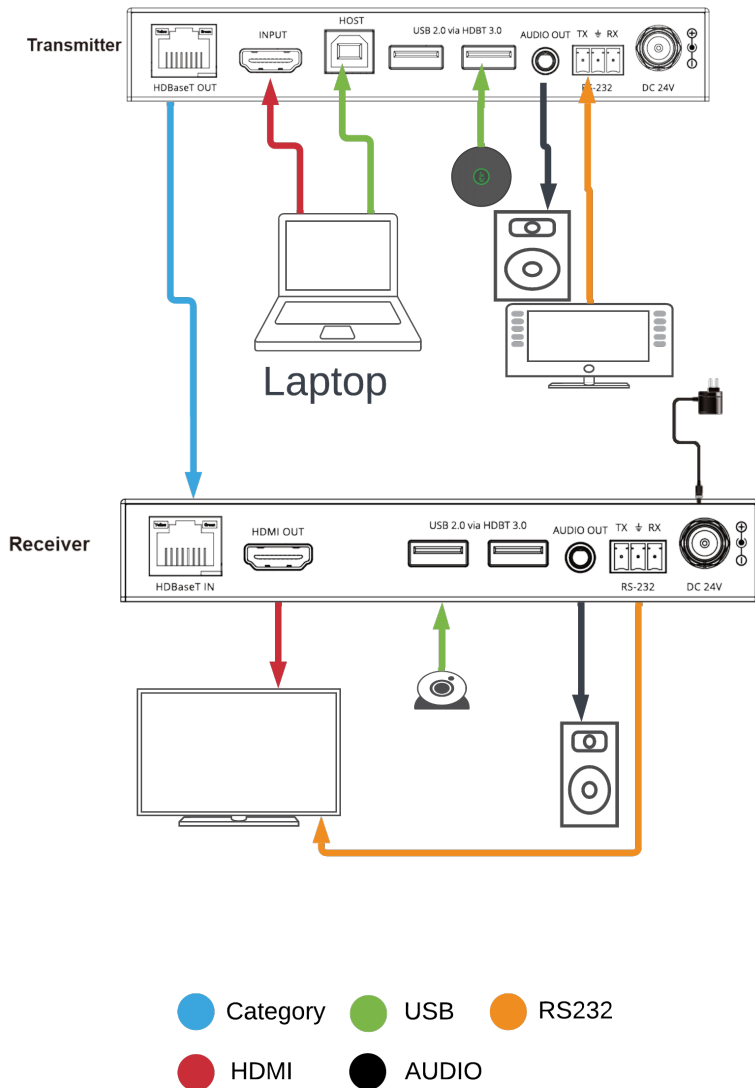
RECEIVER PRODUCT BREAKDOWN

1. Power LED (Red) :The red power LED is on the transmitter has power.

2. Link LED (Green) : Link LED is on, the transmitter and receiver have a good connection. When it's off the units are not connected.

3. Micro USB : Firmware port

4. HDBaseT in : HDBT signal output port.

5. Data Signal LED (Yellow) : Solid -HDMI signal with HDCP. Flashing-HDMI signal without HDCP. OFF - No HDMI signal

6. Link LED (Green) : Link LED is on, the transmitter and receiver have a good connection. When it's off the units are not connected.

7. HDMI OUT : For connecting Display / Projector.

8. USB HUB : USB A Female ports. Each Port will provide 5V 500mA for USB devices. USB bandwidth is limited to 480mbs

9. Audio out : 3.5mm Analog audio jack,De-embedding HDMI audio

10. RS232 : Phoenix connector, pass through from wall plate

11. Power Port : DC 24v, only one side needs power.

CONFIGURATION SETTINGS

DIP SWITCH	EDID MODE
1 is down and 2 is down	Copy display's EDID (factory default)
1 is down and 2 is up	4K 30 4:4:4
1 is up and 2 is down	1080p60 4:4:4
1 is up and 2 is up	1200p60 4:4:4

APPLICATION DIAGRAM

Below is an example of an extender set in a typical application.

TECHNICAL SPECIFICATIONS

Model	DL-1H1A1U-B-H3		
Physical Parameter			
Case Material	Receiver: Industrial-grade metal chassis with metal brackets Transmitter: Industrial-grade metal chassis with metal brackets		
Dimensions	Transmitter: 144mm [W] x 78mm [D] x 23mm [H] Receiver: 144mm [W] x 78mm [D] x 23mm [H]		
Weight	Transmitter: 323g Receiver: 319g		
Power Protection	ESD protection with human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		
Power Output	DC 24V 1A		
Power Input	AC 100-240V 50/69Hz		
Power Consumption	14.28W (Max)		
Operating Temperature	32- 104°F / 0- 40°C		
HDMI Specifications			
HDMI	2.0b		
HDCP	2.2/1.4		
Video Bandwidth	18 Gbps		
Video Resolutions	4096×2160@24/25/30/50/60Hz,3840×2160@24/25/30/50/60Hz, 2048x1080p,1080p@23.98/24/25/29.97/30/50/59.94/60Hz,1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i		
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0		
Color Depth	8/10/12-bit		
Analog Audio Format	LPCM 2.0		
HDMI & USB-C Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD		
Connectivity			
Inputs	Inputs: 2x USB HUB [Type A, 4-pin female] 1x HDMI 1x USB Host Rx : 1xHDBT IN [RJ45, Female]		

Outputs	Outputs: 1x HDBT OUT [RJ45, 8-pin female]
	      1x RS-232 Phoenix jack 3 pin (3.81mm)
	      1x Analog Audio [3.5mm audio jack]
	Rx: 1xHDMI Type A-Female
	    1x Analog Audio [3.5mm]
	    2x USB A
	    1x RS-232 Phoenix jack 3 pin (3.81mm)
	    1x Micro USB (Firmware)		

Transmission			
Max Distance (1080P)	230ft / 70m over CAT6/6a/7		
Max Distance (UHD/4K)	131ft / 40m over CAT6a/7		

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

Liberty

www.libav.com   800-530-8998