

# **DL-UHDRC70** Quick Install Guide



This guide is for quick installation only.

For complete owners manual go to www.libav.com or use a QR code 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.



**DL-UHDRC70** Quick Guide

The DigitaLinx DL-UHDRC70 is an HDBaseT extender that can extend uncompressed 4K video at a maximum of 3840x2160@60Hz/4:2:0, multichannel audio, bidirectional POC power, RS232 and bi-directional IR up to 40 meters (~130') using a single Category 6 twisted pair cable. At 1080p@60Hz/4:4:4 the unit can extend up to 70 meters (~230').

Some select standard cable boxes that have sub versions of HDMI 1.2/1.3 chipsets that do not support clock stretching which is an integral part of the HDCP handshake. This can cause transmission issues when using traditional HDBaseT extenders. The DL-UHDRC70 features an embedded circuit that addresses and solves HDMI clock stretching issues that are common in older cable set top boxes with older HDMI chipsets.

The DL-UHDRC70 is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.



#### Front / Rear Panel

- 1. DC18V Locking DC 18V power connector
- 2. HDBaseT In/Out Connects transmitter and receiver together; supports PoC / bi-directional power
- 3. IR IN/OUT (TRANSMITTER) Connects IR receiver / emitter to control devices via IR
- 4. IR IN/OUT (RECEIVER) Connects IR receiver / emitter to control devices via IR
- 5. RS232 Serial control pass through port; passes RS232 commands from TX to RX
- 6. HDMI IN Video input; connects to output of video source devices
- 7. HDMI OUT- Video output; connects to input of display peripheral



### Package Contents

- (1) DL-UHDRC70 HDBaseT TRANSMITTER
- (1) DL-UHDRC70 HDBaseT RECEIVER
- (1) DC18V 1A Power Adapter
- (2) Phoenix 3.5mm 3 pin Male Connectors
- (1) IR emitter
- (1) IR eye
- (4) mounting brackets

## **Connectivity Instructions**

- 1. Verify all components included are present before installation.
- 2. Connect an HDMI source device to the HDMI IN port on the transmitter using an HDMI cable
- 3. Connect a display device to the HDMI OUT port on the receiver using an HDMI cable
- 4. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter and the receiver. TIA/EIA-568B straight-through wiring connections must be used with the DL-UHDRC70
- 5. Connect control system / devices to the RS232 port on the transmitter and receiver for serial pass through.

DL-UHDRC70 TX or DL-UHDRC70-RX	
Тх ———	RXD
Rx	TXD
÷	GND

- 6. Both the transmitter and receiver has an IR IN and an IR OUT for bi-directional IR control. Connect one device with an IR emitter to the IR OUT then the other device should be connected with an IR eye into IR IN to pass IR control
- 7. Apply power to DL-UHDRC70 by connecting the 18V power supply to either the transmitter or receiver. Powering one unit will power the other via PoC

**Note**: On the front panel of the TX/RX check to make sure the *Power, Status, HDCP* & *Link* lights are all illuminated on both units. This will indicate a successful connection with a lit *HDCP* light illustrating the presence of encryption within the signal. *Power* and *Link* are static lights and *Status* should be blinking.



#### **Technical Specifications**

VIDEO	
Video Input (Transmitter)	(1) HDMI
Video Output (Receiver)	(1) HDMI
Video I/O Connector (Transmitter / Receiver)	(1) HDMI type A
HDBaseT Connector (Transmitter / Receiver)	(1) RJ45
HDBaseT Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Maximum Transmission Distance	Transmits 1080P signal up to 60m via Cat5e/6 cable, 70m via Cat6a/7 cable. Transmits 4K@60 4:2:0 8 bit signal up to 35m via Cat5e/6 cable, 40m via Cat6a/7 cable.
Maximum Pixel Clock	297Mhz
Input Video Level	0.5-1.2 V p-p
Input DDC Signal	5V p-p
Input / Output Resolution Support	4096x2160@24/25/30/60Hz; 3840x2160@24/25/30/60Hz; 1920x1200@60Hz; 1080p@50/60Hz; 720p50/60; 576p@30Hz; 480p@60Hz; 1680x1050@60Hz; 1600x1200@60Hz; 1600x900@60Hz; 1440x900@60Hz; 1366x768@60Hz; 1360x768@60Hz; 1280x1024@60Hz; 1280x960@; 1280x800@60Hz; 1280x768@60Hz; 1024x768@60Hz; 800x600@60Hz
Maximum Data Rate	10.2 Gbps
Standards	Compliant with HDMI 2.0 & HDCP 2.2
Audio	
Embedded Audio	Multichannel audio support up to PCM 8 channel, supports 7.1 DTS Master HD and Dolby True HD
Frequency Response	20Hz~20K Hz
CONTROL	
Control Port (Transmitter / Receiver)	(2) IR IN/OUT (1) RS232
Control Connector (Transmitter / Receiver)	(2) 3.5mm (IR IN/OUT) (1) 3 pin phoenix connector (RS232)
IR Carrier Frequency Range	33-55kHz at 5 volts
RS232 Baud Rate	Up to 115200 baud
General	
Temperature	0 ~ +45 C (32 F - 113 F)
Humidity	10% ~ 90%
Power Supply	Input Voltage: 100-240V 50/60Hz Output Voltage: DC18V 1A
Power Consumption	<10W
Dimension (W*H*D)	140mm x 17mm x 90.2mm 5.5" x .67" x 3.6" each for Transmitter / Receiver
Weight	0.36kg / .75lbs each for Transmitter / Receiver
Certification	CE, FCC, RoHS
Warranty	2 years
Included Accessories	(1) Power adapter (18VDC, 1A); (2) 3 pin phoenix male connectors; (1) IR emitter; (1) IR eye; (4) mounting brackets; (1) Quick Install Guide

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Thank you for your purchase.

If you have any product issues please contact technical support by phone at 800-530-8998 or by email at supportlibav@libav.com.

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