



DIGITALINX
VALUE-ENGINEERED DIGITAL SOLUTIONS

DL-HD70LS 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

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-HD70LS extender set transmits HDMI (1080p, 4Kx2K (UHD/HDR) & 3D), including HDCP 2.2, and bidirectional IR up to 70 meters away using a single solid core, shielded Category 6 twisted pair cable.

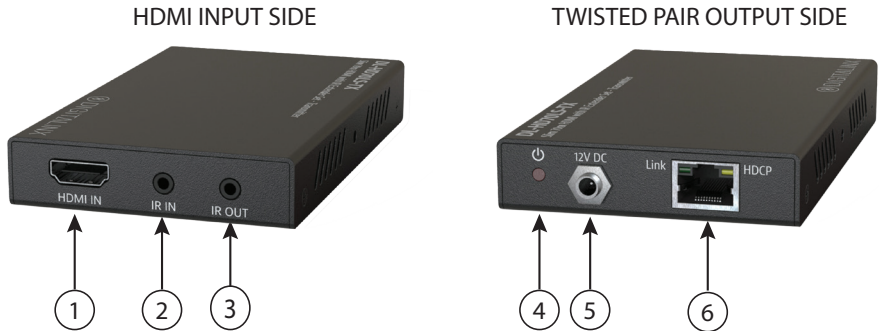
Built-in surge protection helps ensure hassle-free and robust installations. The 12 volt power supply is secured with a screw-on connector to prevent the power from being accidentally disconnected.

The DL-HD70LS 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-HD70LS Transmitter and Receiver Set
- (1) Quick Install Guide
- (1) IR Receiver (Eye)
- (1) IR Transmitter (Emitter)
- (1) DC12v US Power Supply with four adapter plugs (US, EU, AU, UK)
- (4) Mounting Brackets with screws
- (8) Rubber feet

Transmitter View



1. HDMI IN
 - HDMI input port for connections to video sources
2. IR IN
 - 3.5mm IR input port for connection to IR receiver or IR system
3. IR OUT
 - 3.5mm IR input port for connection to IR receiver or IR system
4. Power Indicator
 - Indicates power for transmitter
5. 12V DC
 - Locking power port, connect DC12V power adapter (either power port can power entire set)
6. Twisted Pair Output with Link and HDCP Status Indicators
 - RJ45 HDBaseT connection. Connect Cat6 cable to receiver

LED States

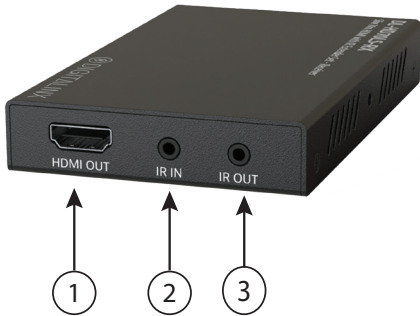
Solid Link - Link established between transmitter and receiver

Flashing HDCP- HDMI signal is not encrypted

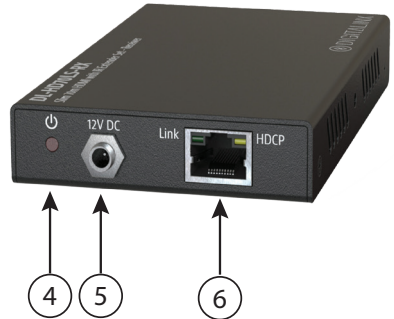
Solid HDCP- HDMI signal is encrypted

Receiver View

HDMI OUTPUT SIDE



TWISTED PAIR INPUT SIDE



1. HDMI OUT
 - HDMI output port for connections to display devices
2. IR IN
 - 3.5mm IR input port for connection to IR receiver or IR system
3. IR OUT
 - 3.5mm IR input port for connection to IR receiver or IR system
4. Power Indicator
 - Indicates power for transmitter
5. 12V DC
 - Locking power port, connect DC12V power adapter (either power port can power entire set)
6. Twisted Pair Input with Link and HDCP Status Indicators
 - RJ45 HDBaseT connection. Connect Cat6 cable to transmitter

LED States

Solid Link - Link established between transmitter and receiver

Flashing HDCP - HDMI signal is not encrypted

Solid HDCP - HDMI signal is encrypted

Connectivity Instructions

1. Verify all components included with the extender set are present before installation.
2. If the extenders are going to be permanently mounted to a surface, attach the included mounting brackets with the supplied screws.
3. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
4. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter (DL-HD70LS-TX) and the receiver (DL-HD70LS-RX). TIA/EIA-568B straight-through wiring connections must be used with all HDBaseT extenders.
5. Connect an HDMI cable and any desired control accessories between the display and the receiver (DL-HD70LS-RX).
6. Connect an HDMI cable and any desired control accessories between the source and the transmitter (DL-HD70LS-TX).
7. Connect the included power supply to the transmitter or receiver and lock the power supply to the power connector by twisting the locking collar clockwise.
8. Power on attached audio/video devices.

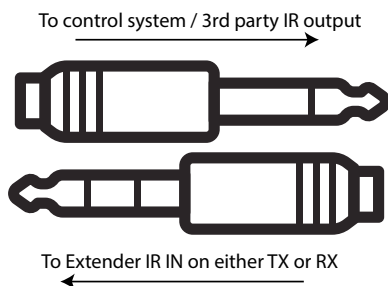
Passing IR Signals:

The DL-HD70LS is capable of passing IR signals between 33 and 55 KHz. To prevent damage to any of the electronics, the extenders should be powered off while inserting or removing any IR components. Inserting an IR transmitter into the IR IN port may damage the IR circuit for that extender.

IR OUT: The IR transmitter (IR emitter) must be plugged into the IR OUT port.

IR IN: The IR receiver (IR eye) must be plugged into the IR IN port.

To pass 3rd party IR system signals through the DL-HD70LS, such as a control system, connect the TS connector of the IR-AC coupling cable (provided) to the IR output port of the control system and connect the TRS connector of the IR-AC cable to the IR IN to either transmitter or receiver of the DL-HD70LS



Cabling Requirements

HDBaseT Cabling

To ensure proper performance of the DL-HD70LS, 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

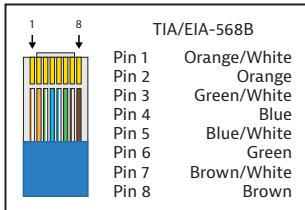
For optimized HDBaseT performance use the following Liberty Wire and Cable branded cabling;

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**



Twisted Pair Wiring

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

Technical Specifications

Supported Audio and Video	
Maximum Video Compatibility	70 m: Deep Color 36/30/24 Bit at 1080p
	40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k (UHD)
Video Compliance	HDMI, HDCP, and CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
IR Carrier Frequency Range	33-55kHz at 5 volts
HDBaseT Signal Characteristics	
Maximum Distance	70 m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Chassis and Environmental	
Dimensions (H x W x D)	18 mm x 120 mm x 74 mm (0.71 in x 4.72 in x 2.91 in)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Power	
Maximum Power Consumption	12 watts
Power Supply Input Voltage	100-240V AC at 50-60 Hz
Power Supply Output Voltage	12V DC
Regulatory	CE, RoHS
Other	
Standard Warranty	2 Years
Included Items	Quick Guide, Power Supply, Adapter Plugs (US, EU, AU, UK), Mounting Brackets (4 ea), Mounting Screws (4 ea), (8) Rubber Feet, (1) IR Emitter, (1) IR Receiver
IR Transmitter	DIGIB-EMT
IR Receiver	DIGIB-EYE, IR-AC

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

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For Technical Support please call our toll free number at
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