Technical Specifications

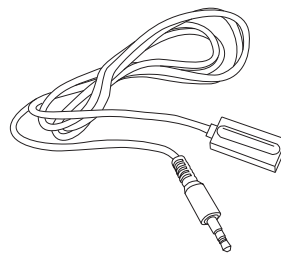| Supported Audio and Video	
Maximum Video Compatibility with Cat 6	60 m: Deep Color 36/30/24 Bit at 1080p
	35 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k
Maximum Video Compatibility with shielded Cat 6 or greater cable and shielded connectors	70 m: Deep Color 36/30/24 Bit at 1080p
	40 m: Deep Color 48 Bit at 1080p, 3D, and 4k x 2k
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
RS232 Baud Rate	Up to 115200 baud
HDBaseT Signal Characteristics	
Maximum Distance	70 m
Cable Requirements	Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Chassis and Environmental	
Dimensions	135mm x 74mm x 15mm (5.31 in. x 2.91 in. x 0.59 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	3 watts (S), 6 watts (R)
Power Supply Input Voltage	100-240V AC at 50-60 Hz
Power Supply Output Voltage	18V DC
Regulatory	CE, RoHS
Other	
Standard Warranty	2 Years
Included Items	Installation Guide, Power Supply, US Power Cable, IR Transmitters (2 ea), IR Receivers (2 ea), Mounting Brackets (4 ea), Mounting Screws (4 ea)

DIGITALINX
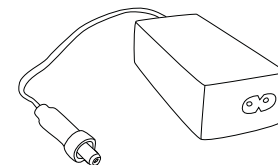## Complete Digital Solutions for the AV Professional
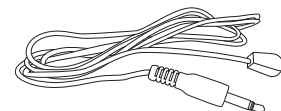# DL-HD70 Installation Guide
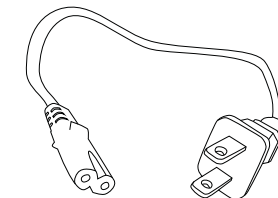

Included Accessories:
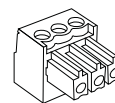

IR Receiver (IR eye) - 2 ea

Power Supply with locking connector

IR Transmitter (IR emitter) - 2 ea

US Power Cable

3-pole Terminal Block - 2 ea
(attached to the extenders)

Mounting brackets with screws - 4 ea
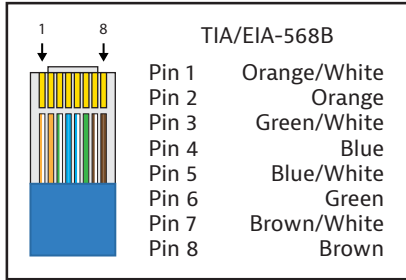
The DigitaLinx DL-HD70 HDBaseT extender set transmits HDMI, bidirectional IR, and RS232 up to 70 meters away using a single Category 6 twisted pair cable.

Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. Flexible power design allows the units to be powered at either the TX or RX end, and only one power supply is required. The 12 volt power supply is secured with a screw-on connector to prevent the power from being accidentally disconnected.

The DL-HD70 is sold only as a set. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.
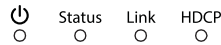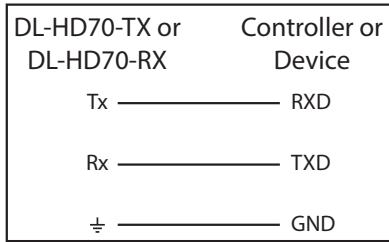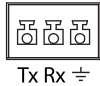
	TIA/EIA-568B	
1 8		
	Pin 1	Orange/White
	Pin 2	Orange
	Pin 3	Green/White
	Pin 4	Blue
	Pin 5	Blue/White
	Pin 6	Green
	Pin 7	Brown/White
	Pin 8	Brown

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

RS232 Wiring
Connect the controller or device RXD signal to Tx on the DL-HD70 extender. Connect the controller or device TXD signal to Rx on the DL-HD70 extender.

Tx Rx

DL-HD70-TX or DL-HD70-RX	Controller or Device
Tx —————	RXD
Rx —————	TXD
⏚ —————	GND

Diagnostic LEDs:
⏻ Status Link HDCP

The DL-HD70 provides four blue LEDs to indicate the current operating status and to assist troubleshooting an installation.

Power: Solid, the DL-HD70 extender is receiving power from the power supply or from the remote extender via Category 6 cabling.

Status: Flashes once per second, the HDBaseT processor is running.

Link: Solid, the two DL-HD70 extenders are communicating via Category 6 cabling.

HDCP: Solid, HDCP signal is present in the HDMI stream. Flashes quickly, no HDCP signal is present in the HDMI stream.

Mode Switch:
The mode switch is used when updating firmware in the extender. A separate document will provide usage instructions once a new firmware update is available.

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-HD70-TX) and the receiver (DL-HD70-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 (DIGI-HD70-RX).

6. Connect an HDMI cable and any desired control accessories between the source and the transmitter (DIGI-HD70-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 counter clockwise.

8. Power on attached audio/video devices.

Passing IR Signals:
The DL-HD70 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.

Important notice:
• Do not attempt to disassemble or alter the extender 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 extender 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.