

DL-HD70 Technical Specifications

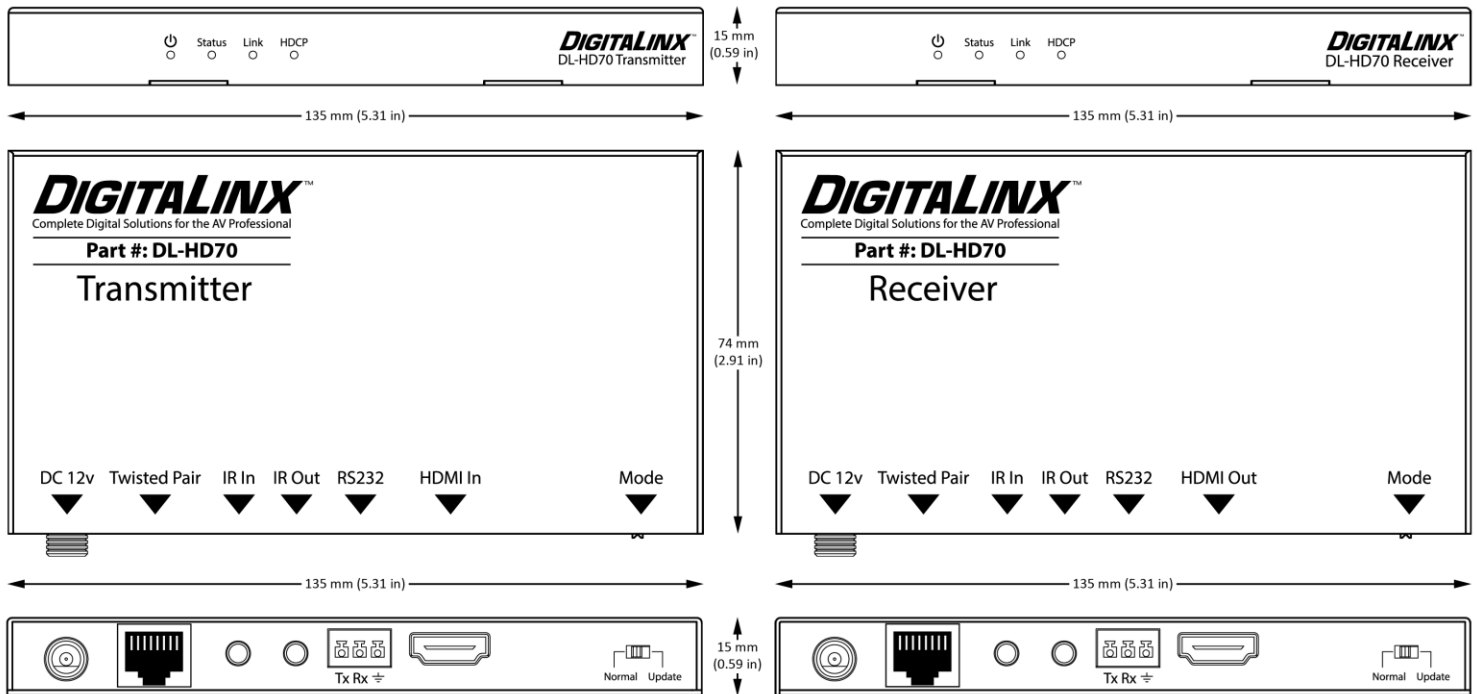
DigitalLinx HDBaseT Lite with Control Extender Set

Rev. 140107

The DigitalLinx DL-HD70 HDBaseT extender set transmits HDMI, bidirectional IR, and RS232 up to 70 meters away using a single 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. All accessories are included including two IR emitters, two IR receivers, and two pairs of mounting brackets with screws. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.



| Technical Specifications | |
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| I/O Connections | |
| HDMI | One (1) HDMI Type A Receptacle |
| Twisted Pair | One (1) 8P8C port (Shielded RJ45) |
| IR Input | One (1) 3.5mm TRS Jack |
| IR Output | One (1) 3.5mm TS Jack |
| RS232 | One (1) 3-Pole Euroblock connector |
| 12V DC Power | One (1) 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel (Locking) |
| Supported Audio, Video and Control | |
| 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 |
| Input DDC Signal | 5.0 volts p-p (TTL) |
| Input Video Signal | 0.5 to 1.0 volts p-p |
| 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 |
| Gain | 0 dB – 10 dB at 100 MHz |
| Resolution Range | 800x600 – 1920x1200 |
| Signal to Noise Ratio (SNR) | > 70 dB at 100 MHz over 100 m |
| Return Loss | < -30 dB at 5 KHz |
| Total Harmonic Distortion (THD) | < 0.005% at 1 KHz |
| Min-Max Signal Level | < 0.3 V – 1.45 Vp-p |
| Differential Phase Error | ±10° at 135 MHz over 100 m |
| Chassis and Environmental | |
| Enclosure | Painted steel |
| Dimensions | 135mm x 74mm x 15mm (5.31 in. x 2.91 in. x 0.59 in.) |
| Shipping Weight | 0.82 kg (1.8 lbs.) |
| 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 |
| Storage Temperature (Environment) | -10° to +60° C (+14° to +140° F) |
| Storage Humidity (Environment) | 20% to 90%, Non-condensing |
| Power, ESD, and Regulatory | |
| Maximum Power Consumption | 3 watts (S), 6 watts (R) |
| Power Supply | 12vDC |
| ESD Protection | 15kV |
| Regulatory | CE, RoHS |
| Other | |
| Standard Warranty | 2 Years |
| Diagnostic Indicators | Power, Status, Link, and HDCP LEDs |
| Included Items | Installation Guide, power supply, US power cord, IR emitters (2 ea), IR receivers (2 ea), mounting "L" brackets (4 ea), mounting screws (4 ea) |

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Liberty AV Solutions' specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.