4K60 HDMI VIDEO EXTENDER

HDMI 2.0, 4K60, Local Out, 2-Way IR, RS-232, PoC, 120m
Model: DSG-HDMI-460LR

This 18Gbps HDMI Extender can transmit high-definition video/audio signals, RS-232, and bi-directional IR over a single CATx cable – up to 120 meters (394 ft) for 4K60 video and up to 150 meters (492 ft) for 1080P. It supports resolutions up to 4K@60Hz 4:4:4, 18Gbps bandwidth, and HDCP 2.2. One HDMI loop-out port is available on the Transmitter. The Extender also supports de-embedded audio for L/R analog audio output and PoC (Power over Cable) functionality. In addition, it features two-way IR pass-through for source and display control.

The HDMI Extender includes two units: a Transmitter and a Receiver. The Transmitter captures the HDMI input signal and sends it over a cost-effective CAT5e/6 cable while also transmitting IR control signals. The Receiver is responsible for receiving the HDMI signal and transmitting/receiving IR control signals. This Extender provides a convenient solution for HDMI extension over a single CAT5e/6 cable with long-distance capability, making it ideal for various applications.

☆ HDMI 2.0, HDCP 2.2/1.4 and DVI 1.0 compliant

☆ Supports 18Gbps bandwidth and video resolutions up to 4K@60Hz 4:4:4

☆ Maximum transmission distance via a single CAT5e/6 cable:
  - 120 meters (394ft) for 4K60 signal
  - 150 meters (492ft) for 1080P signal

☆ One HDMI Loop-Out port on the Transmitter

☆ De-embedded audio to analog stereo output on the Receiver

☆ Bi-directional IR, RS-232 and CEC pass-through

☆ Supports HDR, HDR10+, Dolby Vision, and HLG

☆ Supports PoC (Power over Cable) functionality
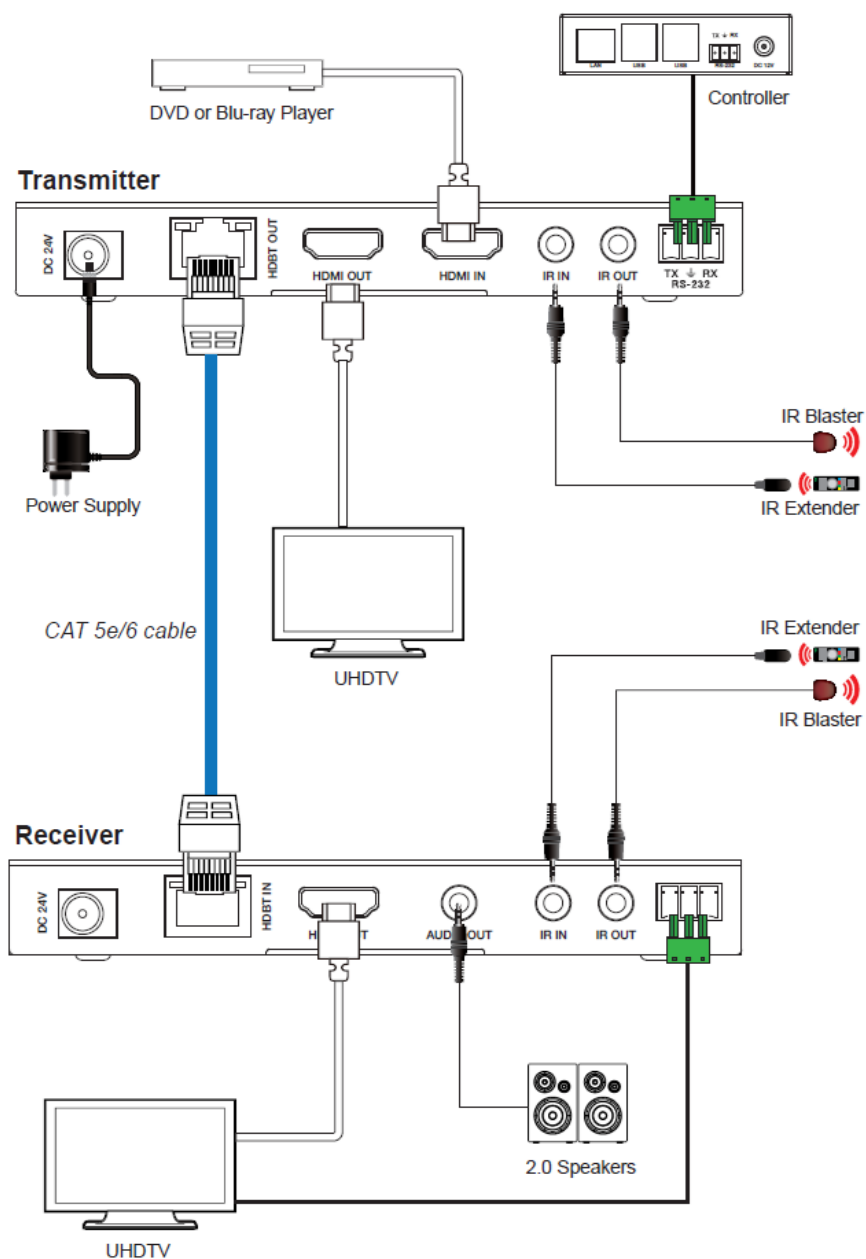
☆ Compact design for easy and flexible installation

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SPECIFICATIONS

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit (1080P60, 4K30, 4K60 4:2:2/4:2:0) 8-bit (4K60 4:4:4)
HDMI Audio Formats	LPCM (2.0/2.1/5.1/6.1/7.1), Dolby Digital, Dolby Digital Plus (DD+), Dolby TrueHD, DTS-ES, DTS-HD HRA, DTS-HD Master Audio, and DTS:X
L/R Audio Formats	PCM 2.0
Transmission Distance	4K60 – 120m, 1080P60 – 150m (CAT5e/6/6a cable)
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connections		
Transmitter	Input:	1 x HDMI IN [Type A, 19-pin female] 1 x SERVICE [Mini-USB, Update Port]
	Output:	1 x HDMI OUT [Type A,19-pin female]
	Control:	1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [Phoenix Connector]
	Network:	1 x HDBT [RJ-45, 8-pin female]
Receiver	Input:	1 x SERVICE [Mini-USB, Update Port]
	Output:	1 x HDMI OUT [Type A, 19-pin female] 1 x AUDIO OUT [3.5mm Stereo Mini-jack]
	Control:	1 x IR IN [3.5mm Stereo Mini-jack] 1 x IR OUT [3.5mm Stereo Mini-jack] 1 x RS-232 [Phoenix Connector]
	Network:	1 x HDBT [RJ-45, 8-pin female]

Mechanical and Environmental	
Housing	Metal Enclosure
Colour	Black
Dimensions	Transmitter / Receiver: 140mm (W) × 65mm (D) × 18mm (H)
Weight	Transmitter: 160g, Receiver: 155g
Power Supply	Input: AC 100 - 240V 50/60Hz / Output: DC 24V/1A (Locking Connector) Supports bi-directional PoC functionality
Power Consumption	9.36W (Max)
Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	-4°F to 140°F / -20°C to 60°C
Relative Humidity	20 to 90% RH (non-condensing)

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CONNECTION DIAGRAM

Front and Rear View

4K60 HDMI VIDEO EXTENDER

PACKAGE CONTENTS

①   1 × 18Gbps HDMI Video Extender (Transmitter)
②   1 × 18Gbps HDMI Video Extender (Receiver)
③   2 × IR Blaster cable (1.5 meters)
④   2 × IR Wideband Receiver cable (1.5 meters)
⑤   4 × Mounting Ears
⑥   2 × 3-Pin Phoenix Connectors
⑦   1 × 24V/1A Locking Power Adapter
⑧   1 × User Manual

WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

ORDERING INFORMATION

Part Number	Descriptions
DSG-HDMI-460LR	HDMI 2.0 4K60 Extender with Local Out, 2-Way IR, RS-232, PoC, 120m
(OPTIONAL)	
VDC-HCL20-001M	Premium High Speed HDMI 2.0 Type A (Male) to Type A (Male) Cable with Ethernet, 4K60, 18Gbps, LSZH, 1m
VDC-HCL20-002M	Premium High Speed HDMI 2.0 Type A (Male) to Type A (Male) Cable with Ethernet, 4K60, 18Gbps, LSZH, 2m
VDC-HCL20-003M	Premium High Speed HDMI 2.0 Type A (Male) to Type A (Male) Cable with Ethernet, 4K60, 18Gbps, LSZH, 3m

CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

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