DVI-7520 / DVI-7525

HDMI HDBaseT Extenders

DVI-7520-TX / DVI-7520-RX
HDMI HDBaseT Extender Set, 70m

DVI-7525-TX / DVI-7525-RX
HDMI HDBaseT Extender Set, 100m

FEATURES

- Extends HDMI, Ethernet (DVI-7525 only), RS-232, and bidirectional IR over a single CAT-X cable
- Supports 4K resolutions up to 4096x2160 / 30p
- Supports HDBaseT POH standard with remote power from TX to RX unit over the CAT-X cable
- Fully HDCP compliant, EDID and CEC transparent
- Extends 1080p HDMI signals up to 100 meters (DVI-7525) or 70 meters (DVI-7520)
- Extends 4K (UHD) HDMI signals up to 70 meters (DVI-7525) or 40 meters (DVI-7520)
- Multiple extender pairs can be cascaded for applications that require extreme distances
- Heavy-duty mounting brackets are included

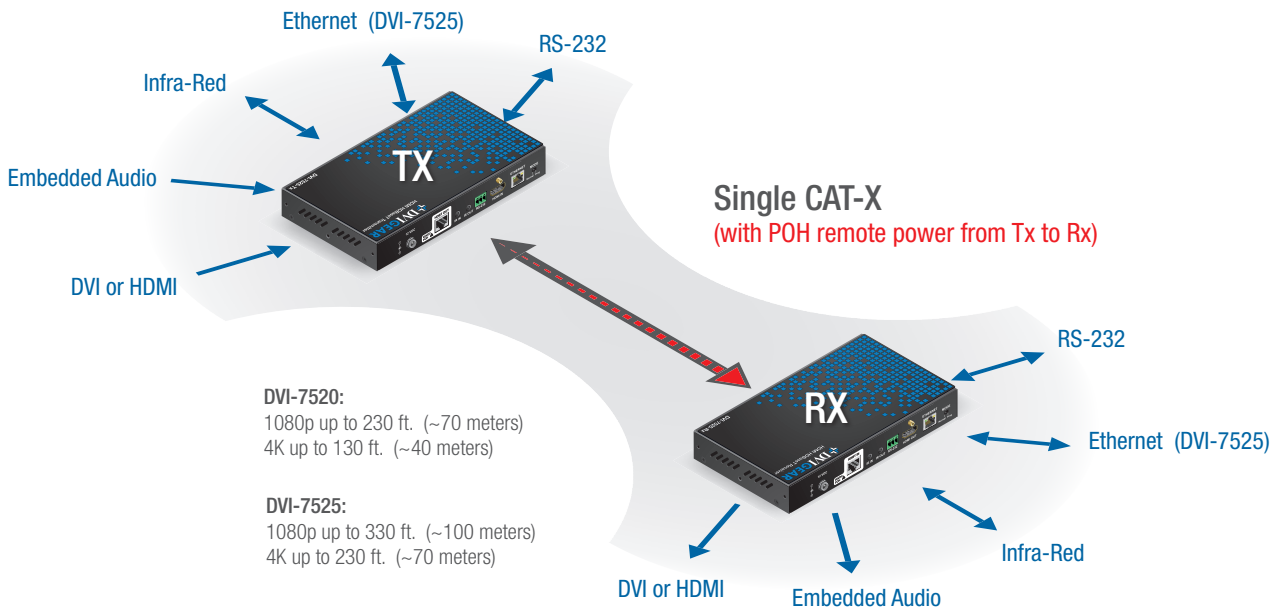
Multiple Signals Over One Cable — DVIGear's DVI-7520 and DVI-7525 utilize HDBaseT™ technology to provide a simple and cost-effective solution for extension of uncompressed HDMI or DVI, embedded audio, bidirectional IR, RS-232 and Ethernet (DVI-7525 only) using a single twisted pair CAT-X cable.

Feature-Rich, Future-Proof — Unlike other products, these extenders support the full range of HDBaseT features, including: 5-play, support for 4K / 30p (UHD) resolution, bidirectional IR, POH and long-range operation. They support extension of HDMI signals with 1080p resolution up to 330 ft. (~ 100 meters) and 4K (UHD) resolution up to 230 ft. (~ 70 meters).

Power Over HDBaseT (POH) — Today there are many HDBaseT products on the market that utilize non-standard implementations of power over the HDBaseT link. This problem has created numerous interoperability challenges for system integrators who are faced with HDBaseT products that do not work with each other or, in some cases, actually cause equipment failures. To solve this problem, DVIGear's DVI-7520 and DVI-7525 include a fully-compliant implementation of **Power over HDBaseT (POH)**, a key component of the HDBaseT standard. For POH operation, the transmitter unit acts as a PSE device and provides standardized 48 VDC power, as well as a sophisticated handshake feature that prevents power exchange with incompatible devices. The receiver unit operates as a PD device and accepts POH from the transmitter, thereby eliminating the need for a cumbersome wall mount power supply unit (PSU). For non-POH operation, the receiver unit can be powered using an optional PSU.

Break-Through Value — The DVI-7520 and DVI-7525 deliver a powerful combination of advanced features and exceptional performance at very attractive price points, which makes them a true break-through in value for professional AV system integrators. This makes them ideally suited for a wide range of digital display applications, including rental & staging events, conference and training rooms, boardrooms, auditoriums, hotels, churches and other demanding environments.

DIAGRAM OF MULTIPLE SIGNALS



HDMI HDBaseT Extender Set, 70m

Transmitter DVI-7520-TX

Front View

Rear View

Receiver DVI-7520-RX

Front View

Rear View

HDMI HDBaseT Extender Set, 100m

Transmitter DVI-7525-TX

Front View

Rear View

Receiver DVI-7525-RX

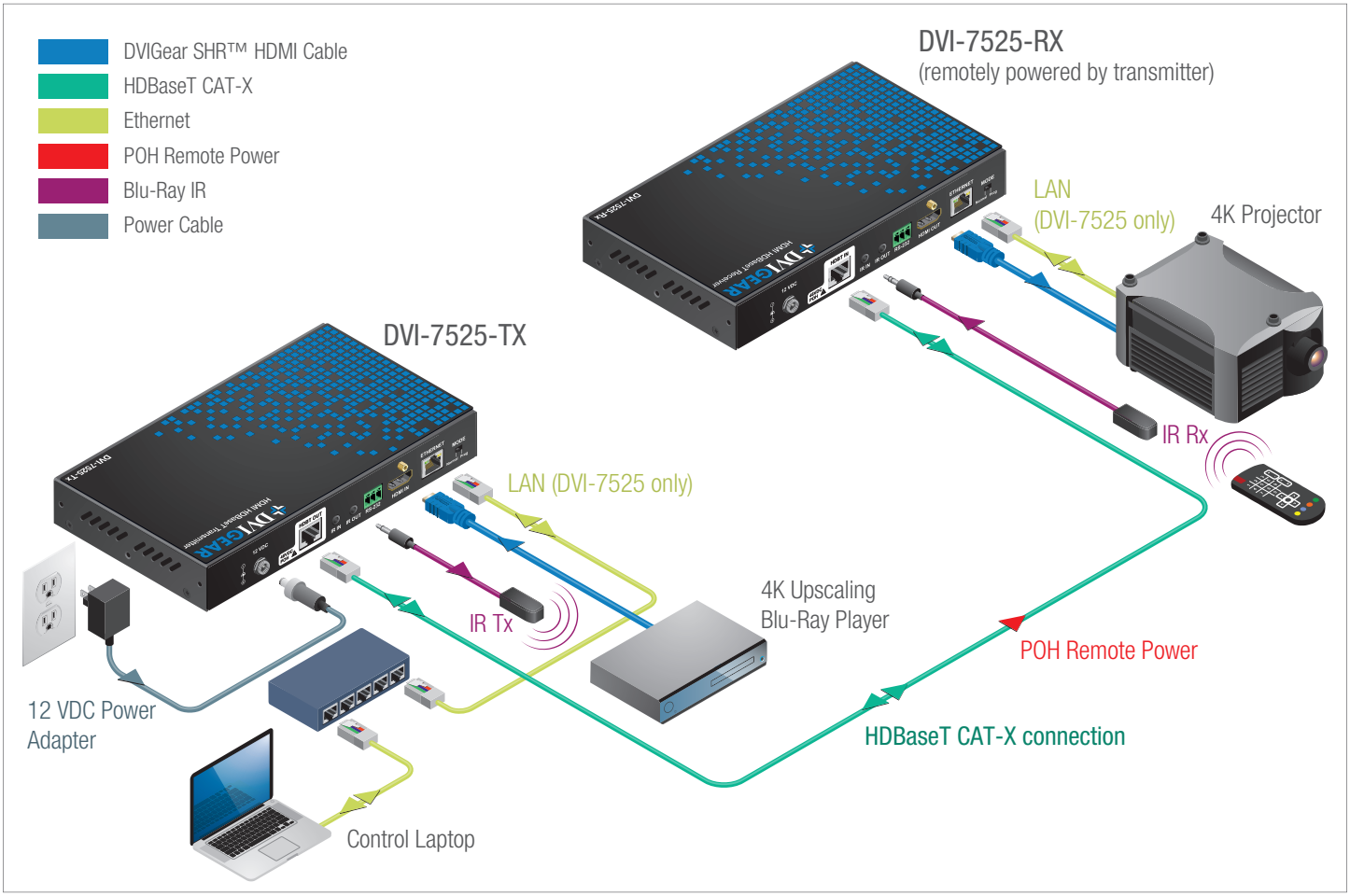
Front View

Rear View

DVI-7520 / DVI-7525

HDMI HDBaseT Extenders

STAND-ALONE OPERATION



SPECIFICATIONS

Model	DVI-7520	DVI-7525
Extender Set	DVI-7520: HDBaseT HDMI Extender Set, 70m	DVI-7525: HDBaseT HDMI Extender Set, 100m
Transmitter	DVI-7520-Tx: HDBaseT HDMI Transmitter, 70m	DVI-7525-Tx: HDBaseT HDMI Transmitter, 100m
Receiver	DVI-7520-Rx: HDBaseT HDMI Receiver, 70m	DVI-7525-Rx: HDBaseT HDMI Receiver, 100m
Performance		
Video	Supports HDMI v1.4, HDCP, and CEC	
HDBaseT Classification Type	HDBaseT Class B	HDBaseT Class A
Audio	Supports HDMI embedded audio: up to 7.1 PCM, Dolby Digital TrueHD, and DTS-HD Master Audio	
HDCP	Supports HDMI signals with or without HDCP encryption	
Control	Supports Ethernet (DVI-7525), bidirectional IR and RS-232 pass-through	
Power	Supports local 12VDC power, as well as 48V POH (Tx unit to Rx unit)	
EDID	EDID of connected display is transparent	
Cable Equalization	Automatic, adaptive	
Supported HDTV Formats	Supports HDTV resolutions up to 4096x2160 (4K)	
Supported PC Resolutions	Supports all single-link DVI resolutions up to 1600x1200 and 1920x1200, HDMI resolutions up to 4096x2160 (4K)	
Input DDC Signal	5.0 Vpp (TTL)	
Input Video Signal	0.5 to 1.0 Vpp	
IR Carrier Frequency Range	33-55 kHz @ 5 volts	
RS-232 Baud Rate	Up to 115,200 baud	

SPECIFICATIONS (CONTINUED FROM PAGE 3)

Connections / Indicators	DVI-7520	DVI-7525
HDMI Input / HDMI Output	1x 19-pin Female HDMI connector	
HDBaseT Interface	1x RJ45 with 48V POH	
IR Remote Control	1x IR IN: 3.5mm Stereo Mini-Jack; 1x IR OUT: 3.5mm Mini-Jack	
RS-232	1x 3-pin phoenix connector	
Ethernet Interface	None	1x RJ45
Power	1x Screw-locking 5.5 mm / 2.0 mm female connector	
Diagnostic Indicators	Power, Status, Link, and HDCP LEDs	
HDBaseT		
Category Cable Type	Recommended: CAT6A S/FTP (550 MHz) AWG 23 Required: CAT5e or better Compliant with TIA/EIA-568B termination standard	
Maximum Extension Distance [1]	up to 230 ft. (70 meters) @ 1920x1080 / 60p / 36-bit	up to 330 ft. (100 meters) @ 1920x1080 / 60p / 36-bit
	up to 130 ft. (40 meters) @ 4096x2160 / 30p, 1920x1080 / 60p / 48-bit, and 1920x1080 / 120p	up to 230 ft. (70 meters) @ 4096x2160 / 30p, 1920x1080 / 60p / 48-bit, and 1920x1080 / 120p
Maximum Pixel Clock Frequency	Supports pixel clock rates up to 340 MHz	
Maximum Video Bit Rate	Supports digital signal bit rates up to 3.4 Gbps./color, 10.2 Gbps. total	
Gain	0 - 10 dB @ 100 MHz	
Resolution Range	800x600 – 1920x1200, 4096x2160 / 30p	
Signal to Noise Ratio (SNR)	> 70 dB @ 100 MHz over 70 meters cable length	> 70 dB @ 100 MHz over 100 meters cable length
Return Loss	< -30 dB @ 5 KHz	
Total Harmonic Distortion (THD)	< 0.005% @ 1 KHz	
Min. / Max. Signal Level	< 0.3 Vpp / 1.45 Vpp	
Differential Phase Error	±10° @ 135 MHz over 70 meters cable length	±10° @ 135 MHz over 100 meters cable length
Propagation Delay	< 7 µs @ 70 meters	< 10 µs @ 100 meters
Power Over HDBaseT (POH)	Fully-compliant implementation of Power over HDBaseT (POH). Tx unit is a PSE device and Rx unit is a PD device.	
Power		
Power Consumption	Tx Unit: 10.8 watts (Maximum) Rx Unit: 10.8 watts (Maximum)	Tx Unit: 11.8 watts (Maximum) Rx Unit: 11.8 watts (Maximum)
Remote Power	48V POH from Tx unit to Rx unit	
External AC Power Adapter	Input: 100-240VAC, 50-60Hz / Output: +12VDC @ 1.5A	
ESD Protection	± 15 kV	
Mechanical		
Construction	Heavy-duty steel enclosure with jet black finish	
Dimensions (W x D x H)	Each Unit: 6.8" x 3.9" x 1.0" (173.1 mm x 100.1 mm x 25.6 mm)	
Weight	Tx Unit: 14.5 oz. (411 g); Rx Unit: 15.1 oz. (428 g)	Tx Unit: 14.7 oz. (418 g); Rx Unit: 15.2 oz. (432 g)
Environmental		
Operating Temperature (Environment)	+32° to +95° F (0° to +35° C)	
Typical Case Temperature	Tx Unit: 98.6° F (37° C); Rx Unit: 105.8° F (41° C); (Ambient Environment 30°C, 10 Hours)	
Storage Temperature (Environment)	-4° to +158° F (-20° to +70° C)	
Operating / Storage Humidity	10% to 90% (non-condensing)	
Regulatory Approvals		
TX / RX Units	FCC, CE, RoHS	
External AC Power Adapter	FCC, CE, UL, C-UL, CEC, GS, PSE, RoHS	
Warranty		
Limited Warranty	3 Years Parts and Labor	
Accessories Included		
1x User Guide, 1x External AC Power Adapter, 1x IR Transmitter, 1x IR Receiver, 2x 3-pin RS-232 Phoenix Connectors, 4x Mounting Brackets with Screws, 2x HDMI Jack Screws		
Optional Accessories		
Additional AC Power Adapter with USA, Euro, UK, or Australia Plugs (DVI-7520-PS), IR Receiver (DVI-7360-IR-RX), IR Transmitter (DVI-7360-IR-TX), 19" Rack Mount Kit (DVI-7520-RMK)		

Note 1: *Maximum cable lengths using recommended CAT6A S/FTP (550 MHz) AWG 23 cable*