

**Active Cable Extenders (ACE™)**



- DVI-7171c**  
DVI Single-Link Active Cable Extender
- DVI-7176b**  
DVI Dual-Link Active Cable Extender
- DVI-7370c**  
HDMI Active Cable Extender

**FEATURES**

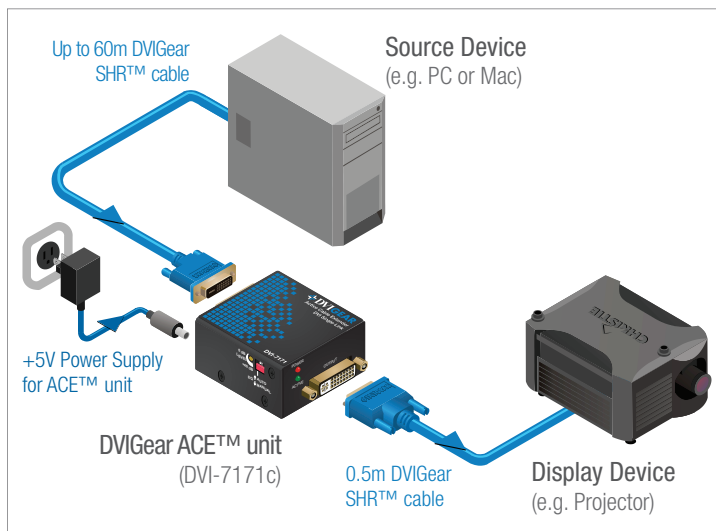
- Automatic and Manual cable equalization
- Enables cable lengths up to 200 ft. (~ 60 meters) using DVIgear's SHR™ cables
- Superior performance and stability

**DVIgear's ACE™ Active Cable Extenders** – are dynamic cable equalizers that perform high-speed cable compensation on long DVI and HDMI cables. These units provide up to 40 dB of insertion loss correction at 825 MHz, which correlates to the highest possible DVI signal resolutions. The amount of equalization can be automatically adjusted independent of cable length connected, or manually set using a precision 25-turn adjustment.

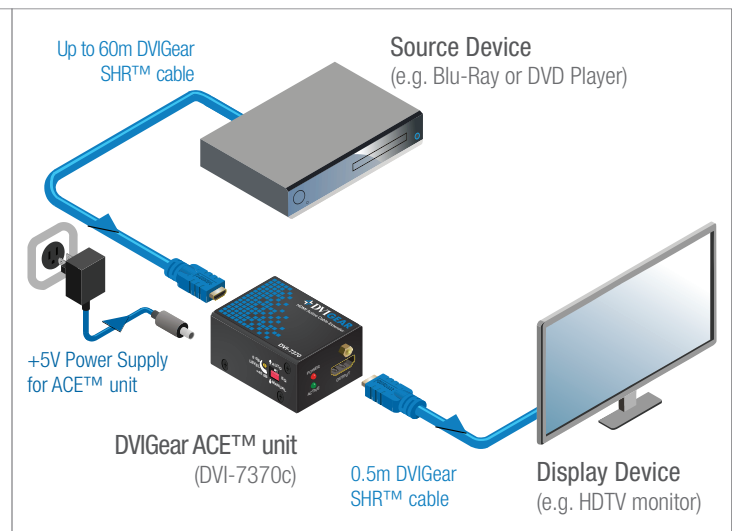
**Innovative Features** – such as automatic power detection and high-speed ESD protection further enhance the usefulness of these units in system applications. The HDMI ACE™ unit is fully HDMI v1.4 compatible and supports both HDMI Ethernet and Audio Return Channel features. This unit also includes cable fixation points, which allows the connection of locking HDMI cables.

**Superior Performance** – When used in conjunction with DVIgear's Super High Resolution™ DVI and HDMI cables, cable lengths of up to 200 ft. (~ 60 meters) are possible. The combination of these products form active cable assemblies that are fully compliant with DVI and HDMI standards, and which provide superior performance, ruggedness and durability.

Typical DVI Application



Typical HDMI Application



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## Active Cable Extenders (ACE™)

### SPECIFICATIONS

Model Number	DVI-7171c	DVI-7176b	DVI-7370c
Product Description	DVI Single-Link Active Cable Extender	DVI Dual-Link Active Cable Extender	HDMI Active Cable Extender
<b>Performance</b>			
Compliance	DVI v1.0, HDMI, HDCP		HDMI v1.4, HDCP and DVI v1.0
Maximum Pixel Clock Frequency	Up to 225 MHz	Up to 330 MHz	Up to 225 MHz
Maximum Bit Rate	Up to 2.25 Gbps	Up to 3.30 Gbps (effective)	Up to 2.25 Gbps
Supported HDTV Resolutions	480p, 720p, 1080i, 1080p (8-bit and 12-bit color)		
Supported Single-Link PC Resolutions	Up to 1920x1200 and 2048x1080		
Supported Dual-Link PC Resolutions	–	Up to 3840x2400	–
Input Signal Equalization	Adaptive equalization, provides up to +40 dB correction @ 825 MHz		
Cable Equalization Modes	Auto EQ Mode - for cable lengths up to 30 meters    Manual EQ Mode - for cable lengths longer than 30 meters		
<b>Connections</b>			
Input / Output	2x DVI 29-pin female connectors	2x DVI 29-pin female connectors	2x HDMI 19-pin female connectors with fixation points
Power Input	1x 5.5 / 2.5 mm locking connector		
<b>Cable Length</b>			
Maximum Input Cable Length	200 ft. (~ 60 meters) <sup>(1)(2)</sup>		
Maximum Output Cable Length	15 ft. (~ 5 meters) <sup>(1)</sup>		
<b>DDC Support</b>			
EDID / HDCP Support	Yes, pass-through		
<b>Mechanical</b>			
Construction	Rugged steel enclosure with durable black finish		
Dimensions (H-W-D)	1.1" x 2.1" x 2.6" (29.2 mm x 53.7 mm x 67.1 mm)		1.1" x 1.7" x 2.6" (28.8 mm x 42.3 mm x 64.8 mm)
Weight	4.7 oz. (132 g)		3.5 oz. (100 g)
<b>Environmental</b>			
Operating Temperature	+32° to +122° F (0° to +50° C)		
Storage Temperature	-4° to +158° F (-20° to +70° C)		
Humidity (storage / operating)	10% to 90% (non-condensing)		
<b>Power Requirements</b>			
External AC Power Adapter	Input: 100~240VAC / 50-60Hz    Output: 5VDC, 3.0A		
Power Consumption (typical)	1.5 watts	3.0 watts	1.5 watts
<b>Regulatory Approvals</b>			
ACE™ Unit	FCC, CE and RoHS		
External AC Power Adapter	FCC, CE, UL, C-UL, CEC, GS, PSE, RoHS		
<b>Warranty</b>			
Limited Warranty	3 Years Parts and Labor		
<b>Accessories</b>			
Included	1x External AC Power Adapter, 1x User Guide		
Optional	International AC Power Adapter (USA, Euro, UK, Australia)		

**Note 1:** Maximum cable lengths using DVI Gear's 22AWG Super High Resolution (SHR™) Single-Link or (SHRD™) Dual-Link cables.

**Note 2:** The maximum cable length with 1080p / 60Hz 8-bit color (1.5 Gbps.) input signal is 200 ft. (~ 60 meters).  
The maximum cable length with 1080p / 60Hz 12-bit color (2.25 Gbps.) input signal is 131 ft. (~ 40 meters).

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