

Active Cable Extenders (ACE™)



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

FEATURES

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

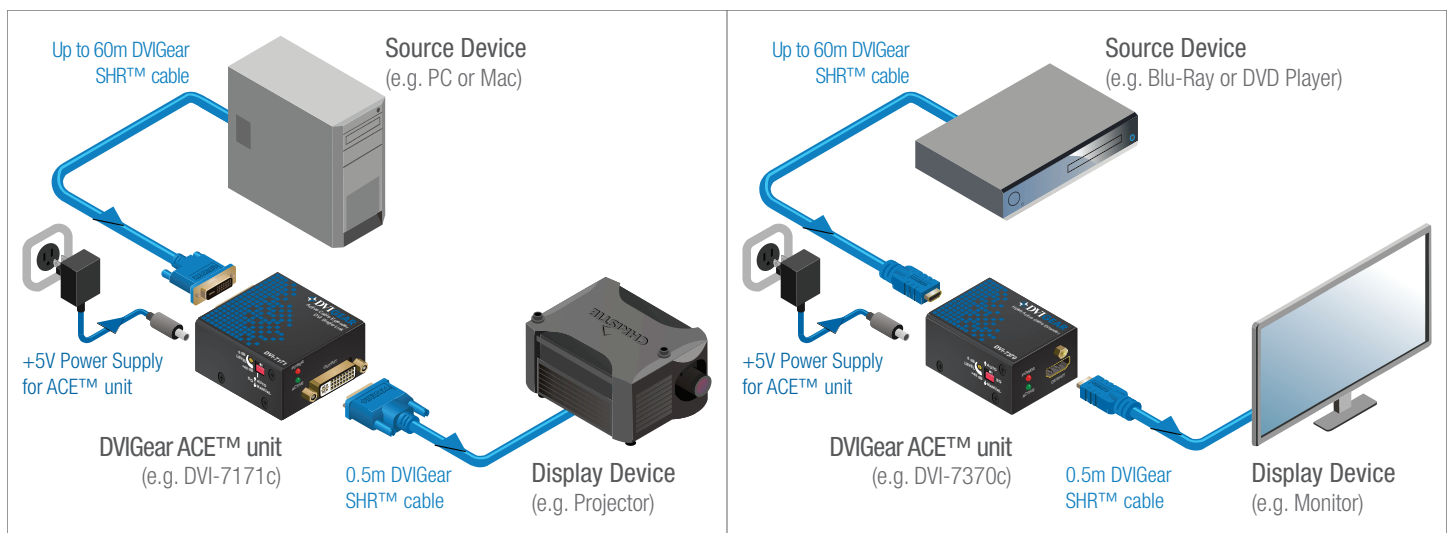
DVI Gear's ACE™ Active Cable Extenders - are dynamic cable equalizers that perform high-speed cable compensation on long DVI and HDMI cables. These units provide up to 40 dB of insertion loss correction at 825 MHz, which correlates to the highest possible DVI signal resolutions. The amount of equalization 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, which further enhances their usefulness 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 DVI Gear's Super High Resolution™ DVI and HDMI cables, cable lengths of up to 60 meters (~ 200 ft.) are possible. The combination of these products are active cable assemblies that are fully compliant with DVI and HDMI standards, and which provide superior performance, ruggedness and durability.

DVI Application Drawing

HDMI Application Drawing



Active Cable Extenders (ACE™)

SPECIFICATIONS

Model Number	DVI-7171c	DVI-7176b	DVI-7370c
Product Description	Active Cable Extender™ DVI Single-Link	Active Cable Extender™ DVI Dual-Link	Active Cable Extender™ HDMI
Connections			
Input / Output	29-pin female DVI connectors	29-pin female DVI connectors	19-pin female HDMI connectors
Power	Locking 5.5 mm Jack		
Supported Resolutions			
Single-Link Resolutions	Up to 1920x1200 and 2048x1080	Up to 1920x1200 and 2048x1080	Up to 1920x1200 and 2048x1080
Dual-Link Resolutions	–	Up to 3840x2400	–
HDTV	Up to 1080p and 2048x1080	Up to 1080p and 2048x1080	Up to 1080p and 2048x1080
Bandwidth			
Maximum Pixel Clock Rate	165 MHz	330 MHz (effective)	225 MHz
Maximum Bit Rate	1.65 Gbps	3.30 Gbps (effective)	2.25 Gbps
Cable Length			
Maximum Input Cable Length ^(1,2)	60 meters (~ 200 ft.)	60 meters (~ 200 ft.)	60 meters (~ 200 ft.)
Maximum Output Cable Length ⁽¹⁾	5 meters (~ 15 ft.)	5 meters (~ 15 ft.)	5 meters (~ 15 ft.)
DDC Support			
EDID / HDCP Support	Yes, pass-through		
Power			
External Power Supply	Input: 100-240VAC, 50-60Hz Output: +5VDC, 3.0A		
Power Consumption (typical)	1.5 watts	3.0 watts	1.5 watts
Mechanical			
Construction	Rugged steel enclosure with jet black finish		
Dimensions (H x W x D)	1.15 x 2.11 x 2.64 inches (29.2 mm x 53.7 mm x 67.1 mm)		1.13 x 1.67 x 2.55 inches (28.8 mm x 42.3 mm x 64.8 mm)
Net Weight	4.66 oz. (132 grams)		3.5 oz. (100 grams)
Environmental			
Operation	32° to 122° F / 0° to 50° C		
Storage	-4° to 158° F / -20° to 70° C		
Relative Humidity	10% - 90%		
Regulatory Approvals			
ACE™ Unit	FCC, CE and RoHS compliant		
AC Power Adapter	UL, CUL, CE, PSE, GS, RoHS		
Accessories Included:			
User Guide, AC Power Adapter			

1. Maximum cable lengths using DVI Gear's 22AWG Super High Resolution (SHRT™) cables.

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