

CVEQ1 Series

Composite Video and Audio Line Drivers with Video Gain and Equalization



COMMON FEATURES

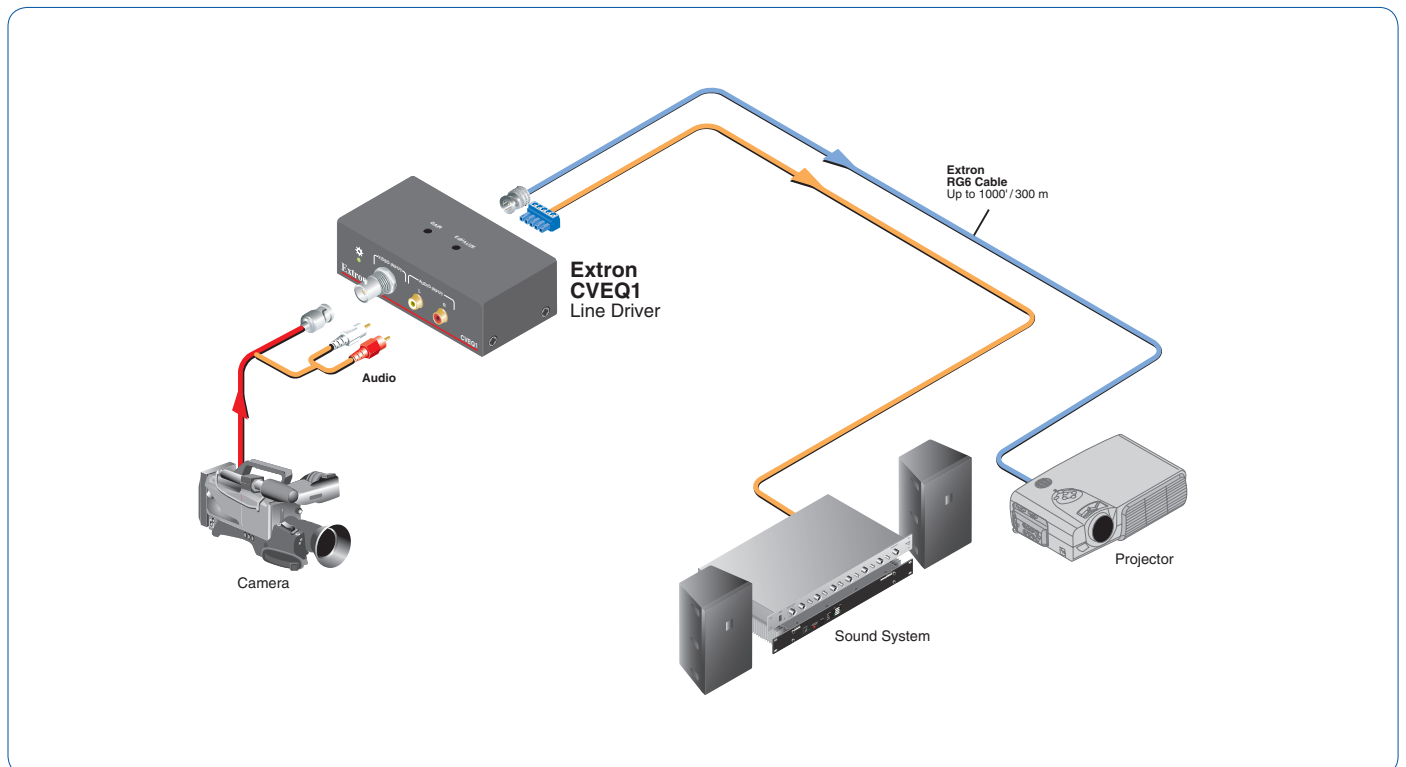
- Inputs: Female BNC and RCA connectors
- Compatible with NTSC, PAL, SECAM, and stereo audio
- Peaking/equalization and gain controls
- Active audio buffering
- 185 MHz (-3 dB) video bandwidth
- Audio response: 20 Hz to 20 kHz (± 0.05 dB)

DESCRIPTION

The Extron **CVEQ1 Series** are one input, one output, composite video and stereo audio line drivers with variable video gain and equalization capability. The CVEQ1 is designed to compensate for signal attenuation and high frequency loss encountered during a long cable run. The gain adjustment compensates for signal level losses, while the peaking/equalization adjustment compensates for high frequency loss. The CVEQ1 provides active audio buffering with a choice of balanced or unbalanced outputs.

When an application involves multiple composite video signals being run a variety of distances, individual signal adjustments are required to deliver signals of equivalent signal strength to each display. These types of applications require a separate equalizer for each signal. The CVEQ1 Series drives video signals through up to 1,000 feet (300 meters) of Extron RG6/SHR-1 coaxial cable.

The CVEQ1 is small and compact, so it can be placed anywhere and easily moved — features that are especially vital for rental and staging applications such as sales meetings, tradeshow exhibits, or large-venue presentations.



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CVEQ1 Series

CVEQ1

Composite Video and Audio Line Driver with Video Gain and Equalization

UNIQUE FEATURES

- Output: Female BNC and captive screw connector
- Compact metal enclosure mounts easily on a tabletop or desktop
- External international power supply included, part # 70-055-03



MODEL	VERSION DESCRIPTION	PART #
CVEQ1	Standard version	60-360-02

CVEQ1 WM

Composite Video and Audio Line Driver with Video Gain and Equalization for One-Gang Wall Box

UNIQUE FEATURES

- Output: One-piece captive screw connector
- Mounts in a standard one-gang electrical box
- External international power supply included, part # 70-055-01



MODEL	VERSION DESCRIPTION	PART #
CVEQ1 WM	Wall mount - Black	60-435-12
CVEQ1 WM	Wall mount - White	60-435-22
CVEQ1 WM	Wall mount - RAL9010 white	60-435-52

CVEQ1 AAP

Composite Video and Audio Line Driver with Video Gain and Equalization - AAP Module

UNIQUE FEATURES

- Output: One-piece captive screw connector
- Mounts in products that accept a double space AAP-Architectural Adapter Plate
- External international power supply included, part # 70-055-01



MODEL	VERSION DESCRIPTION	PART #
CVEQ1 AAP	AAP Module - Black	70-146-12
CVEQ1 AAP	AAP Module - White	70-146-22
CVEQ1 AAP	AAP Module - RAL9010 white	70-146-52
CVEQ1 AAP	AAP Module - Gray	70-146-02

CVEQ1 Series Accessories

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RCAF-BNCM/10	RCA Female to BNC Male Adapter	page 734	100-229-01

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CVEQ1 Series

SPECIFICATIONS

VIDEO

Gain	-6 dB to +6 dB, adjustable: 0.5 V to 2.0 V \pm 10% with input at 1 volt
Equalization / Peaking gain	4.5 dB max. @ 8 MHz
Bandwidth	185 MHz (-3 dB)
Differential phase error	1° at 3.58 MHz
Differential gain error	0.07% at 3.58 MHz

VIDEO INPUT

Number / Signal type	1 composite video
Connectors	1 female BNC
Nominal level	1 Vp-p
Minimum / Maximum levels	Analog: 0.3 V to 2.0 Vp-p with no offset at unity gain
Impedance	75 ohms
Return loss	<-30 dB @ 5 MHz

VIDEO OUTPUT

Number / Signal type	1 equalized composite video
Connectors	1 female BNC
Nominal level	1 Vp-p at unity gain
Minimum / Maximum levels	0.3 V to 2.0 Vp-p
Impedance	75 ohms
Return loss	<-30 dB @ 5 MHz
DC offset	\pm 50 mV with input at 0 offset

SYNC

Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
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AUDIO

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, \pm 0.5 dB
THD + Noise	0.025% @ 1 kHz, 0.020% @ 20 kHz at nominal level
S/N	>86 dB at output 6 dB, balanced
Stereo channel separation	>75 dB @ 20 Hz to 20 kHz

AUDIO INPUT

Number / Signal type	1 stereo unbalanced
Connectors	2 RCA female
Impedance	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316mV)
Maximum level	+6 dBV, (balanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

AUDIO OUTPUT

Number / Signal type	1 stereo, balanced/unbalanced
Connectors	
CVEQ1	(1) 3.5 mm captive screw connector, 5 pole
CVEQ1 AAP	(1) 3.5 mm direct insertion captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level	-2 dBu (632 mV), balanced output
Maximum level (Hi-Z)	>+16 dBu, balanced at 1% THD+N
Maximum level (600 ohm)	>+9 dBm, balanced at 1% THD+N

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A (max.), regulated
Power input requirements	12 VDC, 0.4 A
Temperature / Humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	No
Enclosure type	Metal

Enclosure dimensions

CVEQ1	1.2" H x 3.5" W x 1.8" D 3.0 cm H x 8.9 cm W x 4.6 cm D (Depth excludes connectors.)
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CVEQ1 AAP

Plate	1.4" H x 3.5" W x 0.1" D (2.8 cm H x 8.9 cm W x 0.3 cm D) (double space high AAP plate)
Circuit board	1.1" H x 2.7" W x 1.7" D (2.8 cm H x 6.9 cm W x 4.3 cm D) (Height includes connectors, but not cables.)

CVEQ1 WM

Plate	4.5" H x 2.8" W x 0.1" D (11.4 cm H x 7.1 cm W x 0.3 cm D) (1 gang)
Circuit board	2.7" H x 1.1" W x 1.7" D (6.9 cm H x 2.8 cm W x 4.3 cm D) (Width includes connectors, but not cables.)

Product weight

CVEQ1, CVEQ1 AAP	0.2 lbs (0.1 kg)
CVEQ1 WM	0.3 lbs (0.1 kg)

Shipping weight

CVEQ1, CVEQ1 AAP	2 lbs (1 kg)
CVEQ1 WM	3 lbs (2 kg)

Vibration

ISTA 1A in carton (International Safe Transit Association)

Listings

UL, CUL

Compliances

CE, FCC Class A

MTBF

30,000 hours

Warranty

3 years parts and labor

NOTE: All nominal levels are at \pm 10%. Specifications are subject to change without notice.