

# CVEQ1 Series

Composite Video and Audio Line Drivers with Video Gain and Equalization



## COMMON FEATURES

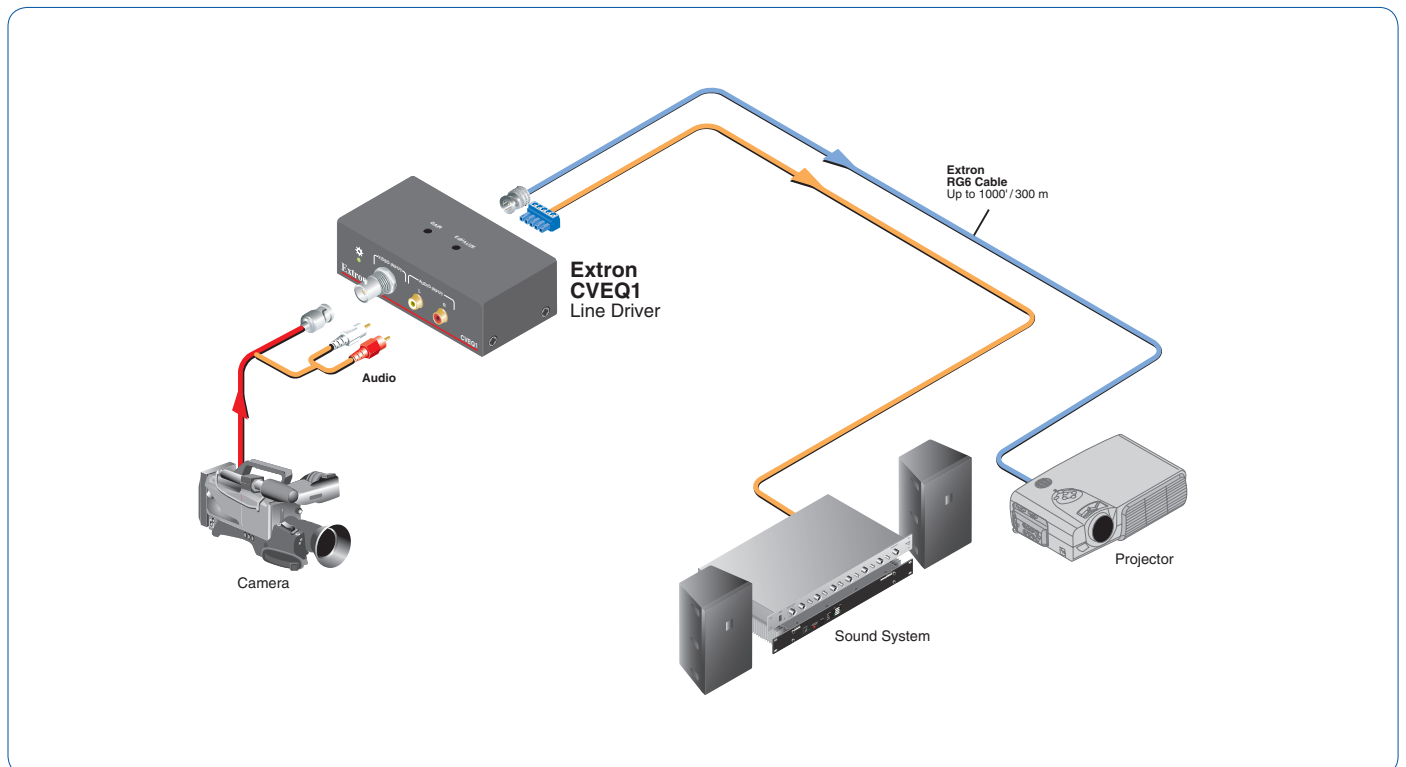
- Inputs: Female BNC and RCA connectors
- Compatible with NTSC, PAL, SECAM, and stereo audio
- Peaking/equalization and gain controls
- Active audio buffering
- 185 MHz (-3 dB) video bandwidth
- Audio response: 20 Hz to 20 kHz ( $\pm 0.05$  dB)

## 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.



Continued →

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

Continued →

## 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.

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