CVEQ Series

Line Drivers for Composite Video and Stereo Audio with Video Gain and Equalization



COMMON FEATURES

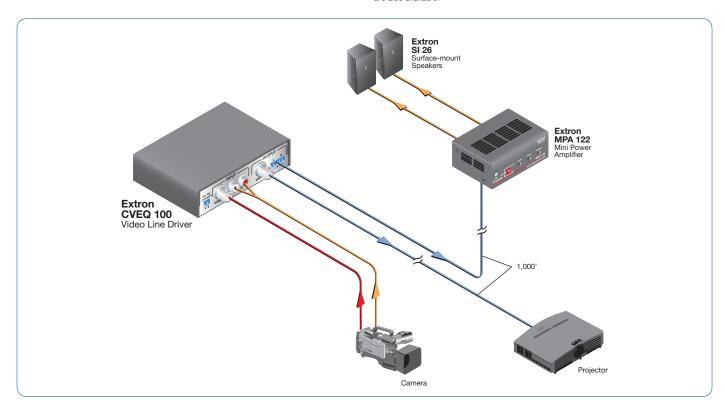
- 185 MHz (-3dB) video bandwidth
- . Compatible with NTSC, PAL, and SECAM
- · Peaking/equalization and gain controls
- · Balanced and unbalanced stereo audio outputs
- External universal power supply included, part # 70-055-01

DESCRIPTION

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

When an application involves multiple 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 CVEQ Series drives video signals up to 1,000 feet (300 meters) of Extron RG6 Super High Resolution coaxial cable.

The CVEQ Series tabletop/rackmount models are small and compact, so they can be placed or $mounted \ anywhere \ and \ easily \ moved -- features \ that \ are \ especially \ vital \ for \ rental \ and \ staging$ applications such as sales meetings, tradeshow exhibits, or large-venue presentations. Two architectural models, in AAP - Architectural Adapter Plate and WM - Wall Mount form factors, are also available.



CVEQ 100

Composite Video and Audio Line Driver with Video Gain and Equalization

UNIQUE FEATURES

· Compact metal enclosure mounts easily on a tabletop, desktop, or back of rack



 MODEL
 VERSION DESCRIPTION
 PART #

 CVEQ 100
 Desktop
 60-812-01

CVEQ 100 D

Video and Audio Line Driver - Decora® Wallplate

UNIQUE FEATURES

- · Output: Female BNC and captive screw connectors
- Mounts in Decora-style wallplates
- · Includes black and white wallplates and trim plates
- · Selectable dual mono or stereo audio output
- · Dual color LED power indicator provides power and signal presence indication



MODEL	VERSION DESCRIPTION	PART #
CVFQ 100 D	Decora Wallplate	60-867-01

CVEQ1 AAP

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

UNIQUE FEATURES

- · Output: Female BNC 4" pigtail and captive screw connectors
- Mounts in products that accept a double space AAP-Architectural Adapter Plate



MODEL	VERSION DESCRIPTION	PART #
CVEQ1 AAP	AAP Module - Black	70-146-12
CVEQ1 AAP	AAP Module - White	70-146-22

CVEQ1 WM

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

UNIQUE FEATURES

- · Output: Female BNC on 4" pigtail and captive screw connectors
- Mounts in a standard one-gang electrical box



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

Continued →



SPECIFICATIONS VIDEO CVEQ1 AAP, CVEQ1 WM -6 dB to +6 dB, adjustable: 0.5 V to 2.0 V ±10% with input at 1 volt Composite video and Y of S-video: -1 dB to +3 dB (x0.9 to x1.4), adjustable C of S-video: 0dB to +10 dB (x1 to x3), adjustable CVEQ 100 Series..... 4.5 dB max. @ 8 MHz CVEQ 100 Series. 0 dB to +7 dB (x1 to x2) at 5 MHz, adjustable **Bandwidth (Y of S-video)** 185 MHz (-3 dB) Differential phase error (CVEQ1 AAP, CVEQ1 WM) ... 1º at 3.58 MHz Differential gain error (CVEQ1 AAP, CVEQ1 WM) 0.07% at 3.58 MHz Output cable driving distance VIDEO INPUT Number/signal type...... 1 composite video Connectors CVEQ1 AAP, CVEQ1 WM, CVEQ 100... 1 female BNC CVEQ 100 D. 1 female RCA Nominal level 1 Vp-p for composite video (including sync) Minimum/maximum levels CVEQ1 AAP, CVEQ1 WM Analog: 0.3 V to 2.0 Vp-p with no offset at unity gain CVEQ 100, CVEQ 100 D 0.4 to 2.0 Vp-p with no offset at unity gain 75 ohms Impedance Return loss CVEQ1 AAP, CVEQ1 WM <-30 dB @ 5 MHz <-25 dB @ 0 to 5 MHz CVEQ 100 Series..... DC offset (max. allowable). . . . 4.0 V Input coupling..... VIDEO OUTPUT Number/signal type ... 1 equalized composite video Connectors ... 1 female BNC Connectors Nominal level 1 Vp-p for composite video (including sync) at unity gain Minimum/maximum levels CVEQ1 AAP, CVEQ1 WM 0.3 V to 2.0 Vp-p CVEQ 100 Series..... 0.4 to 2.0 Vp-p (follows input) Return loss . -30 dB @ 5 MHz DC offset CVEQ1 AAP, CVEQ1 WM ±50 mV with input at 0 offset CVEQ 100 Series..... ±5 mV with no input signal Floating: +0.1 to -0.6 V, depending on input signal content SYNC Standards....... NTSC 3.58, NTSC 4.43, PAL, SECAM AUDIO Gain.. Unbalanced output: 0 dB; balanced output: +6 dB Frequency response CVEQ1 AAP, CVEQ1 WM 20 Hz to 20 kHz, ±0.5 dB CVEQ 100 Series... 20 Hz to 20 kHz, +0.05 dB, -0.0 dB THD + Noise CVEQ1 AAP, CVEQ1 WM 0.025% @ 1 kHz, 0.020% @ 20 kHz at nominal level CVEQ 100 Series..... ... 0.015% @ 1 kHz at nominal level S/N CVEQ1 AAP, CVEQ1 WM >86 dB at output 6 dB, balanced >100 dB at maximum output (unweighted) CVEQ1 AAP, CVEQ1 WM >75 dB @ 20 Hz to 20 kHz

.. >80 dB @ 1 kHz (CVEQ 100 Series)..... Up to 1000' (300 m) with Extron RG-6 SHR cable

Number/signal type		
CVEQ1 AAP, CVEQ1 WM,		
CVEQ 100	1 stereo, balanced/unbalanced	
	1 stereo or dual mono (switch-selectable), balanced/unbalanced	
Connectors	1 otoroo or addi mono (ormen oorootabio), balanoodranbalanood	
	(1) 2 E mm contino corona connector E noto	
	(1) 3.5 mm captive screw connector, 5 pole	
	(1) 3.5 mm direct insertion captive screw connector, 5 pole	
Impedance	50 ohms unbalanced, 100 ohms balanced	
Nominal level		
CVEO1 AAP CVEO1 WM	-2 dBu (632 mV), balanced output	
	-10 dBV (316 mVrms), unbalanced; -2 dBu (632 mV), balanced output	
	- 10 dbv (310 Hivillis), ulibalanceu, -2 dbu (032 Hiv), balanceu output	
Maximum level		
CVEQ1 AAP, CVEQ1 WM		
Maximum level (Hi-Z)	>+16 dBu, balanced at 1% THD+N	
	>+9 dBm, balanced at 1% THD+N	
	+9 dBV (2.8 V) unbalanced, +17 dBu (5.6 V) balanced at 1% THD+N with a 10k	
	ohm load	
	OIIII load	
GENERAL		
External nower sunnly	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A (max.),	
External power suppry		
Davies input seguiremente	regulated	
Power input requirements		
CVEQ1 AAP, CVEQ1 WM		
CVEQ 100 Series	12 VDC, 0.2 A	
	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	
Cooling		
Rack mount	Convocation, anyonica	
	V	
	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or 1U, 6" deep	
	rack shelf, part #60-190-10 or 60-604-10; or VersaTools® 3" deep rack shelf,	
	part #60-190-20 or 60-604-20.	
	Also furniture and projector mountable with optional mounting kits.	
All other models	No, but wall- and furniture mountable.	
Enclosure type	To, but that and tallitude mountables	
CVEQ 100, CVEQ1 AAP,		
	Matal	
CVEQ1 WM		
	Metal rear enclosure, plastic faceplate	
Enclosure dimensions		
CVEQ1 AAP		
Plate	1 4" H x 3 5" W x 0 1" D	
1 1010	(2.8 cm H x 8.9 cm W x 0.3 cm D)	
	(double space high AAP plate)	
Circuit board		
	(2.8 cm H x 6.9 cm W x 4.3 cm D)	
	(Height includes connectors, but not cables.)	
CVEQ1 WM	,	
Plate	45" H x 28"W x 0 1" D	
	(11.4 cm H x 7.1 cm W x 0.3 cm D) (1 gang)	
Circuit board		
	(6.9 cm H x 2.8 cm W x 4.3 cm D)	
	(Width includes connectors, but not cables.)	
CVEQ 100	1.0" H x 4.3" W x 3.0" D (<1U high, quarter rack wide)	
	2.5 cm H x 11.0 cm W x 7.6 cm D	
	(Depth excludes connectors.)	
CVEQ 100 D	popul orolados solilisotoros j	
	0 C"	
racepiate	2.6" H* x 1.3" W x 0.1" D (6.6 cm H* x 3.3 cm W x 0.3 cm D)	
	(Fits the opening in a 1 gang Decora faceplate. *Height is 3.8" [9.7 cm]	
	including mounting tabs.)	
Device	2.7" H x 1.8" W x 0.75" D (6.9 cm H x 4.6 cm W x 1.9 cm D)	
	(Depth excludes connectors, height excludes mounting tabs.)	
Product weight		
CVEQ1 AAP, CVEQ 100 D	0.2 lhs (0.1 km)	
CVEQ1 WM		
CVEQ 100	U.7 IDS (U.3 Kg)	
Shipping weight		
CVEQ 100 D, CVEQ1 AAP		
CVEQ 100, CVEQ1 WM	3 lbs (2 kg)	
	ISTA 1A in carton (International Safe Transit Association)	
Listings		
	OL, OOL	
Compliances	OF F00 01 A	
CVEQ1 AAP, CVEQ1 WM		
	CE, FCC Class A, VCCI, AS/NZS, ICES	
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.		

AUDIO OUTPUT



AUDIO INPUT

Nominal level ...

Maximum level

Number/signal type 1 stereo unbalanced Connectors 2 RCA female

Impedance
CVEQ1 AAP, CVEQ1 WM >10k ohms unbalanced, DC coupled

CVEQ1 AAP, CVEQ1 WM +6 dBV, balanced at 1% THD+N CVEQ 100 Series. +8 dBV (2.5 V), unbalanced at 1% THD+N

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

..... -10 dBV (316 mVrms)