

CVEQ 100 D

SVEQ 100 D

VIDEO AND AUDIO LINE DRIVERS WITH
GAIN AND EQUALIZATION - DECORA® WALLPLATES

- Drives composite video or S-video up to 1,000 feet (300 meters) on Extron RG59 or equivalent cable
- Drives audio up to 1,000 feet (300 meters) on Extron Shielded Twisted Pair or equivalent cable
- Independent video gain and EQ adjustment
- Selectable mono or stereo audio output
- Active audio buffering
- Quad standard for worldwide compatibility
- Mounted in included Decora-style wall plate



CVEQ 100 D



SVEQ 100 D

The Extron CVEQ 100 D and SVEQ 100 D are high performance one input, one output video and audio line drivers. They are capable of driving composite video or S-video and audio signals 1,000 feet (300 meters). The CVEQ 100 D and SVEQ 100 D are housed in Decora-style wall plates that are suited for permanent, in-wall installations in auditoriums, boardrooms, lecture halls, and other applications where video signals must be routed over long distances.



Extron® Electronics

www.extron.com

DESCRIPTION

The CVEQ 100 D and SVEQ 100 D are one input, one output, high-performance line drivers for composite video and S-video, respectively, and stereo audio. They are ideal for permanent, in-wall installations in auditoriums, boardrooms, lecture halls, and other applications where video signals must be routed over long distances.

The CVEQ 100 D and SVEQ 100 D feature independent gain and EQ adjustments, which compensate for signal losses due to long cable runs, and offer optimum signal quality regardless of cable length. The gain control allows for brightness adjustment by varying the overall voltage of the signal. With the SVEQ 100 D, gain for the luminance and chrominance channels is separately controlled. The EQ control helps maintain sharpness and high frequency detail.

Both products feature active audio buffering-which converts unbalanced audio signals to balanced line level and simplifies integration of consumer-grade A/V products in commercial or professional-grade systems. Balanced audio signals are less susceptible to noise, and due to the inherent +6 dB signal gain, allow for cable runs up to 1,000 feet (300 meters).

The CVEQ 100 D and SVEQ 100 D come standard with both black and white face plates and trim plates.

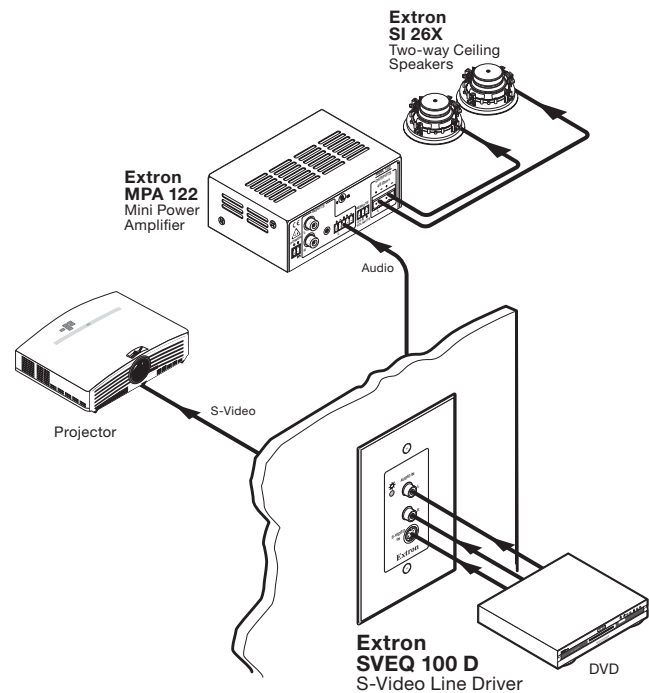
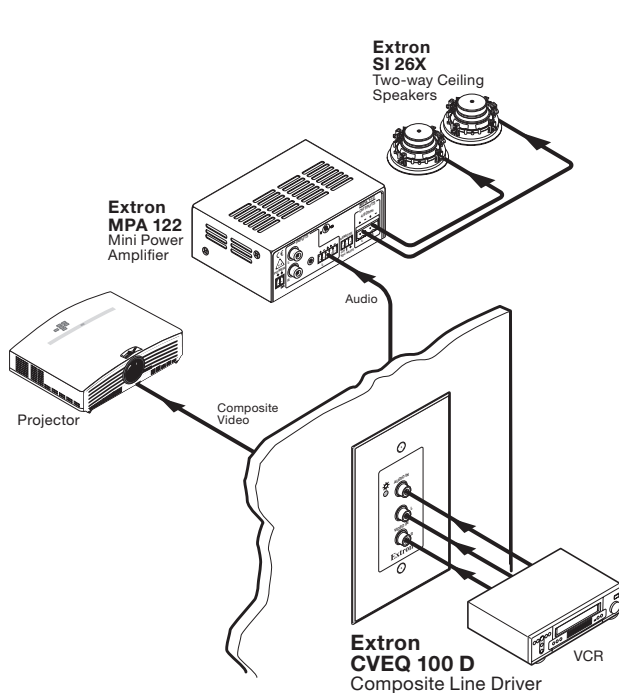
FEATURES

- **Long distance line driver** – Drives video and audio signals up to 1000 feet (300 meters) over standard coax and shielded twisted pair cables.
- **Adjustable video gain control** – Compensates for signal voltage losses due to cable resistance.
- **Selectable Mono and Stereo Audio Output** – Either stereo or dual mono may be selected.
- **Adjustable Video EQ control** – Compensates for loss of sharpness and high frequency detail due to cable capacitance.
- **Active Audio Buffering** – Converts unbalanced audio signals to balanced line level signals.
- **Mounts in an included Decora-style wall plate**
- **External, international power supply** – Provides worldwide power compatibility.

I/O Connectivity

MODEL	INPUTS		OUTPUTS	
	Video	Audio	Video	Audio
CVEQ 100 D	Composite RCA (1)	Unbal. RCA (2)	Composite BNC (1)	Bal./Unbal. 3.5 mm captive screw (1)
SVEQ 100 D	S-video 4-pin mini DIN (1)	Unbal. RCA (2)	S-Video BNC (2)	Bal./Unbal. 3.5 mm captive screw (1)

APPLICATION DIAGRAMS

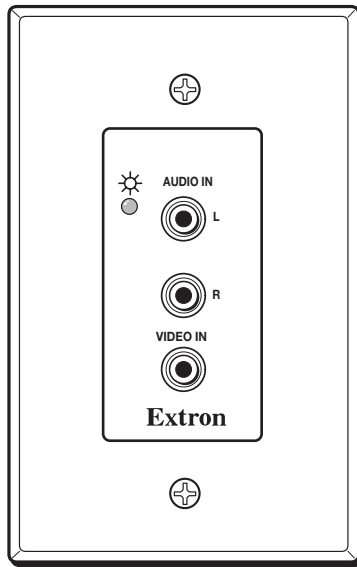


VIDEO	
Gain	Composite video and Y of S-video: -1 dB to +3 dB (x0.9 to x1.4), adjustable C of S-video: 0dB to +10 dB (x1 to x3), adjustable
Equalization	0 dB to +7 dB (x1 to x2) at 5 MHz, adjustable
Bandwidth (Y of S-video)	185 MHz (-3 dB)
Output cable driving distance	Up to 1000' (300 m) with Extron MHR cable
VIDEO INPUT	
Number/signal type	
CVEQ 100 D	1 composite video
SVEQ 100 D	1 S-video
Connectors	
CVEQ 100 D	1 female RCA
SVEQ 100 D	1 female 4-pin mini DIN
Nominal level.....	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	
CVEQ 100 D	0.4 to 2.0 Vp-p with no offset at unity gain
SVEQ 100 D	For Y: 0.4 to 2.0 Vp-p with no offset at unity gain
Impedance	75 ohms
Return loss	<-25 dB @ 0 to 5 MHz
DC offset (max. allowable).....	4.0 V
Input coupling	AC
VIDEO OUTPUT	
Number/signal type	
CVEQ 100 D	1 composite video
SVEQ 100 D	1 S-video
Connectors	
CVEQ 100 D	1 female BNC
SVEQ 100 D	2 female BNC
Nominal level.....	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.4 to 2.0 Vp-p (follows input)
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	±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	Unbal. output: 0 dB; bal. output: +6 dB
Frequency response	20 Hz to 20 kHz, +0.05 dB, -0.0 dB
THD + Noise	0.015% @ 1 kHz at nominal level
S/N	>100 dB at maximum output (unweighted)
Stereo channel separation	>80 dB @ 1 kHz
Output cable driving distance	Up to 1000' (300 m) with Extron RG-6 SHR cable
AUDIO INPUT	
Number/signal type	1 stereo, unbalanced
Connectors	2 RCA female
Impedance	20k ohms unbalanced, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Maximum level	+8 dBV (2.5 V), unbalanced at 1% THD+N
NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu	
AUDIO OUTPUT	
Number/signal type	1 stereo or dual mono (switch-selectable), balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced

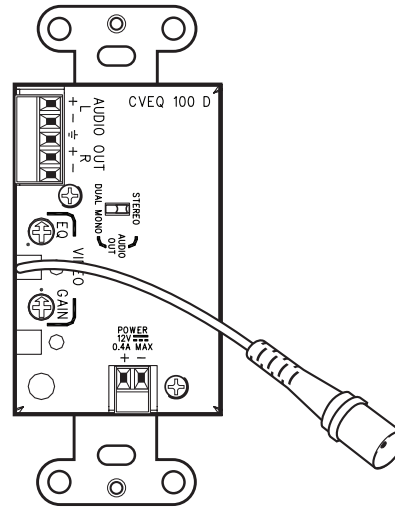
Nominal level	-10 dBV (316 mVrms), unbalanced; -2 dBu (632 mV), balanced output	
Maximum level	+8 dBV (2.5 V) unbalanced, +14 dBu (5.6 V) balanced at 1% THD+N with a 10k ohm load	
GENERAL		
External power supply.....	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated	
Power input requirements.....	12 VDC, 0.2 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	
Cooling.....	Convection, unvented	
Rack mount	No, but wall- and furniture mountable.	
Enclosure type	Metal rear enclosure, plastic faceplate	
Enclosure dimensions		
Faceplate	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	0.2 lbs (0.1 kg)	
Shipping weight	2 lbs (1 kg)	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Listings	UL, CUL	
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES	
MTBF	30,000 hours	
Warranty	3 years parts and labor	
NOTE: All nominal levels are at ±10%.		
Model	Version Description	Part Number
CVEQ 100 D	Video and Audio Line Driver - Decora	60-867-01
SVEQ 100 D	S-video and Audio Line Driver - Decora..	60-868-01

Specifications are subject to change without notice.

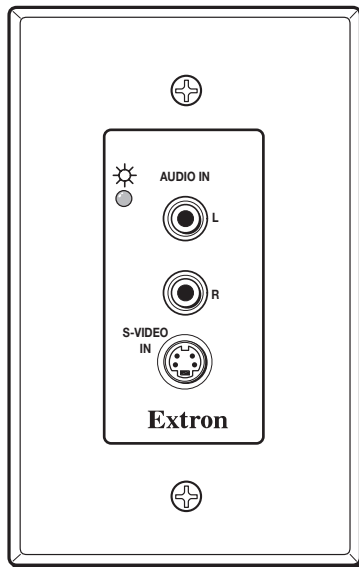
PANEL DRAWINGS



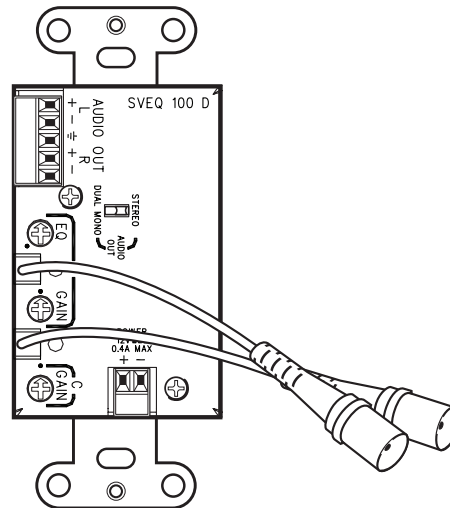
CVEQ 100 D - Front



CVEQ 100 D - Back



SVEQ 100 D - Front



SVEQ 100 D - Back



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