

CVEQ 100 Series SVEQ 100 Series

VIDEO AND AUDIO LINE DRIVERS
WITH GAIN AND EQUALIZATION



SVEQ 100 D



CVEQ 100



CVEQ 100 MAAP

SVEQ 100 AAP

- Drives composite video or S-video up to 1000' (300 m) on Extron MHR or equivalent cable
- Drives stereo audio up to 1000' (300 m) on Extron STP or equivalent cable
- Independent gain and EQ adjustment
- Buffers and balances audio input
- Compatible with NTSC, PAL, and SECAM
- Choice of tabletop / rack-mount, wall mount, or architectural mount versions
- External universal power supply included

The Extron CVEQ 100 Series and SVEQ 100 Series are high performance one input, one output video and audio line drivers. They are capable of driving composite video or S-video plus stereo audio signals 1000' (300 m) or more using standard video and audio cables. The CVEQ 100 Series and SVEQ 100 Series are available in tabletop / rack-mount, wall mount, and architectural mount versions that provide flexibility of integration in both permanent and temporary applications.



Extron® Electronics

www.extron.com

DESCRIPTION

The **CVEQ 100 Series** and **SVEQ 100 Series** are one input, one output, high-performance line drivers for composite video and S-video, respectively, and stereo audio. They are ideal for applications in which video and audio signals must be routed over long distances.

The CVEQ 100 Series and SVEQ 100 Series feature independent gain and EQ adjustments which compensate for signal losses due to long cable runs. The gain control compensates for signal voltage losses due to cable resistance, and allows for brightness adjustment by varying the overall voltage of the signal. EQ, or Equalization, compensates for loss of sharpness and high frequency detail due to cable capacitance. Both gain and EQ condition the video signal, offering optimum picture quality regardless of cable length.

All models 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' (300 m).

The CVEQ 100 Series and SVEQ 100 Series are available in a variety of form factors to fit different needs. The CVEQ 100 and SVEQ 100 are housed in quarter-rack width metal enclosures which are perfect for rack or tabletop mounting in both permanent or rental and staging applications. The Decora-mount CVEQ 100 D and SVEQ 100 D provide an attractive, wall-mountable solution for environments such as auditoriums, boardrooms, and lecture halls. The AAP - Architectural Adapter Plate and MAAP - Mini Architectural Adapter Plate versions mount easily in Cable Cubby® furniture-mountable access enclosures, HSA - Hideaway Surface Access enclosures, floor boxes, and similar applications.

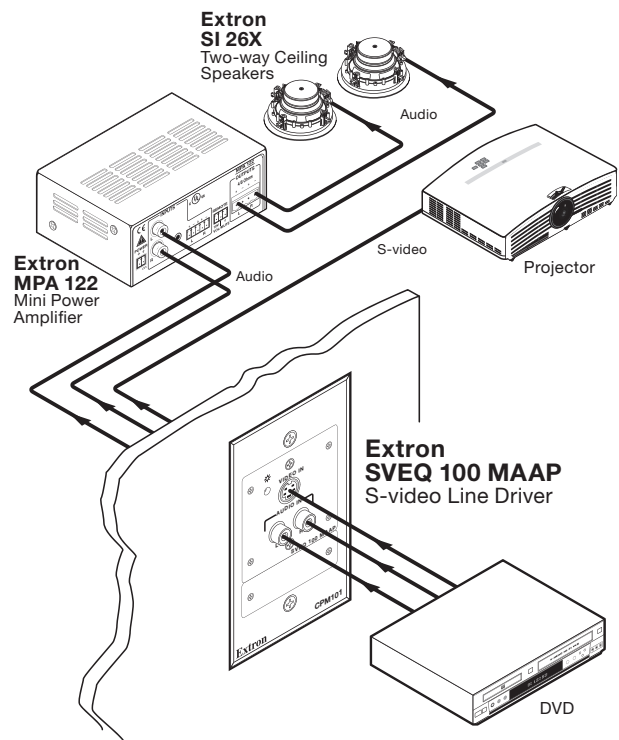
I/O CONNECTIVITY

Model	Inputs		Outputs	
	Video	Audio	Video	Audio
CVEQ 100	Composite BNC (1)	Unbalanced RCA (2)	Composite BNC (1)	Bal./Unbal. 3.5 mm captive screw (1)
SVEQ 100	S-Video BNC (2)	Unbalanced RCA (2)	S-Video BNC (2)	Bal./Unbal. 3.5 mm captive screw (1)
CVEQ 100 D	Composite RCA (1)	Unbalanced RCA (2)	Composite BNC (1)	Bal./Unbal. 3.5 mm captive screw (1)
SVEQ 100 D	S-video 4-pin mini DIN (1)	Unbalanced RCA (2)	S-Video BNC (2)	Bal./Unbal. 3.5 mm captive screw (1)
CVEQ 100 AAP/MAAP	Composite RCA (1)	Composite RCA (2)	Composite BNC (1)	Bal./Unbal. 3.5 mm captive screw (1)
SVEQ 100 AAP/MAAP	S-video 4-pin mini DIN (1)	Unbalanced RCA (2)	S-Video BNC (2)	Bal./Unbal. 3.5 mm captive screw (1)

FEATURES

- **Long distance video line driver** – Drives composite video or S-video up to 1000' (300 m) on Extron MHR or equivalent cable.
- **Long distance audio line driver** – Drives stereo audio up to 1000' (300 m) on Extron STP or equivalent cable.
- **Adjustable gain control** – Compensates for signal voltage losses due to cable resistance.
- **Adjustable EQ control** – Compensates for loss of sharpness and high frequency detail due to cable capacitance.
- **Buffers and balances audio input** – Converts unbalanced audio signals to balanced line level signals.
- **Selectable stereo or dual mono audio output - on all models except CVEQ 100 and SVEQ 100** – Choice of stereo audio or actively-summed L+R mono audio on both outputs simplifies integration in program and distributed audio system designs.
- **Compatible with NTSC, PAL, and SECAM**
- **Choice of tabletop / rack-mount, wall mount, or architectural mount versions**
- **External universal power supply included** – Provides worldwide power compatibility.

APPLICATION DIAGRAM

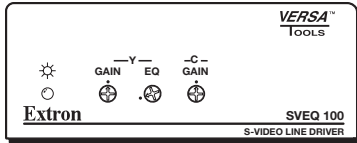


VIDEO	
Gain	Composite video and Y of S-video: -1 dB to +3 dB (x0.9 to x1.4), adjustable C of S-video: 0 dB to +10 dB (x1 to x3), adjustable
Equalization	0 dB to +7 dB (x1 to x2) at 5 MHz, adjustable
Bandwidth (Y of S-video)	185 MHz (-3 dB)
Output cable driving distance	Up to 1000' (300 m) with Extron MHR cable
VIDEO INPUT	
Number/signal type	1 composite video
CVEQ 100 Series	1 composite video
SVEQ 100 Series	1 S-video
Connectors	1 female BNC
CVEQ 100	1 female BNC
CVEQ 100 D, CVEQ 100 AAP, CVEQ 100 MAAP	1 female RCA
SVEQ 100	2 female BNC
SVEQ 100 D, SVEQ 100 AAP, SVEQ 100 MAAP	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	0.4 to 2.0 Vp-p with no offset at unity gain
CVEQ 100 Series	For Y: 0.4 to 2.0 Vp-p with no offset at unity gain
SVEQ 100 Series	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	1 composite video
CVEQ 100 Series	1 composite video
SVEQ 100 Series	1 S-video
Connectors	1 female BNC
CVEQ 100	1 female BNC attached via 4" pigtail
CVEQ 100 D, CVEQ 100 AAP, CVEQ 100 MAAP	2 female BNC
SVEQ 100	2 female BNC attached via 4" pigtails
SVEQ 100 D, SVEQ 100 AAP, SVEQ 100 MAAP	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Nominal level	0.4 to 2.0 Vp-p (follows input)
Minimum/maximum levels	75 ohms
Impedance	-30 dB @ 5 MHz
Return loss	±5 mV with no input signal
DC offset	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	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 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 dBu (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, balanced/unbalanced
CVEQ 100, SVEQ 100	1 stereo or dual mono (switch-selectable), balanced/unbalanced
All other models	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	+9 dBV (2.8 V) unbalanced, +17 dBu (5.6 V) balanced at 1% THD+N with a 10k ohm load

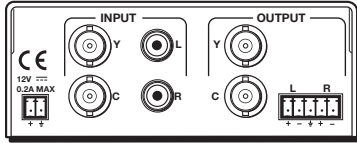
External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated	
Power input requirements	12 VDC, 0.2 A	
Cooling	Convection, no vents	
Mounting		
Rack mount		
CVEQ 100, SVEQ 100	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, part #60-190-01; RSB 129, 60-604-01); or 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10); or VersaTools® 3.5" deep rack shelf (RSF 123, #60-190-20; RSB 129, 60-604-20).	
All other models	No, but wall or furniture mountable	
Furniture mount		
CVEQ 100, SVEQ 100	Yes, with optional mounting kits	
CVEQ 100 D, SVEQ 100 D	Yes, directly, or with a standard electrical wall box or mud ring	
All other models	Yes, with optional AAP or MAAP mounting faceplates	
Enclosure type		
CVEQ 100, SVEQ 100	Metal	
CVEQ 100 D, SVEQ 100 D	Metal rear enclosure, plastic faceplate	
CVEQ 100 AAP, SVEQ 100 AAP	Metal faceplate, open at rear	
CVEQ 100 MAAP, SVEQ 100 MAAP	Metal faceplate, metal rear enclosure	
Enclosure dimensions		
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.)	
SVEQ 100	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 11.0 cm W x 7.6 cm D) (Depth excludes connectors.)	
CVEQ 100 D, SVEQ 100 D		
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" [9.5 cm], including mounting tabs.) (Depth excludes connectors.)	
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.)	
CVEQ 100 AAP, SVEQ 100 AAP		
Faceplate	1.4" H x 3.5" W x 0.1" D (3.6 cm H x 7.1 cm W x 0.3 cm D) (double space high AAP plate)	
Device	1.1" H x 2.8" W x 1.2" D (2.8 cm H x 7.0 cm W x 3.0 cm D) (Depth excludes connectors.)	
CVEQ 100 MAAP, SVEQ 100 MAAP		
Faceplate	2.1" H x 2.2" W x -1" D (5.3 cm H x 5.7 cm W x 0.3 cm D) (three space MAAP plate)	
Device	2.0" H x 1.4" W x 1.2" D (5 cm H x 3.6 cm W x 3.0 cm D) (Depth excludes connectors.)	
Product weight		
CVEQ 100, SVEQ 100	0.7 lbs (0.3 kg)	
All other models	0.2 lbs (0.1 kg)	
Shipping weight		
CVEQ 100, SVEQ 100	3 lbs (2 kg)	
All other models	2 lbs (1 kg)	
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	Composite video and audio line driver	60-812-01
SVEQ 100	S-video and audio line driver	60-813-01
CVEQ 100 D	Decora Wallplate	60-867-01
SVEQ 100 D	Decora Wallplate	60-868-01
CVEQ 100 AAP	AAP Module - Black	70-663-02
CVEQ 100 AAP	AAP Module - White	70-663-03
SVEQ 100 AAP	AAP Module - Black	70-664-02
SVEQ 100 AAP	AAP Module - White	70-664-03
CVEQ 100 MAAP	MAAP Module - Black	70-667-02
CVEQ 100 MAAP	MAAP Module - White	70-667-03
SVEQ 100 MAAP	MAAP Module - Black	70-668-02
SVEQ 100 MAAP	MAAP Module - White	70-668-03

Specifications are subject to change without notice.

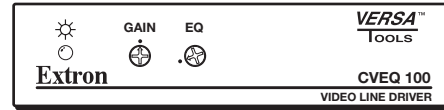
PANEL DRAWINGS



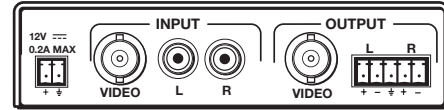
SVEQ 100 - Front



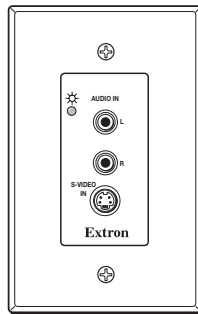
SVEQ 100 - Back



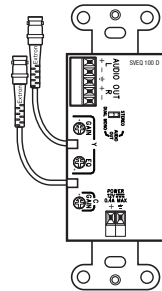
CVEQ 100 - Front



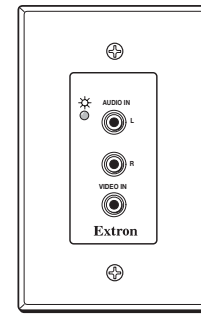
CVEQ 100 - Back



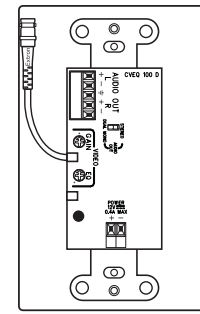
SVEQ 100 D - Front



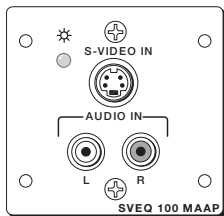
SVEQ 100 D - Back



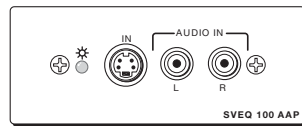
CVEQ 100 D - Front



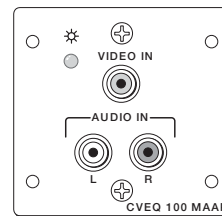
CVEQ 100 D - Back



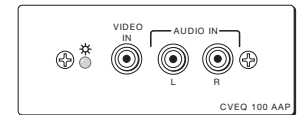
SVEQ 100 MAAP - Front



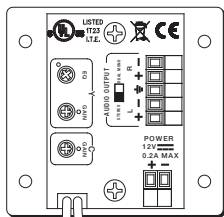
SVEQ 100 AAP - Front



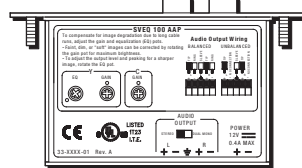
CVEQ 100 MAAP - Front



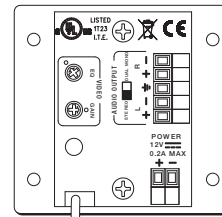
CVEQ 100 AAP - Front



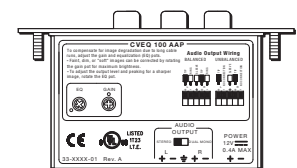
SVEQ 100 MAAP - Back



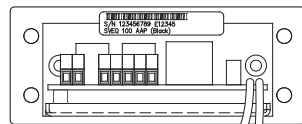
SVEQ 100 AAP - Top



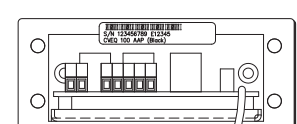
CVEQ 100 MAAP - Back



CVEQ 100 AAP - Top



SVEQ 100 AAP - Back



CVEQ 100 AAP - Back



Extron **USA - West**
Headquarters
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Inside USA / Canada Only
+1.714.491.1500
+1.714.491.1517 FAX

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+800.633.9876
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