

Specifications — SW 4/6/8/12AV Series Switchers

Video

Gain	Unity
Bandwidth	
Composite video 4, 6, and 8 input models	300 MHz (-3 dB)
S-video models and composite video 12 input models	250 MHz (-3 dB)
Crosstalk	<-60 dB @ 5 MHz
Switching speed	<20 ms (max.)

Video input

Number/signal type	
SW 6/8/12V, SW 4/6/8/12AV/AV RCA, SW 6/8/12A/A RCA	4, 6, 8, or 12 (depending on the model) composite video
SW 6/8/12 SV, SW 4/6/8/12SVA/SVA RCA	4, 6, 8, or 12 (depending on the model) S-video
Connectors	
SW 6/8/12V, SW 4/6/8/12AV/AV RCA, SW 6/8/12A/A RCA	4, 6, 8, or 12 (depending on the model) BNC female
SW 6/8/12 SV, SW 4/6/8/12SVA/SVA RCA	4, 6, 8, or 12 (depending on the model) 4-pin mini DIN female
Nominal level	1 V _{p-p} for Y of S-video, and for composite video 0.3 V _{p-p} for C of S-video
Minimum/maximum levels	0.4 V to 2.0 V _{p-p} with no offset
Impedance	75 ohms
Return loss	<-29 dB @ 0 to 10 MHz
DC offset (max. allowable)	5.0 V

Video output

Number/signal type	
Composite video models .	2 buffered composite video
S-video models	1 buffered S-video, 1 buffered composite video
Connectors	
Composite video models .	2 BNC female
S-video models	1 BNC female, (1) 4-pin mini DIN
Nominal level	1 V _{p-p} for Y of S-video, and for composite video 0.3 V _{p-p} for C of S-video
Minimum/maximum levels	0.4 V to 2.0 V _{p-p} (follows input)
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	±5 mV with input at 0 offset
Switching type	Vertical interval switching

Sync

Genlock connectors	2 BNC female (1 input, 1 loop-through)
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM

Audio

Gain	Adjustable
	When gain is set to unity (0 dB), balanced output from captive screw connectors or unbalanced output from RCA connectors will have a 0 dB gain; unbalanced output from captive screw connectors will be attenuated by 6 dB.
Frequency response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	<0.04% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)

Audio input

Number/signal type

SW 6/8/12V, SW 4/6/8/12AV, SW 6/8/12 SV, SW 4/6/8/12SVA, SW 6/8/12A
4, 6, 8, or 12 (depending on the model) stereo, balanced/unbalanced

SW 4/6/8/12AV RCA, SW 4/6/8/12SVA RCA, SW 6/8/12A RCA
4, 6, 8, or 12 (depending on the model) stereo, unbalanced

Connectors

SW 6/8/12V, SW 4/6/8/12AV, SW 6/8/12 SV, SW 4/6/8/12SVA, SW 6/8/12A
4, 6, 8, or 12 (depending on the model) 3.5 mm captive screw connectors, 5 pole

SW 4/6/8/12AV RCA, SW 4/6/8/12SVA RCA, SW 6/8/12A RCA
8, 12, 16, or 24 (depending on the model) RCA female

Impedance

RCA models 12k ohms unbalanced, DC coupled

All other models 25k ohms unbalanced, 50k ohms balanced, DC coupled

Nominal level +4 dBu (1.23 Vrms), -10 dBV (316 mVrms), configurable

Maximum level >+15 dBu, (balanced or unbalanced) at 1% THD+N

Input gain adjustment -18 dB to +24 dB, adjustable per input

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu.

Audio output

Number/signal type

SW 6/8/12V, SW 4/6/8/12AV, SW 6/8/12 SV, SW 4/6/8/12SVA, SW 6/8/12A
2 stereo, balanced/unbalanced

SW 4/6/8/12AV RCA, SW 4/6/8/12SVA RCA, SW 6/8/12A RCA
1 stereo, unbalanced
1 stereo, balanced/unbalanced

Connectors

SW 6/8/12V, SW 4/6/8/12AV, SW 6/8/12 SV, SW 4/6/8/12SVA, SW 6/8/12A
(2) 3.5 mm captive screw connectors, 5 pole

SW 4/6/8/12AV RCA, SW 4/6/8/12SVA RCA, SW 6/8/12A RCA
2 RCA female
(1) 3.5 mm captive screw connector, 5 pole

Impedance 50 ohms unbalanced, 100 ohms balanced

Gain error ±0.1 dB channel to channel

Nominal level +4 dBu (1.23 Vrms), -10 dBV (316 mVrms), configurable

Maximum level (Hi-Z) >26 dBu, balanced; >+20 dBu, unbalanced at 1% THD+N

Maximum level (600 ohm) >21 dBm, balanced; >+15 dBm, unbalanced at 1% THD+N

Control/remote — switcher

Serial control port RS-232, 9-pin female D connector (also used for contact closure for 4- and 6-input models)

Baud rate and protocol 9600 baud, 8 data bits, 1 stop bit, no parity

Serial control pin configurations 2 = TX, 3 = RX, 5 = GND

Contact closure (SW 4/6 ___) (1) 9-pin female D connector (also used for RS-232)

Contact closure pin configurations (SW 4/6 ___ models only)
1 = input 1, 4 = input 2, 5 = GND, 6 = input 3, 7 = input 4, 8 = input 5, 9 = input 6

IR controller module Extron IR 102 kit (optional)

Program control Extron's control/configuration program for Windows®
Extron's Simple Instruction Set (SIS™)

General

Power 100 VAC to 240 VAC, 50/60 Hz, 20 watts, internal, autoswitchable

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

Specifications — SW 4/6/8/12AV Series Switchers (continued)

Rack mount	Yes, with included brackets, part #70-077-03. Also under-desk mountable with optional kit #70-222-01.
Enclosure type	Metal
Enclosure dimensions	1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6 cm D (Depth excludes connectors.)
Product weight	7.0 lbs (3.2 kg)
Shipping weight	10 lbs (5 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 $\pm 10\%$

NOTE Specifications are subject to change without notice.

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