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Find the *Extron SW6 RGBHV* at our website: *Click HERE*

SW6 RGBHV

Six-Input RGBHV Switcher

Key Features

- 350 MHz (-3 dB) RGB video bandwidth
- Compatible with RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, and composite video signals
- Automatically detects which inputs have an active signal and reports this information through the RS-232 port
- Auto-input switching
- RS-232 control
- Contact closure remote control



MODEL	VERSION DESCRIPTION	PART #	
SW6 RGBHV	Six Input RGBHV	60-493-01	
SW2 RGBHV	Two Input RGBHV	60-491-01	Retired
SW2 RGBHV A	Two Input RGBHV & Audio	60-491-21	Retired
SW4 RGBHV	Four Input RGBHV	60-492-01	Retired
SW4 RGBHV A	Four Input RGBHV & Audio	60-492-21	Retired
SW6 RGBHV A	Six Input RGBHV & Audio	60-493-21	Retired

The Extron **SW6 RGBHV** is a high performance, six input RGBHV switcher using BNC connectors. The switcher allows multiple RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, or composite video sources to be switched to one compatible display device. With 350 MHz (-3 dB) RGB video bandwidth, it supports a wide array of high resolution signals.The SW6 RGBHV provides multiple control options including front panel, RS-232, contact closure, and auto-input switching. The auto-input switch function can be enabled or disabled via a toggle switch on the back panel. The SW6 RGBHV is housed in a 1U, rack-mountable metal enclosure and ships with rack ears.

The SW6 RGBHV can be controlled through a 9-pin remote control port which enables RS-232 control, as well as contact closure control. It is also compatible with the Extron KP 6 Keypad Remote Control and the Extron IR 102 Kit IR remote.

Features

- **Inputs: Six sets of female BNC connectors**
- **Output: One set of female BNC connectors**
- **350 MHz (-3 dB) RGB video bandwidth**
- **Compatible with RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, and composite video signals**

- **Automatically detects which inputs have an active signal and reports this information through the RS-232 port**
- **Auto-input switching** — Automatically switches to the highest-numbered input with an active video signal.
- **RS-232 control**
- **Contact closure remote control**
- **Rack-mountable 1U metal enclosure**
- **Highly reliable, energy-efficient internal universal power supply** — The 100-240 VAC, 50/60 Hz, international power supply provides worldwide power compatibility with high demonstrated reliability.

INCLUDED ACCESSORIES

MBD 149 (SW4/6)	1U, Full Rack Width, Rack Mount and Through-Desk Kit for Four-Piece Enclosure	70-077-03

OPTIONAL ACCESSORIES

RSU 129	Universal Rack Shelf Kit for 9.5" Deep Products
MBU 125	Low-Profile Mount Kit for 1/4 and 1/2 Rack Width, Two-Piece Enclosures
CCR 204	Four-Button Contact Closure Remote
KP 6	Keypad Remote Control
IR 102 Remote Control Kit	IR to RS-232 or Contact Closure Conversion Kit
RCAF-BNCM	RCA Female to BNC Male Adapter
CSR 6	Captive Screw to RCA Female Audio Adapter

Specifications

SW2/4/6 RGBHV and SW2/4/6 RGBHV A

Video	
Gain	Unity.
Bandwidth	350 MHz (-3 dB)
Crosstalk	-70 dB @ 10 MHz
Switching speed	5 ms (max.)
Video input	
Number/signal type	
SW2 RGBHV/RGBHV A	2 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio)
SW4 RGBHV/RGBHV A	4 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio)
SW6 RGBHV/RGBHV A	6 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio)
Connectors	
SW2 RGBHV/RGBHV A	2 x 5 female BNC
SW4 RGBHV/RGBHV A	4 x 5 female BNC
SW6 RGBHV/RGBHV A	6 x 5 female BNC

Nominal level	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance	75 ohms
Return loss	<-30 dB @ 10 MHz
DC offset (max. allowable)	5.0V
Input coupling	DC

Video output

Number/signal type	1 RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (or digital audio)
Connectors	5 female BNC
Nominal level	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.5 V to 1.5 Vp-p (follows input)
Impedance	75 ohms
Return loss	<-30 dB @ 10 MHz
DC offset	±5 mV maximum with input at 0 offset

Sync

Input type	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync
Output type	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync
Input level	Analog or TTL, 0.5 V to 5.0 Vp-p
Output level	5.0 Vp-p, unterminated, for V output; H output follows input
Input impedance	510 ohms for V input and unselected H input; the selected H input impedance is determined by the device connected to the H output.
Output impedance	75 ohms for V output; the H output impedance is determined by the device connected to the selected H input.
Max. input voltage	5.0 Vp-p
Max. propagation delay	35 ns
Max. rise/fall time	4 ns
Polarity	Positive or negative (follows input)

Audio — SW 2/4/6 RGBHV A only

Gain	-18 to +24 dB, adjustable When audio gain is set to unity (0 dB), balanced output will have a 0 dB gain; unbalanced output will be attenuated by 6 dB.
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>90 dB at maximum output
Crosstalk	<-65 dB @ 20 kHz, <-80 dB @ 1 kHz or below 60 Hz
Stereo channel separation	>80 dB @ 20 Hz to 20 kHz
CMRR	>75 dB @ 20 Hz to 20 kHz

Digital audio — all models' H channel

Input type	Dolby® Digital, DTS, AES/EBU
Output type	Dolby Digital, DTS, AES/EBU

Bandwidth	250 MHz (-3 dB)
Sampling rates	32, 44.1, 48, 96 kHz
Input level	0.5 V to 5.0 Vp-p
Output level	2.5 Vp-p (when terminated with 75 ohms)
Input impedance	510 ohms for unselected inputs; for the selected input, impedance is determined by the device connected to the output
Output impedance	Determined by the device connected to the selected input
Max. input voltage	5.0 Vp-p
Max. propagation delay	35 ns
Max. rise/fall time	4 ns

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

Audio input — SW 2/4/6 RGBHV A only

Number/signal type	2, 4, or 6 (depending on the model) stereo, balanced/unbalanced
Connectors	2, 4, or 6 (depending on the model) 3.5 mm captive screw connectors, 5 pole
Impedance	>10k ohms unbalanced, 20k ohms balanced, DC coupled
Nominal level	-20 dBV (100 mVrms), -10 dBV (316 mVrms), 0 dBu (0.775 Vrms), or +4 dBu (1.23 Vrms), configurable
Maximum level	+20 dBu, (balanced or unbalanced) at 1% THD+N
Input gain adjustment	-24 dB to +18 dB, adjustable per input
Input coupling	DC

Audio output — SW 2/4/6 RGBHV A only

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 50 ohms balanced
Nominal level	-10 dBV (316 mV) or +4 dBu (1.23 V), 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, female 9-pin D connector (same as the contact closure port)
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	2 = TX, 3 = RX, 5 = GND
Contact closure	1 female 9-pin D connector (same as the RS-232 port)
Contact closure pin configuration	1 = input #1, 4 = input #2, 6 = input #3, 7 = input #4, 8 = input #5, 9 = input #6
Program control	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

General

Power	100 VAC to 240 VAC, 50-60 Hz, 20 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Cooling	Convection, no vents
Rack mount	
SW2 RGBHV, SW2 RGBHV A	Yes, with optional 1U deep rack shelf
All other models	Yes, with included mounting kit
Enclosure type	Metal

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Enclosure dimensions	
SW2 RGBHV, SW2 RGBHV A	1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors.)
All other models	1.75" H x 17.5" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.5 cm W x 21.6 cm D (Depth excludes connectors.)
Product weight	
SW2 RGBHV	2.4 lbs (1.1 kg)
SW2 RGBHV A	2.5 lbs (1.1 kg)
All other models	7.0 lbs (3.2 kg)
Shipping weight	
SW2 RGBHV, SW2 RGBHV A	5 lbs (3kg)
All other models	12 lbs (6 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

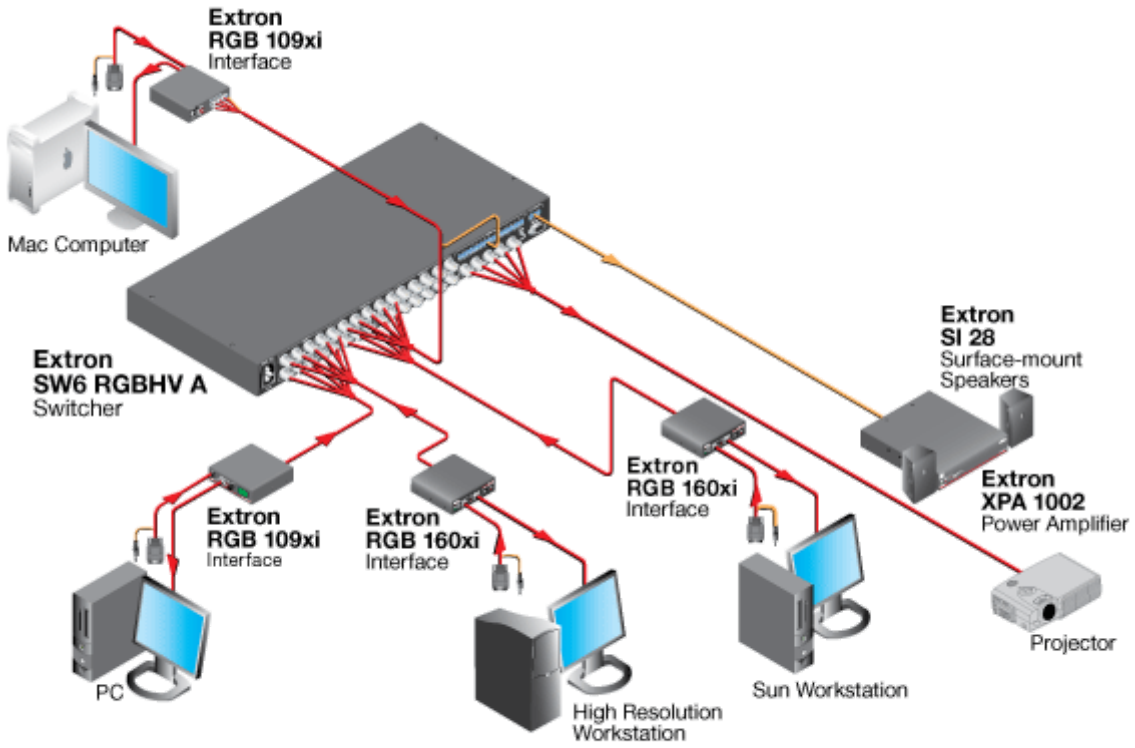
(7.6-102009-D6)

Shipping Dimensions and Weights

Part #	Height	Width	Depth	Weight
60-493-01	5.0" (12.7 cm)	13.0" (33.0 cm)	19.25" (48.9 cm)	7.29 lbs (3.31 kg)

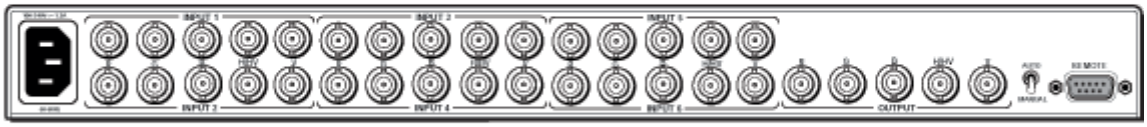
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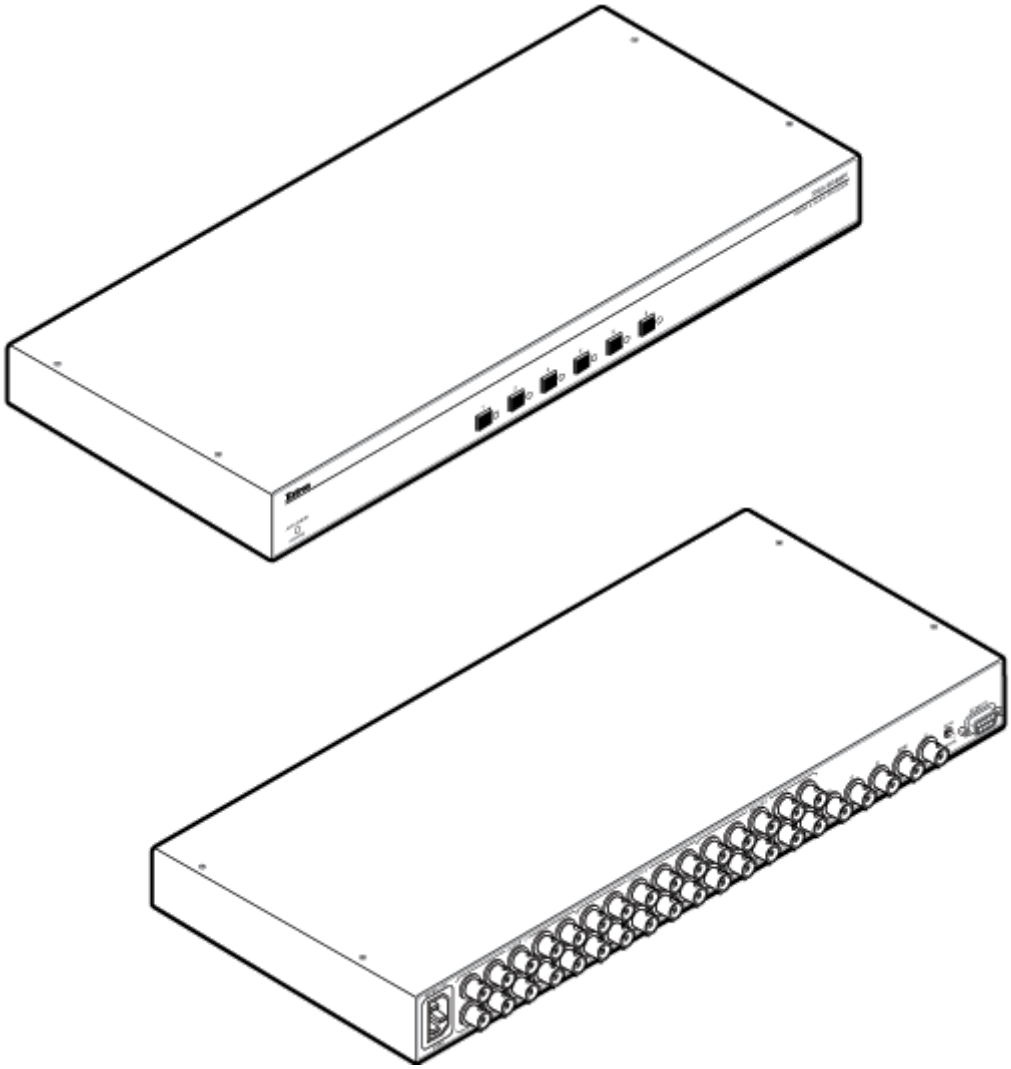
Diagram


Extron
RGB 109xi
Interface
Mac Computer
Extron
SW6 RGBHV A
Switcher
Extron
SI 28
Surface-mount
Speakers
Extron
XPA 1002
Power Amplifier
Extron
RGB 160xi
Interface
Extron
RGB 109xi
Interface
Extron
RGB 160xi
Interface
PC
High Resolution
Workstation
Sun Workstation
Projector

Panel Drawing







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