

# Specifications — SW8/12 VGA Ars

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## Video

Gain.....	Unity
Bandwidth.....	350 MHz (-3 dB)
Crosstalk.....	-68 dB @ 10 MHz

## Video input

Number/signal type.....	8 or 12 (depending on the model) VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV component video
Connectors .....	8 or 12 (depending on the model) female 15-pin HD
Nominal level .....	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 145 kHz
Vertical frequency.....	30 Hz to 170 Hz
Return loss.....	-40 dB @ 5 MHz
Input coupling.....	DC

## Video output

Number/signal type.....	2 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV component video (follows input type)
Connectors .....	(2) female 15-pin HD
Nominal level .....	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	0.3 V to 1.5 Vp-p (follows input)
Impedance.....	75 ohms
Return loss.....	-43 dB @ 5 MHz
DC offset.....	±5 mV 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 (follows input)
Input level .....	1.0 V to 5.0 Vp-p
Output level .....	TTL: 5.0 Vp-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. propagation delay .....	54 ns
Max. rise/fall time .....	4.7 ns
Polarity.....	Positive or negative (follows input)

## Audio

Gain.....	Unbalanced output: +0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, ±0.05 dB
THD + Noise.....	0.01% @ 1 kHz at nominal level
S/N.....	>90 dB at maximum output (unweighted)
Crosstalk.....	-45 dB @ 1 kHz, fully loaded
Stereo channel separation .....	>80 dB 1 kHz

## Audio input

Number/signal type.....	8 or 12 (depending on the model) stereo, unbalanced
Connectors .....	8 or 12 (depending on the model) 3.5 mm female stereo mini jacks; tip (L), ring (R), sleeve (Gnd)
Impedance.....	>10k ohms unbalanced, DC coupled

## Specifications — SW8/12 VGA Ars, cont'd

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Nominal level .....	-10 dBV (316 mV)
Maximum level.....	+14 dBV, (unbalanced) at 1% THD+N

**NOTE**  $0\text{ dBu} = 0.775\text{ Vrms}$ ,  $0\text{ dBV} = 1\text{ Vrms}$ ,  $0\text{ dBV} \approx 2\text{ dBu}$

### Audio output

Number/signal type.....	2 stereo, balanced/unbalanced: 1 fixed and 1 variable
Connectors .....	(2) 3.5 mm captive screw connectors, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Nominal level .....	+4 dBu (1.23 Vrms), balanced -10 dBV (316 mVrms), unbalanced
Variable output's volume range..	0 to 100 (-84 dB to 0 dB), default = 100 = 0 dB
Gain error .....	$\pm 0.1$ dB channel to channel
Maximum level (Hi-Z) .....	+28 dBu, balanced; +20 dBV, unbalanced at 1%THD+N
Maximum level (600 ohm).....	+21 dBm, balanced; +18 dBm, unbalanced at 1%THD+N

### Control/remote — switcher

Serial control port.....	RS-232, 9-pin female D connector
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations.	2 = TX, 3 = RX, 5 = GND
"Show Me" contact closure.....	Pin 5 of each VGA input connector. The input is active (selected) when pin 5 momentarily goes to ground.
Program control.....	Extron's Universal Switcher control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

### General

Power .....	100 VAC to 240 VAC, 50/60 Hz, 10 watts, internal
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, no vents
Mounting	
Rack mount.....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01)
Furniture mount.....	Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125), or through-desk mounting kit, part #70-077-02 (MBD 129)
Enclosure type .....	Metal
Enclosure dimensions.....	1.75" H x 17.5" W x 9.5" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 24.1 cm D) (Depth excludes connectors.)
Product weight .....	6.3 lbs (2.9 kg)
Shipping weight.....	11 lbs (5 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL, C-tick
EMI/EMC .....	CE, C-tick, FCC Class A, VCCI, 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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