

# Specifications — SDI-AVR 100, HDSDI-ACR 100

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## Video

Differential phase error .....	SDI-AVR 100: <1°
Differential gain error .....	SDI-AVR 100: <1%

## Video input and loop-through

Number/signal type	
SDI-AVR 100.....	1 SDI (4:2:2, SMPTE 259M-C)
HDSDI-ACR 100 .....	1 HDSDI (SMPTE 292M)

### Connectors

SDI-AVR 100.....	1 female BNC (SDI input)
	1 female BNC (SDI relocked loop-through)

**NOTE** *The equalization applied to the SDI-AVR 100's input signal is sufficient for an input coaxial cable length of at least 1000 feet (305 meters) of Extron SHR cable or Belden 8281 cable.*

HDSDI-ACR 100 .....	1 female BNC (HDSDI input)
	1 female BNC (HDSDI and relocked loop-through)

**NOTE** *The equalization applied to the HDSDI-ACR 100's input signal is sufficient for an input coaxial cable length of at least 330 feet (100 meters) of Extron SHR cable or Belden 8281 cable.*

Nominal level .....	0.8 Vp-p
Minimum/maximum levels .....	0.5 V to 1.0 Vp-p with no offset
Impedance .....	75 ohms
Return loss (SDI-AVR 100 only)	<-15 dB @ 0 MHz to 135 MHz
DC offset (max. allowable) .....	±0.5 V

## Video processing

Encoder .....	10 bit digital
Frequency response .....	Luminance: 0 to 5.75 MHz, ±0.5 dB
	Chroma: 0 to 2.75 MHz, ±0.5 dB
S/N .....	>70 dB
RGB matrix error .....	<1%

## Video signal characteristics — for color bar output on the SDI-AVR 100 only

Dot clock .....	27 MHz
Pixel clock accuracy .....	30 ppm

## Video output

Number/signal type	
SDI-AVR 100.....	1 composite video and 1 S-video, and 1 analog RGBHV/RGBS/RGsB or component video (Y, R-Y, B-Y) (switch selectable)
HDSDI-ACR 100 .....	1 analog RGBHV/RGBS/RGsB or component video (Y, R-Y, B-Y) (switch selectable)

### Connectors

SDI-AVR 100.....	1 female BNC (composite video)
	1 female 4-pin mini DIN (S-video)
	6 female BNC (RGB, component video)
HDSDI-ACR 100 .....	6 female BNC

#### Nominal levels

SDI-AVR 100 .....	Composite video: 1 Vp-p S-video: 1 Vp-p/luma, 0.3 Vp-p/chroma RGB: 0.7V Component video: Y = 1 Vp-p; R-Y, B-Y = 0.7 Vp-p
HDSDI-ACR 100 .....	RGB: 0.7 Vp-p Component video: Y = 1 Vp-p; R-Y, B-Y = 0.7 Vp-p

**NOTE** SDI-AVR 100 video output levels depend on the format selected (NTSC, PAL, Betacam).

Impedance .....	75 ohms
Return loss .....	-30 dB @ 5 MHz

#### Sync

Output type .....	RGBHV, RGBS, RGsB
Standards (SDI-AVR 100 only) ..	NTSC 3.58, PAL 4.43, Betacam
Output impedance .....	75 ohms
Max. rise/fall time .....	200 ns
Polarity	
SDI-AVR 100 .....	Negative
HDSDI-ACR 100 .....	Bi-level or tri-level sync (switch selectable) on the luma (Y) channel of component video output

#### General

Power .....	100 VAC to 240 VAC, 50/60 Hz, internal, autoswitchable
SDI AVR 100 .....	6 watts
HDSDI ACR 100 .....	10 watts
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
Rack mount .....	Yes, with optional rack shelf, part #60-190-01 or 60-604-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 8.75" W x 8.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 20.3 cm D (Depth excludes connectors.)
Product weight	
SDI AVR 100 .....	1.8 lbs (0.8 kg)
HDSDI ACR 100 .....	1.9 lbs (0.9 kg)
Shipping weight .....	4 lbs (2 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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