HDSDI-ACR 100

HD-SDI to Analog Component and RGB Converter



FEATURES

- Input: Female BNC for HD-SDI
- Output: Female BNCs for component video and RGB
- Accepts HD-SDI at 720p, 1080i, and 1080p rates at 24, 25, and 30 Hz
- 10-bit processing
- Auto input equalization and reclocked loop-through
- Outputs component video - Y, R-Y, B-Y or RGB - RGsB, RGBS, or RGBHV
- Bi-level or tri-level sync available for component video output
- Rack-mountable 1U, half rack width metal enclosure
- Internal international power supply

DESCRIPTION

The Extron **HDSDI-ACR 100** converts HD-SDI - High Definition Serial Digital Interface signals to analog component and RGB video. The HDSDI-ACR 100 is ideal for A/V systems that use a mix of analog and HD-SDI sources. The HDSDI-ACR 100 integrates HD-SDI sources into an analog video environment. Applications include presentations utilizing disk recorders, broadcast production, non-linear editing stations, and rental and staging events.

The HDSDI-ACR 100 accepts 720p, 1080i, and 1080p rates at 24, 25, and 30 Hz, and provides input equalization and a re-clocked loop-through. It outputs analog component, RGsB, RGBS, and RGBHV. Bi-level or tri-level sync can be selected when the unit is set for component output.

SPECIFICATIONS

VIDEO INPUT AND LOOP-THROUGH

Number / Signal type	1 HDSDI (SMPTE 292M)
Connectors	1 female BNC (HDSDI input) 1 female BNC (HDSDI and reclocked loop-through)

NOTE: The equalization applied to the 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
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 OUTPUT

Number / signal type	1 analog RGBHV/RGBS/RGsB or component video (Y, R-Y, B-Y) (switch selectable)
Connectors	6 female BNC
Nominal levels	RGB: 0.7 Vp-p Component video: Y = 1 Vp-p; R-Y, B-Y = 0.7 Vp-p
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz

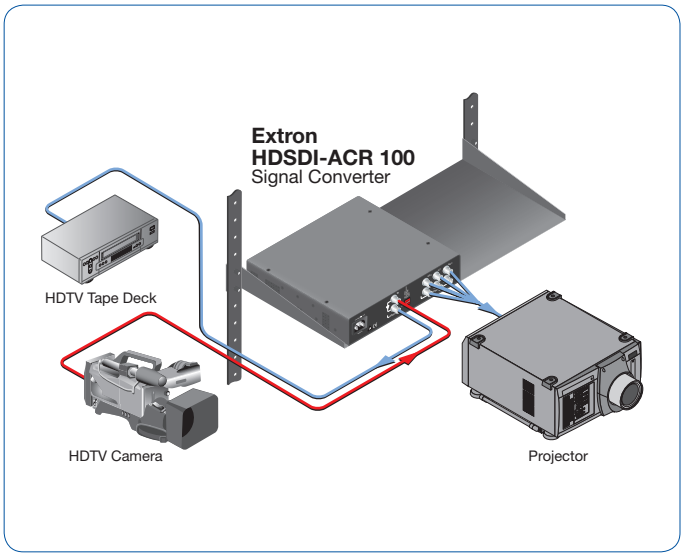
SYNC

Output type	RGBHV, RGBS, RGsB
Output impedance	75 ohms
Max. rise / fall time	200 ns
Polarity	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, universal, 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	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 ±10%. Specifications are subject to change without notice.



MODEL

MODEL	VERSION DESCRIPTION	PART #
HDSDI-ACR 100	HD-SDI to Component/RGB	60-408-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit	page 819	60-190-01
RSB 129	1U 9.5" Deep Basic Rack Shelf	page 820	60-604-01

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