



Analog-to-SDI Converters

Models SD-210AD

SD-210AD is a high performance, multi-standard Analog Video to Serial Digital Video Converter, designed for broadcast and professional use. The unit's internal 12-bit Analog to Digital converter chipsets provide a highly reliable 10-bit video decoding. The SD-210AD handles 525 or 625 line signals and accepts NTSC, NTSC-J, PAL-B, G, N, M and SECAM inputs. It is controlled via front panel buttons and an LCD display. The Component Video (YUV) input is menu selectable as either in SMPTE or Betacam format. An integral Time Base Corrector with video processing allows adjustment of signal parameters, including: Luminance, Chrominance, Setup, Hue and Sharpness. The unit is housed in a metal case with an optional Dual Rackmount Frame. It uses an external 5VDC In-Plug type power adapter with locking DC connector.



Key Features of the SD-210AD

- 10-bit Signal Processing
- 5-Line Adaptive Comb Filtering
- Serial Digital Video Output at 270Mbits/sec
- Composite, S-Video, YUV Inputs
- Integral TBC with Video Adjustments
- NTSC, NTSC-J, PAL-B,G,N,M, SECAM Operation

Specifications

Analog Video Inputs

Composite	1x via BNC Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN
Component (YUV or RGB)	1x via 3 BNC Connectors
Television Standards	NTSC, PAL-B, G, N, M, SECAM
Impedance	75Ω

SDI Video Output

SMPTE 259M, 270Mbits/sec	2x via BNC Connectors
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Video Specifications

Signal Processing	10-bit
Frequency Response	Flat to more than 5MHz
Chroma to Luma Delay	<= 5nS
Differential Gain	<=0.5 %
Differential Phase	<=0.5 °
Luminance Non-linearity	<=1%
K Factor	<=0.8%

Signal to Noise Ratio

Black Field, weighted	Better than 70db
White Field, weighted	Better than 67db

Processing Amplifier

Video Level Adjustments	Luminance, Chrominance, Setup, Hue, Sharpness
Filter Selection	Adaptive Comb, Low Pass
Advanced Controls	U Gain, V gain, White Clip & Chroma Transient Improvement

Control Method

Display	16x2 LCD
Front Panel Buttons	Up, Down, Escape, Enter

Mechanical

SD-210AD (HWD)	1.4"x8.45x5.2" (36x215x130mm)
Weight (Net)	1,8 lbs (0.8 kg)
RM-200 (HWD)	1.75"x19"x7" (44x482x178mm)
Weight (Net)	2.4 lbs (1.1 kg)

Warranty

Limited Warranty	2 Years Parts and Labor
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Environmental

Operating Temperature	+32° to +120° F (0° to +48° C)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-40° to +150° F (-40° to +65° C)
Storage Humidity	10% to 85%, Non-condensing

Power Requirement

External Power Supply	5VDC@500mA - Locking DC
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Regulatory Approvals

Converter Unit	FCC, CE
Power Supply	UL, CE, CSA

Accessories Included

1x Composite In Cable	6' (2m) BNC to BNC
1x Power Adapter	US, UK or Euro or Type

Product Item Number

SD-210AD	Analog to SDI Converter
RM-200	Dual Rackmount Assembly

Panel Drawing

