

R20AD

Component or Composite Analog to SD-SDI Converter, 10-Bit

Features at a glance

- Excellent-Quality 10-bit Universal A/D Conversion
- Component, Composite or Y/C Analog Input
- 4 Line Adaptive Comb Filter
- Full 10-bit Data path, 2x Oversampling
- YPbPr, Betacam, or RGB Component Formats
- NTSC or PAL Composite Formats
- AGC Mode
- 4 SDI Outputs with EDH
- Color Bar Generator
- Optional Frame Synchronizer
- 5-year Warranty

Tech specs

Inputs:

- YPbPr - SMPTE
- EBU-N10
- Betacam
- RGB
- NTSC
- PAL
- Y/C (S-Video)
- 3 x BNC

Reference:

- Passive Loop
- 2 x BNC

Outputs:

- SD-SDI (SMPTE 259M) w/EDH
- 4 x BNC

A/D Converters:

- 10-bits
- 2x oversampling

Frequency Response:

- Y +/- .15 dB to 5.5MHz
- C +/- .15 dB to 2.5MHz
- Less than .5% K Factor (2T)

User Controls:

Input Video Format

- Pedestal Present/Not Present
- Narrow/Wide Blanking
- AGC On/Off
- EDH On/Off
- Test Pattern
- Output Timing adj. (w/Frame Sync option)

Physical:

- Fits AJA R-Series Frames
- Compatible with Leitch 6800 Series Frames

Power:

- 7 watts (8 watts w/Frame Sync option)



The R20AD provides excellent-quality 10-bit conversion of component or composite analog video to SD-SDI with EDH. The R20AD accepts YPbPr (SMPTE, EBU-N10), Betacam, or RGB component inputs and NTSC/PAL or Y/C (S-Video) composite inputs. The R20AD features a 4 Line Adaptive Comb Filter for high quality decoding of composite sources. The comb filter can be switched to 2 line, or notch modes for minimum delay requirements. The R20AD also accommodates the optional FSG card (Frame Sync) for synchronizing the output video relative to an external reference. NTSC/PAL configuration is automatic. Video format, AGC, H/V blanking, and pedestal are all user configurable.

