



## SDI-to-Analog Converter

Models SD-220DA

**SD-220DA** is a high performance, multi-standard Serial Digital Video to Analog Video Converter, designed for broadcast and professional use. The unit provides a highly reliable 10-bit SDI to Analog conversion with reclocking and equalization of the input signal for distances up to 300 meters from the source, provided that high quality, double shielded coaxial cable has been used. The SD-220DA handles 525 or 625 line signals and provides NTSC, NTSC-J, PAL, or PAL-N outputs. It is controlled via front panel buttons and an LCD display. The Component Video output is menu selectable as either RGB or YUV in SMPTE or Betacam format. An integral Video Processor provides adjustment of signal parameters, including: Luminance, Chrominance, Setup, Hue and Sharpness. The unit is housed in a Desktop metal case with an optional Dual Rackmount Frame.



### Key Features of the SD-220DA

- 10-bit Signal Processing
- Serial Digital Video Input at 270Mbps/sec
- Composite, S-Video, YUV (or RGB) Outputs
- Video Processing Amplifier Adjustments
- NTSC, NTSC-J, PAL & PAL-N Operation

### Specifications

#### SDI Video Input

SMPTE 259M, 270Mbps/sec 1x via BNC Connector

#### SDI Video Output

Active Looping Signal Equalized & Reclocked

#### Analog Video Outputs

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, NTSC-J, PAL, PAL-N  
 Impedance 75Ω

#### Video Specifications

Signal Processing 10-bit  
 Frequency Response Flat to more than 5MHz  
 SC/H Phase ≤5°  
 Chroma to Luma Delay ≤5nS  
 Differential Gain ≤0.5%  
 Differential Phase ≤0.5°  
 Luminance Non-linearity ≤2%  
 K Factor ≤0.8%

#### Signal to Noise Ratio

White Field, weighted Better than 77db  
 Black Field, weighted Better than 80db

#### Processing Amplifier

Component Selection RGB or YUV Beta or SMPTE  
 Video Level Adjustments Luminance, Chrominance, Setup, Hue, Sharpness

#### Control Method

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

#### Mechanical

SD-220DA (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

#### 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

#### Regulatory Approvals

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

#### Accessories Included

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

#### Product Item Numbers

SD-220DA SDI to Analog Converter  
 RM-200 Dual Rackmount Assembly

### Panel Drawing

