

AD-12m

Analog to digital converter



- Broadcast quality
- Converts YUV, RGB, CVBS or YC to digital video
- 12/10bit processing
- Fiveline adaptive 3D comb filter
- Processing delay - 1line
- Integrated Three 54MHz: Noise Shaped Video, 12-bit AD converter and 4 x oversampling
- Integrated automatic gain control with adaptive peak white mode
- CTI (chroma transient improvement)
- DNR (Digital Noise Reduction)
- EDH processing
- Automatic YUV pixel timing adjustment
- Input signal presence detection
- Pass or broadcast test in the case of incorrect video input
- Integrated Test Generator (Black, Color Bar)
- Easy setup with local control and LCD display

AD-12m converts composite or component analog video to SDI. With both available, composite and component (Y, Cr, Cb or RGB or YC) inputs, this unit is ideal for converting all types of analog video. Advanced and highly flexible digital output, enables high-quality conversion. 12bit 4x oversampling allows the A / D conversion of high-performance 10bit output. An intelligent adjustment system provides full digital filter frequency response, even in the composite signal. Fixed frequency 54MHz ADC and buses for all options, allows for very precise processing and digital filtering.

TECHNICAL SPECIFICATIONS

Specifications and designs are subject to change without notice

GENERAL INFORMATION

- Code:.....005.213
- Weight: 0.5 Kg
- Type:..... box
- Dimensions: 210 x 110 x 35mm
- Required: AC/DC adapter 12V/1.5A
- Delivery includes:..... device, user manual

ANALOG INPUT

- Number:..... 3, (YUV, RGB, YC, CVBS) BNC female
- Impedance:75Ω

DIGITAL OUTPUT

- Number:.....2, BNC female
- Signal type: Serial digital (SMPTE259M)
- Impedance:75Ω
- Jitter: ..< 0.2UI (Typical 0.1UI @ Color Bar, 10Hz filter mode)
- Level:..... 800mV ± 10%

OUTPUT PERFORMANCE

- Bit resolution:10/12bit processing
- Black offset:Self adjusting
- H adjustment range: 0-64μs in 37ns steps
- V adjustment range: 0-5 lines in 1 line step

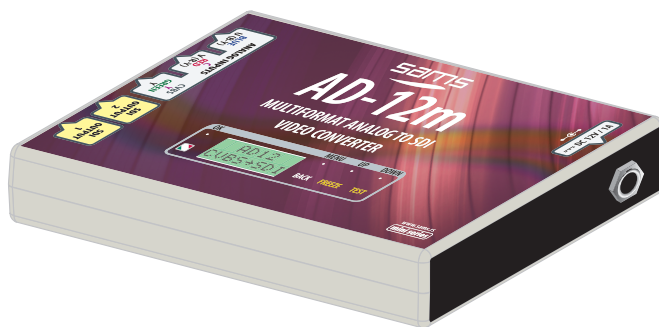
POWER

- Voltage:DC 12V / 1.5A
- Power:18W

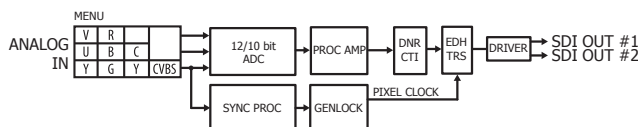
TEMPERATURE

- Performance:..... 5-40°C
- Operating:..... 0-50°C

DEVICE DESIGN



BLOCK DIAGRAM



ORDERING INFORMATION

Code	Name	Description
005.213	AD-12m	ADC - mini