5360 and 5365

4 Channel Analog to SD Digital Video Converters and Embedders

The Avenue 5360 and 5365 modules convert four channels of analog video and audio to four streams of SD SDI with embedded audio. Use these modules with routers, switchers, remote trucks or any application that requires many channels of high quality video and conversion. This is a perfect solution for satellite installations that need to feed a large number of analog signals from IRDs into a monitor wall.

12 bit analog to digital conversion, digital decoding of the composite input, and adaptive comb filtering ensure superior output signals. Proc amp functions allow adjustment of video, chroma, setup and hue.

Analog audio inputs are digitized at 24 bits of resolution and then embedded into the associated video signal.

5360 also has a genlock reference input and a TBC/Frame Sync for each of the four conversion channels. The 5360 can accept noisy inputs and is well suited for feeds from remote trucks and satellite receivers. Additionally, the 5360's outputs are independently timeable.

5360

4 Channel

ADC/TBC

w/Audio

ENSEMBLE

Input 1

Input 2

Onput 3

Olnput 4

Ref Pres

Remote

Local

TBC 1 TBC 2

TBC 3 TBC 4

Run (

Pwr (

5360 ADC SDI Out 1 SDI Out 3

Features

- Four channels of conversion and audio embedding on one module
- Four analog video inputs, four SDI outputs
- 12 bit processing, 4 x oversampling
- Analog audio inputs, 1 stereo pair per video input
- 24 bit, 256 x oversampled audio processing
- PAL/NTSC auto detect
- Adaptive comb filter
- Proc amp
- 5360 has TBC/Frame Sync, independently timeable outputs
- 5360 accepts noisy inputs
- 5360 has an internal color bar generator

Analog Video Inputs (4 each)

Signal Type Composite, NTSC or PAL

Impedance 75 Ω

Return Loss >40 dB DC to 5.5 MHz

Input DC ± 1 volt DC $<100 \, \text{mV}$ Input Hum

Reference Input (5360 only)

Signal Type 1 V P-P Composite Video, PAL or NTSC

Impedance 75 Ω >40 dB Return Loss

Serial Digital Outputs (4 each)

SMPTF 259 Signal Type **Impedance** 75 Ω Return Loss $>15 \, dB$

Output DC None (AC coupled)

Delay 5360: 1 line, adjustable up to 1 frame

5365: 1 line

Analog Audio Input (2 per video input)

Eight, unbalanced pair Analog Inputs

Processina 24 bits

Analog Input Z >15 k Ω , unbalanced, transformerless

4 Channel Analog to SD Digital Video Converters and Embedders

Analog Video to SDI Performance

Bit Resolution 12 bit input quantization,

4 x oversampling

Decoding Adaptive Comb Filter, 3 or 5 line selectable

Signal to Noise >62 dB, weighted Frequency Response ±0.1 dB, 0 to 5.5 MHz

General Specifications

Power Consumption 10 watts

Temperature 0 to 40°C ambient (all specs met)

Relative Humidity 0 to 95%, noncondensing

Altitude 0 to 10,000 ft

