



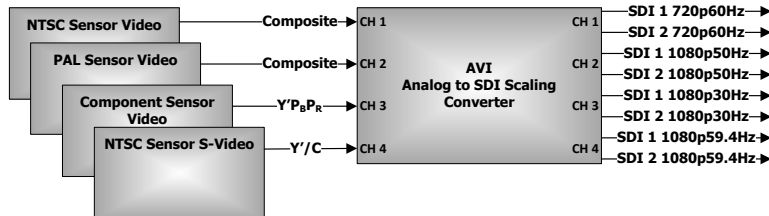
Analog to 3-G SDI Scaling Video Converter

Overview

The AVI Analog to SDI Scaling Video Converter is a rugged stand-alone unit that can convert analog video inputs to dual SD, HD, or 3-G SDI scaled video outputs.

The analog video inputs can accept NTSC/PAL composite, NTSC/PAL S-Video signals, or Component Video. Low latency, high performance processing with advanced de-interlacing provides SDI encoding to dual multiplexed SDI outputs. Each channel can be independently configured for input video type and SDI video resolution/frame rate. Re-clocked outputs provide robust, maximum distance transmission of SDI video. Available in 1, 2, or 4 channel versions.

Stand-alone or in combination with various AVI system components, AVI's rugged Analog to SDI Scaling Video Converter offers a high-performance solution for converting, NTSC, PAL, S-Video, or Component video signals to SDI. Now all sensors and mission video sources can be used, maximizing the capability of the mission system.



Standard Features

- Component (Y'PbPr), or NTSC/PAL (Composite), or S-Video (Y'/C) inputs
- Two SDI outputs per channel
- Outputs can be scaled to any SMPTE standard
- Inputs auto detected
- Advanced video processing with Anti-Aliasing and 3D Deinterlacer
- Aspect ratio conversion and selection
- For 2 and 4 channel versions, each channel is independent



Four channel unit shown.

- SMPTE 425M, 259M, 292M, 296M, ITU-R BT.656 and ITU-R BT.601 compliant
- Easy setup by USB for each channel
- Setup software included
- 9 – 36 V DC Power
- MIL-STD 38999 circular power connector
- Three-year warranty

Benefits

- Converts video to SDI format for 100m+ transmission and distribution
- Reduction in wiring weight and complexity – low weight coaxial cable can be used
- Allows single, unified cabling infrastructure on sensor platforms
- Dual output for each channel – providing redundancy or dual display output
- Open - works with any Component, NTSC, PAL, or S-Video signal source
- Continue using legacy video sensors with upgraded display and distribution infrastructure
- Available in 1, 2, or 4 channel versions

Typical Applications

- Surveillance systems
- Airborne Law Enforcement sensor systems
- Customs and Border Protection sensor systems
- Naval & Coastguard ship's sensor and mission systems
- Naval, Air Force and Coastguard rotary and fixed wing mission systems
- Ground Vehicle sensor mission systems



Analog to 3-G SDI Scaling Video Converter - Specifications

Video Inputs	<ul style="list-style-type: none"> Component (Y'PbPr), or NTSC/PAL (Composite), or NTSC/PAL S-Video (Y'/C) <ul style="list-style-type: none"> Connector type – BNC 75 Ω 	Functionality <ul style="list-style-type: none"> Output SDI resolution and frame rate Output aspect ratio selection Input video format auto detection Component, Composite, and S-Video input type Re-clocked SDI output Analog color sampling
Video Outputs	<ul style="list-style-type: none"> HD/SD/3-G SDI (2) <ul style="list-style-type: none"> Re-clocked, 10 bit, 4:2:2 color encoding Connector type – BNC 75 Ω 	
Video Input Formats Video Output Formats	<ul style="list-style-type: none"> Analog Inputs <ul style="list-style-type: none"> 1080p@60/50/30/25/24Hz 1080i@60/50Hz 720p @60/59.94/50Hz 625/25 PAL, 525/29.97 NTSC SDI SMPTE 259/292M/424M <ul style="list-style-type: none"> 1080p 60/50/30/25/24/23.98Hz 1080i 60/50Hz 720p 60/50/30/25/24Hz 625i 50Hz 525i 60Hz 	Environmental <ul style="list-style-type: none"> Operating Temp Low -45°C DO-160G Cat B2 Operating Temp High +70°C DO-160G Cat B2 Short Term Op Temp Low -45°C DO-160G Cat B4 Short Term Op Temp High +70°C DO-160G Cat B4 Ground Survival Low Temp -55°C DO-160G Cat B4 Ground Survival High Temp +85°C DO-160G Cat B4 Temp Variation 5C° per minute DO-160G Cat B Humidity 38C° to 95@ 50C° DO-160G Cat A Operational Shock 6g @ 11ms, 20G DO-160G Cat B Vibration Random, 10-2000Hz DO-160G Cat U, U2 Explosion Proofness* MIL-STD-810G Method 511.6 Waterproofness Drip Test DO-160G Cat W Magnetic Effect DO-160G Cat A Power Input* DO-160G Cat A Voltage Spike 2x Line Voltage DO-160G Cat B EMI/EMC Sec 18, 19, 20, 21 DO-160G Cat B, CC, R, M ESD* DO-160G Cat A Ingress Rating IP67
Model Numbers	<ul style="list-style-type: none"> C100304-00 4 channel Product Number C100302-00 2 channel Product Number C100301-00 1 channel Product Number 	DO-160 testing to be completed *By Similarity
Power	<ul style="list-style-type: none"> +9 to +36 DC 0.21 amps @28V DC, Single Channel 0.41 amps @28V DC, Two Channel 0.81 amps @ 28V DC, Four Channel Connector Type MIL-STD D38999/20MB98PN 	Dimensions and Weight <ul style="list-style-type: none"> TBD, 1 & 2 Channel 302 mm [11.1 in] W, 50.81 mm [2.0 in] H, 100 mm [3.9 in] D, Four Channel 0.65 kg [1.43 lb], Single Channel 0.74 kg [1.63 lb], Two Channel 0.97 kg [2.14 lb], Four Channel

