



AVI – Optimize your sensor

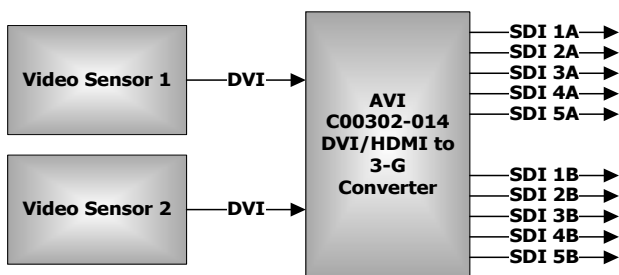
DVI/HDMI to 3-G SDI Video Converter – Two Channel Input Five SDI Outputs

Overview

The AVI DVI/HDMI to 3-G SDI Video Converter is a rugged stand-alone unit that can convert two channels of DVI-D or HDMI video inputs to five SD SDI, HD SDI, or 3-G SDI video outputs for each channel

The DVI/HDMI video input is can accept all SD through 3-G SDI format standards. Low latency, high-performance processing provides SDI encoding and scaling to five multiplexed SDI outputs. Re-clocked outputs provide robust, maximum distance transmission of SDI video.

Stand-alone or in combination with various AVI system components, AVI’s rugged DVI/HDMI to 3-G SDI Video Converters offer a high-performance solution for converting DVI or HDMI video to SDI. Now all sensors and mission video sources can be used, maximizing the capability of the mission system.



Standard Features

- Two DVI-D or HDMI input
- Ten 3G/HD/SD SDI outputs
- LED indication for valid output and resolution
- Inputs auto detected
- Programable scaled SDI outputs
- SMPTE 259M, 292M, 296M, 425M, ITU-R BT.656 and ITU-R BT.601 compliant



- Simple plug-and-play functionality
- 9 – 36 V DC Power
- Circular power connector
- -45 C° to 70 C° operation
- Heat dissipating enclosure
- Three-year warranty

Benefits

- Converts video to SDI format for +100m transmission and distribution
- Less susceptible to noise and signal loss compared to DVI-D and HDMI format transmission
- Allows single, unified cabling infrastructure on sensor platforms
- Can be used as a “portable device” port for distribution and display of tablets and laptops
- Reduction in wiring weight and complexity – low weight coaxial cable can be used
- Open - works with any DVI/HDMI source capable of SDI and VESA timing formats

Typical Applications

- Airborne Law Enforcement sensor systems
- Customs and Boarder Protection sensor systems
- Naval, Air Force, and Coastguard rotary and fixed-wing mission systems
- Ground Vehicle sensor mission systems



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<p>Video Inputs</p> <ul style="list-style-type: none"> • DVI-D/HDMI (2) <ul style="list-style-type: none"> ○ DVI-D Female Sub-D Gold Plated <p>Video Outputs</p> <ul style="list-style-type: none"> • 3G/HD/SD (10) <ul style="list-style-type: none"> ○ Re-clocked ○ 10 bit, 4:2:2 color encoding ○ Connector type – BNC 75 Ω 		<p>Model Number</p> <ul style="list-style-type: none"> • C000302-04 	
<p>Video Input</p> <ul style="list-style-type: none"> • DVI/HDMI <ul style="list-style-type: none"> ○ 1080p 60/59.94/50/30/29.97/25/24/23.98Hz ○ 1080i 60/59.94/50Hz ○ 1280x1024 60, 59.94Hz (VESA) ○ 720p 60/59.94/50 Hz ○ 576i 50Hz ○ 480i 60/59.94Hz ○ VESA 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1280x1024, 1024x768, 800x600, 640x480 • SDI SMPTE 259/292M/424M <ul style="list-style-type: none"> ○ 1080p 60/59.94/50/30/25/24/23.98Hz ○ 1080i 60/59.94/50Hz ○ 720p 60/59.94/50Hz ○ 625i 50Hz ○ 525i 59.94Hz 	<p>Environmental</p> <ul style="list-style-type: none"> • Operating Temp Low -45°C • Operating Temp High +70°C • Short Term Op Temp Low -45°C • Short Term Op Temp High +70°C • Ground Survival Low Temp -55°C • Ground Survival High Temp +85°C • Temp Variation 5C° per minute • Humidity 38C° to 95@ 50C° • Operational Shock 6g @ 11ms, 20G • Vibration Random, 10-2000Hz • Explosion Proofness MIL-STD-810G Method 511.6 • Waterproofness Drip Test • Magnetic Effect • Power Input • Voltage Spike 2x Line Voltage • EMI/EMC Sec 18, 19, 20, 21 • ESD • Ingress Rating IP67 • Altitude Operating 50,000ft <p>DO-160 Tested by Similarity to C000301-00 and S050201-00</p>	<p>Dimensions and Weight</p> <ul style="list-style-type: none"> • 222 mm [8.74 in] W, 45.8 mm [1.8 in] H, 108 mm [4.3 in] • 1.000 kg [2.02 lbs] 	<ul style="list-style-type: none"> • DO-160G Cat B2 • DO-160G Cat B2 • DO-160G Cat B4 • DO-160G Cat B4 • DO-160G Cat B4 • DO-160G Cat B4 • DO-160G Cat B • DO-160G Cat A • DO-160G Cat B • DO-160G Cat U, U2 • DO-160G Cat Y • DO-160G Cat A • DO-160G Cat A • DO-160G Cat B • DO-160G Cat B, CC, R, M • DO-160G Cat A • DO160G Cat D1
<p>Power</p> <ul style="list-style-type: none"> • +9 to +36 DC • 0.24 A @ 28V DC • Connector Type LEMO HEN 0M 305 XLNP 			

