



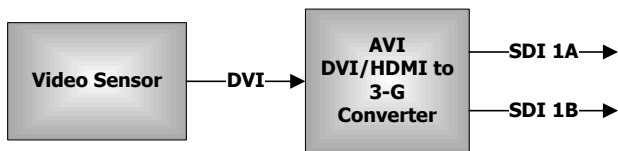
DVI/HDMI to 3-G SDI Video Converter

Overview

The AVI DVI/HDMI to 3-G SDI Video Converter is a rugged stand-alone unit that can convert DVI-D or HDMI video inputs to dual SD SDI, HD SDI, or 3-G SDI video outputs.

The DVI/HDMI video input is can accept all SD through 3-G SDI format standards. Low latency, high performance processing provides SDI encoding to dual multiplexed SDI outputs. Re-clocked outputs provide robust, maximum distance transmission of SDI video. Available in 1, 2, or 4 channels versions.

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 solutions 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

- One, Two, or Four DVI-D or HDMI input
- Two, Four, or Eight 3G/HD/SD SDI outputs
- DVI and SDI lock LED for valid input and output
- Inputs auto detected
- 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
- MIL-STD 38999 circular power connectors
- -30 C° to 65 C° operation
- Heat dissipating enclosure
- Two year warranty



Two channel unit shown.

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
- Dual output for each channel – providing redundancy or dual display output
- Reduction in wiring weight and complexity – low weight coaxial cable can be used
- Open - works with any DVI/HDMI source capable of SDI formats
- Available in 1, 2 or 4 channel versions

Typical Applications

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



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<p>Video Inputs</p> <ul style="list-style-type: none"> • DVI-D/HDMI (1) <ul style="list-style-type: none"> ○ DVI-D Female Sub-D Gold Plated • 3G/HD/SD (2) <ul style="list-style-type: none"> ○ Re-clocked ○ 10 bit, 4:2:2 color encoding ○ Connector type – BNC 75 Ω 		<p>Model Numbers</p> <ul style="list-style-type: none"> • C000204-00 four channel • C000202-00 two channel • C000201-00 single channel 	
<p>Video Output Formats</p> <ul style="list-style-type: none"> • DVI/HDMI and 3G – SMPTE 424M <ul style="list-style-type: none"> ○ 2.97 and 2.967Gb/s ○ 1080p@60/59.94/50Hz ○ Format SMPT 425M Level A • DVI/HDMI and HD – SMPTE 292M/274M/296M <ul style="list-style-type: none"> ○ 1.485 and 1.435Gb/s ○ 1080i@60/59.94/50Hz ○ 1080p@30/29.97/24/23.98Hz ○ 720p @60/59.94/50/30/29.97/24/23.98Hz • DVI/HDMI and SD – SMPTE 259M <ul style="list-style-type: none"> ○ 270Mb/s ○ 625i/625p@50Hz ○ 525i/525p@59.94Hz 		<p>Environmental</p> <p>DO-160 Tested</p>	<ul style="list-style-type: none"> • Operating Temp Low -30°C / -22°F DO-160G Cat B4 • Operating Temp High +65°C / +149°F DO-160G Cat B4 • Short Term Op Temp Low -35°C / -31°F DO-160G Cat B4 • Short Term Op Temp High +70°C / +158°F DO-160G Cat B4 • Ground Survival Low Temp -55°C / -67°F DO-160G Cat B4 • Ground Survival High Temp +85°C / +185°F DO-160G Cat B4 • Temp Variation 5C° per minute DO-160G Cat B • Humidity 0 to 95±4% @ 50C° DO-160G Cat A • Operational Shock & Crash 6g @ 20ms, 20g Sus DO-160G Cat A • Vibration Random, 10-2000Hz DO-160G Cat R,U2 • EMI/EMC Sec 18, 19, 20, 21 DO-160G Cat B, CC, R, B • Voltage Spike 2x Line Voltage DO-160G Cat B • Waterproofness Drip Test DO-160G Cat W • Ingress Rating IP67 DO-160G Cat W • Altitude Operating 25,000ft DO160G Cat B
<p>Power</p> <ul style="list-style-type: none"> • +9 to +36 DC • 0.15 A @ 28V DC, Single Channel • 0.20 A @ 28V DC, Two Channel • 0.40 A @ 28V DC, Four Channel • Connector Type MIL-STD D38999/24FB98PN 		<p>Dimensions and Weight</p>	<ul style="list-style-type: none"> • 158 mm [6.2 in] W, 42.0 mm [1.7 in] H, 108 mm [4.3 in] D, single and two Channel • 238 mm [9.4 in] W, 42.0 mm [1.7 in] H, 108 mm [4.3 in] D, Four Channel • 0.702 kg [1.55 lbs], Single Channel • 0.801 kg [1.78 lbs], Two Channel • 1.052 kg [2.32 lbs], Four Channel

