



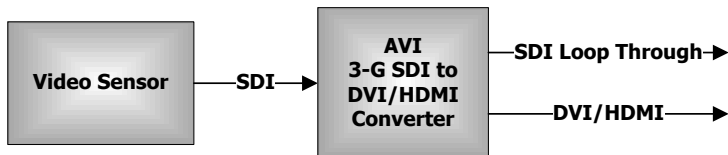
3-G SDI to DVI/HDMI Video Converter

Overview

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

The SDI video input can accept all SD through 3-G SDI SMPTE formats and provides a re-clocked loop through of the SDI signal. Low latency, high performance processing provides DVI/HDMI encoding to the digital DVI/HDMI output. Available in 1, 2, or 4 channels versions.

Stand-alone or in combination with various AVI system components, AVI's rugged 3-G SDI to DVI/HDMI Video Converters offer a high performance solutions for converting 3-G SDI video to DVI or HDMI formats. Now with AVI's converters, video formats between various system sources and sinks can be used, maximizing mission system capability.



Standard Features

- One, Two, or Four 3G/HD/SD SDI inputs
- One, Two, or Four DVI-D or HDMI outputs
- One, Two, or Four 3G/HD/SD SDI loop through
- SDI and DVI lock/status 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

Benefits

- Converts SDI video DVI or HDMI for localized short run interfaces
- Allows single, unified cabling infrastructure on sensor platforms with localized conversion
- Can be used as a “portable device” port for distribution and display of SDI sources on DVI inputs device such as tablets and laptops
- Reduction in wiring weight and complexity
- Open - works with any SDI source and any DVI/HDMI device 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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Video Inputs	<ul style="list-style-type: none"> • 3G/HD/SD (1) <ul style="list-style-type: none"> ○ Re-clocked ○ 10 bit, 4:2:2 color encoding ○ Connector type – BNC 75 Ω • 3G/HD/SD Loop through (1) 	Model Numbers	<ul style="list-style-type: none"> • C250204-00 four channel • C250202-00 two channel • C250201-00 single channel
Video Input	<ul style="list-style-type: none"> • DVI-D/HDMI (1) <ul style="list-style-type: none"> ○ DVI-D Female Sub-D Gold Plated 	Environmental	<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 • Altitude Operating 25,000ft DO160G Cat B
Video Input and Output Formats	<ul style="list-style-type: none"> • 3G – SMPTE 424M Input DVI/HDMI Output <ul style="list-style-type: none"> ○ 2.97 and 2.967Gb/s ○ 1080p@60/59.94/50Hz ○ Format SMPT 425M Level A • SMPTE 292M/274M/296M DVI/HDMI Output <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 • SMPTE 259M DVI/HDMI Output <ul style="list-style-type: none"> ○ 270Mb/s ○ 625i/625p@50Hz ○ 525i/525p@59.94Hz 	DO-160 Tested	Dimensions and Weight <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, 1 & 2 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
Power	<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 		

