



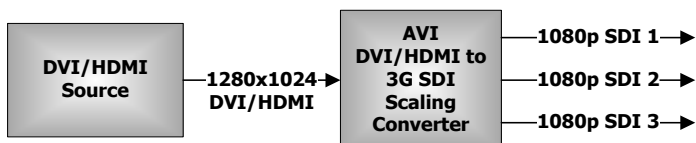
DVI/HDMI to 3-G SDI Scaling Video Converter

Overview

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

The DVI/HDMI video input can accept SMPTE and VESA format standards and scales it to SMPTE 259M, 292M, or 425M. Low latency, high performance processing provides SDI encoding to triple multiplexed SDI outputs. 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 DVI/HDMI to 3-G SDI Scaling Video Converter offers a high-performance solution for converting DVI or HDMI video to SDI. Now more sensors and mission video sources can be used, maximizing the capability of the mission system.



Standard Features

- One or Two DVI-D or HDMI inputs
- Three or Six 3G/HD/SD SDI outputs
- Selectable or Auto SDI output resolution and frame rate
- Tri-color LED indicator for Output Resolution setting
- 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



- -45C° to 70C° 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
- Triple output for each channel – providing redundancy or multiple display output
- Reduction in wiring weight and complexity – low weight coaxial cable can be used
- Open - works with any DVI/HDMI source
- 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 systems
- Ground Vehicle sensor systems
- Aerial News Broadcast system



AVI – Optimize your sensor suite.™

DVI/HDMI to 3-G SDI Scaling Video Converter - Specifications

Video Inputs	<ul style="list-style-type: none"> • DVI-D/HDMI (1) <ul style="list-style-type: none"> ○ DVI-D Female Sub-D ○ RGB 4:4:4, YUV 4:2:2, YUV 4:4:4 Color Encoding • 3G/HD/SD (3) <ul style="list-style-type: none"> ○ Re-clocked ○ 10 bit, YUV 4:2:2 color encoding ○ Connector type – BNC 75 Ω 	Model Numbers	<ul style="list-style-type: none"> • C000302-00 two channel • C000301-00 single channel • C000304-00 four channel
Video Input	<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 60/59.94/50/30/29.97/25/24/23.98 Hz ○ 1024x768 60/59.94/50Hz (VESA) ○ 800x600 60, 59.94Hz (VESA) ○ 576p 50Hz ○ 576i 50Hz ○ 480p 60/59.94Hz ○ 480i 60/59.94Hz • 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 Y • 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 • Altitude Operating 50,000ft DO160G Cat D1
Video output Formats	<ul style="list-style-type: none"> • +9 to +36 DC • 0.21 A @ 28V DC, Single Channel • 0.41 A @ 28V DC, Two Channel • Connector Type MIL-STD D38999/24FB98PN 	Dimensions and Weight	<ul style="list-style-type: none"> • 182mm [7.17in] W, 42.8mm [1.69in] H, 118mm [4.65in] D, Single Channel • 182mm [7.17in] W, 52.8mm [2.08in] H, 118mm [4.65in] D, Two Channel • 0.754 kg [1.66 lbs], Single Channel • 0.801 kg [1.78 lbs], Two Channel

