



3-G SDI to DVI/HDMI Scaling Video Converter

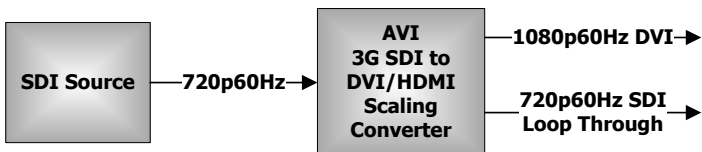
Overview

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

The unit provides SMPTE 259M, 292M, or 425M input with automatic cross over to the alternate input for redundant inputs. A loop through re-clocked SDI output channel is also provided.

Low latency, high performance processing provides DVI/HDMI scaled output of the SDI input for SMPTE based resolutions which can be set through the units' USB port. Available in 1 or 2 channel versions.

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



Standard Features

- One or Two SDI inputs
- One or Two alternate SDI inputs for redundancy
- One or Two SDI Loop Throughs
- One or Two DVI/HDMI outputs
- Selectable or Auto 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 SDI video to DVI/HDMI format for DVI/HDMI only input devices
- In combination with AVI's DVI/HDMI to SDI Converter, DVI signals can be replaced with SDI for lighter and long signal routing not possible with DVI/HDMI only
- Can be used as a "portable device" port for reception and display of tablets and laptops
- Dual input for each channel – providing redundancy
- Open - works with any SDI source and any DVI/HDMI sink capable of SDI resolution formats
- Available in 1 or 2 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



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

Video Inputs	<ul style="list-style-type: none"> • 3G/HD/SD (1) (1 Alternate) <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"> • C250302-00 two channel • C250301-00 single channel
Video Outputs	<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 	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 Input	<ul style="list-style-type: none"> • 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 	DO-160 Tested *By Similarity	
Video output Formats	<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 ○ 720p 60/59.94/50/30/29.97/25/24/23.98 Hz ○ 576p 50Hz ○ 576i 50Hz ○ 480p 60/59.94Hz ○ 480i 60/59.94Hz 		
Power	<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

