



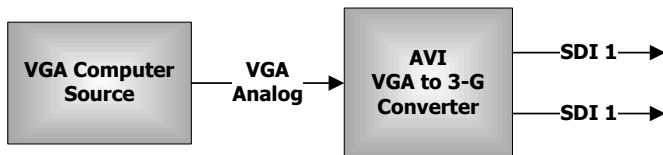
VGA to 3-G SDI Video Converter

Overview

The AVI VGA to 3-G SDI Video Converter is a rugged stand-alone unit that scales and converts VGA Analog video inputs to dual SD SDI, HD SDI, or 3-G SDI video outputs.

The unit accepts various VGA Analog video input resolutions from 640x480 through 1920x1080 and outputs 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.

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



Standard Features

- One VGA input
- Two 3G/HD/SD SDI outputs
- VGA lock LED for valid input indication
- SMPTE 259M, 292M, 296M, 425M, ITU-R BT.656 and ITU-R BT.601 compliant
- Simple plug-and-play functionality
- Auto detection of VGA Input resolution
- 9 – 36 V DC Power
- MIL-STD 38999 circular power connectors
- -20 C° to 65 C° operation
- Heat dissipating enclosure
- Two year warranty



Benefits

- Converts Analog VGA video to SDI format for +100m transmission and distribution
- Less susceptible to noise and signal loss compared to analog 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

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"> VGA (1) <ul style="list-style-type: none"> VGA Female Sub-D 15 pin Gold Plated 	Video Output Formats	<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@30/29.97/25/24/23.98Hz 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 @50Hz 525i @59.94Hz 																																																															
Video Outputs	<ul style="list-style-type: none"> 3G/HD/SD (2) <ul style="list-style-type: none"> Re-clocked 10 bit, 4:2:2 color encoding Connector type – BNC 75 Ω 																																																																	
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Power	<ul style="list-style-type: none"> +9 to +36 DC 0.25 A @ 28V DC Connector Type MIL-STD D38999/20MB98PN 	Dimensions and Weight	<ul style="list-style-type: none"> 158 mm [6.22 in] W, 42.0 mm [1.65 in] H, 108 mm [4.251 in] D 0.626 kg [1.38 lbs] 																																																															

