Applied Video Imaging

AVI – Optimize your sensor suite.™

3-G SDI 1X4 Video Splitter

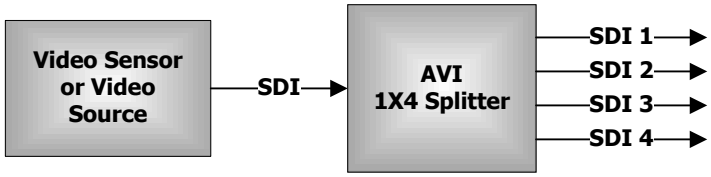
Overview

The AVI 3-G SDI 1X4 Video Splitter is a rugged, stand-alone distribution unit that supports one SDI video input and four SDI video outputs.

The unit automatically synchronizes to SD, HD, or 3-G SDI video inputs and outputs up to four channels based on the input video standard. Low latency buffering provides sub-frame latency on output channels.

The unit dynamically adjusts to different SDI input standards without the need to cycle power, making the unit ideal for distribution of switched or changing SDI video sources.

Stand-alone or in combination with various AVI system components, AVI's rugged 3-G SDI 1X4 splitter offers a high performance solution for distribution of SDI video sources, maximizing the capability of the sensor suite in use.



Standard Features

- 1 input and up to 4 outputs
- 3G/HD/SD SDI capable
- Inputs auto detected
- Re-clocked outputs
- Input status indicator
- Output status indicator
- 9 – 36 V DC Power
- Standard two year warranty

Benefits

- Plug and play
- Re-clocked and reliable duplication and routing of SDI Video
- Small, rugged, lightweight solution to SDI signal routing
- Visual indication of SDI signal health
- Open - works with any SDI source or display

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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S050104 V1.1 01/16

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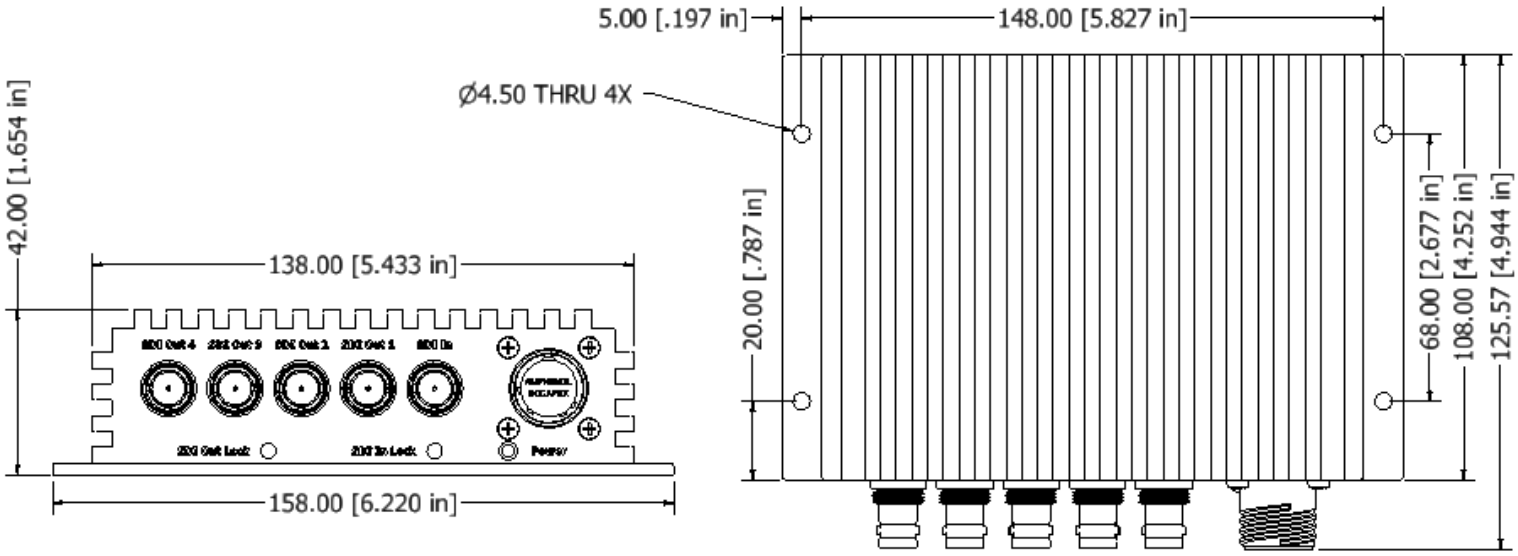
3-G SDI 1X4 Video Splitter - Specifications

Video Inputs	• 3G/HD/SD (1) • Input equalization > 100m (Belden 1694A) • Connector type – BNC 75 Ω	**Functionality**	• Input status signal lock • Output status signal lock • Plug and play – no setup required
Video Outputs	• 3G/HD/SD (4) ○ Re-clocked ○ 10 bit ○ Connector type – BNC 75 Ω		
Video Input and Output Formats	• 3G – SMPTE 425M ○ 2.97 and 2.967Gb/s ○ 1080p@60/59.94/50Hz ○ Format SMPT 425M Level A • HD – SMPTE 292M/274M/296M ○ 1.485 and 1.435Gb/s ○ 1080i@60/59.94/50Hz ○ 1080p@30/29.97/25/24/23.98Hz ○ 720p @60/59.94/50/30/29.97/25/24/23.98Hz • SD – SMPTE 259M ○ 270Mb/s ○ 625i@50Hz 525i@59.94Hz	**Environmental** DO-160 Tested	• 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 +85C° /+185F° 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, R • Vibration Random, 10-2000Hz DO-160G Cat 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
Power	• +9 to +36 DC • 0.10 amps @ 28V DC • Connector Type MIL-STD D38999/20MB98PN	**Dimensions and Weight**	• 158 mm [6.2 in] W, 108 mm [4.3 in] D, 42 mm [1.7 in] H • 0.499 kg [1.1 lb]



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