



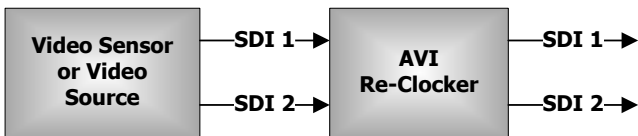
# 3-G SDI Multi-Channel Video Re-Clocker

## Overview

The AVI 3-G SDI Video Re-Clocker products are rugged, stand-alone multi-channel units that supports integrated adaptive equalization and re-clocking of SDI video input with wide input jitter tolerance. Typical 3-G SDI equalization lengths for Belden 1694A is 150 meters. The re-clocked SDI signal uses an industry-leading cable driver with excellent output eye quality and capable of driving 3-G SDI video over 150 meters of Belden 1694A cable.

The units automatically synchronize to SD, HD, or 3-G SDI video inputs and all channels are independent.

For long cable runs, poor cable quality, or poor SDI quality video sources, AVI's Re-Clocker products can provide the solution needed to ensure SDI Video quality within the system.



## Standard Features

- 2 channel, 4 channel, or 6 channel versions
- 3G/HD/SD SDI capable
- Inputs auto detected
- Re-clocked outputs
- Small, rugged, lightweight
- 9 – 36 V DC Power
- Standard three-year warranty

## Benefits

- Plug and play
- Re-clocked and reliable routing of SDI Video

- Open - works with any SDI source or display
- Extended cable run lengths

## Typical Applications

- Surveillance systems
- Airborne Law Enforcement sensor systems
- Customs and Border Protection sensor systems
- Naval sensor and mission systems
- Naval, Air Force, and Coastguard rotary and fixed-wing mission systems
- Ground Vehicle sensor mission systems



AVI – Optimize your sensor

# 3-G SDI Multi-Channel Video Re-Clocker - Specifications

<b>Video Inputs</b>	<ul style="list-style-type: none"> <li>• 3G/HD/SD (2, 4, 6)</li> <li>• Input equalization &gt; 150m (Belden 1694A)</li> <li>• Connector type – BNC 75 Ω</li> </ul>	<b>Model Numbers</b>	<ul style="list-style-type: none"> <li>• S100202-00 – Two channel unit</li> <li>• S100204-00 – Four channel unit</li> <li>• S100206-00 – Six channel unit</li> </ul>
<b>Video Outputs</b>	<ul style="list-style-type: none"> <li>• 3G/HD/SD (2, 4, 6) <ul style="list-style-type: none"> <li>○ Re-clocked</li> <li>○ 10 bit</li> <li>○ Connector type – BNC 75 Ω</li> </ul> </li> </ul>	<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Operating Temp Low -40°C DO-160G Cat B2</li> <li>• Operating Temp High +70°C DO-160G Cat B2</li> <li>• Short Term Op Temp Low -45°C DO-160G Cat B4</li> <li>• Short Term Op Temp High +70°C DO-160G Cat B4</li> <li>• Ground Survival Low Temp -55°C DO-160G Cat B4</li> <li>• Ground Survival High Temp +85°C DO-160G Cat B4</li> <li>• Temp Variation 5C° per minute DO-160G Cat B</li> <li>• Humidity 0 to 95±4% @ 50C° DO-160G Cat A</li> <li>• Operational Shock &amp; Crash 6g @ 20ms, 20g DO-160G Cat B</li> <li>• Vibration Random, 10-2000Hz DO-160G Cat U2</li> <li>• Explosion Proofness* MIL-STD-810G Method 511.6</li> <li>• Waterproofness Drip Test DO-160G Cat Y</li> <li>• Magnetic Effect DO-160G Cat A</li> <li>• Power Input DO-160G Cat A</li> <li>• Voltage Spike 2x Line Voltage DO-160G Cat B</li> <li>• EMI/EMC Sec 18, 19, 20, 21 DO-160G Cat B, CC, R, M</li> <li>• ESD* DO-160G Cat A</li> <li>• Altitude Operating 50,000ft DO160G Cat D1</li> </ul>
<b>Video Input and Output Formats</b>	<ul style="list-style-type: none"> <li>• 3G – SMPTE 425M <ul style="list-style-type: none"> <li>○ 2.97 and 2.967Gb/s</li> <li>○ 2048x1080p@30/39.97/25/24/23.98</li> <li>○ 1920x1080p@60/59.94/50Hz</li> <li>○ Format SMPT 425M Level A, 425M</li> </ul> </li> <li>• HD – SMPTE 292M/274M/296M <ul style="list-style-type: none"> <li>○ 1.485 and 1.435Gb/s</li> <li>○ 1080i@60/59.94/50Hz</li> <li>○ 1080p@30/29.97/25/24/23.98Hz</li> <li>○ 720p @60/59.94/50/30/29.97/25/24/23.98Hz</li> </ul> </li> <li>• SD – SMPTE 259M <ul style="list-style-type: none"> <li>○ 270Mb/s</li> <li>○ 625i@50Hz</li> <li>○ 525i@59.94Hz</li> </ul> </li> </ul>	<p>To be DO-160 Tested</p> <p>*By Similarity</p>	
<b>Power</b>	<ul style="list-style-type: none"> <li>• +9 to +36 DC</li> <li>• 0.15 amps @ 28V DC (2 channel)</li> <li>• 0.20 amps @ 28V DC (4 channel)</li> <li>• 0.30 amps @ 28V DC (6 channel)</li> <li>• LEMO HEN.0M.305.XLNP</li> </ul>	<b>Mass</b>	<ul style="list-style-type: none"> <li>• 0.53 kg [1.17 lbs] Six Channel</li> <li>• 0.21 kg [0.46 lbs] Four Channel</li> <li>• 0.16 kg [0.35 lbs] Two Channel</li> </ul>

