

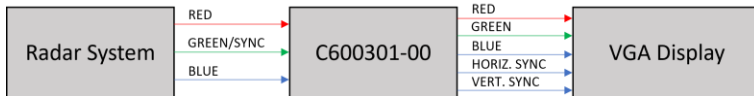


## RGBs and RGsB to RGBHV Converter

### Overview

The AVI IP68 RGBs and RGsB to RGBHV converter handles RGB video with either composite sync or embedded sync signals and converts them to an RGBHV signal compatible with analog VGA devices. The video is amplified to accommodate long cable runs. This unit is configurable for composite sync and sync-on-green signals with a simple dipswitch. The sync separator can also be configured for VGA, Bi-Level, and Tri-Level video signals.

Stand-alone or in combination with various AVI system components, AVI's rugged RGBs and RGsB to RGBHV converter offers a high-performance solution for converting composite sync and sync-on-green video to a standard RGBHV video. Now all sensors and mission video sources can be used, maximizing the capability of the mission system.



### Standard Features

- RGB, Comp Sync/Gs, H Sync, V Sync inputs
- RGB, Comp Sync, H Sync, V Sync outputs
- Selectable input sync location for either sync-on-green or composite sync
- Inputs auto-detected
- Amplified output (2x gain)
- Compatible with analog VGA devices
- Simple plug-and-play functionality
- 9 – 36 V DC Power
- LEMO circular power and signal connectors
- -45C° to 70C° operation
- Heat dissipating enclosure
- Three-year warranty
- Side panel dipswitch for setup



### Benefits

- Converts video to standard VGA format from legacy RGB video types
- Amplified output accommodates longer cable runs
- Extends the life of legacy RGsB and RGBs video sources
- Reduction in wiring weight and complexity – low-weight coaxial cable can be used



AVI – Optimize your sensor

# RGBs and RGsB to RGBHV Converter - Specifications

<b>Video Inputs and Outputs</b>	<ul style="list-style-type: none"> <li>• RGBs/RGsB/RGBHV             <ul style="list-style-type: none"> <li>○ Amplified (2x Gain)</li> <li>○ Connector type – BNC 75 Ω</li> </ul> </li> </ul>	<b>Model Number</b>	<ul style="list-style-type: none"> <li>• C600301-00 single channel</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>• +9 to +36 DC</li> <li>• 0.18 A @ 28V DC, Single Channel</li> <li>• Connector Type LEMO 5-pin circular</li> </ul>	<b>Environmental</b>  Designed to DO-160 Standards	<ul style="list-style-type: none"> <li>• Operating Temp Low -45°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 38C° to 95@ 50C° DO-160G Cat A</li> <li>• Operational Shock 6g @ 11ms, 20G DO-160G Cat B</li> <li>• Vibration Random, 10-2000Hz DO-160G Cat U, 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>• Ingress Rating IP67</li> <li>• Altitude Operating 50,000ft DO160G Cat D1</li> </ul>
		<b>Dimensions and Weight</b>	<ul style="list-style-type: none"> <li>• 143mm [5.63in] W, 35.31mm [1.39in] H, 66.81mm [2.63in] D</li> <li>• 0.282 kg [0.62 lbs]</li> </ul>

