



NEWS RELEASE

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Curtiss-Wright's New Format Converter Eases Integration of New and Legacy Video Equipment on Aerospace and Defense Platforms

Small, lightweight COTS-based Rugged Video Gateway Format Converter (RVG-FC1) supports 15 different video formats and resolutions

HELI-EXPO 2018 - Las Vegas, Nevada (Booth #C854) – February 26, 2018 – [Curtiss-Wright's Defense Solutions division](#) announced that it has expanded its Rugged Video Gateway (RVG) family of COTS-based video management solutions with the introduction of the [RVG-FC1, a Rugged Video Gateway Format Converter](#). As modern video equipment is rapidly integrated into airborne and ground aerospace and defense platforms, system developers are often confronted with the complex burden of converting older legacy video formats to work with a newer video management system. The time and effort needed to integrate a myriad of legacy and modern video formats and resolutions can add program risk and slow deployment. The RVG-FC1 provides a simple yet powerful solution for converting a wide range of video formats and resolutions. This small, compact unit (49 x 160 x 185 mm) weighs only 1.1 kg and operates at <15W, which means that it can easily fit into the size, weight and power (SWaP) constrained cockpits and interiors typical of helicopters and ground vehicles. This flexible unit supports 15 of the most common video formats and resolutions encountered in aerospace and defense video applications (see list below). Built to meet the rigorous DO-160 standard for avionics equipment operating temperature range, shock, vibration, and other environmental threats, the RVG-FC1 is the only video gateway on the market rugged enough to perform optimally in demanding deployed applications. It's ideal for adding video format conversion in digital video systems on board manned and unmanned airborne and ground platforms.

“To maximize the warfighter’s situational awareness, increasing numbers of video cameras and display systems are being added on board platforms” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. “Making new video equipment work with legacy systems can be costly; older and newer video formats and resolutions must be made to talk to each other. Our new RVG-FC1 video gateway format converter eliminates the integration challenge while remaining SWaP sensitive.”

Video Formats Supported by the RVG-FC1:

SDI

- SMPTE 259M (SD-SDI), SMPTE 292M (HD-SDI) and
- SMPTE 424M (3G-SDI)
- 1920x1080i @ 59.94, 50 Hz
- 1920x1080p @ 59.94, 50, 29.97, 25 Hz
- 1280x720p @ 59.94 Hz
- 720x486 @ 29.97 Hz
- 720x576 @ 25 Hz

Composite

- PAL CVBS (ITU-R BT.1700)
- NTSC CVBS (RS-170A)
- PAL Y/C
- NTSC Y/C

RGB

- VGA (640x480)
- XGA (1024x768)
- WXGA (1280x720)
- SVGA (1280x1024), UXGA (1600x1200), HD (1920x1080)
- STANAG 3350A/B/C

About Curtiss-Wright Video Management Systems

When used with other Curtiss-Wright products, video routing and switching solutions offer the user one of the most advanced and effective mission systems available in the market today. For example, the RVG-FC1 can be easily combined with Curtiss-Wright's comprehensive family of AVDU, SVDU and GVDU rugged LCD touchscreen mission displays, as well as the rugged, SWaP-optimized [VRDV7000 digital HD video recorder](#), to create a complete deployed VMS solution.

Curtiss-Wright's rugged [Video Management Systems \(VMS\)](#) provide comprehensive video conversion and distribution solutions to simplify the routing of multiple video signals on ground and airborne platforms. Typically, a video distribution system is used in applications where multiple video inputs (for example, from a multi-sensor gyrostabilized camera system) and additional signals from moving maps, mission computers, video recorders and up/down links need to be routed to multiple displays in the aircraft. COTS-based VMS units offer aircraft integrators and installers a modern solution to traditional complex aircraft installations and simplified cabling which delivers cost and weight saving.

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.com.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,600 people worldwide. For more information, visit www.curtisswright.com.

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