



## NEWS RELEASE

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### **Curtiss-Wright Debuts Industry's First Integrated 360° Situational Awareness Solution to Deliver "Near-Zero" Latency for Real-Time Glass-to-Glass Video**

*Low-latency 360SA Multi-format Video Management System delivers <30ms performance*

ASHBURN, VA. – September 28, 2021 – [Curtiss-Wright's Defense Solutions division](#), a proven supplier of [rugged video management systems](#) engineered to succeed, announces a breakthrough in rugged deployed video situational awareness for manned and unmanned ground vehicles with the 30ms latency performance of its new [360SA Video Management System](#). The 360SA integrates [state-of-the-art projected capacitive \(PCAP\) rugged touch screen displays](#) with a scalable, highly [rugged video gateway](#) and a [video format converter](#) to support the requirements of warfighters across a wide variety of vehicle types. When combined with cameras, the 360SA provides a complete situational awareness hardware solution. Video delays from sensor to display greater than 60ms can make it difficult for operators to have complete confidence that what they are seeing aligns with reality. Compared to alternative video situational awareness and driver vision enhancer (DVE) solutions that deliver >60ms latency, Curtiss-Wright's 360SA system achieves the "sweet spot" of <30ms glass-to-glass latency. This desired level of performance supports ideal driver aid and situational awareness video at full HD resolutions. The 360SA achieves its unprecedented combination of affordability and high performance with a unique design approach, including innovative FPGA video pipelines, to fulfill the promise of "real-time" through-armor and DVE performance. Working closely with industry-leading rugged camera suppliers and DVE/360SA systems experts, Curtiss-Wright can deliver complete turnkey systems. The 360SA Video Management System is the industry's first cost-effective solution to combine a low-latency video management system with a full-HD video ground mobile command control system.

“Reliable, cost-effective solutions for true low-latency video systems in military ground vehicles, which are critical for improving situational awareness and the safety of today’s warfighters, have long been desired, but until now, have been out of reach,” said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions division. “Delivering video and image from sensor to screen in real-time is the best way to get vital visual information to warfighters in a fast and effective manner, whether for local situational awareness or DVE applications. Our 360SA Video Management System seamlessly integrates all the components of an end-to-end video solution to significantly reduce the latency that has compromised previous situational awareness alternatives.”

Ideal for use in closed hatch operation of tactical vehicles, the 360SA Video Management System is a [modular open systems approach \(MOSA\)](#) based solution. Its open architecture commercial off-the-shelf (COTS) video system design is “camera agnostic” with support for 20 x SD/HD/3G-SDI, 4 x Composite/YC, and 1 x HDMI. The standard configuration features:

- [GVDU low-latency rugged LCD display](#): an innovative display solution that allows for video scaling and buffering to sub-frame latency
- [RVG-MS1 multi-sensor rugged video gateway](#): low-latency sensor distribution system providing multi-input and output capability for demanding video sensor applications
- [RVG-FC1 video format converter](#): flexible building block capable of converting between a range of video formats and resolutions (15 different formats and resolutions are supported)

### **Unmatched Near-Zero Latency Glass-to-Glass Performance**

The 360SA Video Management System’s GVDU display features unique low-latency display buffering that provides 2.7ms buffering of 1920x1080p 60fps video. On its own, this fully tested, field-proven display offers a maximum latency of just 14.86ms. When used in combination with our digital video switches, glass-to-glass latency rated at 26.8ms has been measured on deployed ground vehicle systems, with a maximum of 31.53ms.

The RVG-MS1 video gateway provides 25 inputs and 20 outputs in a unit that weighs only 3.25 kg (7.17 lbs.) and requires only 80W of power maximum. It offers a low-latency video path of 16ms. In addition, this size, weight and power (SWaP) optimized video gateway supports H264 encoding of any input. It also supports single, dual, triple, and quad views in various layouts. Curtiss-Wright’s

range of RVG products provides system designers with a scalable, building-block approach to video system design on platforms of all sizes.

In addition, image flipping and graphical overlays are available on a low-latency <30ms path, with a maximum 60ms latency when multiplexing imagery for 360-degree situational awareness.

Curtiss-Wright's video solutions meet GVA and Vehicular Integration for Command, Control, Communication, Computers, Intelligence, Surveillance, and Reconnaissance/Electronic Warfare (C4ISR/EW) Interoperability (VICTORY) standards.

To find out more about this powerful new situational awareness system, download the 360SA product sheet [here](#).

For additional information about Curtiss-Wright data storage solutions, please visit [www.curtisswrightds.com](http://www.curtisswrightds.com), LinkedIn, and Twitter @CurtissWrightDS.

### **About Curtiss-Wright Corporation**

Curtiss-Wright Corporation (NYSE:CW) is a global innovative company that delivers highly engineered, critical function products and services to the Aerospace and Defense markets, and to the Commercial markets including Power, Process and General Industrial. 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 8,200 people worldwide. For more information, visit [www.curtisswright.com](http://www.curtisswright.com).

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