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American Rheinmetall Systems – Providing Next-Generation Combat Vehicle Electronic Mission Systems

Rheinmetall's U.S. electronics business, American Rheinmetall Systems (Biddeford, ME), is introducing an expanded portfolio of combat vehicle mission systems, including an Intelligent 360° Situational Awareness System and the Trailblazer Driver's Vision Enhancement System at this year's AUSA Annual Exhibition & Conference in Washington, DC 11-13 Oct. The introduction of next-generation combat vehicle mission system technologies to American Rheinmetall Systems' portfolio of products builds on its longstanding history as a Soldier lethality system provider and as a key supplier in the U.S. Army CROWS program. The new mission systems portfolio will enable American Rheinmetall Systems to bring an even greater breadth of advanced technologies to the U.S. Army at a time when modernizing the vehicle fleet is a critical priority.

Electronic Mission Systems

The local situational awareness systems American Rheinmetall Systems will be featuring in their new-offerings are built on open systems architectures providing the framework necessary for hosting advanced AI/ML and computer vision algorithms supporting faster and more reliable decisions in conflict, critical capabilities desired by the U.S. Army in this product space. Specific products will bring to the U.S. market include:

Intelligent 360° Situational Awareness System

The 360° SAS is a modular and scalable local 360° video surveillance system for ground vehicles. The system consists of proven EO/IR modules that are integrated into a common open standards Ethernet backbone for distribution and processing. The networked video processor and distribution unit provides image stitching and display distribution, as well as advanced ATR processing capabilities for the user. The intentional modularity of the system enables specific vehicle tailoring to optimize fields of view, cable routing, power consumption and performance. Rheinmetall's advanced digital stitching technology makes the 360° SAS one of the most advanced systems on the market. The U.S. Army is exploring fielding such systems on much of its vehicle fleets including a major effort pending for the Stryker platform. At AUSA visitors to the Rheinmetall booth (#1803) can experience the 360° SAS system through a digital interactive system.

Trailblazer Driver Vision Enhancement System

Rheinmetall's Trailblazer Driver Vision Enhancement System improves driver and crew effectiveness by extending vision beyond the daylight spectrum, even in adverse weather, obscured or low-light conditions. The low latency system aids the driver in terrain negotiation, obstacle avoidance and route selection. Trailblazer will be on display at the Rheinmetall booth and teams will be onsite to talk through its capabilities and answer questions.

► Key facts



- American Rheinmetall Systems is introducing an expanded portfolio of combat vehicle mission systems
- Built on open systems architectures
- Specific products include 360° Situational Awareness System, Trailblazer Driver Vision Enhancement System and Panoview, a next generation vehicle vision system

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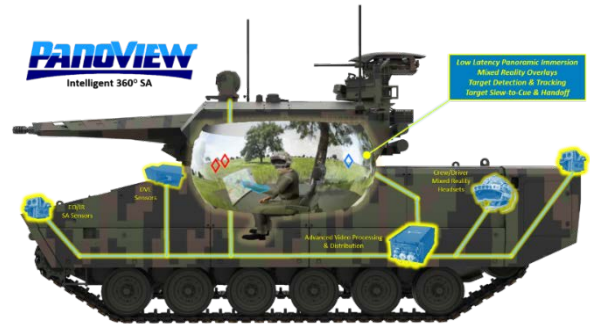
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PanoView: A Next-Generation Vehicle Vision System

PanoView is an alternative or a supplement to typical touchscreen based Crew Terminals that provides an intuitive user interface for vehicle commanders and crew via mixed reality goggles. PanoView uses goggles similar to the HoloLens or IVAS to enable the user to work in a “see-thru-armor” environment. Additionally, the PanoView image can be overlaid with additional information from the vehicle, drone video feeds, turrets, weapon stations, battle management systems, and maps or sensors. PanoView technology is TRL9 as it is currently being delivered with the 360° SAS system on the German Army Puma program.



American Rheinmetall Systems is a leader in the integration of next-generation intelligent systems for ground vehicles and ISR platforms. American Rheinmetall Systems’s solutions are purposely aligned with current modular and open systems philosophies meeting today’s open system requirements.

Rheinmetall welcomes visitors to AUSA booth #1803 to experience the Group’s offerings fitted for the Army’s future fighting force.