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18 September 2024

Rheinmetall Electronics UK's Announce ACE – Augmented Combat Environment Advanced Augmented Reality Helmet Technology

Rheinmetall Electronics UK is excited to announce the launch of the Augmented Combat Environment Augmented Reality (ACE-AR) headset at DVD 2024.

ACE-AR is a next-generation head-mounted display technology, designed for land domain vehicle crews. It addresses numerous challenges associated with delivering 360-degree situational awareness in confined, space-limited vehicle cabins, whilst minimizing eye fatigue and nausea. This solution maintains familiar standard operating procedures and provides a direct view of critical functional safety equipment. At the same time, it intuitively expands the user's situation awareness by additionally delivering extra visual information feeds, including tactical and synthetic information as well as multiple indirect vision camera views.

ACE-AR is also comfortable; it features a high-resolution dual-eye display and the best eye relief in its class. With ultra-low latency and lightweight design, the single focal plane near-eye display demonstrates a proven cognitive response speed advantage of 40%. The headset is optimized for Safe Driver Vision, which is compatible with Rheinmetall's Trailblazer driver vision system.



Rheinmetall Electronics UK will be showing ACE-AR at DVD 2024 at Rheinmetall's Stand OR-15 from 18th-19th September 2024

Rheinmetall Electronics UK Managing Director, Richard Streeter said:

“At a time when Defence is demanding both force multipliers and a reduction in sensor-to-shooter latency, ACE AR's launch delivers on British Army requirements for an augmented, continuously trained, fully protected and ultimately dominant land force. It should enhance protection from unmanned system threats by enabling increased use of hatches-down operations, and can deliver rich on-platform train-as-you-fight simulation and training outcomes. It's been thrilling to see our product and engineering teams leverage existing UK and NATO investment in state-of-the-art tactical sensors in order to realise this game changer in warfighting.”

► Key facts

- Rheinmetall Electronics UK will show their new ACE headset at DVD Stand OR-15
- ACE is designed to give 360 situations awareness in restricted view cabins
- The latest vision product in REUK's portfolio

► Contacts

Oliver Hoffmann
Head of Public Relations
Rheinmetall AG
Tel.: +49-(0)211 473 4748
oliver.hoffmann@rheinmetall.com

Dr. phil. Jan-Phillipp Weisswange
Deputy Head of Public Relations
Rheinmetall AG
Tel.: +49-(0)211 473 4287
jan-phillipp.weisswange@rheinmetall.com

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Rheinmetall Electronics UK Director of Business Development, Ross Haines said:

“ACE AR is aimed at Driver applications presently, but REUK and Rheinmetall are validating requirements now for commander use-cases and to deliver specialist operator human-machine interface improvements – ACE ARs’ sophisticated human-centric design means it is the only head-mounted display in class that offers comfortable multiple-hour operation, in a lightweight headpiece and with ease of integration in mind”

Notes to editors

Rheinmetall Electronics UK delivers high-performance embedded electronic solutions and operates from their headquarters based on the Isle of Wight in the south of England.

Rheinmetall Electronics UK provide Mission Systems to government, defence, security and communications customers. The offering includes Driver Vision and Situational Awareness systems for armoured vehicles, long-range surveillance video processors and products for Ground Based Air Defence, Simulation and Training, Electronic Warfare and Cyber applications.