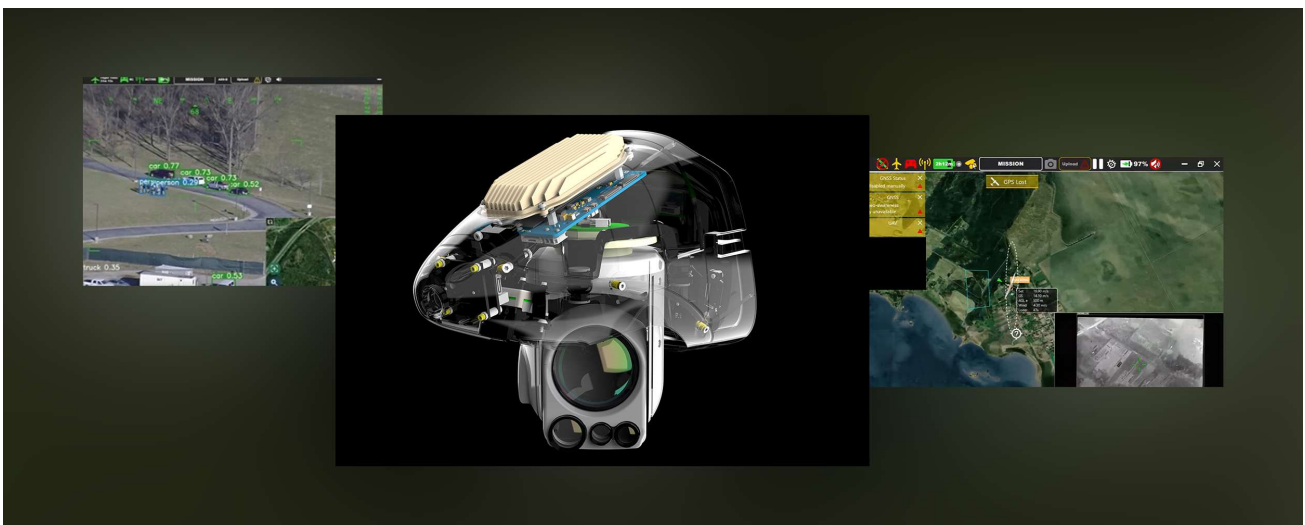




Press Release

July 12th, 2024

Quantum Systems deploys "Receptor AI" in Ukraine for the first time



Munich, Germany, July 12, 2024 - [Quantum-Systems GmbH](https://www.quantum-systems.com) confirms for the first time the deployment of a previously unreleased AI sensor upgrade of the type "Receptor AI" in Ukraine. The new upgrade kit is based on a Jetson Orin Nvidia chip and several sensors for the Vector reconnaissance drone. The further development enables optical navigation during the day and at night and in poor visibility conditions, as well as automated AI-supported object recognition and identification.

Enabling navigation in GNSS-denied conditions

In times of electronic warfare, navigation is the biggest challenge for the use of drones. The new Quantum Systems upgrade offers a further option for signal-independent positioning of reconnaissance drones and fundamentally improves their use under GNSS-denied conditions. The new module is being tested and further developed at the company's recently opened development site in Ukraine.

"Receptor AI" enables autonomous flight at night and in bad weather thanks to infrared-supported visual navigation. Object sensor technology has also been significantly improved. Hardware and software upgrades now allow better object detection, classification, identification and tracking of objects.



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Equal weight and range of the system with update kit

"We are implementing the upgrade without any weight changes and with the same range," says Daniel Kneifel, Director of Software Engineering at Quantum Systems. "We are designing these adaptations without fundamental changes to the existing platform architecture."

Sven Kruck, Managing Director of Quantum Systems, says of the new capability: "We are demonstrating that AI does not have to be an abstract topic, but offers tangible benefits in use. For Quantum Systems, the combination of hardware and software is crucial to being able to offer market-leading solutions in the field of aerial intelligence."

About Quantum Systems

Quantum Systems specializes in the development, design and production of small unmanned aerial systems (sUAS). The company's electric vertical take-off and landing (eVTOL) aircraft are designed to maximize flight endurance and versatility and provide users with a seamless user experience. Integrating cutting-edge software capabilities such as edge computing and real-time AI-powered data processing, Quantum Systems builds next-generation UAS for security, defence, public safety, commercial and geographic operations customers across the globe.

Founded in 2015, Quantum Systems is headquartered at Oberpfaffenhofen Special Airport, 20 km west of Munich, with offices in the USA, Australia, and Ukraine.

For more information about Quantum Systems, please visit www.quantum-systems.com.

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