May 31, 2023

Ministry of Defense (MoD) of Ukraine orders additional 300 Vector ™ drones from Quantum Systems

Germany, Munich, May 31st, 2023 – [Quantum-Systems](#) GmbH, the dual-use aerial intelligence company that provides multi-sensor data collection drones to government agencies and commercial customers, today announced an order of 300 additional mid-range reconnaissance drones type Vector™ in military support of Ukraine's armed forces, funded by the German Government.

Founded in 2015, Quantum Systems is at the forefront of unmanned aerial system (UAS) development. Its electric vertical take-off and landing (eVTOL) systems boast industry-leading endurance, ease of operation, and reliability, exceeding the performance of conventional UAS platforms. Quantum Systems' drones bring together the most robust and field-proven systems and commercial speed in development and innovation.

Aerial intelligence when it matters

The Ministry of Defense of Ukraine has placed a third order of 300 Vector™ systems, following two earlier orders of 105 Vector systems in January 2023, and 33 Vector systems in August 2022.

Since August 2022, Vector demonstrated its unprecedented performance under the most challenging conditions. Vector has been extensively used and intensively tested on the Ukrainian battlefield, where it has proven to be an asset for military intelligence, surveillance, and reconnaissance operations. The Vector offers unparalleled agility and rapid deployment capabilities. Ready to use in two minutes, it ensures continuous enemy target detection regardless of weather conditions, it achieves speeds of up to 72 km/h and sustains long flight times. Leveraging advanced artificial intelligence capabilities, the Vector

empowers Ukrainian forces to swiftly gather critical intelligence and gain a strategic advantage.

The Ukrainian MoD's third Vector order is a testament to Quantum Systems' commitment to support the Ukrainian MoD in the defense of their country and signifies a crucial milestone in advancing defense capabilities and fostering innovation in UAS technology. The Vector system's integration into the Ukrainian Armed Forces equips military personnel with advanced aerial intelligence and situational awareness, enabling enhanced decision-making and heightened operational effectiveness.

Quantum Systems proudly stands in solidarity with Ukraine, as highlighted by representatives of the Chief Intelligence Department of the Ukrainian Ministry of Defense in a recent statement. Quantum Systems is pleased to reaffirm its strong partnership and unwavering support for Ukraine by delivering cutting-edge Vector drones, as per Ukraine's Ministry of Defense contract.

Advancing Vector through battle-tested insights

The direct and immediate feedback received from the operators in the Ukrainian battlefield, as well as Quantum Systems' commitment to enhance security capabilities through technological advancements accelerated the system's development processes.

With on-board Artificial Intelligence, Vector provides live aerial intelligence in an efficient and user-friendly manner. The system eases the operator from constant video monitoring. Built-in algorithms allow it to automatically identify objects and immediately transmit key intelligence information to the ground. The AI Board – an NVIDIA Jetson Orin - supports and enables GNSS-denied navigation, a feature that was developed with direct feedback from the battlefield.

The self-heating Smart Battery Pack manages the power supply during operation and will extend Vector's endurance from 120 to 180 minutes. The Battery Management System transmits the battery status and warning messages to the operator, to prevent downtime and support uninterrupted detection of enemy targets.

Vector's unique open systems architecture encompassing both the autopilot's hardware and software modules, allows for seamless integration of new capabilities on an ongoing basis.

Supporting Ukraine "whatever it takes"

To further support the Ukrainian forces in their defense, Quantum Systems recently opened a Service-Training-Support and Logistics (SSTLC) Facility in Ukraine. This facility provides training for operators on the use and maintenance of the Vector™ system and is the local hub for procuring spare parts and repair services.

"Quantum Systems stands firmly in support of Ukraine and their democracy, and we are dedicated to assisting them in defending their country, whatever it takes. The trust of the Ukrainian Ministry of Defense in our systems holds immense significance for us. We consider it a privilege to contribute to Ukraine's defense, and we remain committed to delivering superior systems to their armed forces. Our unwavering belief in democratic values, coupled with the daily challenges faced by Ukrainian soldiers, fuels our motivation, and accelerates our development processes," said Florian Seibel, CEO of Quantum Systems.

QUANTUM SYSTEMS

May 31, 2023

About Quantum Systems

Quantum Systems specializes in the development, design, and production of small Unmanned Aerial Systems (sUAS). The company's range of electric vertical take-off and landing (eVTOL) sUAS are built to maximize range and versatility and provide operators with a seamless user experience. By integrating cutting-edge software capabilities like edge computing and real-time AI-powered data processing, Quantum Systems is building next-generation UAS for clients in defence, security, public sector.

Quantum-Systems was founded in 2015 and is headquartered at Special Airport Oberpfaffenhofen, 20 km west of Munich.

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

Press Contact:
Claudia Steinhoff
Phone: +49 (0)8105 7709 128
E-mail: csteinhoff@quantum-systems.com

May 31, 2023

Figure 1. General Breuer and Quantum Systems CSO Sven Kruck

Figure 2. Vector on the battlefield