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February 8, 2024

Quantum Systems introduces Qube 640 - the most efficient drone-based LiDAR system on the market.

Munich, Germany - February 8, 2024 - Quantum-Systems GmbH, the leading Munich-based innovator in drones employing state-of-the-art multi-sensor technology, announces the release of its next-generation LiDAR scanner, the Qube 640, exclusively developed in collaboration with YellowScan for the Trinity Pro eVTOL fixed-wing drone.



Quantum Systems, renowned for its innovative approach and pioneering role in LiDAR adoption for eVTOL drones since 2016, continues to advance UAV mapping solutions with the introduction of the Qube 640, which brings airborne LiDAR productivity to a lightweight drone, reducing costs while maintaining exceptional precision.

Enhancing customers' decision-making processes across varied industries

The Qube 640 redefines data acquisition across various applications. It excels in powerline inspections, vegetation surveys, archaeological exploration, and precise stand counts in forestry management. It streamlines mining operations, by providing 3D representations that aid in volume calculations and stockpile monitoring, highlighting LiDAR's versatility in



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converting data into actionable insights for diverse industries through outputs like colorized 3D point clouds, Digital Elevation Models (DEMs), and 3D contour maps.

Qube 640: Unmatched precision and efficiency

Featuring a selectable field of view (FOV) of up to 176°, the Qube 640 utilizes Trinity Pro's capabilities for an impressive 32 km corridor data acquisition. Operating at a 120° FOV, it boosts productivity by 50% compared to its predecessor, the Qube 240. The LiDAR sensor excels in detailing foliage and tree trunks, enabling vertical scanning and minimizing outer edge mismatches through the integration of an advanced IMU. Additionally, the Qube 640 features an integrated 8MP RGB camera for colorizing the LiDAR dataset in a single flight, streamlining data gathering and enhancing overall efficiency.

"I am excited to announce the Qube 640 LiDAR solution, a result of the strong partnership between YellowScan and Quantum Systems. This new solution includes innovative features like an automated command and control interface integrated into the Trinity Pro remote controller, all while maintaining industry-leading size and weight standards. YellowScan and Quantum Systems are dedicated to continually enhancing user experience and productivity for professionals who rely on our robust and reliable mapping solutions" says Tristan Allouis, CEO, YellowScan.

The most efficient LiDAR system on a drone

The Qube 640's tight integration with the Quantum-Skynode autopilot enables simple, autonomous operations and workflows, eliminating the need for constant user interactions. When combined with Trinity Pro's capabilities, the Qube 640 achieves an impressive flight endurance of 60 minutes, making it the most potent LiDAR system available on a drone. It brings airborne LiDAR efficiency to customers across industries, enabling them to map the world faster and more precisely at a much larger scale.

"The Qube 640 is a testament to our dedication to pushing the boundaries of what's possible in drone technology. With this LiDAR system, we empower professionals to make faster, more informed decisions based on accurate data, improving their workflows, and doubling their productivity" says Florian Seibel, CEO, Quantum Systems.



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The Qube 640 will be first shown at Geo Week 2024, hosted from February 11-13, 2024, at the Colorado Convention Center in Denver, CO, USA. Attendees are invited to explore its features and capabilities by visiting Quantum Systems at booth 1041.

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, and the public sector.

Quantum-Systems is a global company, founded in 2015 and headquartered at Special Airport Oberpfaffenhofen, 20 km west of Munich, with business locations in the United States, Australia and Ukraine.

For more information about Quantum-Systems visit <https://www.quantum-systems.com/>.

About YellowScan:

At YellowScan we design, develop, and build our UAV LiDAR solutions to exceed the expectations of professionals that require performance, robustness, and accuracy. Our complete hardware and software solutions are easy to use data collection tools coming with an unparalleled level of training and support from our experts.

Founded in 2012, YellowScan has customers around the world, and its products are used in surveying, forestry, environmental research, archaeology, industrial inspection, civil engineering, and mining sectors.

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