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Enhanced eVTOL UAV with PPK and new software features from Quantum-Systems

Quantum-Systems GmbH, a German-based eVTOL fixed-wing UAV company founded in 2015 and currently present at the market with its Trinity and TRON UAV systems, just announced the enhanced version of the Trinity - the Trinity F9. With the PPK module leading the way in the newly announced enhancements, the user now enjoys more accuracy, reliability and flight safety when choosing a Quantum-Systems Trinity F9. Comprehensive and state-of-the-art features are available on both sides, hardware and software.

On the hardware side the following features are released:

PPK mit iBase (PPK Base Station) for best-in-class accuracy

For all surveyors and professionals that require highly accurate data down to a few centimeters, the new Trinity F9 enables them to reduce typical GNSS geotagging errors of several meters down to 2 – 5 cm via auxiliary GNSS data collection in flight. The new PPK module comes with an additional PPK base station, called iBase, for reliable reference data in an instant. Thanks to a strong cooperation between uBlox and Quantum-Systems, massively increased data accuracy at dramatically reduced costs is now possible with the new Trinity F9.

Anti-collision lights for high flight safety

Next to the PPK module, the new Trinity F9 has integrated flashing anti-collision strobe and position lights to provide even more flight safety to its UAV pilots.

Live air traffic in QBase for advanced operational awareness

The flight safety is further increased by the automatic integration of the live air traffic info into QBase. With the help of the pingUSB from uAvionix, the UAV pilot now receives high-quality tracking data from other aircrafts around him to increase its operational awareness significantly.

As if this wouldn't be enough of enhancements for the Trinity F9, we have also amplified the scope of QBase, our ground control station. From now on, the existing as well as new users of Quantum-Systems UAVs can take advantage of the following new QBase features:

3D Planning for the most realistic mission planning

The 3D planning feature provides the automatic creation of flight plans in sloped and mountainous areas. It uses high resolution digital elevation data (e.g. SRTM) to create collision free and energy optimized trajectory for an optimal data quality results.

Resume mission for higher efficiency

A large photogrammetry mission can't be covered in a single flight can now be resumed just at the position of the last covered flight leg. QBase automatically calculates the follow-up flight plan allowing an immediate continuation of the remaining mission without the need of the further manual planning steps.

Corridor planning that fits all infrastructures

The corridor planning function creates optimized flight plans for mapping infrastructures like roads, railways and power plans. It optimizes the flight segments according to the terrain altitude as well as the camera characteristics.

The new Trinity F9 is available now to all existing resellers, end users and potential customers through our current distribution network. The delivery happens at a first-come-first-serve basis as the demand is currently unexpectedly high. The Trinity F9 comes at an unmatched retail price of 12,900 EUR (excl. VAT).

“With the launch of the Trinity back in 2015, we could continuously manifest to our user base that they can rely on a high-endurance and long-range UAV with an open source payload concept.” Florian Seibel, CEO of Quantum-Systems points out. “With its price-performance ratio and the state-of-the-art enhancements, the Trinity F9 definitely has the potential to be a game changer in the the eVTOL fixed-wing UAV market in the near future. We're excited to see our users' feedback on our Trinity F9 and how we can move from there to leverage it to the next level.”

Weblinks:

Quantum-Systems Website: <https://www.quantum-systems.com/>

This document in our blog:

<https://www.quantum-systems.com/2018/10/16/enhanced-evtol-uav-trinity-f9-with-ppk-and-new-software-features-now-available/>

Trinity F9 Website: <https://www.quantum-systems.com/trinity-f9/>

Quantum-Systems on Twitter: <https://twitter.com/quantumdrones>

Quantum-Systems on Facebook: <https://www.facebook.com/quantumsystemsHQ/>

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