

TRINITY PRO

Trinity Pro is a future-proof mapping solution, built on a reliable, easy-to-use and safe platform. It is designed to adapt to changing requirements with evolving capabilities, and to accelerate decision making through aerial data. As technology evolves, so will the Trinity Pro.

It integrates the latest Quantum-Skynode autopilot. This high performance product provides increased computing power and internal storage, as well as connectivity and AI readiness onboard the UAV.

With the ability to perform in the most challenging environmental conditions, Trinity Pro captures more data per mission than almost any other comparable drone on the market. Trinity Pro also comes with the largest range of sensors in the industry, which are simply "plug and play".





FEATURES

AI READY

The Quantum-Skynode allows for downstream integration of new capabilities, such as AI supported animal counting.

SELF-SYSTEM CHECKS

Extensive pre-flight checks and auto servo calibration gives the user confidence in the system and little to worry about.

PLAN MISSIONS WITH EASE

Set up to 300 waypoints and benefit from automatic wind simulation and advanced terrain following.

EASY TO CARRY

A backpack to carry and store Trinity Pro is offered as an option

A/B MISSIONS

Take-off and land in different locations enables long corridor mapping.

DRONE-BASED LIDAR TECHNOLOGY

The Qube 640 is a LiDAR sensor with a 176° FOV, integrated colorization through an 8MP camera, enhanced vegetation penetration and vertical scanning.

TERRAIN AWARENESS

Down facing LiDAR for safe landing through ground avoidance and embedded landing confirmation

TRINITY PRO CAMERAS

Trinity Pro users have the choice between five different fully integrated cameras, including RGB, oblique, multispectral and LiDAR. They are easy to swap using the quick-lock mechanism of the payload compartment. The entire system architecture allows easy downstream integration of next generation cameras and simpler workflows.



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TECHNICAL DATA

Max. take-off weight 5.75 kg 12.68 lbs 2.20 lbs Max. payload weight 1 kg 2.394 m 7.85 ft Wingspan 39.4 x 32.7 x 10.6 " Transport case dimension L x W x H 1002 x 830 x 270 mm Max. flight time1 90 min 90 min 100 km 62 mi Linear coverage 700 ha Area coverage2 1,730 ac Max. take-off altitude [above MSL] 4800 m 15,748 ft 18.045 ft Maximum flight altitude 5500 m Optimal cruise speed 17 m/s 33 kn

WIND TOLERANCE

Hover phase (take-off/landing)11 m/s21.4 knContinuous (cruise)14 m/s27.2 knGusting (cruise)18 m/s35 kn

Ingress protection rating IP55 IP55
Operating temperature range -12 to +50 °C 10.4 to 122 °F
Transmitter frequency 2,4 GHz 2,4 GHz

Transmitter output power 100 - 1,000 mW 100 - 1,000 mW Command and control range 5 - 7.5 km 3.1 - 4.7 mi

