

# Trinity Pro

# eVTOL fixed-wing sUAS

### Future-proof, reliable and easy-to-use professional mapping solution

Trinity Pro is our flagship eVTOL fixed-wing drone revolutionizing aerial mapping. Combining the agility of multi-rotors with the efficiency of fixed-wings, Trinity Pro covers vast areas efficiently, ensuring extended flight times and enhanced data capture. Equipped with the Quantum-Skynode autopilot and Linux mission computer, it seamlessly

integrates with advanced sensors and AI, optimizing data insights. It's modular design enables quick setup in under two minutes by a single operator. With over 115,000 flight hours worldwide, Trinity Pro sets a new standard in reliability and performance for diverse industry applications, including mining, cadastre forestry and agriculture.

## **Technical Specifications**



**Wingspan** 2.394 m



Maximum Take-Off Weight (MTOW)



Flight Time 90 minutes<sup>1</sup>



**Data Link Range** 5 - 7.5 km



**Data Link Frequency** 2.4 GHz



Packing Size 1002 x 830 x 270 mm



Cruise Speed
17 m/s (optimal)



IP Rating IP55

5.75 kg



Operating Temperature -12 °C to +50 °C



Max. Coverage 100 km or 700 ha



**Maximum Take-Off altitude** 4800 m



Wind Tolerance 11 m/s in hover phase 14 m/s during cruise<sup>2</sup>

<sup>1</sup>Subject to export regulation. Limited to 59 min by default. <sup>2</sup>Subject to export regulation. Limited to 12.8 m/s or 25 kn by default.

#### **Cameras**



#### Phase One P5

Phase One P5 stands as the world's pioneering GIS mapping sensor. The **128-megapixel** medium format camera delivers unprecedented image detail and resolution down to 0.3/0.8 cm RMS XY/Z absolute accuracy.



#### Sony ILX-LR1

The Sony ILX-LR1 is a **61 MP** resolution and 35 mm full-frame RGB camera. Enabling 260 ha coverage at 1 cm/px GSD.



#### **Qube 640**

The Qube 640 LiDAR sensor has a 176° FOV, enhancing vegetation penetration. It supports vertical scanning, minimizing edge mismatches, and integrates an 8MP RGB camera for concurrent LiDAR capture and colorization in flight.



#### **Qube 240**

The Qube 240 is a geomatics grade LiDAR providing essential information by generating an accurate point cloud of the processed environment through 240,000 measurements per



#### **Oblique D2M**

The Oblique D2M is a powerful oblique imaging system consisting of five high-resolution 26 MP multidirectional cameras, making it the ideal tool for large scale 3D photogrammetry.



#### MicaSense Altum-PT

Multispectral camera featuring five high resolution spectral bands (red, green, blue, red-edge and near infrared), a panchromatic sensor and a thermal infrared sensor

