

TRINITY™ TACTICAL

eVTOL fixed-wing mapping sUAS

Trinity Tactical is the mapping drone for professionals. It features an extended flight time of 90 minutes and easy-to-use mission planning software QBase 3D.

The choice of integrated cameras is unrivaled - RGB, Oblique, Multispectral and even LiDAR - making it the right tool for every mapping application.



Package Content

A **ready-to-fly** Trinity Tactical always includes a GNSS module for GNSS raw data collection in flight, plus the following items:

- 1 iBase Reference GNSS Base Station**
Portable base station to enable high-precision PPK processing
- 2 USB ADS-B Receiver Set**
Integrates Live-Air-Traffic-Info into QBase
- 3 Air Data Probe**
- 4 QBase 3D Software - Ground Control Station**
Mission Planning Software, including QBase Modem Longrange 2.4 GHz and cable
- 5 Manual Controller**
Wire-bound controller for manual intervention in critical flight phases or emergency situations
- 6 3 Battery Packs and 1 Charger Unit**
- 7 Anemometer**
- 8 Lightweight Transport Case**

Technical Data

Max. Take-off Weight	5.75 kg (12.7 lbs)
Max. Flight Time	90+ min
Max. Range = Area	100 km ² 700 ha ¹
Maximum Flight Altitude (MSL)	5500 m ² (18045 ft)
Command and Control Range	5 - 7.5 km (3.1 - 4.7 mi)
Optimal Cruise Speed	17 m/s (33 kn)
Wind Tolerance Hover Phase (take-off/landing)	up to 11 m/s ³ (21.4 kn)
Wind Tolerance Continuous (cruise)	14 m/s (27.2 kn) ⁴
Wind Tolerance Gusting (cruise)	18 m/s (35 kn) ⁴
Operating Temperature Range	-12 °C to 50 °C (10.4 °F to 122 °F)
Wingspan	2.394 m (7.85 ft)
Transport Case	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)
Backpack	1100 x 580 x 280 mm (43.3 x 22.3 x 11.0")

¹ Subject to export regulation, may require export permission.

² Please be aware that the flight time and max. wind tolerance are reduced with increasing flight altitude. Varies based on weather conditions; tested at 15 °C (59 °F). For further details read the user manual chapter 3.1.

³ Please be aware that the max. wind tolerance is reduced with increasing flight altitude.

⁴ Subject to export regulation. Limited to 12.8 m/s or 25 kn by default.

Cameras



Sony RX1R II

Art.: 4260574665517

CMOS full-frame sensor and fixed focal length lens.
42.4 MP resolution.



Qube 240 LiDAR

Art.: 4260574665524

Active LiDAR system with 240,000 points per second. Includes one year of YellowScan CloudStation software.



MicaSense RedEdge-P

Art.: 4260574665562

Multispectral camera featuring five spectral bands (red, green, blue, red-edge and near infrared) and a panchromatic sensor. Calibration panel DLS2 not included.



MicaSense Altum-PT

Art.: 4260574665555

Multispectral camera featuring five high resolution spectral bands (red, green, blue, red-edge and near infrared), a panchromatic sensor and a thermal infrared sensor. Calibration panel DLS2 not included.

System Supplements



DLSII Kit (Plug & Play)

for enhanced light calibration

Art.: 4260574665739

Mandatory for MicaSense camera to achieve optimal results.

Calibrated Reflectance Panel (CRP)

Art.: 4260574660758

Mandatory for MicaSense cameras to achieve optimal results.

Trinity Tactical DLSII Mount Kit

Art.: 4260574665746

Software

CloudStation Core

Art.: 4260574663322

Special version for Qube 240 annual license (2nd and following years)

CloudStation Core

Art.: 4260574665395

Special version upgrade to perpetual license including 1 year software maintenance.

CloudStation Strip Adjustment Module

Annual license Art.: 4260574663056

CloudStation Strip Adjustment Module

Upgrade to perpetual license Art.: 4260574665401

CloudStation Terrain Module

Annual license Art.: 4260574663353

CloudStation Terrain Module

Upgrade to perpetual license Art.: 4260574665418

Applanix POSPac UAV

Annual subscription Art.: 4260574663063

Applanix POSPac UAV

Perpetual license, with one year maintenance Art.: 4260574663070

Applanix POSPac UAV

1-year subscription for software maintenance Art.: 4260574663797

CloudStation Colorization from Orthophoto Module

Annual subscription Art.: 4260574664992

CloudStation Colorization from Orthophoto Module

Perpetual license Art.: 4260574665487

CloudStation Colorization

Upgrade to perpetual license Art.: 4260574665494

CloudStation

1-year software maintenance for perpetual bundle (Core, Strip, Terrain, Colorization) Art.: 4260574664992

Post-processed Trimble CenterPoint RTX

Subscription (6 months) Art.: 4260574664909

Post-processed Trimble CenterPoint RTX

Subscription (12 months) Art.: 4260574664916



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