Trinity™ Pro

Next-generation e VTOL fixed-wing mapping drone

Trinity Pro 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 any mapping application.

Package Content

A **ready-to-fly** Trinity Pro 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 ≙ 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)
IP Ingress Rating	IP 55

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.

Oblique D2M
Art.: 4260574665531

Features five separate lenses and sensors (1 nadir, 4 oblique) at 26 MP each, to capture high resolution RGB imagery.

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.

Qube 240 LiDAR
Art.: 4260574665524

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

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 Pro DLSII Mount Kit
Art.: 4260574665746

Scan QR code and learn more

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*

QUANTUM SYSTEMS