quantum systems

90 min. flight time

PPK

High power motors

ADSB out optional

New payload selection

Flexible landing gear

TRINITY F90+

PACKAGE PRICE

- **Trinity F90+ UAV**

- **PPK**
  Allows you to reduce typical GNSS geotagging errors of several meters down to 2 – 5 cm via auxiliary GNSS data collection in flight. Better accuracy with dramatically reduced additional costs!

- **Anti-Collision-Lights**
  Our Trinity F90+ UAV has integrated flashing anti-collision strobe and position lights.

- **Live-Air-Traffic**
  Now it is possible to automatically integrate the Live-Air-Traffic-Info into QBase when pingUSB is connected. pingUSB is the world's smallest, lightest and most affordable USB dual-band ADS-B receiver. pingUSB provides high-quality tracking data for use with software such as Virtual Radar Server and services including ADS-B Exchange.

- **iBase**
  iBase is a reference GNSS station, it allows for the relative (and at externally georeferenced points absolute) geotagging precision of aforementioned PPK quality via logging the GNSS reference measurements on the ground to later use them in QBase flight data post-processing.

- **QBase** – Ground Control Station
  Mission planning software, runs on any Windows PC / Laptop
    • Corridor Planning, Live-Air-Traffic, Resume Mission

- **Remote Controller (RC)**

- **Battery Pack + Battery Charger**

- **Lightweight Transport Case**

- **Warranty** (1 year)

- **Technical Support**

TECHNICAL DATA

Max. Take-off Weight	5.0 kg (11.0 lbs)
Max. Flight Time	90 min[*]
Max. Range = Area	100 km = 700 ha (62 mi = 1730 ac)
Command and Control Range	5 – 7.5 km[**] (3.1 – 4.7 mi)
Payload (with compartment)	max. 700 g (1.54 lbs)
Optimal Cruise Speed	17 m / s (33 kn)
Wind Resistance (ground wind)	up to 7 m / s (13.6 kn)
Wind Resistance (in cruise flight)	up to 12 m / s (23.3 kn)
Temperature Resistance (UAV)	-12 °C to 50 °C (10.4 °F to 122 °F)
Wingspan	2.394 m (7.48 ft)
Transport Case Dimension	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)

[*] export permission required
[**] under optimal conditions.

starting at **14.900 €** /excl. VAT

COMPARTMENTS

All sensors are delivered integrated in the 3D Print Payload Compartment including the multifunctional interface board.

	Sony UMC Sony UMC-R10C 20.1 MP Sensor with 16 mm fixed focal length	**1.950 €**
	Micasense RedEdge-MX New metal case for extreme durability; New DLS 2 for enhanced light calibration; Captures five narrow spectral bands; Generates plant health indexes and RGB (color) images. Including Calibrated Reflectance Panel (CRP).	**6.290 €**
	Double Payload **Sony UMC +** **Micasense RedEdge-MX**	**7.690 €**
	Sony RX1R II CMOS full format sensor and fixed focal length lens 42.4 megapixel resolution	**4.650 €**
	Micasense Altum Altum integrates a radiometric thermal camera with five high-resolution narrow bands, producing advanced thermal, multispectral and high-resolution imagery in one flight for advanced analytics. Including DLS2 and Calibrated Reflectance Panel (CRP).	**10.990 €**

OPTION

ADSB out Transponder	**2.490 €**
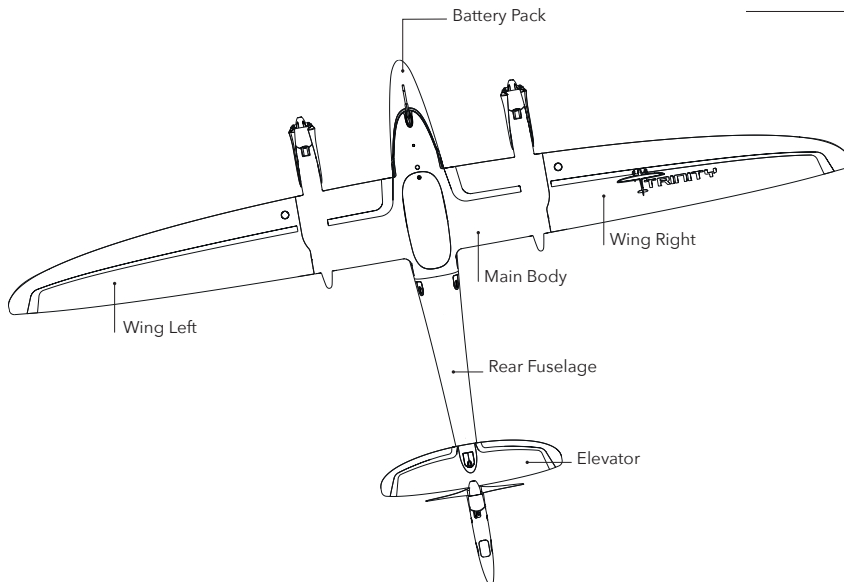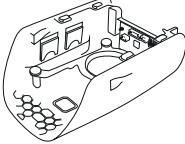
SPARE PARTS

Elevator*	**90 €**
Battery Pack* Capacity 12.000 mAh	**590 €**
QS Battery Charging Station + Power Supply Easily Charge / Discharge your Trinity F90+ Battery packs.	**390 €**
Outside wing* (left or right)	**each 300 €**
Rear fuselage* Integrated wiring, PPK, motor and reinforced structure	**1.950 €**
Strobe Lights* RED, GREEN and WHITE, incl. charger, Excluding micro-USB cable	**50 €**

*Can be replaced by the customer.
Modifications and 3rd party products will void warranty.

ACCESSORIES

	Payload Compartment 3D Print payload (90 g) including Multipayload interface board to control the sensors (30 g).	**540 €**
	Additional Training Training for two persons. Improve your mission planning and / or learn how to operate your Quantum product properly.	**1.000 €** *(per day)*
	Post-Processing Basic Improve your photogrammetric analysis and learn how to make the necessary adjustments for the expected accuracy.	**1.000 €** *(per day)*
	Spare Parts & Service Please get in touch with us directly. Our support team will create an individual repair or service solution for you depending on your request. Please contact support@quantum-systems.com	

Labels: Battery Pack, Wing Right, Main Body, Wing Left, Rear Fuselage, Elevator