quantum systems

PPK

ANTI-COLLISION-LIGHTS

LIVE AIR TRAFFIC

iBASE (PPK BASE STATION)

TRINITY F9

PACKAGE PRICE

- **Trinity F9 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 F9 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 ping USB 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
    • 3D Planning, Corridor Planning, Live-Air-Traffic, Resume Mission

- **Remote Controller (RC)**

- **Battery Pack + Battery Charger**

- **Lightweight Transport Case**

- **Warranty** (1 year)

- **Technical Support**

TECHNICAL DATA

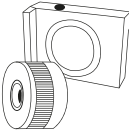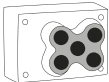|	
Max. Take-off Weight	4.5 kg (9.9 lbs)
Max. Flight Time	60 min
Max. Range = Area	70 km = 500 ha
Command and Control Range	up to 2 km (1.24 mi)
Command and Control Range (Long-Range optional)	5 – 7.5 km* (3.1 – 4.7 mi)
Payload (with compartment)	max. 550 g (1.2 lbs)
Optimal Cruise Speed	17 m / s (33 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	-12 °C to 40 °C (10.4 °F to 104 °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)

**under optimal conditions.

starting at **12.900 €** /excl. VAT

COMPARTMENTS

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

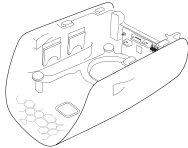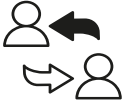|		
	Sony UMC	**1.950 €**
	Sony UMC-R10C 20.1 MP Sensor with 16 mm fixed focal length	

	A7R FT with SONY lens SEL35F28Z ZEISS	**4.450 €**
	Full-Frame Mapping Camera + Fixed focal length, 35 mm, F2.8, full format, 36.4 MP	

	RedEdge MX	**6.290 €**
	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).	

SPARE PARTS

Elevator*	**90 €**
Battery Pack*	**590 €**
Capacity 10.000 mAh	
QS Battery Charging Station + Power Supply	**390 €**
Easily Charge / Discharge your QS Battery packs.	
Outside wing* (left or right)	**each 300 €**
Rear fuselage*	**1.950 €**
Integrated wiring, motor and reinforced structure	
Strobe Lights*	**50 €**
RED, GREEN and WHITE, incl. charger, Excluding micro-USB cable	

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

ACCESSORIES

	Payload Compartment	
	3D Print payload (75 g) including Multipayload interface board to control custom sensors (30 g).	**540 €**
	PCB is based on Cortex-M4 ARM processor, providing 5V, 8V and 12V DC. 4 x Servo, 1 x SPI, 1 x I2C, 2 x UART TTL, 1 x UART RS232, 1 x SD Card slot (SDIO), 1 x CAN and 3 x GPIO.	

	Additional Training	**1.000 €**
	Training for two persons. Improve your mission planning and / or learn how to operate your Quantum product properly.	*(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

Battery Pack

Outside Wing Right

Main Body

Rear Fuselage

Outside Wing Left

Elevator