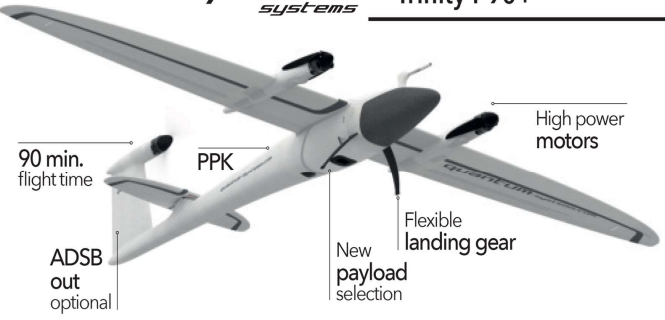


quantum systems Trinity F90+



BASE PACKAGE

- **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**
If remote ID is required by law, Quantum-Systems will offer an upgrade option free of charge for all Trinity F90+ being delivered after April 1st 2021.

READY COMPARTMENTS

- **Payload Compartment**
3D Print payload (90 g) including multi-payload interface board to integrate pre-defined cameras. Excl. cameras.
Sony RX1RII Ready Art.: 4260574662134
- **MicaSense RedEdge-MX Dual Ready**
Art.: 4260574662127
- **MicaSense RedEdge-MX Ready**
Art.: 4260574662141
- **MicaSense Altum Ready**
Art.: 4260574662097



COMPARTMENTS

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

- **Sony UMC** Art.: 4260574661571
Sony UMC-R10C 20.1 MP Sensor with 16 mm fixed focal length.
- **Sony RX1R II** Art.: 4260574661588
CMOS full format sensor and fixed focal length lens. 42.4 MP resolution
- **Sony UMC + TX-Thermal** Art.: 4260574663629
This package includes the TX Thermal Payload with the Sony UMC. Thus, an area can be mapped in parallel both thermal and via RGB.

- **MicaSense RedEdge-MX** Art.: 4260574661595
Captures five narrow spectral bands; Excl. DLS II and Calibrated Reflectance Panel (CRP).
- **MicaSense Dual Camera Kit** Art.: 4260574662073
MicaSense RedEdge-MX + RedEdge-MX Blue Synchronized capture of all 10 bands for pixel aligned imagery. Excl. DLS II and CRP.
- **MicaSense RedEdge-MX Blue Ready** Art.: 4260574662103
Ready for MicaSense RedEdge-MX camera. New coastal blue band, a new green band and three new bands in the red to red-edge region of the spectrum. Excl. DLS II and CRP. Incl. RedEdge-MX Blue. Excl. RedEdge-MX

- **Double Payload Sony UMC + MicaSense RedEdge-MX** Art.: 4260574661601
Excl. DLS II and CRP.
- **Sony UMC + MicaSense RedEdge-MX Ready** Art.: 4260574662080
Ready for MicaSense RedEdge-MX camera. Incl. Sony UMC. Excl. Red-Edge-MX.
- **MicaSense Altum** Art.: 4260574661977
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. Excl. DLS II and CRP.
- **Qube 240 LiDAR** Art.: 4260574663049

TECHNICAL DATA

	LOCKED <60 MINUTES	UNLOCKED 90+ MINUTES ¹
Max. Take-off Weight	5.0 kg (11.0 lbs)	5.0 kg (11.0 lbs)
Max. Flight Time	<60 min	90+ min ¹
Max. Range = Area	70 km = 500 ha	100 km = 700 ha
Maximum flight altitude (MSL)	4500 m (14763.8 ft) ²	4500 m (14763.8 ft) ²
Command and Control Range	5 - 7.5 km (3.1 - 4.7 mi)	5 - 7.5 km (3.1 - 4.7 mi)
Payload (with compartment)	max. 700 g (1.54 lbs)	max. 700 g (1.54 lbs)
Optimal Cruise Speed	17 m/s (33 kn)	17 m/s (33 kn)
Wind Tolerance (ground)	up to 9 m/s (17.5 kn) ³	up to 9 m/s (17.5 kn) ³
Wind Tolerance (cruise)	12 m/s (23.3 kn)	12 m/s (23.3 kn)
Operating temperature range	-12°C to 50°C (10.4°F to 122°F)	-12°C to 50°C (10.4°F to 122°F)
Wingspan	2.394 m (7.85 ft)	2.394 m (7.85 ft)
Transport Case Dimension	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)	1002 x 830 x 270 mm (39.4 x 32.7 x 10.6 inch)
Transport Case Weight (3 batteries)	22.3 kg (49.1 lbs)	22.3 kg (49.1 lbs)

OPTION

- **Trinity F90+** Art.: 4260574661427
- **Trinity F90+ ADS-B** Art.: 4260574661748
Mandatory to buy the Mode S ADS-B out Transponder
- **DLSII Kit (Plug & Play)** Art.: 4260574663094
for enhanced light calibration
Mandatory for MicaSense camera to achieve optimal results
- **Calibrated Reflectance Panel (CRP)** Art.: 4260574660758
Mandatory for MicaSense camera to achieve optimal results
- **PingSS MODE S ADS-B out Transponder** Art.: 4260574662059
- **PingSS MODE S ADS-B out Transponder** Art.: 4260574662059 (subsequent upgrade)

ACCESSORIES

- **Signal Stickers** Art.: 4260574661960
4 pieces of signal stickers. 2x green (top & bottom) for left wing, 2x red (top & bottom) for right wing.
- **Additional Training** Art.: 1-60-7
Training for two persons. Improve your mission planning and/or learn how to operate your Quantum product properly.
- **Post-Processing Basic** Art.: 1-60-8
Improve your photogrammetric analysis and learn how to make the necessary adjustments for the expected accuracy.
- **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

SPARE PARTS

- **Elevator** Art.: 4260574661410
- **Battery Pack** Art.: 4260574661335
Capacity 12.000 mAh
- **QS Battery Charging Station + Power Supply incl. 12V Clamp Power Cords**
Easily Charge / Discharge your Trinity F90+ Battery packs.
US (Type B) Art.: 4260574660673
UK (Type I) Art.: 4260574660680
- **Outside wing**
(left Art.: 4260574661397 or right Art.: 4260574661380)
- **Strobe Lights** Art.: 4260574661052
RED, GREEN and WHITE, incl. charger, excl. micro-USB cable
*Can be replaced by the customer.

REPLACEMENT COVERAGE PLAN

- **Replacement Coverage Plan #1** Art.: 4260574663124
Subsequent Purchase or Extension
- **Replacement Coverage Plan #2** Art.: 4260574663155
Subsequent Purchase or Extension
- **Replacement Coverage Plan #1** Art.: 4260574663162 RCP Extension
(If the drone replacement was not claimed in the previous year)
- **Replacement Coverage Plan #2** Art.: 4260574663179 RCP Extension
(If the drone replacement was not claimed in the previous year)

