The new H850-RTK is designed specifically with inspections, surveying, public safety applications and fawn rescue in mind.

Our hexacopter design offers more safety, power, efficiency, stability and capacity to carry heavier payloads.
Depending on the payload and weather conditions, flight times up to 65 minutes are possible. All H520E payloads are compatible with the H850-RTK. This makes it easier for you to use our payloads on two different platforms: the H520E & the H850.

In addition to the performance and payload flexibility, great emphasis was placed on the H850 flight and data security when developing it. Flight data belongs to you and to nobody else.

The H850 is equipped with a dual IMU, compass, barometer, dual RTK antennas and two smart batteries. Even with only five motors running you are able to land

the H850 safely. You can install with one click the YCAP-certified Drone-Tag device for remote ID, which will become mandatory in Europe in 2023.

The H850 will be available for purchase from the first of August, 2022.

If you have any pre-sales questions or would like to schedule an online H850 application presentation, hit reply to this email or contact us through our dedicated phone number +49 (0) 4191 93 26 0.

Team Yuneec Europe.

SPECIFICATIONS

Weight:	5800 gram, inclusive 2 flight
MTOW:	8800g
Max Payload Weight:	3000g
Diagonal Size:	850mm
Unfolded:	440×365×470 mm
Max Ascend Speed:	3 m/s
Max Descent Speed:	2-5 m/s
Max Horizontal Speed:	20 m/s
Max Flight Speed:	72 km/h
Max. Flight Ceiling (MSL):	5000m
Max Flight Time:	65 minutes (without payload
Battery 23,1volt:	2x Li-ion HV, 6S,12800mAh
Position System:	GPS, Glonass, Beidou&Galile
Hovering Accuracy(Single):	Horizon:±0.5m Vertical:±0.5m
RTK(RMS) Accuracy:	1cm +1ppm(H); 1.5cm+1pp
Operating Temperature:	-20℃-50℃ -4° F -122° F
Payload Connector:	X-connector
Compatible Payloads :	E20TVx, E90X, E30Zx, ETx,
Upward Gimbal:	Optional
Hot-swappable Batteries & Payloads:	Yes
IP:	x5

Collision Avoidance System: Millimeter-wave Radar (optic

Remote Controller: T-One

GMAC 1000Mb, USB-C, USB

Connectivity Ports and Power Supply H850: 5v+GND, 2x PWM,2x GPIO,

power requirements.

Operating Frequency: 2.4000-2.4835GHz & 5.725-

Autopilot: PX4 Based

Drone Remote Identification Device (EU): LTE+Bluetooth, incl. app and

- 7-inch touch screen
- 1920x1200 screen resolution
- 1000 nit luminance
- 15 km range Fcc
- 8 km range Ce
- 8 hours of operation time
- 10.000 mAh/7.4-volt battery
- 40 Mbps dual-band
- Dynamic Frequency hopping
- IP x4
- Cortex A72&A53 high-performance processor
- Android 10
- 32Gb ROM / 4 Gb RAM

- HDMI
- USB-C, USB-3 & USB-2
- Micro SD
- 1.2 kg only
- No data sharing

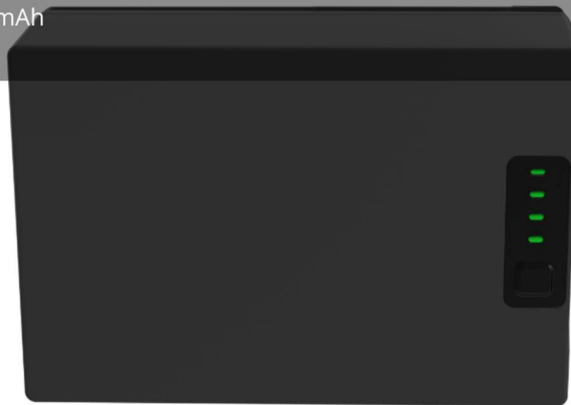

RTK
Centimeter-level accuracy

- RTK (Real-Time Kinematic) module for high accuracy relative positioning: 1cm +1ppm(H); 1.5cm+1ppm(V)

- Dual RTK-antenna for high precision positioning. The dual antennas on the H850-RTK ensure that one antenna is always transmitting in the event that one becomes disabled

- Keep cm precision in even GNSS challenging environment

- Built for faster and more precise mapping (e.g. complex surveying, inspections, mapping, 3D displays)

- 5 Hz update rate of position, velocity and time

- All data including raw GNSS data and real-time solutions can be logged on board - ready for PPK (Post Processed Kinematics)

- Support signals of up to four GNSS constellations among GPS, GLONASS, Galileo and BeiDou

- Compatible with all existing Yuneec H520E camera payloads

H850 Batteries
23,1v-12800 mAh

Size: 98×58×149mm

Battery Capacity: 12.800mAh

Battery Wattage: 295.68Wh

Standard Voltage: 23.1v (3.85v/cell)

Charging Voltage: 26.4v

Battery Type: Li-ion

Fast Charge: 1C (10 Amp）

Charging Time: 1,5 hours

Max Continuous Discharge Current: 64A

Maximum Discharge Current: 128A

Weight: 1390 gram

Operating Temperature: 0℃+45℃

Charger Case
Power Charger Case

With the H850 Power Charging Case, you are able to charge four H850 batteries and two T-one batteries simultaneously!

Thanks to the hard-case design you can store and transport the batteries safely. The compact design makes it able to carry the power Charging Case easily.

SPECIFICATIONS

- 3.5" Color LCD Display
- 1140 watt (200v-250v)
- 220/110 volt
- Transport case
- Easy to operate
- Buzzer alarm
- Compact (370×270×220mm)
- Foam cover battery protection

What's Inside?
#YUNH850EUSC

1x H850-RTK

2x Flight battery

1x T-one controller

1x T-one battery

1x Transport case

1x Charger case

1x Repair tool kit

1x Quick start guide

1x Reference card

PAYLOADS | E90x | E30Zx | ETx | E10Tx | E20TVx |

All H520E payloads, incl. LaQuinta, are compatible with the H850

NEW PAYLOADS:

42 MP Camera for surveying

Digital loudspeaker 300-500 meters broadcast range

Spotlight 13400-lumen

Geosun GS100C+ LIDAR Long detection range