

www.efy-tech.com



一飞智控
efy technology

EFY Technology Logistics UAV system

EFY Intelligent Control (Tianjin) Technology Co., Ltd.

Automatic logistic UAV system

EFY automatic logistic UAV system is a fully unmanned solution combining software and hardware which include Unihangar, Unidelta/UnilarkD6 and BAS cloud platform software. The hangar can be deployed easily near the mission area and provide the power for the UAV. The UAV can take-off, perform delivery missions, land and be recharged automatically. The logistic management system based on the "BAS" cloud platform which contain interaction of control function, equipment management, user management, sensor monitoring and so on. It makes the logistics and transportation more intelligent.

Logistic UAV solutions

▼ Logistics UAV series



Twin-rotor oil-powered UAV—Unihawk 240

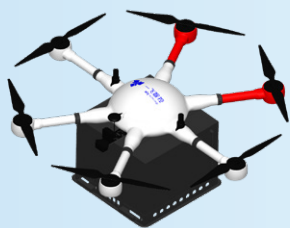


Logistic UAV— UnilarkD6



Multi-rotor platform Unihawk80E

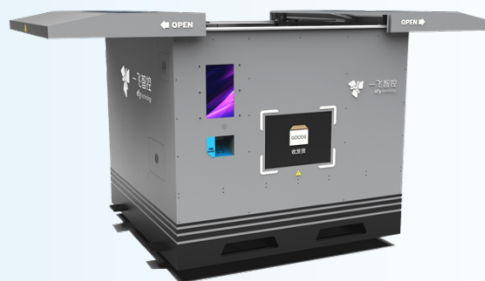
▼ Automatic UAV logistic system



Logistic UAV— UnilarkD6



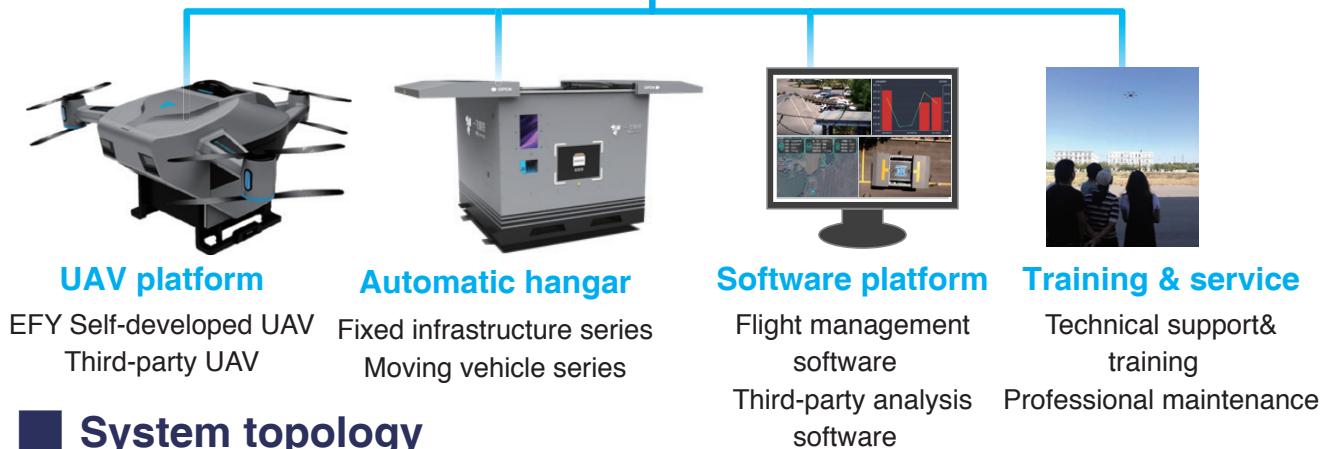
Logistic UAV—Unidelta



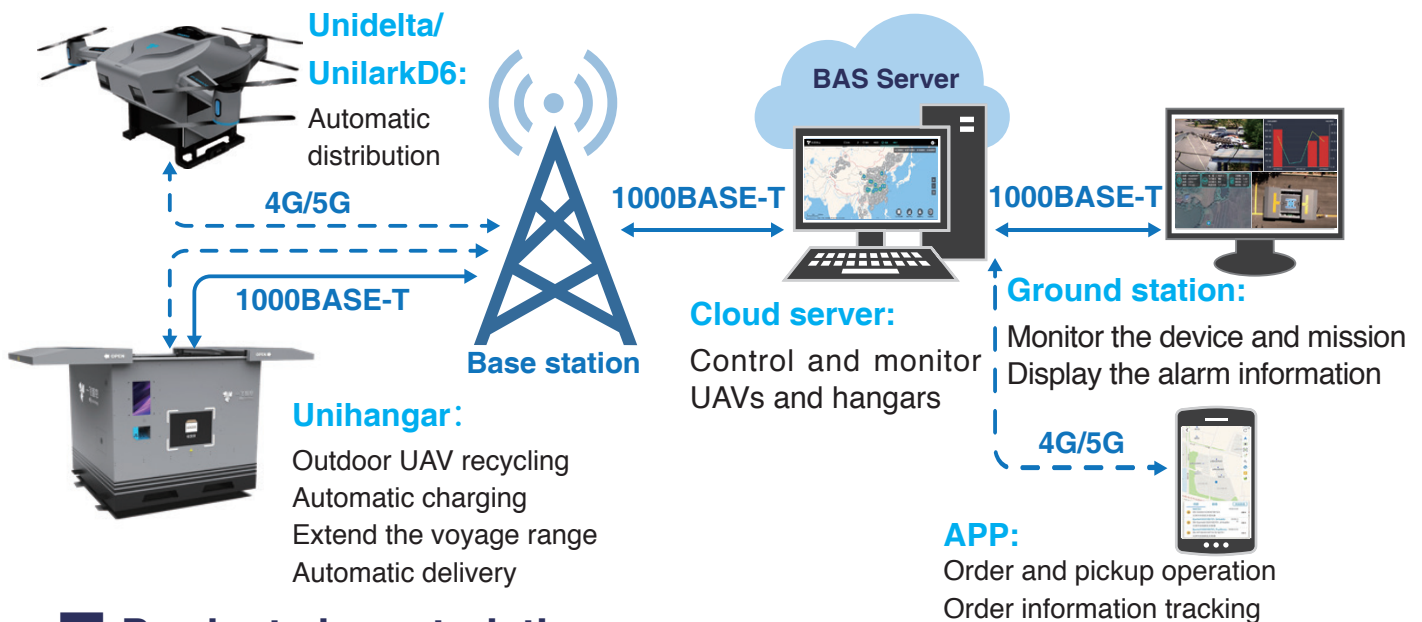
Automatic hangar—
Unihangar

System introduction

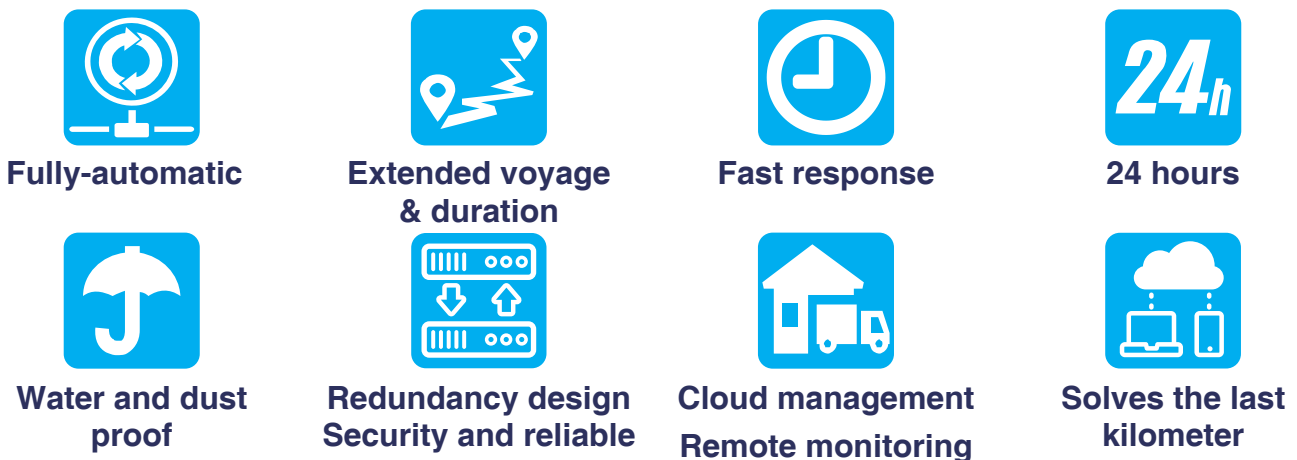
EFY one-stop solution



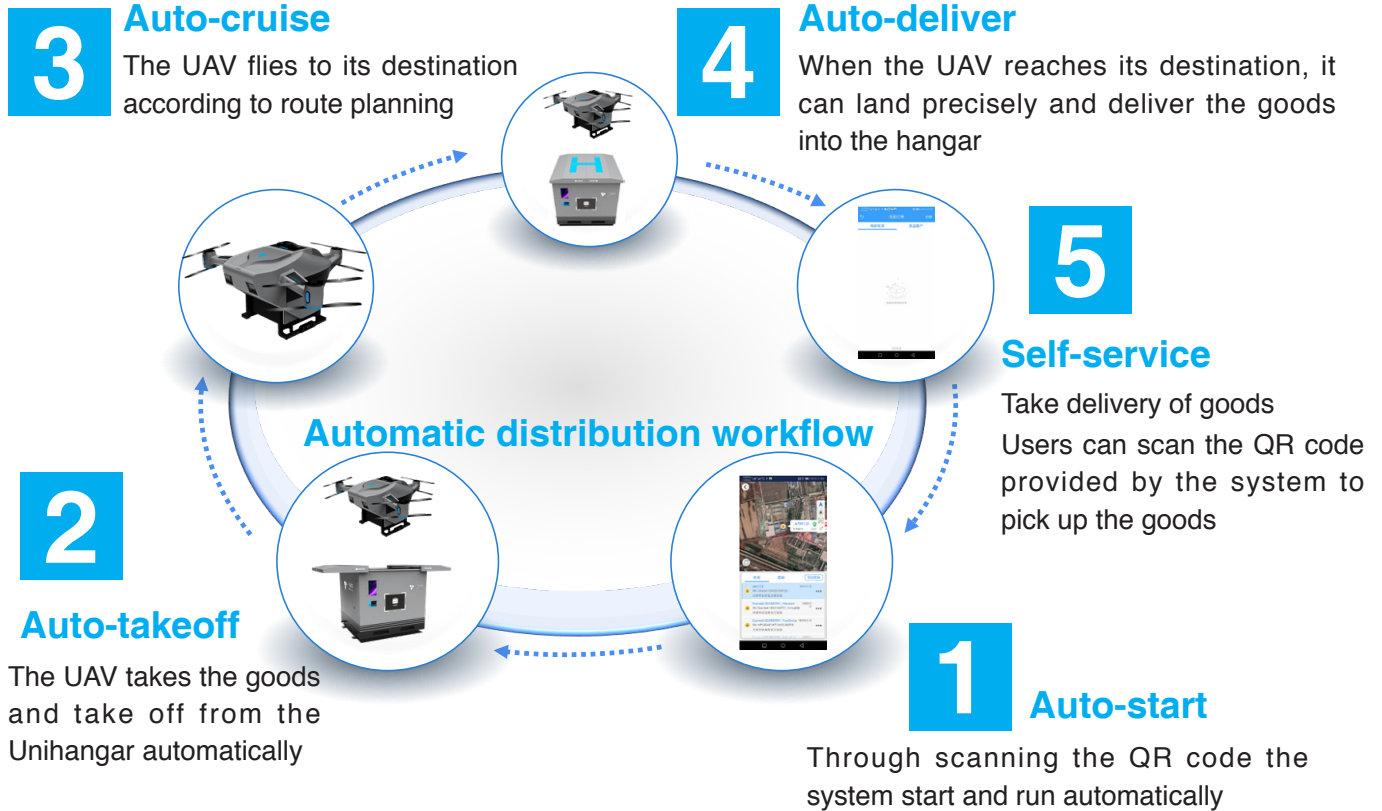
System topology



Product characteristic



Work procedure



Security & reliable

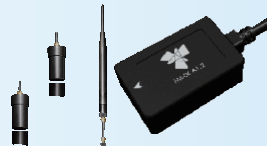
Redundant design



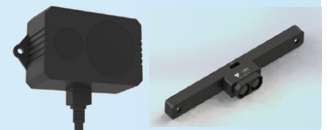
Redundant satellite navigation system
RTK & GPS module



Redundant communication link
4G & Data link module



Redundant directional system
RTK & Magnetic compass module



Redundant landing guidance
Laser & visual module

Security design



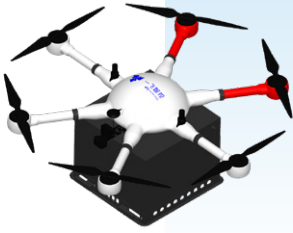
Emergency parachute



Propeller failure protection

Product parameters

Unilark-D6 UAV platform



General purpose:

Arm detachable, foot frame and load replaceable

Precision:

Centimeter-level high precision positioning

Flexible:

Manual and Unmanned loading and unloading

Redundancy:

Redundant satellite navigation system

Redundant directional module

Redundant UAV landing guidance sensor

Size	1.8m*1.8m*0.51m
Maximum load	8kg
Maximum flight distance	20km
Wind resistance	Level-5
Protection grade	IP54
Maximum take-off weight	21kg
Maximum endurance	30min
Case size	customizable
Maximum speed	18m/s
Position precision	±15cm
Compatible casting	customizable

Unidelta logistic UAV



Specialization:

Integrated intelligent cargo compartment

Compatible with manual and unmanned loading

Intelligent:

Intelligent monitoring function

Paddle alignment technology

Intelligent charging technology

Precision:

Centimeter-level precision positioning

Redundancy:

Redundant satellite navigation system

Redundant directional module

Redundant UAV landing guidance sensor

Size	1.4m*1.4m*0.63m
Maximum load	5kg
Maximum flight distance	10km
Wind resistance	Level-5
Protection grade	IP54
Maximum take-off weight	23kg
Maximum endurance	20min
Case size	350*350*250mm
Maximum speed	12m/s
Position precision	±15cm
Compatible casting	Support

Unihangar logistic hangar



Intelligent:

Automatic UAV outdoor storage/protection

Automatic charging of UAV

Integrated meteorological sensor, real-time aircraft scheduling

Security:

Integrated sensors can automatically sense the environment situation

Expandability:

Though add the unihangar to extend UAV flight range

Compatibility:

Compatible with different UAV platforms

Size(ceiling opened)	3.7m*2m*2m
Size(ceiling closed)	2m*2m*2m
Weight	700kg
Power supply	220VAC
Charging time	1hour
Backup power	UPS
Maximum power	300W
Size of the door	550mm*383mm
Weather station support	optional
RTK base station	optional

Atmosphere station & RTK base station



Atmosphere station:

Weather information of wind, wind direction, rain and snow, temperature, humidity and pressure

RTK base station:

RTK differential data source is provided by base station to realize the centimeter-level precision positioning

Operation temperature	-40~70 °C
Storage temperature	-40~85 °C
Frequency band	L1 L2
	B1 B2
	G1 G2
	E1 E5b
Positional accuracy	Horizontal: 1cm+1ppm Vertical: 2cm+1ppm
Number of satellite	22(typical)
Range of the datalink	10km(nominal)
Communication mode	4G and datalink