

www.efy-tech.com



一飞智控
efy technology

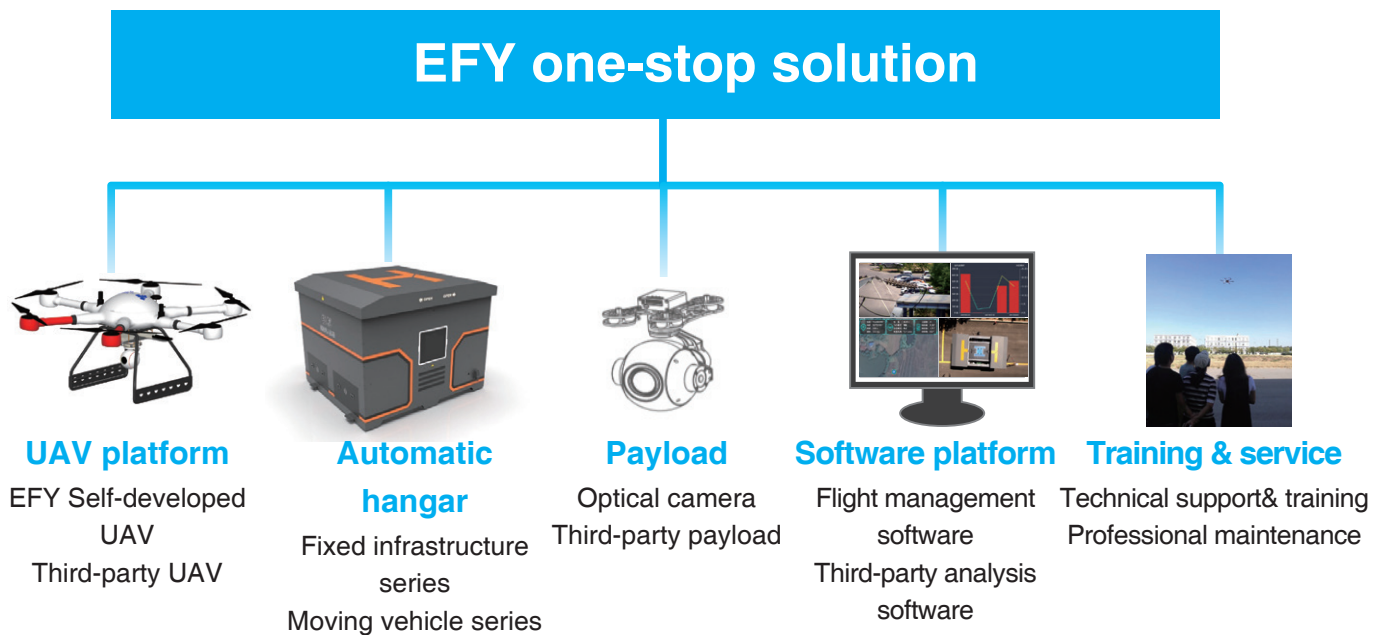
EFY Technology Inspection UAV solution

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

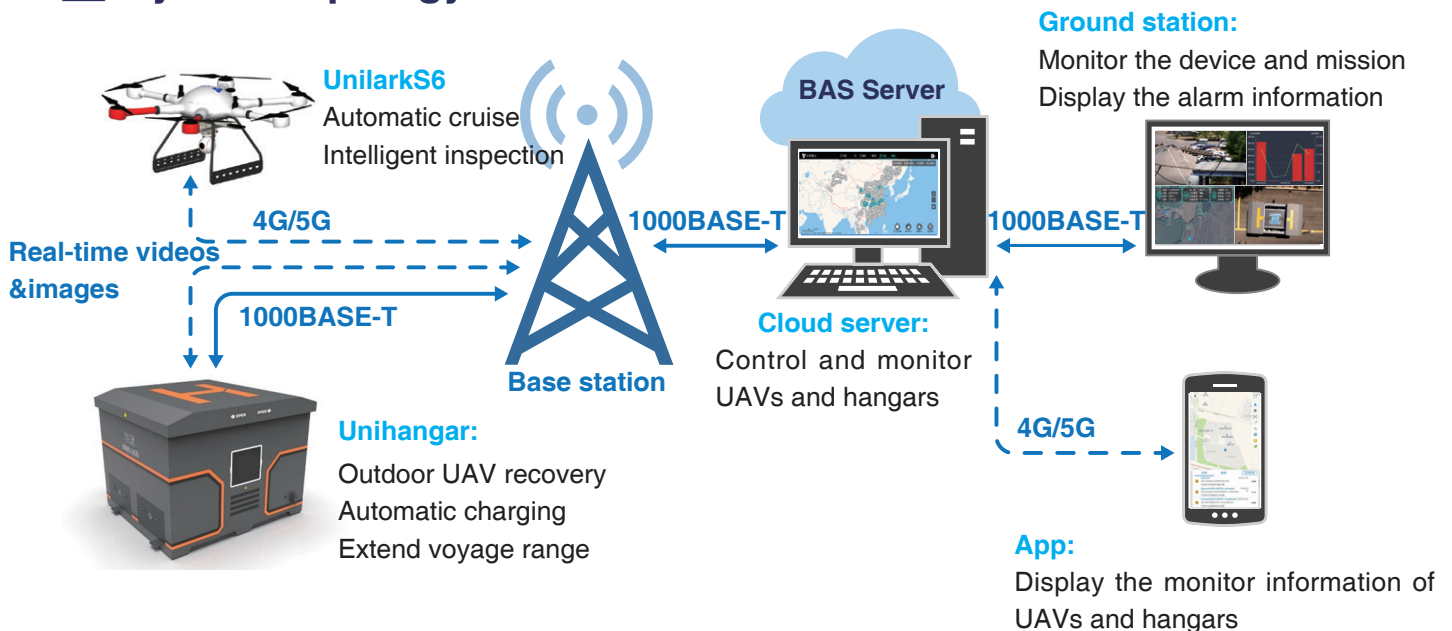
System introduction

EFY automatic inspection UAV system is a fully unmanned solution combining software and hardware which include Unihangar, UnilarkS6 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 inspection missions, land and be recharged automatically. The inspection management system based on the “BAS” cloud platform which contain interaction of control function, equipment management, user management, sensor monitoring and so on. The whole system makes the inspection more intelligent and convenient.

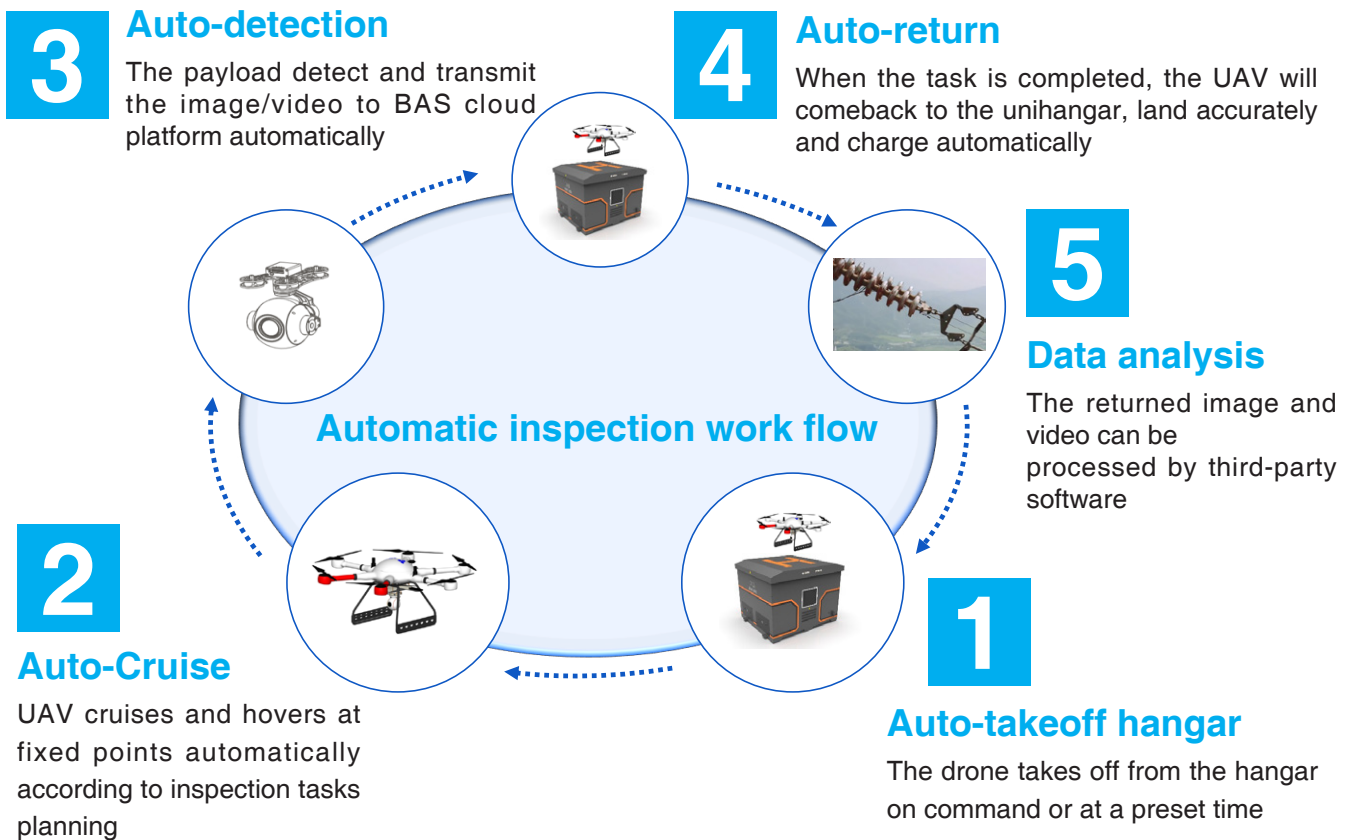
System introduction



System topology

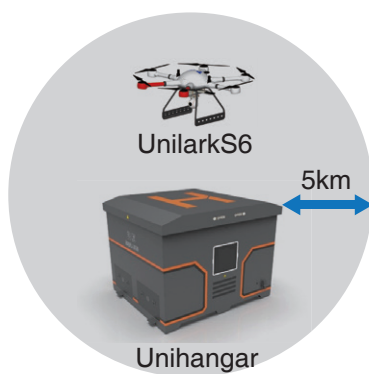


Work procedure



Operating mode

Unihangar: single node mode



Unihangar: relay mode



■ Security & reliable

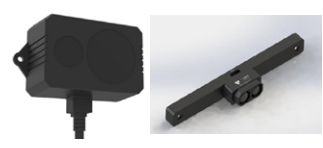
▼ Redundant design



Redundant satellite navigation system
RTK & GPS module



Redundant communication link
4G & Data link module



Redundant landing guidance
Laser & visual module



Redundant directional system
RTK & Magnetic compass module

▼ Security design

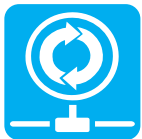


Emergency parachute



Propeller failure protection

■ Product characteristic



Fully-automatic



Extend voyage & duration



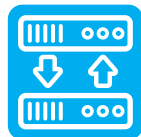
Fast response



24 hours



Water and dust proof



Redundancy design
Security and reliable



Cloud management
Remote monitoring



Cost savings

Product parameters

Unilark-S6 UAV platform



General purpose:

Arm detachable, foot frame and load replaceable

Precision:

Centimeter-level high precision positioning

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
Position precision	±15cm
Maximum speed	18m/s
Position precision	±15cm
Load: 30x optical lens	customizable

Unihangar inspection 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)	4m*2.3m*2m
Size(ceiling closed)	2.3m*2.3m*2m
Weight	700kg
Power supply	220VAC
Charging time	1hour
Backup power	UPS
Maximum power	300W
RTK base station	optional
Weather station support	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



一飞智控
efy technology



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

Add: No.156 Nanhai Rd., Tongchang 29 Zone A, TEDA,
Tianjin, China

Tel: +86 15522622887

Fax: +86 (0)22 59860797

Web: <http://www.efy-tech.com>

Email: marketing@efy-tech.com