# UAV **VTO** vbrid







**40Kg** мтоw

# 4400mm Wing Span

3 to 10Kg Payload

6.5Ltr Gasoline Fuel Tank

>5Hrs (Hybrid)

Endurance (at 3Kg Payload)

100Km/h Cruising Speed

65Km/h Stall speed 20:1~23:1

Glide ratio (L / D)

1940mm Length

100-150Km Control Radius

13,120Ft Maximum Ceiling

# <3Hrs (Motor)

Endurance (at 1Kg Payload)

120Km/h Maximum Speed

> 10x10 Runway



# **Hybrid VTOL Drone**

HS 88021100

We designed the FALCON VTOL based on FireFly's successful platform, which is the most efficient of its kind.

That means low stall speeds, high max efficiency, a large payload capacity, hot swap features, a retractable nose gear, a built-in component compartment, and the long-endurance gasoline engine power system.

This equates to less energy expended and more time in the air. Product Introduction

- Ideal combination of high energy density gasoline and high efficiency electric motor

- Complete composite construction using carbon fiber and Kevlar on a rigid honeycomb core structure

- New fuselage design concept that conceals all avionics cables
- Robust structure engineered to industrial quality
- Redundant power system for flight controller to maximize safety
- Compatible with PC-based, full-featured, open source autopilot system
- High durability gasoline engine from Germany
- Built in 5.2 L fuel tank
- Easy to assemble in the field, no need for expert skill
- VTOL to suit virtually any mission



#### WING (Forward swept wing)

The forward swept wing means its leading edge and trailing edge are swept forward, that is, the sweep angle is an acute angle.

The tip string is in front of the root string, and the left and right wings are projected in a plan view to form a V shape.

Since the airflow on the forward swept wing points to the wing root, the airflow is first split from the wing root at high angle of attack, which fundamentally overcomes the wing tip stall problem, so the low speed performance is excellent, the lift being increased and at the same time improving the aerodynamic efficiency of the wing panel.

Compared to the swept wing, the forward swept wing has four main advantages:

1) **Structural advantages**. The forward swept wing structure ensures a better connection between the wing and the fuselage and reasonably distributes the pressure by the wing and the nose landing gear. These advantages are difficult or impossible to achieve by other methods, which greatly improve the aerodynamic performance of the maneuvering, especially at low speeds.

2) **Maneuverability advantage**. The forward swept wing technology allows the aircraft to have very good aerodynamic performance at subsonic flight, greatly improving its maneuverability while high pitch flight.

3) **Takeoff and landing advantage**. Compared with the normal swept-wing aircraft of the same wing area, the forward-swept aircraft has a higher lift and a 30% increase in payload capacity, thus reducing the wing area and size, reducing the drag and aircraft structural weight; reducing the weight for balancing, improves the low-speed maneuverability, shortens the take-off landing distance. According to USA aviation specialist calculation, if the F-16 fighter uses the forward swept wing structure, it can increase the turning velocity by 14%, increase the combat radius by 34%, and shorten the takeoff and landing distance by 35%.

4) **Controllable advantages**. The use of the forward swept wing structure can improve the controllability of the aircraft at low speeds, improve the aerodynamic performance in all flight conditions, reduce the stall speed, and ensure that the aircraft is not easy to enter the tail spin, thus greatly improving the safety and reliability of the aircraft.



#### FUSELAGE

The trapezoidal shape of the fuselage minimizes the fuselage to wing interaction, drag and interference.

It was designed with a high pressure region in the nose and a low pressure region behind the wing, on top and below the motor mounting area.

This acts to create a pressure differential, essentially "pulling" air through the fuselage. The layout allows for smarter cooling, by cooling off lower temperature components towards the front, and higher temperature components in the rear (motor).

The cooling exhaust placement was purposely in an area with turbulent airflow, so as to not disturb the otherwise laminar airflow over the rest of the fuselage

#### **VTOL FEATURES**

Implement the mature quad motor concept achieve vertical takeoff and landing eliminating the restriction of the runway requirement in the field.

The quad motor also provide the maximum fail safe protection against any malfunctions situation during the mission.

#### ENGINE

3W-28i engine being used which made in Germany provided the maximum reliability for the long run of UAV application.

Factory grant a 36 months warranty from the date of purchase or 1200 operation hours.

Awesome VTOL system eliminate the restriction of take off and landing condition This system being well proved for the reliability of thousands hour flight. Simple, reliable and easy of maintenance is the goal at anytime.





### DLE60 / Auto starter

Performance: 7HP/8500rpm Idle Speed: 1400 rmp Static Thrust: 15.2Kg/100 Mtr Altitude 3.5Kg/1800 Mtr Altitude Recommended : 22x10; 23x8, 23x10, 24x8 Propeller Spark Plug Type: NGK CM6 Displacement: 61cm<sup>3</sup> Diameter x Stroke: 36mmx30mm Compression Ratio: 7.6:1 Lubrication Ratio: 30:1 Weight of Main Engine: 1560g Weight of Exhaust: 200g Weight of Ignition: 190g Ignition voltage: 4.8V-8.4V

# FLAME 200A/HV

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# FLAME-200A/HV

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Call Leo



# **Gasoline engine**

**Customize Auto Engine Starter** 



Unique modular engine mount for plug and play for serval minutes to replace the engine module in the field.

#### VERSATILITY

Our transformative design allows for dynamic use, making each system truly unique.

You can use the FALCON VTOL for search and rescue missions, inspections of pipelines, photography, filmmaking, thermal imaging, 3D terrain mapping, precision agriculture, surveillance, reconnaissance, FPV, live video links, humanitarian aid, fun and much, much more.

#### CAPABILITY

We are committed to integrating efficient design with modern technology in a robust, entirely composite platform.

The FALCON fly for over 4 hours, reach speeds of up to 120 km/h and travel for over 400km.

The FALCON allow you to fly autonomously, capture stunning HD photos and video, complete aerial surveys, monitor crop health, and wirelessly transmit live video.

This is all achieved with incredible accuracy of an on board autopilot system.



#### **50KM TELEMETARY / VIDEO LINK SYSTEM**

Two-way wireless image transmission equipment is a wireless image transmission transceiver specially developed by our company for automobiles and robots.

Aiming at the complex ground environment, it adopts leading multi-carrier modulation technology, has strong anti-interference and penetration ability, and realizes the transmission of high-definition, stable, low-latency real-time video image signals on the move

#### **AUTOPILOT SYSTEM S40**

S40 is the full autonomous flight controller and navigation system specifically designed for compound UAVs VTOL (vertical takeoff and landing fixed wing), which is also suitable for an air with the conventional fixed wing & quadrotor configuration.

It internally integrates the flight control computer and micro-assembly navigation system (GPS/INS).

Simply one-key action, it is capable of enabling automatic takeoff, landing, hovering, circling, homing, altitude holding and parachute opening.

Meanwhile, it is also capable of various autonomous cruise functions based on the pre-set route.

Besides, S60 has the flight status monitoring & alarm functions and a sophisticated emergency protection mechanism, to ensure operational safety of the system.

#### SCOPE OF APPLICATION

Hybrid UAV with fixed-wing + quadrotor configuration, including the fixed wing aircraft with conventional tail and V-tail and flying wing and the quad rotor aircraft with "X" configuration.

Conventional fixed-wring(plane) UAV, with conventional tail, V-tail and flying wing;



AUTOPILOT SYSTEM S40

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#### System features

#### Sensor configuration:

- GPS/MINS combined navigation integrated micro-system provides the navigation and control information covering 3D position, three-axis attitude, three-axis velocity and three-axis acceleration.

- Integrated pneumatic altimeter, with resolution ratio of 0.1m and range of -500~10,000m;

- Integrated difference-pressure air speedometer, with resolution ratio of 1m/s and range of 0~100m/s;

- 2-circuit pulse-width engine speed measurement, with resolution ratio of 1rpm;

- Dedicated voltage/current measurement module, with voltage range of 0~52V and current range of 0~200A;

#### Flight control:

- It supports three types of UAVs: fixed-wing(plane), multi-rotor and hybrid(vertical takeoff and landing) UAVs;

- For control of hybrid UAV, the flight mode can be switched by the RC remotely or automatically;

- Flight control modes: manual (by the RC remote controller), semi-auto (attitude and throttle lever are controlled by the RC remote controller) and full-auto(flight in the preset route);

- It is suited for aileron, elevator, rudder, throttle, parachute opening, shutter and other servo control, with refresh frequency of 50Hz;

- It is suited for quad rotor and other conventional multi-rotor UAVs power motor control, with refresh frequency of 200Hz;

- With one-key action, it can enable takeoff, landing, hovering, circling, altitude hold, parachute opening and other functions, for easy operation of the user;

- When a fix-wing UAV swerves, the elevator enables feed-forward compensation to avoid altitude decrease;

- When a multi-rotor UAV hovers, it automatically maintains its nose heading (or the course angle can be changed remotely); during flight in a route, the aircraft nose is automatically aligned with the route direction;

- Sophisticated flight status monitoring and automatic protection;

YBRID VTC

#### **AUTOPILOT SYSTEM S40**

#### System features

#### Mission navigation:

- It provides 8 user routes and each route can contain 800 way points;

- It can automatically generate the circling route and the circling point, circling radius and circling rounds are programmable;

- It can automatically generate the homing route; or the user may plot the homing route and homing is automatically executed in the route plotted by users;

- The longitude, latitude, altitude, speed and mission of flight segment are programmable;

- For altitude control modes of the flight segment, normal control, gradient control, circling ascension/descension before arrival and circling ascension/descension after arrival, etc. can be selected.

- After reaching a way point, it can automatically switch to circling, homing or landing mode;

- It can enable parachute opening and camera shutter control upon arrival at a way point;

- It can execute regular-interval photographing mission in a flight segment;

#### Protection:

- Protection against low voltage, low oil level and low rotation speed;
- Protection against abnormal attitude;
- Protection against abnormal altitude;
- Protection against low accuracy of GPS positioning;
- Protection against failure of combined navigation system;
- Protection against breach of maximum control radius;
- Protection against breach of safety limit of the route;
- Protection against overtime communication outage;

- 100 emergency landing points can be preset so that the aircraft can land at the nearest landing point in case of an emergency;

- Protection can be executed as automatic homing, automatic landing or parachute opening;

#### Remote Controller:

- It is compatible with the conventional Sbus interfaced RC remote controller and receiver;

- The manual/autonomous modes can be switched by the RC remote controller;
- -The fixed-wing and multi-rotor modes can be switched by the RC remote controller;
- The FailSafe status of the RC remote controller is under monitoring;
- The RC remote controller can be used for registration of the control surfaces;
- The RC remote controller can execute unlocking, to prevent mis operation of the motor;

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AUTOPILOT SYSTEM \$40

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#### System features

#### Airborne data recording:

- Flight information and mission information are recorded and downloaded separately;

- The recording frequency and downloading frequency are selectable in the range of 1Hz~10Hz;

- Flight information recording time can be 9 hours;
- 7000 mission information logs can be recorded (on photographing locations);

#### Ground station software:

- Supporting multisource online electronic map with error compensation, MAPX and background pictures;

- Complete and practical preflight check process prompt;
- Irregular multi-monitoring area automatic mapping route planning function;
- Legible and comprehensible flight instruments;
- Easy execution of key commands; protection against mis operation;

- Adjustment of integrated control parameters, calibration of sensors, protection configuration, etc. ;

- Display, alerting, recording and playback of telemetry data; the formats of the log files are compatible with Office;

- The ground station software is capable of fine adjustment of the horizontal position, altitude and course of multi-rotor UAV, without remote control of the RC remote controller;

#### Data link interface:

- Electrical standard: RS-232C;
- Baud rate: several optional Baud rates, default 115200, N, 8, 1;

#### Physical parameter:

- Dimensions: 109mm\*56mm\*53mm (L\*W\*H);
- Weight: 130g
- Power supply: 300mA@4.5V~9.0VDC.
- Working temperature: -20~55 degrees Celsius



#### TRANSPORTATION

Compact and light weight composite material carrying case providing the flexible mobility. Carrying case measurement is 1270mm x 360mm x 460mm.

Weight 5Kg. Total weight of system < 20kg



Full composite, Carbon fiber, Kevlar / Honeycomb core structure Gasoline engine for fix wing cruise, battery power for VTOL system Tough structure achieve industrial standard Dual battery power maximize the safety goal Compatible with full-featured PC-base, open source autopilot system Easy for assemble in the field, no need for expert skill VTOL suit for any mission





TAIL: Inverted /---\ design improves efficiency while decreasing drag.



## MimoMesh Wireless Broadband MESH

Broadband wireless mesh radio is the best choice for point-to-point, point-to-multipoint integrated services communication, which is consisted of a centerless, distributed, self-forming, self-adapting and self-healing dynamic routing/multi-hop relay communication mesh network.

And the broadband mesh radio can achieve dynamic routing, multi-hop relay HD video, multi-channel data and fidelity voice between different nodes of the same network in complex applications, such as fast displacement, non-line-of-sight and electromagnetic interference.

Based on fifth-generation mobile communication (5G)/ software defined radio (SDR) technology for multi-carrier modulation OFDM, smart antenna MIMO and mobile Ad Hoc network MANET, MimoMesh is the most powerful mesh radio recently, which can provide real-time HD video, multi-channel data, push to talk voice and broadband Ethernet connection with 100Mbps transmission rate and distance of 50KM or more.

It is ideal choice for wireless communication in critical private networks.

MimoMesh wireless broadband MESH, fully ip-based design, flexible installation and use, convenient operation and maintenance, provide video extension and WIFI/4G routing extension.

It can be flexibly applied to military communication private network, public safety private network, emergency communication private network, industry information private network, regional Broadband Private network, wireless monitoring private network, cooperative management private network and intelligent transmission private network.

For military communications, counter-terrorism, public security law enforcement, security activities, emergency rescue, fire command, forest fire prevention, forestry monitoring, civil air defense/earthquake, electric power patrol, digital oilfield, UAV fleet interchange, fleet formation, maritime communications, airport ground service, subway emergency, highway construction, hydrological monitoring, mobile picking and broadcasting, medical and other fields, provide stable, reliable, timely and efficient high-definition video, multi-channel data, clear voice and visual command scheduling.



# MimoMesh Wireless Broadband MESH

- Each node radio station is not only an access terminal server, but also a wireless routing relay and Internet gateway.

- Centerless, distributed self-organizing, self-adapting, self-recovering dynamic routing, multi-hop relay star, linear, mesh and hybrid networks

- Support reliable transmission of point-to-point, point-to-multipoint and multipoint-tomultipoint IP network streams, asynchronous data streams, high-definition video, and fidelity voice

- Provides long-distance, high-bandwidth and low-latency transmission in harsh terrain working environments such as non-line-of-sight, fast-moving, and complex interference



#### **Dispatch & Command Center**

Voice/Document/Video/ Storage and relay

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# **MimoMesh Series of Wireless Broadband MESH**

- Beamforming/Space Diversity/Spatial Multiplexing, Reach More Than Twice Distance
- IP67 Rugged Handheld Design For MESH Networking In Harsh Environments
- Handheld/Backpack Radio 2Watts×2/10Watts×2 RF Out , 10/12 Hours Or More Battery Life, Cool Design
- Airborne Radio 2Watts×2 RF Out, Environment And Electromagnetic Environment
- Push To Talk With Built-in High Fidelity (G.722)
- Throughput Over 100Mbps

#### The Latest Generation Of MimoMesh Wireless Broadband MESH performance

- Mesh network (self-forming, self-adapting, self-healing), high-speed throughput
- Non-visual urban construction, jungle multi-path transmission terrain, effective connection
- High-speed movement of ground, water and air, effective connection
- Multiple antenna settings, omnidirectional, high gain orientation or mixing
- GPS/BD and Multicast Support

#### Advantages

- Increased 4.5 times coverage in densely populated areas
- Increase the range by 2 times in the visible limit environment
- Increase 2-4 times data transmission rate

- The same communication range and transmission data rate, reducing transmission power by 2 times

# Significant applications in Non Line of Sight / Multipath Fading environments, video/data/voice critical Communications

- Robot / Unmanned Vehicle, Reconnaissance / Surveillance / Anti-Terrorism / Monitoring
- Air-to-air & air-to-ground & ground-to-ground, public safety / special operations
- Urban network, emergency support / normal patrol / traffic management

- Inside and outside the building, fire fighting / rescue and disaster relief / forest / civil air defense / earthquake

- TV broadcast wireless audio / video / live broadcast
- Marine communication / high speed transmission on the opposite side of the ship
- Low deck wireless network / ship landing
- Mine / tunnel / basement connection



# Flysky FS-PL18 Paladin 2.4G 18CH Radio Transmitter Receiver



Product Name: FS-PL18 Product color: black Support Model: Glider Fixed Wing Helicopter Crossing Engineer Vehicle Working current: 130 mA Language: Chinese/English Charging Interface: Micro USB/Wireless Charging Low Voltage Alarm: <3.7V Brand name: Flysky Support for firmware updates: Yes Simulator: Built-in USB simulator Duration: More than 8 hours Antenna type: dual antenna Working temperature: - 15 C - + 60 C Signal output: ibus/sbus/PPM/PWM signal output is optional Frequency: 2.4 GHz Model memory: 20 Working Voltage: 5V DC Display screen: 3.5 inch TFT LCD, 320\*480 Fuselage weight: 946g Working humidity: 20-95% Channel resolution: 4096 Power input: 1 \* 3.7V 4300mAh Lipo battery Wireless Protocol: AFHDS3

# Flysky FS-PL18 Paladin 2.4G 18CH Radio Transmitter Receiver



Number of channels: 18 AFHDS 3 protocol: low delay (< 5ms), long distance, strong anti-jamming ability Emission power: <20 dBm Remote control distance: > 3000m Size: 214\*39\*192mm Receiver High Voltage Support: FTr10 (3.5-12V) can directly return battery voltage to remote control display Charging time: 6H@5V/2A (USB connection) 7H@5V/2A (wireless charging) Data Interface: USB. Bluetooth Interface (USART). Headset Port (PPM) Package includes: PL18 remote control \*1 FTr10 receiver \*1 FRM301 high frequency head \*1 Fs-ftr16s receiver \*1 Sunshade cap \* 1 Hand glue \* 2 Double handle \*2 Micro USB cable \* 1 Nub switch assembly \*2

# Portable professional ground control system



|                        | GCS-dual          |   |  |
|------------------------|-------------------|---|--|
| Computer<br>parameters | Model             | G21   |  |
|                        | CPU               | Intel 15 7200U                              |  |
|                        | RAM               | 8G  |  |
|                        | HDD               | 128G SSD                                    |  |
|                        | Graphic           | Intel HD Graphics 620                       |  |
|                        | Net               | 1 Gigabit Ethernet                          |  |
|                        | OS                | Windows7/10/Linux                           |  |
|                        | Screen Size       | UP:15.6inch(touch) DOWN:<br>12.1inch(touch) |  |
|                        | Resolution        | UP: 1920*1080 DOWN: 1280*800                |  |
|                        | Brightness        | 1000 ccd/ m <sup>2</sup>                    |  |
|                        | Touch Panel       | 10 points capacitance                       |  |
|                        | Battery Cap       | 16.8V 12AH                                  |  |
|                        | Battery indicator | By computer /led                            |  |
|                        | Charger time      | 3-4H  |  |
|                        | Endurance time    | 3-4H  |  |
|                        | Meas              | 462*256*75mm                                |  |
|                        | N.W.              | 7.9KG                                       |  |
|                        | Storage Temp      | -20-70°C                                    |  |
|                        | Operating Temp    | -10-60°C                                    |  |
|                        | Ports             | 2*USB3.0/1*LAN/1*HDMI                       |  |
|                        | Gimbals sticks    | 4* Hall sticks                              |  |
|                        | button            | 8 Third gear switch                         |  |
| Other                  | Video input       | HDMI  |  |
| parameters             | Module Tank size  | 140*70*27mm                                 |  |
|                        | Power supply      | 12V(max 3A)                                 |  |
|                        | Rocker output     | SBUS/USB-HID                                |  |

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#### TH30G6L15 High Performance Triple Light Gimbal 30x Optical Zoom + 640x512 Thermal + 1500LRF

- 30x Optical Zoom + 640x512 Thermal
- Thermal pseudo switch
- Picture in picture mode
- 1080P IP output, 2way communicate
- 1500m laser distance measuring
- Ground Software display & control Single TF card, two video recording
- 3 Axis lightweight gimbal

TH30G6L15 is a 3-axis stabilized gimbal integrating 10x optical zoom camera, 640x512 thermal imaging camera and 1500m laser range finding, it's a high-precision professional triple light integrated system.

This gimbal adopts compact design and has the characteristics of high stability, small volume, light weight and low power consumption.

The visible light camera adopts HD sensor with effective pixels of 2 million;

The thermal imaging adopts vanadium oxide 640x512 resolution detector with baffle inside; The laser range finder provides 1500 meter high-precision distance measuring function.

The ground control software developed which can support picture in picture display of twoway video, network direct control of PTZ and camera, local TF storage, network file reading and writing operation, two-way synchronous video recording, a variety of picture in picture modes and pseudo color switching etc



|                                       |                              | 1 GND 2 5V OUT 3 FXD 4 TXD 5   DB- 6 DB+ 7 DA- 8 DA+   Nobs: Different product has different sequence of line, pis check and connect. |  |  |
|---------------------------------------|------------------------------|---|--|--|
| Power Supply                          |                              | Dvnamic 12V 0.65A   |  |  |
|                                       | Pitch Angle                  | -90~+135" Jitler±0.02"  |  |  |
| Gimbal                                | Yaw Angle                    | Stepiess rotation for 360"Jitler±0.03   |  |  |
| Feature                               | Gimbal Mode                  | Support Lock/Follow Mode; One key return to center  |  |  |
|                                       | Control method               | Speed self-adaption and controllable, external control of IP or serial port   |  |  |
|                                       | CMOS Size                    | 1/2.8 Indh 2MP wide dynamic CMOS SENSOR   |  |  |
|                                       | Optical Zoom                 | 30x HD optical zoom lens, f=4.5±10%~135±10%mm   |  |  |
| Visible Light<br>Camera<br>Parameters | Focusing Time                | Real time fast focusing, focusing time < 1s   |  |  |
|                                       | Video Output                 | IP output, RTSP 1080P and 480P video stream, Local TF 1080P record  |  |  |
|                                       |                              | D : WIDE 67.8%±5% TELE 2.77%±5%   |  |  |
|                                       | Field Angle (FOV)            | H : WIDE 59.8°±5% TELE 2.34°±5%   |  |  |
|                                       |                              | V : WIDE 40.5%±5% TELE 1.48%±5%   |  |  |
|                                       | Support mode                 | 1DS0P 30fps   |  |  |
| Laser Range                           | Laser wave                   | 905nm eye safety for human  |  |  |
| Finder                                | Detect range                 | 5-1500 meter  |  |  |
|                                       | Accuracy / Resolution        | 1m/0.1m   |  |  |
|                                       | Resolution                   | 640x512 pixels  |  |  |
|                                       | Pb: Spacing                  | 12µm  |  |  |
|                                       | Туре                         | Uncooled infrared microbolometer camera   |  |  |
| Infrared Light Ca                     | Wavelength                   | 8~14µm  |  |  |
| mera                                  | Thermal Sensitivity (NETD)   | ≤50mk@F1.0  |  |  |
|                                       | Confrast ratio, Pseudo color | Adjustable, multiple pseudo color modes switch  |  |  |
|                                       | Field Angle                  | 13mm Lens; Angle: 32.9*x26.6*   |  |  |
|                                       | Measurement (Optional)       | Display center point, highest and lowest temperature. Support all area measurement  |  |  |
| Device Size                           |                              | L109mm"W150mm"H168mm  |  |  |
| Work Condition                        |                              | -10°C to +55°C / 20% to 80% RH  |  |  |
| Storage Condition                     |                              | -30°C to +60°C / 20% to 95% RH  |  |  |
| Application                           |                              | UAV aertal photography  |  |  |
| Weight                                |                              | 780g  |  |  |



# Pre-flight Checking List

| Ground Station M                                | laintenanc | e Flight Date  |   |  |  |  |
|---|------------|--|---|--|--|--|
|   |            |  |   |  |  |  |
| Flight Environment                              |            |  |   |  |  |  |
| Weather   |            | Wind Speed   | П |  |  |  |
|   |            | Wind Direction   |   |  |  |  |
| UAV Inspection                                  | · · ·      |  |   |  |  |  |
| Are the connecting screy                        | ws n       | Is the wing locking pin secure?                          |   |  |  |  |
| secure?   |            |  |   |  |  |  |
| Hover motor/propeller is good                   | ? 🗆        | Is the motor mount secure?                               |   |  |  |  |
| Are the servo control surfac being intact?      | es 🗆       | Is cruise fly propeller intact?                          |   |  |  |  |
| Is the centre of gravity normal                 | l? 🗆       | Oil Level  |   |  |  |  |
| Ground Station Inspection (without power)       |            |  |   |  |  |  |
| Whether the output of t remote control correct? | he 🗆       | Whether the posture is correct?                          |   |  |  |  |
| Magnetic compass calibrated                     | ? 🗆        | Whether the flight plan is correct?                      |   |  |  |  |
| Magnetic  |            | Compass  |   |  |  |  |
|   | <u> </u>   | • <u>•</u> •   |   |  |  |  |
| Ground Station Inspection (with power)          |            |  |   |  |  |  |
| Main PowerV<br>Hovering Power Supply            | V          | Autopilot PowerV   |   |  |  |  |
| No. of GPS satellite:                           |            |  |   |  |  |  |
| Whether the manual rac                          | dio 🗆      | Whether the hovering propeller                           |   |  |  |  |
| control command correct?                        |            | and motor is oriented in the correct?                    |   |  |  |  |
|   |            | Will the airspeed increase when pressing the pitot tube? |   |  |  |  |
|   |            |  |   |  |  |  |
|   |            |  |   |  |  |  |

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