Kambill Systems

Simulation Redefined

KAM –AGRI-MASTER Q8

Introduction: At Kambill Systems we are driven by the Technologies that can change the way the World works. Established in 2013 and lead by young entrepreneur, we offer World class Simulator & Simulation software solutions for all segments, Automotive Simulators, Customizable simulator range, UAV's/Drones (Unmanned Aerial Vehicles), GIS Mapping Software, Aircraft Spare Part solutions, AMC services and Training/Consultancies. We are the company that is bringing world leaders in simulation technology, Drones and Mapping solutions under one umbrella.

To take one step ahead AVEOCATION (A unit of Kambill Systems) brings first time in organised India and Global market "DRONE WORKSHOPS". As Unmanned Aerial Vehicle Systems (UAVS) are the most advance and rapidly growing Aviation Technology, used today in Mining, Real estate, Construction, Survey, Defence etc.

Specifications

10-20 liter capacity
Six rotor propulsion system
Endurance – 16-18 minutes.
Powerful and precise propulsion system
Range 1KM
Max operational altitude-150 meters AGL
Material – Carbon fiber.
Additional features-
• Package carrier can be installed.
• Non fluctuating frequency connection.
• Flexible operating environmental conditions 10 degree to 55 degree
• Replaceable batteries.
• Replaceable propeller.
• Way point flying
• Multi satellite GPS
• Heat resistant wiring

DO's and DON'Ts

- **Do** brief your surrounding people before you fly on what you are doing with your legitimate reasons.
- **Do** secure any sensitive data against loss and theft if you have any.
- **Do** abide by the rules and regulations listed above every time you fly.
- **Do** a pre-flight checklist before Take-off every time as mentioned below.
- **Do** fly in line of sight or use a spotter.
- **Don't** fly over other people's private property.
- **Don't** fly over the prescribed altitude.
- **Don't** fly near the airports.
- **Don't** gather personal data for no reason.
- **Don't** harass people with your drone

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Office Address: -Kambill Systems Private Limited
202, Aggarwal Corporate Heights, Netaji Subhash Place,
Delhi=110034, INDIA.
Tel: +91-11-4903 2678 | +91-9650448007.
Website: www.kambillsystems.com
Email: sales@kambillsystems.com or service@kambillsystems.com

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Specifications

Frame Specifications	Recommended configuration
Wheelbase：1404MM	Motor：HobbywingX6
Expanded Size：1495*1308*500MM	Paddle：23-24” Folding Paddle
Tank capacity：10L-16L	Folded size：945*848*500MM
Frame weight：5kg (Without spray systems)	ESC：80A FOC
	Supply Voltage：12S
	Max. Takeoff Weight: 25kg

Brushless water pump specifications	
Use Voltage：12-14S（DC44-60.9V）	Flow Rate：5L / Minute
Maximum power：150W	Protection Level：IP67
Pressure：0.35Mpa	Weight：388g（Without Wire 338g）
Current：≤2.5A	Size：123 x 76 x 52mm
Travel range：1100-1940us	

Flight Controller Specification’s		
Supported Model’s	I4, X4Four-rotor, IY6, Y6, 16, V6 Six-rotor V8, I8, X8, IX8 Eight-rotor	
Recommended Battery Type	3S-125 Lithium Polymer Battery	
External Receiver Type	SBUS receiver	
Support Product’s (Radar, Camera & Meter’s)	Obstacle Avoidance Radar*, Ground Imitation Radar*, FPV Camera, Flow Meter, Liquid Level Meter	
Assistant Software System Configuration Requirement’s	Windows 7/8/10 (32/64 bit)	
Hovering Accuracy	horizontal direction: ±1.5m Vertical Direction: ±0.5m	
Maximum Tilt Angle	30°	
Maximum Yaw Speed	150°/s	
Maximum Vertical Speed	6m / s	
Maximum Wind Resistance	Wind: 4 GUSTS: 5	
Power Consumption	< SW	
Working Voltage Range	FC	4.8V-5.3V
	PMU	Input 11.1V-50V (35-12SLiPo Recommended) Maximum Output Current 3A@5V
	PMU2 (UPS)	Input 11.1V-50V (3S-12SLiPo Recommended) Maximum output current 3A@5V
	GPS	5V
	LED	5V
	Voltage	3S - 12s
Working Temperature	-10°C 60°C	
Storage temperature	-25°C~60°°C	

Flight Controller Specification's		
Storage temperature	-25°C~60°°C	
Colour	Green & Black	
Weight	Total Net Weight: 321g FC: 87g PMU: 41g PMU2 (UPS): 44g GPS: 45g LED: 14g	
Size	FC: 72.6*48*22.8mm	
	PMU: 53.4 * 34.4 * 14.5mm	
	PMU2 (UPS): 53.4*34.4*14.5mm	
	GPS: q62*14.3mm	
	LED:24 24*8mm	

Obstacle Avoidance Radar

Obstacle avoidance radar module is mainly used to measure the relative distance between the drone and the obstacle in front of the flight, so as to avoid the obstacle effectively. Obstacle avoidance radar adopts 24GHz radar technology, which can work in all-weather under strong light, high temperature, fog, dust, wind and night. Its sensitivity is high, the detection distance is long, the signal transmission is fast and stable. Electric wires, small trees with a trunk of 10 cm, people with a height of 1.7 m, and telephone poles with a height of 15 cm play an excellent obstacle avoidance function for high-speed drones, which is very suitable for plant protection drones to work in complex outdoor environments.
Features:

1. High sensitivity;
2. Long detection distance;
3. Fast signal transmission;
4. Stable signal transmission;
5. All-weather work;
6. Strong environmental adaptability.

Ground Imitation Radar

The ground-like radar module uses millimeter-wave radar technology. Through continuous scanning of the radar, the aircraft can sense the terrain change in the flight direction, and adjust the flying height in time according to the terrain and crop height to achieve ground-like flight and ensure uniform spraying in flight . The ground-like radar module has stable detection performance and good environmental applicability, strong anti-interference ability, not affected by light, long detection distance, and has the characteristics of all weather and all day.

Features:

1. Strong penetrability (including fog, smoke, dust, light rain) is not affected by light;
2. Strong anti-interference ability, good environmental applicability;
3. Stable performance, detection distance of 15m;
4. Power saving and high efficiency, the total power consumption is only 1.5W;
5. It works all day and all days;
6. Small size and light weight.