Skylle II - P (Heavy payload hexacopter drone)

The Skylle II-P adopts the aviation carbon fiber unibody molding process, which can cope with the harsh operating environment; the quick release arm and kickstand design features rapid deployment and portability; the integrated modular main board avionics, multiple modular interfaces, compatible with a variety of peripheral interfaces, can be equipped with 4G \ 5G, RTK, dual-channel mapping, on-board computers and other auxiliary peripherals for flight, and support the subsequent launch of upgraded accessories for seamless iteration and upgrading; multiple mounting interfaces can be matched with our standardized payload to meet the needs of most industry applications; the dual backup intelligent battery design brings a safer flight experience. Upgrade; multiple mount interfaces, with our standardized payload, to meet the majority of industry application requirements; dual backup intelligent battery design, bringing a safer flight experience.

Parameters ▣

Model：Hexacopter

Body Material: Carbon Fiber, Magnesium Aluminum Alloy, Engineering Plastics

Wheelbase: 1750mm

Packing size: (fuselage package) 820*750*590mm

(Arm package) 800*630*380mm

Unfolded maximum size (without paddle): 1865*1865*720mm

Expanded maximum size (including paddle): 2340*2580*720mm

Fuselage weight: 13kg

Unladen weight: 22.5kg

Maximum loaded weight: 15kg

Endurance: 61min@unloaded;45min@3kg; 40min@5kg. 30min@10kg;25min@15kg

Automatic obstacle avoidance function: 360° omnidirectional obstacle avoidance (horizontal)

Maximum wind resistance: 12m/s (Class 6)

Transmission frequency: 2.4GHz

Transmission encryption: AES256

Transmission distance: 20km

Operating temperature: -20℃~60

Operating humidity: 10%~90% non-condensing

Protection grade: IP54

Electromagnetic Interference: 100A/m (magnetic field)

Altitude Limit: 5000m

Cruise speed: 0~15m/s

Maximum flight speed: 20m/s

Maximum climbing speed: default 3m/s (max 5m/s)

Maximum descent speed: default 2m/s (max 3m/s)

Smart Battery: 22000mAh*2

4G/5G communication (optional): with 4G, 5G link function, realizing public network link control of UAV and its mounting, return real-time video to the backstage command center, able to avionics system health status

Real-time synchronization to the cloud and ground station software.

Police private network (optional): the UAV is equipped with the function module to enter the private network (police UAV frequency band). It supports real-time control of the UAV and its mounting under the private network link, and returns real-time video to the backstage command center. Working frequency: 1430MHz-1445MHz, working bandwidth: 5MHz/10MHz/20MHz, modulation mode: QPSK, 16QAM, 64QAM.

ADS-B module (optional): with ADS-B, it can acquire civil aviation information in real time and send it to flight control through UAVCAN.

Features ◼

· Adopt carbon fiber unibody to ensure high strength and at the same time have lightweight, light rainproof and other characteristics;;

· The plug-and-play arm design realizes quick disassembly and assembly while reducing the package size.

· The ground station realizes one-key route planning, carries out autonomous missions and supports ground station guided flights.

· Adopting high-density Li-ion battery with high-efficiency power system, the endurance time with load can be more than one hour.

· Multi-mounting platform, up to five mounts can be adapted at the same time to meet the needs of more scenarios.