



Skylle II

(Hexacopter Series Drone)

The Skylle II adopts the aviation carbon fiber unibody molding process, which can cope with the harsh operating environment; quick detachable arm and kickstand design, featuring rapid deployment and portability; integrated modular main board avionics, multiple modular interfaces, compatible with a variety of peripheral interfaces, which can be equipped with auxiliary flight peripherals, such as 4G \5G, RTK, dual-channel mapping, onboard computer, etc., and support the subsequent introduction of upgraded accessories to carry out a seamless iterative upgrading; Multi-mount interface, can be matched with our standardized payload, to meet most of the industry application requirements; dual backup intelligent battery design, bringing a safer flight experience.

Parameters

Model: Hexacopter

Material: carbon fiber, magnesium aluminum alloy, engineering plastics

Wheelbases: 1650mm

Packing Dimension: (Fuselage) 820*750*590mm

(Arm) 1090*450*350mm

Unfold max. dimension: 1769*1765*560mm (Without paddle)

Unfold max. dimension: 2190*2415*560mm (With paddle)

Body weight: 9.15kg (Without battery and mount)

Unladen weight: 18.2kg

Max. load: 10kg

Endurance: 80min@no load; 60min@1kg; 55min@3kg

48min@5kg; 40min@8kg; 36min@10kg;

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

Max. wind resistance: 12m/s (Class 6)

Frequency of image transmission: 2.4GHz

Encryption method: AES256

Mapping distance: 20km

Operating temperature: -20°C~60°C

Operating humidity: 10%~90% non-condensing

Protection level: IP54

Electromagnetic interference: 100A/m

(industrial frequency magnetic field)

Elevation limit: 5000m

Cruising speed: 0~15m/s

Max. flight speed: 18m/s

Max. climb speed: default 3m/s (max. 5m/s)

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

Smart Battery: 22000mAh*2

4G/5G communication (optional): Equipped with 4G and 5G link function, realizing public network link to control the UAV and its mount, return real-time video to the backstage command center, and be able to synchronize the health status of the avionics system in real time to the cloud and the ground station software.

Police private network (optional): The UAV is equipped with a function module for accessing the private network (police unmanned aerial vehicle frequency band). It supports real-time control of the UAV and its mounting and return real-time video to the backstage command center under the private network link. Operating frequency: 1430MHz-1445MHz, operating bandwidth: 5MHz/10MHz/20MHz, modulation: QPSK, 16QAM, 64QAM.

ADS-B module (optional): with ADS-B, it can acquire civil aviation information in real time and send it to the flight control on-board computer through UAVCAN (optional): it supports the secondary development of image processing, video analysis, edge computing AI algorithms.

Features

- Carbon fiber unibody is used to ensure high strength and at the same time has lightweight, light rainproof and other characteristics.
- Plug-in arm design for quick disassembly and assembly while reducing the size of the package.
- Ground stations enable one-button route planning for autonomous missions and support ground station guided flights.
- Adopting high-density lithium batteries with high-efficiency power system, the endurance time with load can be more than one hour...
- Multi-mount platform, up to five mounts can be adapted at the same time, to meet the needs of more scenarios.