

# SKYLLE 1550

Long Flight Time, Heavy Payload Capacity



## INTRODUCTION

Excellent long endurance and heavy payload capacity empowers Skylle 1550 an outstanding industrial drone. With a maximum flight time of 81 minutes and a maximum payload of 12kg, Skylle 1550 is a reliable high-performance multi-rotor flight platform for various industrial applications. It is the first-choice drone model for the State Grid Corporation of China being applied mostly for power line inspection, purchased for years by the Public Security and Firefighting Department due to the multiple purpose payload compatible function, the Sinopec, the China Southern Power Grid Co., Ltd. (CSG), and the China Energy Investment Corporation (China Energy) for wind energy inspection. Equipped with the orthographic camera, the oblique camera, and the 3D laser radar, Skylle 1550 is ready for high-precision mapping tasks.

# KEY FEATURES



**62Min**

Flight time (without load)

**10kg**

Max. payload

**10km**

Max. Control radius

**12 m/s**

Max. wind resistance

- Reliable and portable due to the modular design
- Easy to operate, fully autonomous take-off and landing, by adopting the intelligent multi-frequency redundant IMU developed by MMC, it has a great improvement on the stability of the system;
- Made by carbon fiber and compound materials, its airframe body is genuinely light, and the separate pack is more portable for the single operation in mountainous areas;
- By adopting different battery solutions, the maximum flight distance is up to 10km, and a single-operation area with 3D laser radar as payload covers more than 1k m<sup>2</sup>;
- Compatible with 27 different kinds of payload, its applicable fields covering survey and mapping, inspection, security, aerial photography, and others;
- The battery supports high current and fast charge, which leads the operation more efficient;
- Support handheld integrated ground control station or box-type ground station.

# SPECIFICATIONS



## Basic

Mode	Skylle
Aircraft type	Hexacopter
Wheelbase	1550mm
Airframe material	Carbon fiber and composite materials
Package size	400*730*930mm (standard) / 700*700*300mm+110*45*20MM (portable)
Weight (without batteries or payload)	6.8kg

## Performance

Assemble time	2 minutes and 40 second
Max. take-off weight	21-23kg
Max. payload	10-12kg
Max. climb speed	4m/s
Cruise speed	10m/s
Max. flying speed	15m/s
Battery capacity	22000mAh*12S LiHV / 30000mAh*12S 18650 / 22000mAh*12S2P LiHV
Flight time (without load)	62min / 74min / 81min
Flight distance	14km / 18km / 20km
Max. Control radius	10km
Max. Altitude AMSL	4000m
Hovering accuracy	vertical $\pm 1$ m, horizontal $\pm 1.5$ m
Flight mode	Fully automatic, semi-autonomous
Return	One-button return, lose control return, low battery return
Others	Autonomous takeoff and landing, automatic route, black box function.

## Environment

Max. wind resistance	6 level
Operation temperature	-20~60 C
IP rating	IP56



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