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TECHNOLOGY

X1550
A Hexrcopter Drone for Industry Application

- Carbon fiber material
- 1550mm Diagonal wheelbase
- Max Flight Time: 60mins
- Max Speed: 15m/s
- Max Transmission Distance: 3-10Km
- Max Flight Height: 2000m
- PTZ Accuracy: ±0.01°
- Satellite Positioning Systems: GPS/Beidou/GLONASS

System Overview

This product is a hexrcopter drone which includes the aircraft, payload, remote control, and ground station. It's designed for public security, transportation, firefighting, border defense, agricultural and forestry, and energy industries. It provides a complete aerial video surveillance solution with long transmission distance, high hovering accuracy, and 30x/40x optical zoom capabilities.

Functions

Intelligent Mode
The drone supports convenient operation with multiple intelligent modes, including flight route, waypoint flight, circle (points of interest),follow me, and direction lock mode. The drone can take off automatically and enable intelligent mode, moving according to the pre-set route / waypoints and points of interest. When the mission is finished, the drone will return to base and land automatically.

Security Mechanism
There are a series of security mechanisms which ensure safe and reliable drone operation. If the drone runs out of battery or moves out of the control range, it will signal an alarm and return to base automatically, triggering landing mode. E-Fence functionality makes setting flight boundaries easy, preventing the drone from flying into restricted areas.

Quick Assembly and Disassembly
All parts of the drone, including the battery, payload, propellers, antenna, and aircraft arms can be quickly assembled and disassembled, ensuring immediate mission readiness as well as quick extraction.

A variety option of payload
The drone supports to carry multiple payloads , such as visible light PTZ camera(2MP,6MP,4K), IR thermal PTZ camera, loudspeaker, casting device, which is suitable for critical surveillance tasks such as power line inspection, forest fire detection, public event management, bridge security, and police detection.

Data security
Support water mark, AES-128 encryption.

Accurate Positioning
Three satellite positioning systems used by the drone - GPS, Beidou, and GLONASS - ensure high accuracy positioning with ±1.5m horizontal and ±0.5m vertical accuracy. These three positioning systems also ensure near complete coverage of the global market.

Onvif

Drone | X1550

Technical Specification

Aircraft

Diagonal Wheelbase	1550mm
Dimensions	1640(mm) x 585(mm) x 1420(mm)
Package Dimensions	942(mm) x 687(mm) x 931(mm)
Satellite Positioning Systems	GPS/Beidou/GLONASS
Net Weight	7.0kg(15.43lb)
Max. Takeoff Weight	23.6kg(52.02lb)
Ingress Protection	IP54

Flight Parameter

Max. Flight Time(No Payload)	60mins
Hovering Power	1300W
Hovering Accuracy	Vertical: ±0.5m , Horizontal: ±1.5m(<Lev.3 wind)
Max. Speed	15m/s
Max. Flight Height	2000m(6561.7ft)
Max. Takeoff Altitude	5000m(16404.2ft)
Max. Ascent Speed	11m/s
Max. Descent Speed	2.5m/s
Max. Tilt Angle	20°
Max. Wind Speed Resistance	15m/s
Max. Angular Velocity	50°/s
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)

Power Battery

Capacity	2*27000mAh/pcs
Battery Type	LiPo
Net Weight	2*3.3kg(7.27lb)/pcs
Operating Temperature	-20°C ~ 60°C(-4°F ~ 140°F)
Storage Temperature	-30°C ~ 65°C(-22°F ~ 149°F)

Remote Controller

Max Transmission Distance	3-10km
Screen	7" touch screen
Battery	2S LiPo, 7800mAh
Working Time	5hours
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	-30°C ~ 65°C(-22°F ~ 149°F)

PC Ground Station

Ethernet	RJ-45
Protocol	Support Onvif, SIP, RTSP and Dahua private protocol

Cryption Protocol	IEEE802.1x
Port	One HDMI port ,One VGA Port,RJ-45 Ethernet Port, SD Card Reader
Video Record	Support
Flight Log Record	Support
Ingress Protection	US standard MIL-STD-810G, IP65
Storage	450G
Battery	8550mAh
Bandwith	8Mbps
Max Transmission Distance	3-10Km
Screen	13.1" touch screen

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Accessories

Controller:

PC Ground Station

Remote Controller

Payload(Optional):

2MP PTZ Camera
(Optical Zoone:30X/40)

6MP PTZ Camera

4K PTZ Camera

Thermal PTZ Camera

Thermal Hybrid
PTZ Camera

Live Broadcasting
PTZ Camera

Live Throwing PTZ Camera

Live Throw Broadcasting
PTZ Camera

Live Lighting PTZ Camera

Gas Detection Device

Tilt Camera

Dimensions (mm)