

X1100S

A Hexcopter Drone for Industry Application



- 1100mm Diagonal Wheelbase
- Break Propeller Protection
- Max Flight Time: 41mins
- Max Speed: 22m/s
- Max Transmission Distance: 3-10km
- Max Flight Height: 1500m
- PTZ Accuracy: $\pm 0.01^\circ$
- Satellite Positioning Systems: GPS / Beidou / GLONASS

System Overview

This product is a hexcopter 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), 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.

Accurate Positioning

Three satellite positioning systems used by the drone - GPS, Beidou, and GLONASS - ensure high accuracy positioning with $\pm 1.5\text{m}$ horizontal and $\pm 0.5\text{m}$ vertical accuracy. These three positioning systems also ensure near complete coverage of the global market.

Technical Specification

Aircraft	
Diagonal Wheelbase	1100mm
Dimensions	955(mm) x 1100(mm) x 576(mm)
Package Dimensions	450(mm) x 478(mm) x 578(mm)
Satellite Positioning Systems	GPS/Beidou/GLONASS
Obstacle Avoidance	Support
Break Propeller Protection	Support
Max. Takeoff Weight	14.5kg(31.96lb)

Flight Parameter	
Flight Time	40mins@No Payload, 35mins@2MP30X
Hovering Power	1050W
Hovering Accuracy	Vertical: ±0.5m , Horizontal: ±1.5m(<Lev.3 wind)
Max. Speed	22m/s
Max. Flight Height	1500m(4921.3ft)
Max. Takeoff Altitude	5000m(16404.2ft)
Max. Ascent Speed	13m/s
Max. Descent Speed	2m/s
Max. Tilt Angle	25°
Wind Resistance level	6
Max. Angular Velocity	100°/s
Max. Flight Time(No Payload)	41mins
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)

Power Battery	
Capacity	27000mAh/pcs
Battery Type	LiPo
Net Weight	5.1kg(11.24lb)
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	-30°C ~ 65°C (-22°F ~ 149°F)

Remote Controller	
4G LET	Support
Protocol	Support Onvif, SIP, RTSP and Dahua private protocol
Port	Audio In, Micro SD Card Slot
VPN	Support
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)

Accessories

Dimensions (mm)

Included:



Remote Controller

Optional:



2MP PTZ Camera
(Optical Zoom:40X)



4K PTZ Camera



Thermal PTZ Camera



2MP PTZ Camera
(Optical Zoom: 30X)



Thermal Hybrid
PTZ Camera



Live Broadcasting
PTZ Camera



Live Throwing
PTZ Camera



Live Throw Broadcasting
PTZ Camera



MAC Address Collection
PTZ Camera



Live Lighting PTZ Camera



Gas Detection Device



Ground Station



4G Module for GS

