

# X650

## A Quad-rotor Drone for Industry Application



- Carbon fiber material
- 666mm Diagonal wheelbase
- Max Flight Time: 25mins
- Max Speed: 25m/s
- Max Transmission Distance: 3-5Km
- Max Flight Height: 1500m
- PTZ Accuracy:  $\pm 0.01^\circ$
- Satellite Positioning Systems: GPS / Beidou / GLONASS

### System Overview

This product is a quadcopter drone which includes the aircraft, payload, remote control. 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 optical zoom capabilities.

### 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.

### 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.

### Technical Specification(Aircraft)

#### Aircraft

Diagonal Wheelbase	666mm
Dimensions	655(mm) x 480(mm) x 670(mm)
Package Dimensions	632(mm) x 512(mm) x 771(mm)
Satellite Positioning Systems	GPS/Beidou/GLONASS
Net Weight	2.6kg( 5.73lb)
Max. Takeoff Weight	8.2kg(18.07b)

#### Flight Parameter

Max. Flight Time(No Payload)	25mins
Hovering Accuracy	Vertical: ±0.5m , Horizontal: ±1.5m(<Lev.3 wind)
Max. Speed	25m/s
Max. Flight Height	1000m(3280.8ft)
Max. Takeoff Altitude	5000m(16404.2ft)
Max. Ascent Speed	8m/s
Max. Descent Speed	2.5m/s
Max. Angular Velocity	100°/s
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)

#### Power Battery

Capacity	12000mAh
Battery Type	LiPo
Net Weight	1.7kg(3.74lb)
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	3-5Km
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

Controller:



Remote Controller

Payload:



2MP PTZ Camera  
(Optical Zoome:30x)

### Dimensions (mm)

