BLACK HAWK 2

AIRCRAFT

Color	Black
Size	Expand:229.55*178*73.6mm Folding:118.7*172.5*67.6mm
Diagonal wheelbase	266mm
Maximum current	25A
Take off weight	580g
Hover accuracy	Indoor：vertical ±0.1m, horizontal ±0.1m Outdoor：height<5m, vertical<Height*0.02m Horizontal<Height*0.02m Height>5m Vertical ±0.1m Horizontal ±0.5m
Maximum ascending velocity	3m/s(N) 4m/s(S)
Maximum descending velocity	1.5m/s(N) 3m/s(S)
Maximum horizontal flight speed	Normal mode:8m/s(N、No wind at sea level) Sports mode:12m/s(S、No wind at sea level)
Maximum take-off altitude	5000 meters
Maximum anti-wind capability	12m/s
Maximum tilt angle	30°（S） 20°（N） 20°（F）
Global Position	GPS/GLONASS /BeiDou
Flight duration	(Standard battery) Hovering for 29 minutes Slow flight time 33 minutes (Windless,measured in 2~4 meters hovering) (Long Duration) Hovering for 45 minutes Slow flight time 53 minutes (Windless,measured in 2~4 meters hovering)

POWER SYSTEM

Propeller	Folding propeller diameter 158.6mm
ESC	Self-developed digital ESC: Brushless 20A x4, Four in one

BATTERY

Category	4S Li-Po battery
Capacity	2800mAh (Standard) 5000mAh (Long Duration)
Nominal voltage	3.6Vx4=14.4V
Charging voltage limitation	4.2Vx4=16.8V
Discharge limitation	8C
Charging time	180 minutes
Battery weight	110g
Working temperature	-5°C~40°C
Charging environment temperature	0°C~40°C
Smart battery	Cell balancing, Intelligent power estimation, Intelligent on-off control, Overcurrent protection, High temperature protection, Overcharge protection, Overdischarge protection
Battery clip detection	Support
Low battery protection	Support, Turn on the battery after the power is less than 1% in order to prevent over-discharge, the battery no longer provides external power output
Struggling mode	Support
HBLog	Support
Intelligent diagnosis	Support
Remote locking	Support
Online upgrade	Support
Bulge replacement	Support
The warranty period	12 months

CAMERA

Sensor	1/2.6 CMOS, 12 million effective pixels
Video	FOV 80° Aperture f/2.2 EFL: 3.5mm Focus point 0.5m to infinity Distortion <1.5%
Video resolution	4K：3840x2160@30fps 2.7K：2720x1530@30fps 1080P：1920x1080@30fps
Shutter speed	1/25s-1/8000s
Photo format	JPEG
Video bitrate	45Mbps-100Mbps
Video format	MP4(H.264/MPEG-4AVC)
Portrait Mode	Support
control method	APP, remote control
Firmware upgrade	OTA
USB interface	Micro-USB
Support memory card type	microSD卡， U3 or Class10以上 16G/32G/64G/128G

COMMUNICATION

Wireless transmission solution	SyncLeas 1
Wireless transmission distance	FCC：5km;CE:<=5km;SRRC:<=5km
Antenna position	Forearm support feet (slightly inclined)
Transmission delay	Within 200ms
Band mode	Direct scan to pair
Default remote	HT16MY

REMOTE CONTROLLER

Wireless transmission solution	SyncLeas 1
Highlight LED display	Not supported
Working temperature	-5-50°
Maximum signal effective distance	FCC：5km;CE:<=5km;SRRC:<=5km
Built-in battery	3200mAh
Buzzer	Support
Supportable mobile system	Android, iOS
Continuous working time	2.5h（Normal flight time）
Supportable interface type	Lighting，microUSB，USB-typeC

FLIGHT CONTROLLER

Flight controller version	Third-generation flight controller
Basic flight mode	Wind resistance mode/Sports mode/ Normal mode
Altitude hold	Tof, barometer
Fixed-point function	Vision optical flow, GPS
Unlock/lock	Outer- eight unlock/lock
Fill light	Support 0.5m-5m low light environment to automatically turn on the light
Out of control protection	Support
Home recognition (Search the drone apron)	Support
Vision tracking	Third-generation tracking technology (ATV 3.0)
Waypoint flight	Support
Flying around	Support
Auto drifting	Support
Intelligent battery	Cell balancing, Intelligent power estimation, Intelligent on-off control, Overcurrent protection, High temperature protection, Overcharge protection, Overdischarge protection, Automatic discharge, Struggling mode
Low battery protection	Automatically return to home and land on low battery
Motor stall protection	Support
One key to return home	Support

APP

APP	X-Hubsan2
Mobile device	iOS 10.0 or higher Android 6.0 or higher