



# DRONE SURVEY

.biz

## AIRCRAFT

Weight	1.62 lbs (734 g) (exclude gimbal cover)
(Including Battery):	1.64 lbs (743 g)(include gimbal cover)
Max Ascent Speed:	16.4 ft/s (5 m/s) in Sport mode (Sport mode)
Max Descent Speed:	9.8 ft/s (3 m/s)
Max Speed:	40 mph (65 kph) in Sport mode without wind (Sport mode)
Max Service Ceiling Above Sea Level:	16404 feet (5000 m)
Max Flight Time:	27 minutes (0 wind at a consistent 15.5 mph (25 kph))
Max Hovering Time:	24 minutes (0 wind)
Overall flight time:	21 minutes ( In normal flight, 15% remaining battery level )
Max Flight Distance:	8 mi (13 km, 0 wind)
Operating Temperature Range:	32° to 104° F (0° to 40° C)
GPS Mode:	GPS / GLONASS

## OBSTACLE SENSING SYSTEM

Obstacle Sensory Range:	Precision measurement range: 2 ft (0.7 m) to 49 ft (15 m) Detectable range: 49 ft (15 m) to 98 ft (30 m)
Operating Environment:	Surface with clear pattern and adequate lighting (lux > 15)

## CAMERA

Sensor:	1/2.3" Effective pixels:12.35 M (Total pixels:12.71M)
Lens:	FOV ( Field Of View ) 78.8° 28 mm ( 35 mm format equivalent ) f/2.2 Distortion < 1.5% Focus from 0.5 m to ∞
ISO Range:	100 - 3200 ( video ) 100 - 1600 ( photo )
Shutter Speed:	8 s to 1/8000 s
Max Image Size:	4000×3000
Still Photography	Single shot

Modes:	Burst shooting: 3 / 5 / 7 frames Auto Exposure Bracketing ( AEB ): 3 / 5 bracketed frames at 0.7 EV Bias Interval
Video Recording Modes:	C4K: 4096×2160 24p 4K: 3840×2160 24/25/30p 2.7K: 2704×1520 24/25/30p FHD: 1920×1080 24/25/30/48/50/60/96p HD: 1280×720 24/25/30/48/50/60/120
Max Video Bitrate:	60 Mbps
Supported File Systems:	FAT32 ( ≤ 32 GB ); exFAT ( > 32 GB )
Photo:	JPEG, DNG
Video:	MP4 / MOV ( MPEG – 4 AVC / H.264 )
Supported SD Cards:	Micro SD@trade;, Max capacity: 64GB. Class 10 or UHS-1 rating required
Operating Temperature:	32° to 104° F ( 0° to 40° C )

## CHARGER

Voltage:	13.05 V
Rated Power:	50 W

## GIMBAL

Controllable Range:	Pitch -90° to +30°
Roll:	0° or 90° (Horizontally and vertically)
Stabilization:	3-axis (pitch, roll, yaw)

## VISION POSITIONING

Velocity Range:	≤22.4 mph (36 kph) at 6.6 ft (2 m) above ground
Altitude Range:	1 - 43 feet (0.3 - 13 m)
Operating Range:	1 - 43 feet (0.3 - 13 m)
Operating Environment:	Surface with clear pattern and adequate lighting (Lux > 15)

## REMOTE CONTROLLER

Operating Frequency:	2.4 GHz to 2.483 GHz
Max Transmission Distance:	FCC Compliant: 4.3 mi ( 7 km ); CE Compliant: 2.5 mi ( 4 km )( Unobstructed, free of interference )
Operating Temperature:	32° to 104° F ( 0° to 40° C )
Battery:	2970mAh
Transmitter Power ( EIRP ):	FCC: ≤26 dBm CE: ≤20 dBm
Operating Current:	950mA @ 3.7V

Voltage:	
Supported Mobile Device Size:	Thickness Supported:6.5-8.5mm Max length: 160mm Supported USB port types: Lightning, Micro USB(Type-B),USB(Type-C) <sup>TM</sup>

### **INTELLIGENT FLIGHT BATTERY**

Capacity:	3830 mAh
Voltage:	11.4 V
Battery Type:	LiPo 3S
Energy:	43.6 Wh
Net Weight:	Approx.0.5 lbs(240 g)
Operating Temperature:	41° to 104° F ( 5° to 40° C )



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