

Aircraft

Weight	3.5 lbs (1600g, battery and gimbal included)
Dimensions	576*660*149 (folded, incl. propellers) 340*407*148(folded, excl. pro
Diagonal Wheelbase	1.52 ft (464mm)
Max Ascent Speed	8m/s
Max Descent Speed	6m/s
Max Horizontal Speed (windless near sea level)	22m/s

Max Service Ceiling Above Sea Level	23000ft (7000m)
Max Flight Time (windless)	42 mins
Max Hovering Time (windless)	40 mins
Max Wind Resistance	27mph* *Takeoff and landing can withstand wind speeds up to 27 mph
IP Rating	IP43
Max Tilt Angle	35°
Max Angular Velocity	Pitch: 300°/s; Yaw: 120°/s

Operating Temperature	-4°F to 122°F (-20°C - 50°C)
Operating Frequency	2.4G/5.2G*/5.8G/900MHz*
Transmitter Power (EIRP)	2.4GHz:<33dBm(FCC), 20dBm(CE/SRRC/MIC) 5.8GHz:33dBm(FCC) 5.25-5.35GHz:<30dBm(FCC), <23dBm(SRRC/MIC)
Hovering Accuracy	Vertical: ±0.1 m (Vision System enabled); ±0.3 m (GPS enabled); ±0.5 m (GPS enabled);

Gimbal

Mechanical Range	Pan: -135° to 45° Tilt: -45° to 45° Roll: -10° to 10°
Controllable Range	-90° to 45°

Stable system	3-axis mechanical gimbal (pitch, tilt, roll)
Max Control Speed (pitch)	200°/s
Angular Vibration Range	<0.005°

Zoom Camera (Telephoto)

Sensor	1/2" CMOS, Effective pixels: 48M
Lens	Focal length: 11.8-43.3mm (35mm, equivalent: 64-234mm) Aperture:
Exposure Compensation	±3EV 0.3EV/step

ISO Range	Normal Mode : Auto: ISO100 ~ ISO6400 Manual: Photo: ISO100 ~ IS
Shutter Speed	Photo: 8s ~ 1/8000s Video: 1s ~ 1/8000s
Max Photo Size	8000×6000
Max Video Resolution	7680×4320

Wide Camera

Sensor	1/1.28 CMOS, Effective pixels: 50M
Lens	DFOV: 85° Focal length: 4.5 mm (equivalent: 23 mm) Aperture: f/1.9 AF motor: 8

Exposure Compensation	±3EV 0.3EV/step
ISO Range	Auto: Photo: ISO100~ISO6400 Video: ISO100~ISO64000 (Night scene mode: up
Shutter Speed	Photo: 8s ~ 1/8000s Video: 1s ~ 1/8000s
Max. Video Resolution	3840×2160
Photo Size	8192*6144 4096*3072

Thermal Camera

Thermal Imager	Uncooled VOx Microbolometer
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Lens	DFOV: 64° Aperture: 13mm Focus: f/1.2
Infrared Temperature Measurement Accuracy	26.6~37.4 °F or reading ±3% (using the larger value) @ambient temperature -4°F to 140°F
Video Resolution	640*512
Photo Size	640*512
Pixel Pitch	12 um
Temperature Measurement Method	Center measurement, pot measurement, rectangular

Temperature Measurement Range	-4°F to 302°F, 32°F to 1022°F (-20°C to 150°C, 0 to 550°C)
Temperature Alert	High and low temperature alarm thresholds, reporting

Laser Range Finder

Measurement Accuracy
Measuring Range

Image Transmission

Operating Frequency	2.4G/5.2G*/5.8G/900MHz*
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Max Transmission Distance (unobstructed, free of interference)	20km
Independent Networking	7.9-inch Smart Controller
Transmitter Power (EIRP)	2.4GHz:<33dBm (FCC) , <20dBm(CE/SRRC/MIC) <23dBm(FCC/SRRC/MIC)

Autonomy

Non-GPS Hovering and Manual Flight	Indoor: Horizontal error $\leq 3\text{cm}$ (At least have texture at one direction) Outdoor: Manual flight is controllable within 100m flight height
Non-GPS Return-to-Home	Within 500m flight height, horizontal error of Return-to-Home point < 30cm
Automatic Obstacle Rerouting	High Speed Obstacle Rerouting: Flight speed up to 20m/s when Min. safety speed could reach 3m/s when Min. safety distance to obstacle is 0.2m

Multi-target Recognition and Tracking	Target identification types: people, vehicles, boats Number of targets detected
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Millimeter-wave Radar

Frequency	60Ghz~64Ghz
Size	38*14*2mm
Weight	2g
EIRP	18dbm
Distance Detection Range	For Obstacle Avoidance : 0.2m~100m For Height Me

Ranging Accuracy	For Obstacle Avoidance : 0.1m For Height Measurement : ± 0.1m
Speed Measurement Range	± 60m/s (4D Mode) ; ±28m/s (3D Mode) ;
Speed Measurement Accuracy	≤1%
Max. Tracking Target Number	32

Visual Sensing System

Obstacle Sensing Range	Forward/Upward/Downward/Backward/Sideward: 0.2~50m
FOV	Forward/Backward/Sideward: 60°(H), 80°(V) Upward/Downward: 30°(H), 30°(V)

7.9-inch smart controller

Screen	7.9 inch, 2000nits max. brightness, 2048*1536 resolution
External Battery	Capacity: 5800mAh Voltage: 11.55V Battery Type: Li-ion
Operating Time	3 hours (Max. brightness) 4.5 hours (50% brightness)
Max Transmission Distance (with interference)	FCC: 20km CE: 7km
Storage	128G
GNSS	GPS+GLONASS+Galileo+Beidou
Operating Temperature	-20°C to 40°C

Protocol	WiFi Direct, Wi-Fi Display, 802.11a/b/g/n/ac Support 2
Operating Frequency	2.400 - 2.4835 GHz ; 5.150 - 5.250GHz ; 5.725 – 5.85
Transmitter Power (EIRP)	2.400 - 2.4835 GHz FCC/CE:≤20dBm 5.150 - 5.250GHz

Aircraft Battery

Capacity	8070mAh
Voltage	14.88V
Battery Type	LiPo 4S
Energy	120wh

Net Weight	520g
Charging Temperature	5°C to 45°C(When the temperature is lower than 10° C (50° F), the selfheating function will be activated to protect the lifetime of the battery)
Hot Swap	Support