

Product Specification	
Size	562*651*147 mm (Unfolded with propellers) 318*400*147 mm (Unfolded w/o propellers) 257*145*131 mm (Folded w/o propellers)
Weight	1620g (Includes battery and Gimbal)
Flight Endurance	Maximum flight time (min):42min Maximum hovering time (min):38min
Flight speed	Maximum horizontal speed (m/s):23m/s Maximum ascent speed(m/s): 8m/s Maximum descent speed(m/s):6m/s
Hover accuracy	Vertical (when visual positioning is working properly): ± 0.1 米 Vertical (when GNSS is running normally): ± 0.3 米 Horizontal orientation (when visual positioning is working properly): ± 0.15 米 Horizontal Level (when GNSS is running normally): ± 0.3
Wind resistance	Wind resistance class:6 级 Wind resistance velocity:12m/s
Protection level	IP Level: IP43 Anti-static: contact 4KV, air 8KV
Flight altitude	Max flight altitude (m): 7000(Max take-off altitude 4000m)
Communication distance	Maximum image transmission distance:12km Operating frequency: Supports 2.4G/5.2G/5.8G

Working environment	Operating temperature:0°C~+40°C Working humidity:95(±3)%(20°C~30°C)
PTZ	3-axis with Jimbal (pitch, roll, translation) Maximum control speed (pitch): 200°/s Angular jitter: <0.005°
Visual positioning system	Indoor: Hover horizontal drift ≤3cm (at least one direction with texture) Outdoor: Daytime: within 500m flight height, horizontal error < 0.01* relative height is achieved outdoors during the day Night: Flight altitude of 100m at night flight controllable
Obstacle avoidance	Autonomous flying around obstacles High-speed bypass: When the minimum safe distance from the obstacle is 1.5m, the flight speed around the obstacle is up to 15m/s Accurate circumnavigation: When the minimum safe distance from the obstacle is 0.5m, the maximum flying speed around the obstacle is 3m/s
Visible light	
Zoom camera	Image sensor: 1/2" CMOS, effective pixels 48 million Lens: Focal length: 11.8-43.3mm(35mm equivalent focal length: 64-234mm) Aperture: f/2.8-f/4.8 Exposure compensation: ±3EV 0.3EV/step ISO range Normal mode: Automatic: ISO100 to ISO6400

	Manual: Photograph: ISO100 to ISO12800 Video: ISO100 ~ ISO6400 Shutter speed Shutter speed :8s ~ 1/8000s Video shutter speed :1s ~ 1/8000s Maximum photo size 8000 x 6000 Maximum video resolution 7680 x 4320
Wide-angle camera	Image sensor: 1/1.28" CMOS, 50 million effective pixels Lens: DFOV: 85° Focal length: 4.5 mm (equivalent focal length: 23 mm) Aperture: f/1.9 Focus mode: PDAF focus Exposure compensation: ±3EV, 0.3EV/step ISO range Auto: Photo: ISO 100 - ISO 6400 Video: ISO 100 - ISO 64000 (Night mode ISO up to 64000) Manual: Photo: ISO 100 - ISO 12800 Video: ISO 100 - ISO 6400 Shutter speed Photo shutter speed: 8s - 1/8000s Video shutter speed: 1s - 1/8000s Maximum video resolution: 3840×2160 Photo size: 4096*3072
Picture	AE: ±3EV, 0.3EV/step, Touch AE with spot metering Zoom: 1 to 16x digital zoom, precision 0.1x Supports track wheel/App zoom Defog: Electronic defog switch with weak, medium and strong settings Ultra-sensitivity: Switch, maximum ISO 5120 Watermark: Switch: Time, latitude, Longitude and altitude, aircraft

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Infrared camera	
probe	Detector type: uncooled vanadium oxide focal plane Resolution :640 x 512 e Pixel pitch :12um Response band :8~14um Noise equivalent temperature difference (NETD):≤50mK@25℃, f# 1.0
Lens	DFOV:42° Focal length: 13mm Aperture: f/1.2
Temperature Measurement range	Infrared temperature measurement accuracy: $\pm 3^{\circ}\text{C}$ or $\pm 3\%$ of the reading (the greater) @ ambient temperature $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Video resolution: 640*512 Photo size: 640*512 Pixel spacing: 12 um
Laser ranging	Measurement accuracy: $\pm (1\text{m} + D \times 0.15\%)$ Where D represents the distance between the vertical reflector Measuring range: 5-1200m
Image transmission	Operating frequency: 2.4G/5.8G/900MHz* 900MHz is only available in FCC certified coverage areas. Maximum signal effective distance (no interference, no occlusion) : 20km(FCC), 8km(CE) Equivalent omnidirectional Radiated Power (EIRP) 2.4GHz: <28dBm (FCC) , <20dBm(CE/SRRC/MIC) 5.8GHz: <28dBm(FCC/SRRC), <14dBm(CE) 902-928MHz: <28dBm(FCC) 5.65-5.755GHz: <31dBm(MIC)
Visual omnidirectional perception system	Range of perception Front: 0.5 to 31m Rear: 0.5~25m

	Left/Right: 0.5~26m Up: 0.2~26m Below: 0.3~23m FOV Front and rear: horizontal 60°, vertical 80° Up and down: left and right 180°, front and back 120° Effective use environment Front, back, left, right, top: the surface has rich texture, adequate lighting conditions (> 15lux, indoor fluorescent lamp normal exposure environment) Below: The surface is diffuse reflective material with reflectivity >20% (e.g. walls, trees, people) Etc.), adequate lighting conditions (>15 lux, indoor fluorescent lamp normal irradiation environment)
Millimeter wave radar sensing system	Transmission frequency: 24GHz/60GHz* * Please comply with local laws and regulations to ensure flight safety Range of perception 60GHz radar: Upper: 0.3~20m Lower: 0.15~80m Front and rear: 0.3~50m 24GHz radar: Lower: 0.8~12m FOV Level (6dB) : $\pm 60^\circ/\pm 22^\circ$ (24G/60G) Vertical (6dB) : $\pm 30^\circ/\pm 20^\circ$ (24G/60G) Effective use environment 60GHz millimeter wave radar sensing system supports front and back up and down to glass, water, wire, Buildings and trees can avoid obstacles all day and all weather. Its obstacle avoidance distance depends on the obstacle to electricity The reflective power of magnetic waves varies with their surface size. 24Ghz millimeter wave radar supports downward sensing, and its sensing range varies depending on the ground material. For example, the perception range of the cement floor is 12 meters, and the thickness of the grass is more than 3cm No higher than six meters.

Remote controller	Display Screen: 7.9 inches, 2000nits maximum brightness, 2048*1536 resolution. Battery capacity: 5800mAh Battery type: Smart lithium-ion battery Voltage: 11.55V Energy: 67Wh Charging time: 120 minutes Battery life: 3 hours (maximum brightness) 4.5 hours (50% brightness) Maximum signal effective distance (no interference, no occlusion) FCC: 20km CE: 8km IP protection level: IP43 Memory space: 128GB GNSS+GPS+GLONASS+Galileo+Beidou Working environment temperature: -20℃ to 40℃ WiFi protocol: WiFi Direct, Wi-Fi Display, 802.11a/b/g/n/ac supports 2 x 2 MIMO Wi-Fi WiFi working frequency: 2.400-2.4835 GHz; 5.150-5.250 GHz*(for MIC only); 5.725-5.850 GHz*(except MIC) WiFi equivalent Omnidirectional Radiated Power (EIRP) : 2.400-2.4835 GHz FCC: < 23dBm; CE/SRRC/MIC: < 20dBm 5.150-5.250 GHz MIC: < 17dBm 5.725 to 5.850 GHz FCC/SRRC: < 22dBm CE: < 14dBm
Product picture	