

# Aircraft

Takeoff weight	1191 g
Max takeoff weight	2000 g
Wheelbase	397 mm
Battery	7100 mAh
Max flight time(no wind)	40min
Max hovering time(no wind)	35min
Max horizontal flight speed	20 m/s
Max ascent speed	8 m/s
Max descent speed	4 m/s
Max flight distance (no wind)	25 km
Maximum service ceiling altitude	7000 m
Maximum resistance to wind	Level 8
Operating temperature range	-10°C ~ 40°C

Operating frequency	non-Japan: 2.400 GHz - 2.4835 GHz ; 5.725 - 5.850 GHz Japan: 2.400 GHz - 2.4835 GHz ; 5.650 - 5.755 GHz
Transmission power	2.4GHz FCC/ISED: $\leq 27$ dBm SRRC/CE/MIC/RCM: $\leq 20$ dBm 5.8G (non-Japan) ; 5.7G (non-Japan) FCC/ISED/SRRC/MIC: $\leq 27$ dBm CE/ RCM: $\leq 14$ dBm
Hovering accuracy	Vertical: $\pm 0.02$ m (when the visual positioning is working normally) ; $\pm 0.2$ m (when GPS works normally) Horizontal: $\pm 0.02$ m (when the visual positioning is working normally) ; $\pm 0.5$ m (when GPS works normally)

## Gimbal

Mechanical range	Tilt: -135° ~ +45° Pan: -100° ~ +100°
Controllable rotation range	Tilt: -90° ~ +30° Pan: -90° ~ +90°
Stabilization System	Three-axis stabilization
Max control speed (Tilt)	300°/s
Angular Vibration Range	±0.005°

## Sensing system

Sensing system type	Omnidirectional sensing system
Forward	Accurate measurement range: 0.5 - 20 m Detection range: 0.5 - 40 m Effective sensing speed: < 15m/s Viewing angle: Horizontal: 60°, Vertical: 80°
Backward	Accurate measuring range: 0.5 - 16 m Detection range: 0.5 - 32 m Effective sensing speed: < 12m/s Viewing angle: Horizontal: 60°, Vertical: 80°
Upward	Accurate measurement range: 0.5 - 12 m Detection range: 0.5 - 24 m Effective sensing speed: < 6m/s

Downward	Viewing angle:horizontal: 65°, vertical: 50° Accurate measurement range: 0.5 - 11 m Detection range: 0.5 - 22 m Effective sensing speed: < 6m/s
Left and right	Viewing angle: horizontal: 100°, vertical: 80° Accurate measurement range: 0.5 - 12 m Detection range: 0.5 - 24 m Effective sensing speed: < 10m/s
Operating Environment	Viewing angle: horizontal: 65°, vertical: 50° Forward, Backward and Sides : Surface with clear pattern and adequate lighting ( >lux > 15) Upward : Detects diffuse reflective surfaces >20% (walls, trees, people, etc) Downward : Surface with clear pattern and adequate lighting ( > lux > 15) Detects diffuse reflective surfaces >20% (walls, trees, people, etc.)

## Camera

Sensor	1" CMOS
effective pixels	20 million

FOV	82°
Lens	35 mm format equivalent focal length: 28.6 mm Aperture: f/2.8 - f/11 Focus range: 1 m to infinity (with auto focus)
ISO range	Video: 100-6400 Photos: 100-12800
Zoom	1-8x (up to 3x lossless zoom)
Photo mode	Single shot Burst shooting: 3/5 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias Time Lapse: JPG: 2s/5s/7s/10s/20s/30s/60s DNG: 5s/7s/10s/20s/30s/60s HyperLight: support (under 4K JPEG format) Long exposure: Max. 8s HDR imaging: support (under 4K JPEG format)
Photo resolution	5472*3648 (3:2) 5472*3076 (16:9) 3840*2160 (16:9)
Video format	MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)
Video resolution	6K 5472*3076 p30/p25/p24 4K 3840*2160 p60/p50/p48/p30/p25/p24 2.7K 2720*1528 p120/p60/p50/p48/p30/p25/p24

1080P 1920\*1080  
p120/p60/p50/p48/p30/p25/p24  
120Mbps

Max bitrate

## Remote Controller & image transmission

Max Transmission Distance (unobstructed, free of interference)	9km FCC, 5km CE
Transmission power	2.4~2.4835GHz FCC/ISED: ≤27dBm SRRRC/CE/MIC/RCM: ≤20dBm
Real-time image transmission quality	720p@30fps / 1080p@30fps
Maximum bit rate of real-time image transmission	40Mbps
Remote controller battery	5000mAh
Run time	3 hours
Charging time	2 hours fast charging
Display screen	3.26" OLED 854(W) * 480(H) Pixel

Directly preview the video without connecting a mobile phone

Working current/voltage 1.7A@3.7V

## Intelligent Flight Battery

Capacity (mAh)	7100mAh
Voltage (V)	11.55
Transmission power (2.4G )	13.2
Battery type	LiPo 3S
Energy	82Wh
Weight (g)	365
Charging temperature range (°C)	5~45°C
Storage temperature and humidity	-10~30°C, 65±20%RH
Recommended storage temperature	22~28°C
Max charging power (W)	93W
Charging time	90minutes

## Charger

Input	100-240 V, 50/60 Hz, 1.5A
Output	13.2 V = 5 A 5V=3A 9V=2A 12V=1.5A
Voltage	13.2 ± 0.1 V
Rated power	66 W

## Storage

SD storage	Standard : 32 GB, max. support : 256GB ( UHS-3 rating required )
In-flight storage	8GB