

Data Acquisition Efficiency: Max operating area of approx. 1 hectare (single flight) at an altitude of 100 m, i.e. GSD is approx. 5 cm/pixel, meeting the requirements of the ASPRS Accuracy Standards for Digital Orthophotos Class 2.

Vision System

Velocity Range: ≤ 31 mph (50 kph) at 6.6 ft (2 m) above ground with adequate lighting
Altitude Range: 0-33 ft (0 - 10 m)
Operating Range: 0-33 ft (0 - 10 m)
Obstacle Sensing Range: 2-98 ft (0.7-30 m)
FOV: Forward/Rear: 60° (horizontal), $\pm 27^\circ$ (vertical), Downward: 70° (front and rear), 50° (left and right)
Measuring Frequency: Forward/Rear : 10 Hz; Downward : 20 Hz
Operating Environment: Surfaces with clear patterns and adequate lighting (> 15 lux)

Camera

Sensor: 1" CMOS; Effective pixels: 20 M
Lens: FOV 84° ; 8.8 mm / 24 mm (35 mm format equivalent: 24 mm) ; f/2.8 - f/11, auto focus at 1 m - ∞
ISO Range: Video: 100-3200 (Auto), 100-6400 (Manual) ; Photo: 100-3200 (Auto), 100-12800 (Manual)
Mechanical Shutter Speed: 8 - 1/2000 s
Electronic Shutter Speed: 8 - 1/8000 s
Max Image Size: 4864x3648 (4:3) ; 5472x3648 (3:2)
Video Recording Modes: H.264, 4K : 3840x2160 30p
Photo Format: JPEG
Video Format: MOV
Supported File Systems: FAT32 (≤ 32 GB) ; exFAT (> 32 GB)
Supported SD Cards: MicroSD, Max Capacity: 128 GB. Class 10 or UHS-1 rating required Write speed ≥ 15 MB/s
Operating Temperature Range : 32° to 104° F (0° to 40° C)

Intelligent Flight Battery (PH4-5870mAh-15.2V)

Capacity: 5870 mAh
Voltage: 15.2 V
Battery Type: LiPo 4S
Energy: 89.2 Wh
Net Weight: 468 g
Charging Temperature Range: 14° to 104° F (-10° to 40° C)
Max charging Power: 160 W

Intelligent Battery Charing Hub (WCH2)

Input Voltage: 17.3 - 26.2 V
Output Voltage and Current: 8.7 V, 6 A ; 5 V, 2 A
Operating Temperature: 41° to 104° F (5° to 40° C)

SDK Remote Controller

Operating Frequency: 2.400 GHz to 2.483 GHz (Europe, Japan, Korea), 5.725 GHz to 5.850 GHz (Other countries/regions)
EIRP: 2.4 GHz - CE / MIC / KCC: < 20 dBm, 5.8 GHz - FCC / SRRC / NCC: < 26 dBm
Max Transmission Distance: FCC / NCC: 4.3 mi (7 km); CE / MIC / KCC / SRRC: 3.1 mi (5 km); (Unobstructed, free of interference)
Built-in Battery: 6000 mAh LiPo 2S
Operating Current / Voltage: 1.2 A @ 7.4 V
Mobile Device Holder: Tablets and smartphones
Operating Temperature: 32° to 104° F (0° to 40° C)

GNSS

Single-Frequency, High-Sensitivity GNSS Module:
GPS+BeiDou+Galileo (Asia) ; GPS+GLONASS+Galileo (other regions)
Multi-Frequency Multi-System High-Precision RTK GNSS: Frequency Used -
GPS : L1/L2 ; GLONASS : L1/L2 ; BeiDou : B1/B2 ; Galileo : E1/E5a; First-Fixed Time : < 50 s; Positioning Accuracy: Vertical 1.5 cm + 1 ppm (RMS) ; Horizontal 1.5 cm + 1 ppm (RMS) ; 1 ppm means the error has a 1mm increase