

## Aircraft

<b>Takeoff Weight</b>	1391 g
<b>Diagonal Distance</b>	350 mm
<b>Max Service Ceiling Above Sea Level</b>	19685 ft (6000 m)
<b>Max Ascent Speed</b>	6 m/s (automatic flight); 5 m/s (manual control)
<b>Max Descent Speed</b>	3 m/s
<b>Max Speed</b>	31 mph (50 kph)(P-mode) 36 mph (58 kph)(A-mode)
<b>Max Flight Time</b>	Approx. 30 minutes
<b>Operating Temperature Range</b>	32° to 104° F (0° to 40°C)
<b>Operating Frequency</b>	2.400 GHz to 2.483 GHz (Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (United States, China)
<b>Transmission Power (EIRP)</b>	2.4 GHz CE (Europe) / MIC (Japan) / KCC (Korea) <span> </span> : < 20 dBm
	5.8 GHz SRRC (China) / FCC (United States) /NCC(Taiwan,China): < 26 dBm
<b>Hover Accuracy Range</b>	RTK enabled and functioning properly: Vertical: ±0.1 m; Horizontal: ±0.1 m
	RTK disabled Vertical: ±0.1 m (with vision positioning) ; ±0.5 m (with GNSS positioning) Horizontal: ±0.3 m (with vision positioning) ; ±1.5 m (with GNSS positioning)
<b>Image Position Offset</b>	The position of the camera center is relative to the phase center of the onboard D-RTK antenna under the aircraft body's axis.(36, 0, and 192 mm) already applied to the image coordinates in Exif data. The positive x, y, and z axes of the aircraft body point to the forward, rightward, and downward of the aircraft, respectively.

## Mapping Functions

<b>Mapping Accuracy **</b>	Mapping accuracy meets the requirements of the ASPRS Accuracy Standards for Digital Orthophotos Class III ** The actual accuracy depends on surrounding lighting and patterns, aircraft altitude, mapping software used, and other factors when shooting.
<b>Ground Sample Distance(GSD)</b>	(H/36.5) cm/pixel, H means the aircraft altitude relative to shooting scene (unit: m)
<b>Data Acquisition Efficiency</b>	Max operating area of approx. 1 km² for a single flight(at an altitude of 182 m, i.e., GSD is approx. 5 cm/pixel, meeting the requirements of the ASPRS Accuracy Standards for Digital Orthophotos Class III

## Vision System

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

## Camera

<b>Sensor</b>	1" CMOS; Effective pixels: 20 M
<b>Lens</b>	FOV 84°; 8.8 mm / 24 mm(35 mm format equivalent:24 mm); f/2.8 - f/11, auto focus at 1 m - ∞
<b>ISO Range</b>	Video:100-3200(Auto) 100-6400(Manual);  Photo:100-3200(Auto) 100-12800(Manual)
<b>Mechanical Shutter Speed</b>	8 - 1/2000 s
<b>Electronic Shutter Speed</b>	8 - 1/8000 s
<b>Max Image Size</b>	4864×3648 (4:3) ; 5472×3648 (3:2)
<b>Video Recording Modes</b>	H.264, 4K: 3840×2160 30p
<b>Photo Format</b>	JPEG
<b>Video Format</b>	MOV
<b>Supported File Systems</b>	FAT32 (≤ 32 GB) ; exFAT (> 32 GB)
<b>Supported SD Cards</b>	MicroSD, Max Capacity: 128 GB. Class 10 or UHS-1 rating required Write speed≥15 MB/s
<b>Operating Temperature Range</b>	32° to 104° F (0° to 40°C)

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

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

## Intelligent Battery Charing Hub(WCH2)

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

## SDK Remote Controller

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

## GNSS

<b>Single-Frequency, High-Sensitivity GNSS Module</b>	GPS+BeiDou+Galileo (Asia); GPS+GLONASS+Galileo (other regions)
<b>Multi-Frequency Multi-System High-Precision RTK GNSS</b>	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 cm + 1 ppm (RMS) 1 ppm means the error has a 1mm increase for every 1 km of movement from the aircraft.

## Gimbal

<b>Stabilization</b>	3-axis (tilt, roll, yaw)
<b>Pitch</b>	-90° to +30°
<b>Max Controllable Angular Speed</b>	90°/s
<b>Angular Vibration Range</b>	±0.02°

## Infrared

<b>Obstacle Sensing Range</b>	0.6-23 ft(0.2 - 7 m)
<b>FOV</b>	70°(Horizontal) ±10°(Vertical)
<b>Measuring Frequency</b>	10 Hz
<b>Operating Environment</b>	Surface with diffuse reflection material, and reflectivity > 8% (such as wall,trees, humans, etc.)

## Remote Controller

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<b>Transmission Power (EIRP)</b>	2.4 GHz CE / MIC / KCC: < 20 dBm
	5.8 GHz SRRC / FCC: < 26 dBm
<b>Max Transmission Distance</b>	FCC: 4.3 mi(7 km); SRRC / CE / MIC / KCC: 3.1 mi(5 km) (Unobstrcted, free of interference)
<b>Power Consumption</b>	16 W(typical value)
<b>Display</b>	5.5 inch screen, 1920×1080, 1000 cd/m², Android System Memory 4G RAM+16G ROM
<b>Operating Temperature Range</b>	32° to 104° F (0° to 40°C)

## Intelligent Flight Battery Charging Hub(PHANTOM 4 CHARING HUB)

<b>Voltage</b>	17.5V
<b>Operating Temperature Range</b>	41° to 104°F(5° to 40°C)
<b>Capacity</b>	4920 mAh
<b>Voltage</b>	7.6V
<b>Battery Type</b>	LiPo 2S
<b>Energy</b>	37.39 Wh
<b>Operating Temperature</b>	-4° to 104°F(-20° to 40°C)

## AC Power Adapter(PH4C160)

<b>Voltage</b>	17.4V
<b>Rated Power</b>	160 W