

Takeoff Weight

1391 g

Diagonal Distance

350 mm

Max Service Ceiling Above Sea Level

19685 ft (6000 m)

Max Ascent Speed

6 m/s (automatic flight); 5 m/s (manual control)

Max Descent Speed

3 m/s

Max Speed

31 mph (50 kph)(P-mode) 36 mph (58 kph)(A-mode)

Max Flight Time

Approx. 30 minutes

Operating Temperature Range

32° to 104° F (0° to 40°C)

Operating Frequency

2.400 GHz to 2.483 GHz (Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (United States, China)

Transmission Power (EIRP)

2.4 GHz

CE (Europe) / MIC (Japan) / KCC (Korea) : < 20

dBm

5.8 GHz

SRRC (China) / FCC (United

States) /NCC(Taiwan,China): < 26 dBm

Hover Accuracy Range

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)



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.

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 cm + 1 ppm (RMS)

1 ppm means the error has a 1mm increase for every 1 km of movement from the aircraft.





Mapping Accuracy **

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.

Ground Sample Distance(GSD)

(H/36.5) cm/pixel,

H means the aircraft altitude relative to shooting scene (unit: m)

Data Acquisition Efficiency

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

GIMBAL

Stabilization

3-axis (tilt, roll, yaw)

Pitch

-90° to +30°

Max Controllable Angular Speed

90°/s

Angular Vibration Range

+0.02°

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)



2-98 ft(0.7-30 m)

FOV

right)

Forward/Rear: 60° (horizontal), ±27° (vertical) Downward: 70° (front and rear), 50° (left and

Measuring Frequency

Forward/Rear: 10 Hz; Downward: 20 Hz

Operating Environment

Surfaces with clear patterns and adequate lighting(> 15 lux)

INFRARED

Obstacle Sensing Range

0.6-23 ft(0.2 - 7 m)

FOV

70°(Horizontal) ±10°(Vertical)

Measuring Frequency

10 Hz

Operating Environment

Surface with diffuse reflection material, and reflectivity > 8% (such as wall, trees, humans, etc.)





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

4864×3648 (4:3);

5472×3648 (3:2)

Video Recording Modes

H.264, 4K: 3840×2160 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)



Operating Frequency

2.400 GHz-2.483 GHz(Europe, Japan, Korea) 5.725 GHz-5.850 GHz(United States, China)

Transmission Power (EIRP)

2.4 GHz

CE / MIC / KCC: < 20 dBm

5.8 GHz

SRRC / FCC: < 26 dBm

Max Transmission Distance

FCC: 4.3 mi(7 km);

SRRC / CE / MIC / KCC: 3.1 mi(5 km)

(Unobstrcted, free of interference)

Power Consumption

16 W(typical value)

Display

5.5 inch screen, 1920×1080, 1000 cd/m²,

Android System

Memory 4G RAM+16G ROM

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 FLIGHT BATTERY CHARGING HUB(PHANTOM 4 CHARING HUB)

Voltage 17.5 V

Capacity 4920 mAh

Voltage 7.6 V

Battery Type LiPo 2S

Energy 37.39 Wh

Operating Temperature

-4° to 104°F(-20° to 40°C)

Operating Temperature Range

41° to 104°F(5° to 40°C)

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)



AC POWER ADAPTER(PH4C160)

Voltage

17.4 V

Rated Power

160 W

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)

