

PHANTOM 4 RTK SPECS

HomeProductsPhantom 4 RTKSpecs

AIRCRAFT

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 CECE (Europe) / MIC (Japan) / KCC (Korea) : < 20 dBm 5.8 GHz SRRC (China) / FCC (United States) /(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)
Image Position Offset	The position of the camera center is relative to the phase center of the onboard D-RTK antenna under t axis:(36, 0, and 192 mm) already applied to the image coordinates in Exif data. The positive x, y, and z a body point to the forward, rightward, and downward of the aircraft, respectively.

MAPPING FUNCTIONS

Mapping Accuracy**	Mapping accuracy meets the requirements of the ASPRS Accuracy Standards for Digital Orthophotos C ** The actual accuracy depends on surrounding lighting and patterns, aircraft altitude, mapping software 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 km ² for a single flight(at an altitude of 182 m, i.e., GSD is approx. 5 cm/ requirements of the ASPRS Accuracy Standards for Digital Orthophotos Class III

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), ±27° (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	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)

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)