

PHANTOM 4 RTK Specs

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Aircraft

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| 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) |
| Image Position Offset | 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

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| 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 km ² 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

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| 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

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| Sensor | 1" CMOS; Effective pixels: 20 M |
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GNSS

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| 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. |

Gimbal

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

Infrared

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|------------------------|---|
| 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.) |

Remote Controller

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|-----------------------------|--|
| 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) (Unobstructed, free of interference) |
| Power Consumption | 16 W (typical value) |
| Display | 5.5 inch screen, 1920×1080, 1000 cd/m ² , Android System Memory 4G RAM+16G ROM |
| Operating Temperature Range | 32° to 104° F (0° to 40°C) |

Intelligent Flight Battery Charging Hub(PHANTOM 4 CHARGING HUB)

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|-----------------------------|-----------------------------|
| Voltage | 17.5 V |
| Operating Temperature Range | 41° to 104°F (5° to 40°C) |
| 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) |

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| 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) |

AC Power Adapter(PH4C160)

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| Voltage | 17.4 V |
| Rated Power | 160 W |

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

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| 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)

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

SDK Remote Controller

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|-----------------------------|---|
| 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) |