

DJI Phantom 4 Pro



AIRCRAFT

Weight (Battery & Propellers Included)	1388 g
Diagonal Size (Propellers Excluded)	350 mm
Max Ascent Speed	S-mode: 6 m/s; P-mode: 5 m/s
Max Descent Speed	S-mode: 4 m/s; P-mode: 3 m/s
Max Speed	45 mph (72 kph) (S-mode); 36 mph (58 kph) (A-mode); 31 mph (50 kph) (P-mode)
Max Tilt Angle	42° (S-mode); 35° (A-mode); 25° (P-mode)
Max Angular Speed	250°/s (S-mode); 150°/s (A-mode)
Max Service Ceiling Above Sea Level	19685 ft (6000 m)
Max Flight Time	Approx. 30 minutes
Operating Temperature	32° to 104° F (0° to 40° C)
Satellite Positioning Systems	GPS/GLONASS
GPS Hover Accuracy Range	Vertical: ± 0.1 m (With Vision Positioning); ± 0.5 m (With GPS Positioning) Horizontal: ± 0.3 m (With Vision Positioning); ± 1.5 m (With GPS Positioning)

VISION SYSTEM

Velocity Range	≤ 31 mph (50 kph) at 6.6 ft (2 m) above ground
Altitude Range	0 – 33 ft (0 – 10 m)
Operating Range	0 – 33 ft (0 – 10 m)
Obstacle Sensory Range	2 – 98 ft (0.7 – 30 m)
FOV	$\pm 60^\circ$ (Horizontal), $\pm 54^\circ$ (Vertical)
Detection Frequency	10Hz
Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)

CAMERA

Sensor	1" CMOS; Effective pixels: 20M
Lens	FOV (Field of View) 84°, 8.8 mm / 24 mm (35 mm format equivalent), 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	8 - 1/2000 s
Electronic Shutter	8 - 1/8000 s
Max Image Size	3:2 Aspect Ratio: 5472 × 3648 4:3 Aspect Ratio: 4864 × 3648 16:9 Aspect Ratio: 5472 × 3078
PIV Image Size	16:9 Aspect Ratio: • 5248 × 2952 (3840 × 2160 24/25/30p, 2720 × 1530 24/25/30p, 1920 × 1080 24/25/30p, 1280 × 720 24/25/30p) • 3840 × 2160 (3840 × 2160 48/50p, 2720 × 1530 48/50p, 1920 × 1080 48/50/60p, 1280 × 720 48/50/60p) 17:9 Aspect Ratio: • 4896 × 2592 (4096 × 2160 24/25/30p) • 4096 × 2160 (4096 × 2160 48/50p)

Still Photography ModesSingle Shot

Burst Shooting: 3/5/7/10/14 frames
Auto Exposure Bracketing (AEB): 3/5 bracketed
frames at 0.7EV Bias
Interval: 2/3/5/7/10/15/30/60 s

Video Recording Modes H.265

- C4K : 4096×2160 24/25/30p @100Mbps
- 4K : 3840×2160 24/25/30p @100Mbps
- 2.7K : 2720×1530 24/25/30p @65Mbps

2720×1530 48/50/60p @80Mbps
• FHD : 1920×1080 24/25/30p @50Mbps

1920×1080 48/50/60p @65Mbps

1280×720 48/50/60p @35Mbps

H.264

- C4K : 4096×2160 24/25/30/48/50/60p @100Mbps
- 4K : 3840×2160 24/25/30/48/50/60p @100Mbps
- 2.7K : 2720×1530 24/25/30p @80Mbps

2720×1530 48/50/60p @100Mbps

- FHD : 1920×1080 24/25/30p @60Mbps

1920×1080 48/50/60/120p @80Mbps

- HD : 1280×720 24/25/30p @30Mbps

1280×720 48/50/60/120p @45Mbps

Video Storage Bitrate 100 Mbps

Supported File Systems FAT32 (≤ 32 GB); exFAT (> 32 GB)

Photo JPEG, DNG (RAW), JPEG + RAW

Video MP4/MOV (AVC/H.264 ; HEVC/H.265)

Supported SD Cards Micro SD, Max Capacity: 128GB.
Write speed ≥15MB/s, class 10 or UHS-1 rating required

Operating Temperature 32° to 104° F (0° to 40° C)

CHARGER

Voltage 17.4 V

Rated Power 100 W

GIMBAL

Stabilization 3-axis (pitch, roll, yaw)

Controllable Range Pitch: -90° to +30°

Max Controllable Angular Speed Pitch: 90°/s

Angular Control Accuracy ±0.03°

TOF SENSING SYSTEM

Obstacle Sensory Range 0.6 – 23 ft (0.2 – 7 m)

FOV $\pm 35^\circ$ (Horizontal), $\pm 10^\circ$ (Vertical)

Detection Frequency 10 Hz

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

REMOTE CONTROLLER

Operating Frequency 2.400 - 2.483 GHz and 5.725 - 5.850 GHz

Max Transmission Distance FCC Compliant: 4.3mi (7km);
CE Compliant: 2.2mi (3.5km) (Unobstructed, free of interference)

Operating Temperature 32° to 104° F (0° to 40° C)

Battery 6000mAh LiPo 2S

Transmitter Power (EIRP) 2.400 GHz - 2.483 GHz
FCC: 23 dBm; CE: 17 dBm
5.725 GHz - 5.850 GHz
FCC: 30 dBm; CE: 14 dBm

Operating Voltage 1.2 A @7.4 V

Video Output Port GL300E: USB
GL300F: HDMI, USB

Mobile Device Holder GL300E: Tablets and smart phones
GL300F: Built-in display device (5.5 inch screen, 1920×1080,
1000 cd/m², Android system, 4G RAM + 16G ROM)

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 100 W