

Specs

Phantom 4 Pro V2.0

Aircraft

- **Weight (Battery & Propellers Included)**

- 1375 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**

- S-mode: 45 mph (72 kph)

A-mode: 36 mph (58 kph)

P-mode: 31 mph (50 kph)

- **Max Tilt Angle**

- S-mode: 42°

A-mode: 35°

P-mode: 25°

- **Max Angular Speed**

- S-mode: 250°/s

A-mode: 150°/s

- **Max Service Ceiling Above Sea Level**

- 19685 ft (6000 m)

- **Max Wind Speed Resistance**

- 10 m/s

- **Max Flight Time**
 - Approx. 30 minutes
- **Operating Temperature Range**
 - 32° to 104°F (0° to 40°C)
- **Satellite Positioning Systems**
 - GPS/GLONASS
- **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)

Gimbal

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

Vision System

- **Vision System**
 - Forward Vision System
 - Backward Vision System
 - Downward 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**
 - Forward: 60° (Horizontal), ±27° (Vertical)
 - Backward: 60° (Horizontal), ±27° (Vertical)
 - Downward: 70° (Front and Rear), 50° (Left and Right)
- **Measuring Frequency**
 - Forward: 10 Hz
 - Backward: 10 Hz
 - Downward: 20 Hz
- **Operating Environment**
 - Surface with clear pattern and adequate lighting (lux>15)

Infrared Sensing System

- **Obstacle Sensory Range**
 - 0.6-23 feet (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.)

Camera

- **Sensor**

- 1-inch CMOS
Effective pixels: 20M
- **Lens**
 - FOV 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 Speed**
 - 8-1/2000 s
- **Electronic Shutter Speed**
 - 8-1/8000 s
- **Image Size**
 - 3:2 Aspect Ratio: 5472×3648
 - 4:3 Aspect Ratio: 4864×3648
 - 16:9 Aspect Ratio: 5472×3078
- **PIV Image Size**
 - 4096×2160 (4096×2160 24/25/30/48/50p)
 - 3840×2160 (3840×2160 24/25/30/48/50/60p)
 - 2720×1530 (2720×1530 24/25/30/48/50/60p)
 - 1920×1080 (1920×1080 24/25/30/48/50/60/120p)
 - 1280×720 (1280×720 24/25/30/48/50/60/120p)
- **Still Photography Modes**
 - Single Shot
 - Burst Shooting: 3/5/7/10/14 frames
 - Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7 EV Bias
 - Interval: 2/3/5/7/10/15/20/30/60 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

2.7K: 2720×1530 48/50/60p @80Mbps

FHD: 1920×1080 24/25/30p @50Mbps

FHD: 1920×1080 48/50/60p @65Mbps

FHD: 1920×1080 120p @100Mbps

HD:1280×720 24/25/30p @25Mbps

HD: 1280×720 48/50/60p @35Mbps

HD: 1280×720 120p @60Mbps

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

2.7K: 2720×1530 48/50/60p @100Mbps

FHD: 1920×1080 24/25/30p @60Mbps

FHD: 1920×1080 48/50/60 @80Mbps

FHD: 1920×1080 120p @100Mbps

HD: 1280×720 24/25/30p @30Mbps

HD: 1280×720 48/50/60p @45Mbps

HD: 1280×720 120p @80Mbps

- **Max Video Bitrate**

- 100 Mbps

- **Supported File Systems**

- FAT32 (≤32 GB); exFAT (>32 GB)

- **Photo**

- JPEG, DNG (RAW), JPEG + DNG

- **Video**

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

- **Supported SD Cards**

- microSD

Max Capacity: 128 GB

Write speed ≥15MB/s, Class 10 or UHS-1 rating required

- **Operating Temperature Range**

- 32° to 104°F (0° to 40°C)

Remote Controller

- **Operating Frequency**

- 2.400-2.483 GHz and 5.725-5.850 GHz

- **Max Transmission Distance**

- 2.400-2.483 GHz, 5.725-5.850 GHz (Unobstructed, free of interference)

FCC: 10000 m

CE: 6000 m

SRRC: 6000 m

MIC: 6000 m

- **Operating Temperature Range**

- 32° to 104°F (0° to 40°C)

- **Battery**

- 6000 mAh LiPo 2S

- **Transmitter Power (EIRP)**

- 2.400-2.483 GHz

FCC: 26 dBm

CE: 20 dBm

SRRC: 20 dBm

MIC: 17 dBm

5.725-5.850 GHz

FCC: 26 dBm

CE: 14 dBm

SRRC: 20 dBm

MIC: -

- **Operating Current/Voltage**

- 1.2 A@7.4 V

- **Video Output Port**

- GL300K: HDMI

GL300L: USB

- **Mobile Device Holder**

- GL300K: Built-in display device (5.5-inch screen, 1920×1080, 1000 cd/m², Android system, 4 GB RAM + 16 GB ROM)
GL300L: Tablets and smart phones

Charger

- **Voltage**

- 17.4 V

- **Rated Power**

- 100 W

Intelligent Flight Battery

- **Capacity**

- 5870 mAh

- **Voltage**

- 15.2 V

- **Battery Type**

- LiPo 4S

- **Energy**

- 89.2 Wh

- **Net Weight**

- 468 g

- **Charging Temperature Range**

- 41° to 104°F (5° to 40°C)

- **Max Charging Power**

- 160 W

App / Live View

- **Mobile App**

- DJI GO 4

- **Live View Working Frequency**

- 2.4 GHz ISM, 5.8 GHz ISM
- **Live View Quality**
 - 720P @ 30fps, 1080P @ 30fps
- **Latency**
 - Phantom 4 Pro V2.0: 220 ms (depending on conditions and mobile device)
 - Phantom 4 Pro+ V2.0: 160-180 ms