# PHANTOM 4 PRO+ V2.0

# Quick Start Guide

V1.0





# Phantom 4 Pro+ V2.0

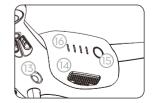
The DJI PHANTOM™ 4 Pro+ V2.0 is a smart prosumer flying camera capable of shooting 4K video at 60 fps and at up to 100 Mbps, and capturing 20 megapixel stills. 4 directions of obstacle avoidance allow it to intelligently avoid obstacles during flight. Using TapFly™ and ActiveTrack™ through the DJI GO™ 4 app, you can fly anywhere visible on your screen or track a moving subject smoothly and easily with a simple tap. The camera uses a 1-inch CMOS sensor offering unprecedented clarity, lower noise, and better quality images.

In addition to the above features, improved propulsion system efficiency means aircraft noise is 4dB (60%) lower than on the Phantom 4 Pro+ V2.0.



- 1. Gimbal and Camera
- 2. Downward Vision System\*
- 3. Micro USB Port
- Camera/Linking Status Indicator and Link Button
- 5. Camera Micro SD Card Slot
- 6. Forward Vision System
- 7. Infrared Sensing System\*
- 8. Front LEDs

- 9 Motors
- 10. Propellers
- 11. Aircraft Status Indicators
- 12 Antennas
- 13. Rear Vision System
- 14. Intelligent Flight Battery
- 15. Power Button
- 16. Battery Level Indicators

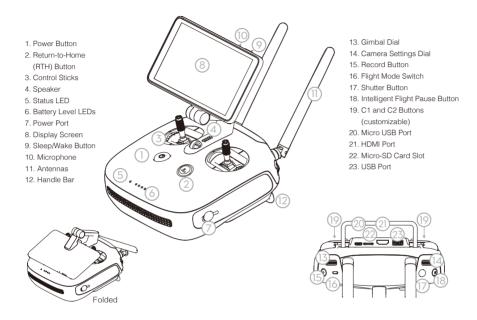


<sup>\*</sup> The Vision and Infrared Sensing Systems are affected by surrounding conditions. Read the Disclaimer and Safety Guidelines and watch the tutorials in the DJI GO 4 app or on the official DJI website to learn more.

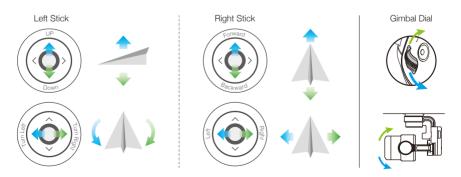
# **Remote Controller**

The powerful remote controller of the Phantom 4 Pro+ V2.0 has a transmission range extending up to 4.3 mi (7 km)\*. It features physical buttons and dials to control exposure, camera tilt, photo capture, and video recording.

Built into the remote controller is DJI's latest long-range transmission technology OCUSYNCTM, providing a live HD view from the Phantom's camera directly on the display. Dual frequency support makes the HD video downlink more stable.



The default flight control is known as Mode 2. The left stick controls the aircraft's altitude and heading, while the right stick controls its forward, backward, left and right movements. The gimbal dial controls the camera's tilt.



<sup>\*</sup> The remote controller is able to reach its maximum transmission distance (FCC) in a wide open area with no Electro-Magnetic Interference, and at an altitude of about 400 feet (120 meters).

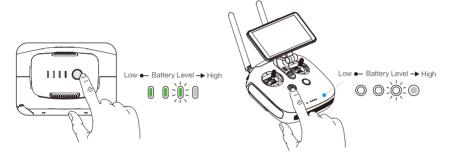
### 1. Watch the Tutorial Videos

Watch the tutorial videos at www.dji.com or in the DJI GO 4 app.



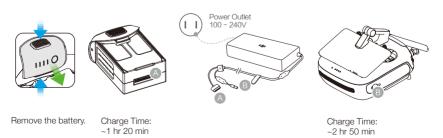
Tutorial Videos

# 2. Check the Battery Levels



Press once to check the battery level. Press once, then again and hold to turn on/off.

# 3. Charge the Batteries





# 4. Prepare the Remote Controller



# 5. Prepare for Takeoff



Remove the gimbal clamp from the camera.

Power on the remote controller and the aircraft.

Complete first-time setup in DJI GO 4 and tap GO FLY.



First-time activation requires your DJI account and internet connection.



Black propeller rings go on motors with black dots.



Silver propeller rings go on motors without black dots.



Press the propeller down onto the mounting plate and rotate in the lock direction by until secure.





 Check that the propellers are secure before each flight.

## 6. Flight

### Ready to Go (GPS)

Before taking off, make sure the Aircraft Status Bar in the DJI GO 4 app indicates 'Ready to Go (GPS)' or 'Ready to Go (Vision)' if flying indoors.

#### In the DJI GO 4 App:



#### Auto Takeoff

The aircraft will take off and hover at an altitude of 4 feet (1.2 meters).



#### Auto Landing

The aircraft will land vertically and stop its motors.



#### Return-to-Home (RTH)

Bring the aircraft back to the Home Point. Tap again to stop the procedure.



#### Normal

You are in control of the Phantom, with satellite and Return-to-Home support.



#### TapFly

Tap on your screen to fly your Phantom in that direction, avoiding obstacles as it flies.



#### ActiveTrack

Mark an object on your screen to track it as it moves.



- Watch the tutorial in the DJI GO 4 app or on the official DJI website to learn more.
- Always set an appropriate RTH altitude before takeoff. When the aircraft is returning to the Home Point, you should
  quide it with the control sticks. Refer to the Disclaimer and Safety Guidelines for more details.

#### Manual Takeoff













# Combination Stick Command to start/stop the motors

Left stick up (slowly) to take off



Manual Landing

Left stick down (slowly) until you touch the ground

Hold a few seconds to stop the motors



- Rotating propellers can be dangerous. Do not start the motors when there are people nearby.
- Always keep your hands on the remote controller so long as the motor is still spinning.
- Stop motor mid-flight: Pull the left stick to the bottom inside corner while simultaneously pressing the RTH button. Only stop motors mid-flight in emergency situations when doing so can reduce the risk of damage or injury. Refer to the user manual for details.



Stop motor mid-flight



It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Disclaimer and Safety Guidelines.



289.5 mm

## **Specifications**

Aircraft

Weight (Battery & Propellers Included) 1375 g

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

Ones GNSS GPS+GLONASS
Operating Frequency 2.400 - 2.483 GHz and 5.725 - 5.850 GHz

Transmitter Power (EIRP) 2.4 GHz: <26 dBm (FCC); <20 dBm (CE); <20 dBm (SRRC) 5.8 GHz: <26 dBm (FCC); <14 dBm (CE); <26 dBm (SRRC)

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)

Gimba

Controllable Range Pitch: -90° to +30°

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)

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

Infrared Sensing System

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

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

• Camera

Sensor 1" CMOS; Effective pixels: 20M
Lens FOV (Field of View) 84°, 8.8 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 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

Still Photography Modes Single 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 H.264

•HD: 1280×720 24/25/30/48/50/60/120p Video Storage Bitrate 100 Mbps

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

 Photo
 JPEG, RAW (DNG), JPEG + RAW

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

Supported SD Cards Micro SD, Max Capacity: 128 GB. Class 10 or UHS-1 rating required

Operating Temperature 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 2.4 GHz: 4.3 mi (7 km, FCC); 2.5 mi (4 km, CE); 2.5 mi (4 km, SRRC)

5.8 GHz: 4.3 mi (7 km, FCC); 1.2 mi (2 km, CE); 3.1 mi (5 km, SRRC) (Unobstructed, free of interference)

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

Battery 6000 mAh LiPo 2S

Transmitter Power (EIRP) 2.4 GHz: <26 dBm (FCC); <20 dBm (CE); <20 dBm (SRRC) 5.8 GHz: <26 dBm (FCC); <14 dBm (CE); <20 dBm (SRRC)

Operating Voltage 1.2 A @ 7.4 V

Built-in Display Device 5.5 inch scree

5.5 inch screen, 1920×1080, 1000 cd/m<sup>2</sup> Android system, 4G RAM+16G ROM

Rated Power 100 W
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 41° to 104° F (5° to 40° C)

Max Charging Power 100 W











•HD: 1280×720 24/25/30/48/50/60/120p

DJI incorporates HDMI<sup>™</sup> technology.

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