Quick Start Guide

V1.0
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**Quick Start Guide**

**V1.0**

**Phantom 4 Pro**

The DJI PHANTOM™ 4 Pro is a smart prosumer flying camera capable of shooting 4K video at 60fps and at up to 100mbps, and capturing 20 megapixel stills. 4 directions of obstacle avoidance allow it to intelligently avoid obstacles during flight. Using upgraded 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 brand new camera uses a 1-inch CMOS sensor offering unprecedented clarity, lower noise, and better quality images.

**Remote Controller**

The powerful remote controller of the Phantom 4 Pro 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 LIGHTBRID™, which when paired with a compatible mobile device gives you a live HD view from the Phantom's camera. Dual frequency support makes the HD video downlink more stable. An internal battery ensures a long battery life and ease of use.

1. Gimbal and Camera
2. Downward Vision System*
3. Micro USB Port
4. 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

* 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.

[http://www.dji.com/phantom-4-pro](http://www.dji.com/phantom-4-pro)
Remote Controller

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1. Power Button
2. Return-to-Home (RTH) Button
3. Control Sticks
4. Status LED
5. Battery Level LEDs
6. Power Port
7. Mobile Device Holder
8. Small Device Positioning Tabs
   (for mobile phones)
9. Antennas
10. Handle Bar
11. Gimbal Dial
12. Camera Settings Dial
13. Record Button
14. Flight Mode Switch
15. Shutter Button
16. Intelligent Flight Pause Button
17. C1 and C2 Buttons
   (customizable)
18. USB Port
19. Micro USB Port

Folded

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.

* 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).
Using Phantom 4 Pro

1. Download the DJI GO 4 App
   Search for ‘DJI GO 4’ on the App Store or Google Play, and install the app on your mobile device.

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

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

4. Charge the Batteries
   Remove the battery.
   Charge Time:
   - ~1 hr 20 min
   Charge Time:
   - ~3 hr 40 min

   * When charging is complete, the battery level indicators will automatically turn off.

   ● DJI GO 4 supports iOS 9.0 (or later) or Android 4.4 (or later).
5. Prepare the Remote Controller

Unfold

Press the button to release the clamp.

Place your mobile device and adjust the clamp to secure.

Connect your mobile device with a USB cable.

6. Prepare for Takeoff

Remove the gimbal clamp from the camera.

Power on the remote controller and the aircraft.

Launch DJI GO 4, complete the first-time setup, and tap GO FLY.

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

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

Silver propeller rings go on motors without black dots.

Black propeller rings go on motors with black dots.

- Check that the propellers are secure before each flight.
7. 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.

- **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

- **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.

- **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.**
Specifications

- **Aircraft**
  - Weight (Battery & Propellers Included): 1388 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); 36 mph (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)
  - 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**
  - Controllable Range: Pitch: -90° to +30°
  - 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)

- **Vision System**
  - Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground
  - Altitude 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
  - Still Photography Modes: Burst Shooting: 3/5/7/10/14 frames
  - Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7EV Bias
  - Video Recording Modes: 32° to 104° F (0° to 40° C)
  - Interval: 2/3/5/7/10/15/30/60 s
  - 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 - 5.825 GHz
  - Max Transmission Distance: FCC: 4.3 mi (7 km); CE: 2.2 mi (3.5 km); 3.1 mi (5 km)
  - Unobstructed, free of interference
  - Operating Temperature: 32° - 104° F (0° - 40° C)
  - Battery: 6000 mAh LiPo 2S
  - Transmitter Power (ERP): 2.4 GHz: 26 dBm (FCC); 17 dBm (CE); 20 dBm (SRRC)
  - 5.8 GHz: 28 dBm (FCC); 14 dBm (CE); 20 dBm (SRRC)
  - Operating Voltage: 1.2 A @ 7.4 V

- **Charger**
  - Voltage: 17.4 V
  - 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

Download the user manual for more information:
http://www.dji.com/phantom-4-pro

※ This Quick Start Guide is subject to change without prior notice.