Quick Start Guide

V1.2
Phantom 3 Professional

It’s time to meet your Phantom 3 Professional.

The Phantom 3 Professional’s camera records video at up to 4K and captures 12 megapixel photos.

Review the diagram below for a full list of your Phantom 3 Professional's parts:

1. Gimbal and Camera  
2. Vision Positioning System  
3. Camera Micro SD Card Slot  
4. Aircraft Micro USB Port  
5. Camera Status Indicator  
6. Front LEDs  
7. Motors  
8. Propellers  
9. Aircraft Status Indicators  
10. Antennas  
11. Intelligent Flight Battery  
12. Power Button  
13. Battery Level Indicators  
14. Link Button  
15. Camera Micro USB Port
Remote Controller

This powerful Remote Controller allows you to pilot and maneuver your Phantom 3 Professional at distances over 16,400 feet (5 km)* away, while putting selected camera controls at your fingertips.

Built into your Remote Controller is a rechargeable LiPo battery and DJI Lightbridge, which when paired with a compatible mobile device gives you a live HD view from the Phantom’s camera.

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 (such as mobile phone)
9. Antennas
10. Handle Bar
11. Gimbal Dial
12. Camera Settings Dial
13. Video Recording Button
14. Flight Mode Switch
15. Shutter Button
16. Playback Button
17. C1/C2 Buttons (Customizable)
18. USB Port
19. Micro USB Port

* This maximum transmission distance was tested in a lab environment and is for reference only. The maximum operating distance may vary depending on conditions in your immediate surroundings.
Fly Safe

DJI encourages you to enjoy flying your Phantom 3 Professional in a safe, responsible, and smart way. To do this, it is important to understand some basic flight guidelines, both for your protection and for the safety of those around you.

1. **Fly in Open Areas:** Always fly in locations that are free and clear of buildings, trees, power lines, and other obstacles. Do not fly above or near people or animals.

2. **Maintain Control at All Times:** Even when using DJI autopilot functions such as Auto-Takeoff, Auto-Landing, and Auto-Return to Home, always keep your hands on the Remote Controller and maintain control of your aircraft when it is in flight.

3. **Maintain Line of Sight:** Keep your aircraft in sight at all times, and avoid flying behind buildings or other obstacles that may block your view.

4. **Monitor Your Altitude:** For the safety of full-sized aircraft and other air traffic, always fly at altitudes less than 400 feet (120 meters) above ground level, or in line with your local laws and regulations.

Visit [http://flysafe.dji.com/no-fly](http://flysafe.dji.com/no-fly) for more information on critical safety features such as No-Fly Zones.

- **Calibrating the Compass:**
  - Only calibrate the compass when the DJI GO app or the status indicator prompt you to do so. Observe the following rules when calibrating your compass:
    1. **Do NOT** calibrate your compass where there is a chance of strong magnetic interference, such as magnetite, parking structures, and steel reinforcements underground.
    2. **Do NOT** carry ferromagnetic materials with you during calibration such as cellular phones.
    3. The DJI GO app will prompt you to resolve the compass issue if the compass is affected by strong interference after calibration is complete. Follow the prompted instructions to resolve the compass issue.

- **Environmental Considerations:**
  1. Do not fly in severe weather conditions. This includes high winds (speeds of 22 mph or 10 m/s or more), snow, rain, and fog.
  2. Only fly in open areas. Tall buildings and steel structures may affect the accuracy of the on-board compass and GPS signal.
  3. Avoid obstacles, crowds, high-voltage power lines, trees, and bodies of water.
  4. Minimize electromagnetic interference by avoiding areas with high levels of electromagnetism, including mobile phone base stations, radio transmission towers, or Wi-Fi hotspots.
  5. Aircraft and battery performance are subject to environmental factors such as air density and temperature. Be very careful when flying 19,600 feet (6 km) or more above sea level, as battery and aircraft performance may not be at peak efficiency.
  6. The Phantom 3 Professional cannot operate in P Mode or use GPS at polar latitudes. Only ATTI Mode and the Vision Positioning system will be operational.

- **P Mode:**
  - In this mode, the Phantom 3 Professional can use GPS and the Vision Positioning system, allowing it to hover accurately in position indoors and out. When GPS is available, a Home Point will be locked so that the Phantom 3 Professional can Return to Home if the Remote Controller signal is lost.

  To enable P Mode, toggle the Flight Mode Switch to the P position.

  There are three states in P mode:
  - **P-GPS:** GPS works best when outdoors and in a wide open area. Your Phantom 3 Professional uses GPS to hover in place when there is a strong GPS signal.
  - **P-OPTI:** If GPS is not available, the aircraft can use the Vision Positioning system to hover accurately.
  - **P-ATTI:** Neither GPS nor the Vision Positioning system are available. The aircraft will only use its barometer for altitude and other on-board sensors for attitude stabilization. Note that the Vision Positioning system may not work properly when the Phantom 3 Professional is flying over water, over surfaces without a clear pattern, or in a low-light environment.

- **Return to Home:**
  - When there is a strong GPS signal, the aircraft will be able to record a Home Point and return to that Home Point when required. The Home Point location is recorded when the GPS signal icon in the DJI GO app is either yellow or green.
  - The aircraft will return to the Home Point automatically in the following scenarios (all require a strong GPS signal):
    - **Smart RTH:** When the RTH button on the Remote Controller or in the DJI GO app is pressed.
    - **Low-Battery RTH:** A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
    - **FailSafe RTH:** When the Remote Controller’s signal is lost.

  While returning to the Home Point, the aircraft’s altitude can be adjusted to avoid obstacles. Tall buildings may affect the Remote Controller’s signal. The FailSafe Return to Home procedure will be triggered if the signal is lost. Be sure to fly higher than any nearby buildings to avoid crashing.
Appendix

- **Aircraft**
  - Weight (Including Battery): 1280 g
  - Max Ascent Speed: 5 m/s
  - Max Descent Speed: 3 m/s
  - Max Speed: 16 m/s (ATTI mode, no wind)
  - Max Service Ceiling Above Sea Level: 19685 feet (6000 m)
  - Max Flight Time: Approximately 23 minutes
  - Operating Temperature Range: 0°C to 40°C
  - GPS: GPS/GLONASS

- **Gimbal**
  - Controllable Range: Pitch: −90° to +30°

- **Vision Positioning**
  - Velocity Range: <8 m/s (Altitude 2 m)
  - Altitude Range: 30 cm-300 cm
  - Operating Range: 30 cm-300 cm
  - Operating Environment: Surface with clear pattern and adequate lighting (Lux > 15)

- **Camera**
  - Sensor: Sony EXMOR 1/2.3” Effective pixels: 12.4 M (total pixels: 12.76 M)
  - Lens: FOV (Field Of View) 94° 20 mm (35 mm format equivalent) f/2.8
  - ISO Range: 100-3200 (video) 100-1600 (photo)
  - Electronic Shutter Speed: 8 s-1/8000 s
  - Image Max Size: 4000x3000
  - Still Photography Modes: Single shot, Burst shooting: 3/5/7 frames
  - Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7EV Bias

- **Remote Controller**
  - Operating Frequency: 2.400 GHz-2.483 GHz
  - Max Transmission Distance: FCC Compliant: 16,400 feet (5 km); CE Compliant: 11.483 feet (3.5 km)
    (unobstructed, free of interference)
  - Video Output Port: USB
  - Operating Temperature Range: 0°C to 40°C
  - Battery: 6000 mAh LiPo 2S
  - Mobile Device Holder: Tablets and smartphones
  - Transmitter Power (EIRP): FCC: 20 dbm; CE: 16 dbm
  - Working Voltage: 1.2 A @7.4 V

- **Charger**
  - Voltage: 17.4 V
  - Rated Power: 100 W

- **Intelligent Flight Battery (PH3-4480 mAh-15.2 V)**
  - Capacity: 4480 mAh
  - Voltage: 15.2 V
  - Battery Type: LiPo 4S
  - Energy: 68 Wh
  - Net Weight: 365 g
  - Operating Temperature: -10°C to 40°C
  - Max Charging Power: 100 W

*This Quick Start Guide is subject to change without prior notice.*
Preparing Your Phantom 3 Professional Before Flying

Read the User Manual and watch the video tutorials in the DJI GO app or on the official DJI website (www.dji.com), and read the following documents included in the box before using your Phantom 3 Professional for the first time: Phantom 3 Professional Quick Start Guide, Phantom 3 Safety Guidelines and Disclaimer, Phantom 3 Intelligent Flight Battery Safety Guidelines, In the Box.

1. Download the DJI GO App

Search ‘DJI GO’ on the App Store or Google Play and download the DJI GO app to your mobile device.

2. Watch the Tutorial Videos

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

⚠️ For the best experience, use a mobile device that runs iOS 8.0 or above or Android 4.1.2 or above.

3. Check Battery Levels

Pressing the Power Button once on either your Intelligent Flight Battery or Remote Controller displays the battery level.

Be sure to fully charge both batteries before your first flight.

4. Charging the Batteries

- Only use the official DJI Phantom 3 Professional charger. Remove the Intelligent Flight Battery from the aircraft before charging.
- It is recommended that you turn off the Intelligent Flight Battery or Remote Controller before charging.
- Connect the charger to a suitable power source (100-240V 50/60Hz).
- Connect the charger to the Intelligent Flight Battery or Remote Controller. The LEDs will display the current charge level, and when fully charged, they will automatically turn off.
Preparing Your Phantom 3 Professional Before Flying

1. DJI GO App

- Download the app from the App Store or Google Play.
- If you already have it, open it and select "Camera" to begin.

2. Watch the Tutorial Videos

- Visit the tutorial videos on the DJI website:
  - For the best experience, use a mobile device that runs iOS 8.0 or above or Android 4.1.2 or above.

3. Check Battery Levels

- Press the Power Button once on either your Intelligent Flight Battery or Remote Controller to display the battery level.

4. Connect Your Devices

- Connect the charger to a suitable power source (100-240V 50/60Hz).
- Charging will take about 90-120 minutes.
- When fully charged, they will automatically turn off.

5. Preparing the Remote Controller

- Tilt the Mobile Device Holder to the desired position, and then adjust the antennas as shown. The strength of the Remote Controller's signal will fluctuate depending on the positions of the antennas.
- The transmission signal between the aircraft and Remote Controller will be strongest within the range illustrated here. If the signal is weak, adjust the positions of the antennas and fly the aircraft closer to achieve optimal signal performance.
- Press the button on the side of the Mobile Device Holder to release the clamp.
- Place your mobile device into the clamp and adjust it so that the mobile device is held securely in place.
- Connect your mobile device to the Remote Controller with a USB cable. Plug one end of the cable into your mobile device, and the other end into the USB port on the back of the Remote Controller.

6. Flight Controls

- Here are the default flight controls (Mode 2). The left stick controls altitude and rotation, while the right stick controls the forward, backward, left or right movements. The gimbal dial controls the camera's tilt.
- You can customize or change these controls through the DJI GO app.

7. IMPORTANT INSTRUCTIONS

- You cannot takeoff if the Intelligent Flight Battery is not sufficiently charged and the Critical Low Battery Warning is active.
- Never stop the motors mid-flight, otherwise the aircraft will crash. Only stop the motors when on the ground or as required in special situations.
- The aircraft will automatically takeoff and hover at 4 feet (1.2 meters).
- For the aircraft to takeoff, the Aircraft Status Bar in the DJI GO app must display an indication of 'Safe to Fly (GPS)' or 'Safe to fly (non-GPS)' if flying indoors. Before taking off, make sure the Aircraft Status Bar is display an indication of 'Safe to Fly (GPS)'.
- If you wish to record photos or videos, insert a Micro SD card into the Camera's Micro SD Card Slot.
Preparing Your Phantom 3 Professional Before Flying

1. Download the following documents included in the box before using your Phantom 3 Professional for the first time:

2. Watch the Tutorial Videos

3. Check Battery Levels

4. Charging the Batteries

5. Connect your mobile device to the Remote Controller with a USB cable. Plug one end of the cable into your mobile device, and the other end into the Remote Controller.

6. Place your mobile device into the clamp and adjust it so that the mobile device is held flat. Tilt the Mobile Device Holder to release the clamp.

7. Getting Ready for Takeoff

   Remove the gimbal clamp as shown on the right. Place your Phantom 3 Professional on a flat surface, in an open space, with the nose facing away from you. Then follow the steps below in this order:

   - Insert the Intelligent Flight Battery into your Phantom 3 Professional. Turn on the battery by pressing the power button once, releasing it, and then pressing and holding for 2 seconds.
   - Connect your mobile device to the Remote Controller with a USB cable and launch the DJI GO app. Follow the instructions within the app.
   - In the app, tap ‘Camera’. Ensure your Phantom 3 Professional is ready to fly by completing the on-screen Checklist. Beginner Mode is enabled by default when you launch the DJI GO app for the first time. The aircraft’s altitude and flight distance are restricted when flying in Beginner Mode. You can disable Beginner Mode in the Settings Page of the DJI GO app.
   - Press the button on the side of the Mobile Device Holder to release the clamp.
   - Toggle the Flight Mode Switch on your Remote Controller to the right (P Mode). P Mode is Positioning Mode, A Mode is ATTI Mode, and F Mode is Function Mode.
   - Connect your mobile device to the Remote Controller with a USB cable and launch the DJI GO app. Follow the instructions within the app.
   - In the app, tap ‘Camera’. Ensure your Phantom 3 Professional is ready to fly by completing the on-screen Checklist. Beginner Mode is enabled by default when you launch the DJI GO app for the first time. The aircraft’s altitude and flight distance are restricted when flying in Beginner Mode. You can disable Beginner Mode in the Settings Page of the DJI GO app.
   - Attach the propellers with a black nut onto the motors with black dot and spin them clockwise to secure. Attach the propellers with a grey nut onto the motors without black dot and spin them clockwise to secure.

   - Tighten the propellers with both hands before each flight.
   - If you wish to record photos or videos, insert a Micro SD card into the Camera’s Micro SD Card Slot.
   - The Flight Mode Switch is locked in P Mode by default. Refer to the User Manual to learn how to unlock the switch and change to other modes.
   - When not in P mode, the Phantom 3 Professional will only maintain altitude, not position, and will drift with wind or user input. Return to Home is not available in F mode.

8. Flight

   Safe to Fly (GPS)

   Before taking off, make sure the Aircraft Status Bar in the DJI GO app indicates ‘Safe to Fly (GPS)’ or ‘Safe to fly (non-GPS)’ if flying indoors.

   ● Auto Takeoff and Landing:

   Your Phantom 3 Professional can automatically takeoff and land at the tap of a button in the Camera screen of the DJI GO app.

   Tap and slide to confirm automatic takeoff. The aircraft will automatically takeoff and hover at 4 feet (1.2 meters).

   Tap and slide to confirm automatic landing. The aircraft will automatically land.
Preparing Your Phantom 3 Professional Before Flying

1. Download the DJI GO app to your mobile device. Search 'DJI GO' on the App Store or Google Play and download the DJI GO app.

2. Watch the Tutorial Videos
   - Visit Phantom 3 tutorial videos at http://www.dji.com/phantom3
   - View the Phantom 3 tutorial videos in the app.

3. Check Battery Levels
   - For the best experience, use a mobile device that runs iOS 8.0 or above or Android 4.1.2 or above.
   - To check your battery level, tap on the battery icon in the DJI GO app.
   - Press the Power Button once on either your Intelligent Flight Battery or Remote Controller displays the battery level. Both batteries will be fully charged for first-time use.

4. Preparing the Remote Controller
   - Connect your mobile device to the Remote Controller using a USB cable.
   - Tilt the Mobile Device Holder to the desired position, and then adjust the antennas as shown. The strength of the transmission signal will vary with the range illustrated here. If the signal is weak, adjust the antennas to strengthen the signal.

5. Preparing the Remote Controller
   - The transmission signal between the aircraft and Remote Controller will be strongest within the range of the antennas.
   - The distance between the aircraft and Remote Controller is directly related to the transmission signal.

6. Flight Controls
   - The Flight Mode Switch is locked in P Mode by default. Refer to the User Manual to learn how to unlock the switch and change to other modes.
   - When not in P mode, the Phantom 3 Professional will only maintain altitude, not position, and will drift with wind or user input.
   - Press and slide the Flight Mode Switch on your Remote Controller with a USB cable. Plug one end of the USB cable into the USB port on the back of the controller, and the other end into the USB port on the bottom of the mobile device.

7. Getting Ready for Takeoff
   - Remove the gimbal clamp as shown on the product box.
   - Usually, the gimbal is facing away from you. Then follow the steps below in this order:
     1. Press the button on the side of the Mobile Device Holder until the LED surrounding the button starts blinking white and starts beeping. Your Phantom 3 Professional will return to the set Home Point. Press the button once to stop the procedure.
     2. The DJI GO app will warn you if your Phantom 3 Professional's battery level falls under a critical level. This warning threshold can be set in the app. The aircraft will land immediately if the battery power reaches a critical level and the Critical Low Battery Level Warning appears.
     3. Failsafe: The Phantom 3 Professional will enter Return to Home Mode if the signal to the Remote Controller is lost.
   - The app’s RTH Button:
     - B—B—... Aircraft Low Battery Level Warning or Remote Controller error.
     - B—B—... Remote Controller has been idle for 5 minutes.
   - The button on the Remote Controller until the LED surrounding the button is green.
   - The aircraft will automatically takeoff and hover at 4 feet (1.2 meters).

   - Tap and slide to confirm automatic takeoff.
   - The black dot indicates ‘Safe to Fly (GPS)’ or ‘Safe to fly (non-GPS)’ if flying indoors.

   - Manual Takeoff and Landing (Stick configurations are for MODE 2):
     - To land, gently pull the left stick (throttle stick) down to lower the aircraft until it touches the ground. Then pull both sticks to the bottom inside corners to stop the motors.
     - Start the motors by pulling both control sticks to the bottom inside (or outside) corners. Release the sticks once the motors start. Slowly push the left stick (throttle stick) up to takeoff.

   - Aircraft Status Indicators
     - Solid: Critical error
     - Quickly: Critical Low Battery Level Warning
     - Slowly: Low Battery Level Warning
     - Quickly: Not connected to the Remote Controller
     - Slowly: P-ATTI or ATTI Mode
     - x2 Continuously: Vision Positioning system working, no GPS
     - B—B—... Aircraft Low Battery Level Warning or Remote Controller error.
     - Blinking Alternately: Compass calibration required

   - Remote Controller Status LED
     - Remote Controller is functioning normally but is not connected to the aircraft.
     - Remote Controller is functioning normally and is connected to the aircraft.

   - Camera Controls
     - Adjust the camera parameters using the Camera Settings Dial on the Remote Controller or through the DJI GO app. Press the Shutter Button or Video Recording Button to capture photos or record videos.
     - Adjust the gimbal’s tilt using the Gimbal Dial.
     - Download photos and videos from the Micro SD card to your mobile device through the DJI GO app. You can also use a SD-card reader to export files to your computer.

For more information:
http://www.dji.com/phantom3
Preparing Your Phantom 3 Professional Before Flying

**DJI GO App**

1. Download the DJI GO app to your mobile device.
   - Search ‘DJI GO’ on the App Store or Google Play and install the app.
2. Be sure to fully charge both batteries before your first flight.
   - Connect the charger to a suitable power source (100-240V 50/60Hz).
   - Only use the official DJI Phantom 3 Professional charger. Remove the Intelligent Flight Battery from the aircraft before charging.

**Flight Battery**

- **High**
  - When fully charged, they will automatically turn off.
- **Low**
  - The transmission signal between the aircraft and the Remote Controller.

**Flight Controls**

- **Left Stick**: Controls altitude and rotation.
- **Right Stick**: Controls the flight direction.

**Flight Mode Switch**

- **Toggle the Flight Mode Switch on your Remote Controller to switch**
  - **Auto Mode**
  - **Safe to Fly (GPS)**
  - **Manual Mode**

**Auto Takeoff**

- **Tap and slide to confirm automatic takeoff.**

**Auto Landing**

- **Tap and slide to confirm automatic landing.**

**Remote Controller Status LED**

- **B-B-B...**
  - **Remote Controller has been disconnected**
  - **Remote Controller is functioning normally,**
  - **or Remote Controller error.**
  - **B—B—...**
  - **Remote Controller is functioning normally,**
  - **and is connected to the aircraft.**
  - **X**
  - **Quickly: Not connected**

**Aircraft Status Indicators**

- **Power off your Phantom 3 Professional** before switching off the Remote Controller after landing.
- **You cannot takeoff if the Intelligent Flight Battery is not sufficiently charged and the Critical Low Battery Warning is active.**
- **Once spinning, the rotating propellers can be dangerous.** Do not start the motors when there are people nearby and always fly in a wide-open area.

**System Working, No GPS**

- **Compass calibration required**

**Return to Home**

- **While returning home, you can still control your Phantom 3 Professional’s altitude to avoid any obstacles.**

**Failsafe**

- **The Phantom 3 Professional’s Flight Control System will start the motors and bring the aircraft to a Controlled Landing Position if**
  - **the battery power reaches a critical warning threshold can be set in the app.** The aircraft will land immediately if the battery power reaches a critical warning threshold. A failsafe can be set in the app.

**Video Recording**

- **Video Recording Button** to capture and save your flight footage.
- **Adjust the camera parameters using the Camera Settings Dial on the Remote Controller or through the DJI GO app.**
- **Adjust the gimbal’s tilt using the Tilt Lever.**
- **Adjust the camera’s angle using the Camera’s Side Adjustment Lever.**

**Photo Recording**

- **Insert the Micro SD card** into the Camera’s Micro SD Card Slot.
- **To export files to your computer,**
  - **connect the Micro SD card to your mobile device through the USB cable** and launch the DJI GO app.
  - **Follow the instructions within the app.**

**Emergency Situations**

- **Stop the motors** and fly away from obstacles.

**Flight Time**

- **Average flight time** is approximately 25 minutes.

**Important Notes**

- **Attach the propellers with a grey nut onto the motors black dot and spin them counter-clockwise to secure.**
- **Checklist. Beginner Mode is enabled by default when you turn on the battery by pressing the power button.**
- **Turn on the Remote Controller by pressing the power button.**
- **Toggle the Flight Mode Switch on your Remote Controller to switch**
  - **Auto Mode**
  - **Safe to Fly (GPS)**
  - **Manual Mode**

**Notes**

- **Firmware Update**: Check for firmware updates in the DJI GO app.
- **Support**: Visit the official DJI website (www.dji.com) for support and FAQs.

**Appendix**

- **Appendix A: Flight Controls**
- **Appendix B: Flight Settings**
- **Appendix C: Troubleshooting**
- **Appendix D: Legal Information**

**www.dji.com**