It's time to meet your Phantom.

Phantom 3 Advanced Remote Controller

Fly Safe Appendix

For the safety of full-sized aircraft and other air traffic, always fly at altitudes less than 400 feet (120 meters above ground level). Maintain Control at All Times:

- Always fly in locations that are free and clear of buildings, trees, power lines, and other obstacles. Do not fly above buildings to avoid crashing.
- 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.
- Calibrating the Compass:
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

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.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

Smart RTH:

- Calibrating the Compass:
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

P-OPTI:

- Calibrating the Compass:
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

P Mode:

- Calibrating the Compass:
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

5. The DJI GO app will prompt you to resolve the compass issue if the compass is affected by strong interference after calibration is required. The Home Point location is recorded when the GPS signal icon in the DJI GO app is either yellow or green.

6. Monitor Your Altitude:

- Operation is subject to the following two conditions:
  - This device must accept any interference received, including interference that may cause undesired operation.
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

7. Maintain Control at All Times:

- Operation is subject to the following two conditions:
  - This device must accept any interference received, including interference that may cause undesired operation.
  - A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
  - The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

8. Always fly in locations that are free and clear of buildings, trees, power lines, and other obstacles. Do not fly above buildings to avoid crashing.

9. Calibrating the Compass:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

10. 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.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

11. Smart 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.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

12. P-OPTI:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

13. P Mode:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

14. Monitor Your Altitude:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

15. Maintain Control at All Times:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

16. 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.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

17. Smart 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.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

18. P-OPTI:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

19. P Mode:

- A notification will appear in the DJI GO app requesting the pilot to take action when the battery level falls under a certain level.
- The aircraft will only use its barometer for altitude and other on-board systems to hover accurately.

PHANTOM 3 ADVANCED

Quick Start Guide V1.2
Phantom 3 Advanced

It’s time to meet your Phantom.

The Phantom 3 Advanced’s camera records video at up to 1080p/60fps and captures 12 megapixel photos.

Review the diagram below for a full list of your Phantom 3 Advanced’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 Advanced 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.

*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 Advanced 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 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 Advanced 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 Advanced 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 Advanced 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 Advanced 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 altitude stabilization.

Note that the Vision Positioning system may not work properly when the Phantom 3 Advanced 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**
- Video Recording Modes: UHD: 2.7K (2704x1520) 24/25/30p
- Max Bitrate of Video Storage: 40 Mbps
- Supported File Systems: FAT32 (< 32 GB) ; exFAT (> 32 GB)
- Photo: JPEG, DNG (RAW)
- Video: MP4/MOV (MPEG-4 AVC/H.264)
- Supported SD Card Types: Micro SD, Max capacity: 64GB. Class 10 or UHS-1 rating required
- Operating Temperature Range: 0°C to 40°C

**Charger**
- Voltage: 17.4 V
- Rated Power: 57 W

**Intelligent Flight Battery**
- 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 Advanced 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 Advanced for the first time: Phantom 3 Advanced 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.

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 Advanced 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.
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.

1. Press the button on the side of the Mobile Device Holder to release the clamp.
2. Place your mobile device into the clamp and adjust it so that the mobile device is held securely in place.
3. 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.

• To avoid signal interference, do not use other 2.4GHz devices when flying.

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. Getting Ready for Takeoff

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

1. Press and hold the Return to Home Button on your Remote Controller until the LED surrounding the button starts blinking white and starts beeping. Your Phantom 3 Advanced will return to the set Home Point. Press the RTH Button on the Remote Controller until the LED surrounding the button continues to blink.

2. 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.

3. Turn on the Remote Controller by pressing the power button once, releasing it, and then pressing and holding for 2 seconds.

4. Insert the Intelligent Flight Battery into your Phantom 3 Advanced. Turn on the battery by pressing the power button once, releasing it, and then pressing and holding for 2 seconds.

5. Connect your mobile device to the Remote Controller with a USB cable and launch the DJI GO app. Follow the instructions within the app.

6. In the app, tap ‘Camera’. Ensure your Phantom 3 Advanced 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.

7. Attach the propellers with a black nut onto the motors with black dot and spin them counter-clockwise to secure. Attach the propellers with a grey nut onto the motors without black dot and spin them clockwise to secure.

8. Flight

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 Advanced can automatically takeoff and land at the tap of a button in the Camera screen of the DJI GO app.

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

  - **Landing:**
    - Tap and slide to confirm automatic landing. The aircraft will automatically land.
Preparing Your Phantom 3 Advanced Before Flying

DJI GO App

Flight Battery

1. Connect the charger to the Intelligent Flight Battery or Remote Controller. The LEDs will display the current charge level.
2. Connect the charger to a suitable power source (100-240V 50/60Hz).
   - It is recommended that you turn off the Intelligent Flight Battery or Remote Controller before charging.
3. Download the DJI GO app to your mobile device. Search ‘DJI GO’ on the App Store or Google Play and install the app.
4. For the best experience, use a mobile device that runs iOS 8.0 or above or Android 4.1.2 or above.

Remote Controller

1. Attach the propellers with a grey nut onto the motors black dot and spin them clockwise to secure.
2. Attach the propellers with a black nut onto the motors black dot and spin them counter-clockwise to secure.

- Never stop the motors mid-flight, otherwise the aircraft will crash. Only stop the motors when on the ground or as required in emergency situations to reduce the risk of damage or injury.
- You cannot takeoff if the Intelligent Flight Battery is not sufficiently charged and the Critical Low Battery Warning is active.
- The Intelligent Flight Battery must warm up if the outside temperature is low. A warning will appear in the DJI GO app in this scenario.
- 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.
- Power off your Phantom 3 Advanced before switching off the Remote Controller after landing.

Flight Controls

- 1. Press and hold the Return to Home Button on your Remote Controller until the LED surrounding the button starts blinking white and starts beeping. Your Phantom 3 Advanced 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 Advanced’s battery level falls under a certain 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 Advanced will enter Return to Home Mode if the signal to the Remote Controller is lost.
   - While returning home, you can still control your Phantom 3 Advanced’s altitude to avoid any obstacles.

Appendix

Aircraft Status Indicators

- ☀ Slowly: Safe to fly, GPS working
- ✕2 Continuously: Vision Positioning system working, no GPS
- ✕ Slowly: P-ATTI or ATTI Mode
- ⏪ Quickly: Not connected to the Remote Controller
- ✕ Slowly: Low Battery Level Warning
- ⏪ Quickly: Critical Low Battery Level Warning
- ⏪ Solid: Critical 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.
- ✕ B-B-B... Aircraft Low Battery Level Warning or Remote Controller error.
- ✐ B—B—... Remote Controller has been idle for 5 minutes.

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/product/phantom-3-adv

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Preparing Your Phantom 3 Advanced Before Flying

1. Insert the Intelligent Flight Battery into your Phantom 3 Advanced. Turn on the battery by pressing the power button once.

2. 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.

3. Check Battery Levels
   - Connect the charger to the Intelligent Flight Battery or Remote Controller. The LEDs will display the current charge level.

4. Check Signal Strength:
   - It is recommended that you turn off the Intelligent Flight Battery or Remote Controller before charging.
   - For the best experience, use a mobile device that runs iOS 8.0 or above or Android 4.1.2 or above.

5. Preparing the Remote Controller
   - Download the DJI GO app to your mobile device.
   - Search 'DJI GO' on the App Store or Google Play and download the app.
   - Connect your smartphone to the app.
   - Connect 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
   - In the app, tap 'Camera'. Ensure your Phantom 3 Advanced is securely in place.
   - 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.
   - Toggle the Flight Mode Switch on your Remote Controller to the right (P Mode). P Mode is Positioning Mode, A Mode is Atti Mode, A2 Mode is Attitude Mode, and F Mode is Function Mode.

7. Flying
   - Before starting the motors, ensure that there is a minimum 10-meter distance to avoid signal interference.
   - To avoid signal interference, do not use other 2.4GHz devices when flying.
   - Slowly push the left stick (Throttle Stick) up to hover at 4 feet (1.2 meters).
   - In the app, tap 'Camera'. Ensure your Phantom 3 Advanced is securely in place.
   - Tap and slide to confirm automatic takeoff.
   - Tap and slide to confirm automatic landing.

8. Flight Checklist
   - Tap and slide to confirm automatic takeoff.
   - Tap and slide to confirm automatic landing.
   - In an open space, with the nose facing away from you. Then follow the steps below in this order:
     - Place your Phantom 3 Advanced on a flat surface, remove the gimbal clamp as shown on the right.
     - Connect the Remote Controller until the LED surrounding the button X is fully lit. Quickly: Not connected, Slowly: P-ATTI or ATTI Mode.
     - Inside the DJI GO app, ensure the app's RTH Button is functioning normally, but is not connected to the aircraft.
     - The Intelligent Flight Battery must warm up if the outside temperature is low. A warning will appear in the DJI GO app in this scenario.
     - 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.
     - Never stop the motors mid-flight, otherwise the aircraft will crash. Only stop the motors when on the ground or as required in emergency situations to reduce the risk of damage or injury.
     - After takeoff, switch to Safe Mode if flying indoors.
     - 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.

9. Downloading and Exporting Files
   - Follow the instructions within the app.
   - The app's RTH Button will appear when the aircraft is safe to fly.
   - The app's RTH Button will appear when the aircraft is safe to fly.
   - The app's RTH Button will appear when the aircraft is safe to fly.
   - In critical situations, you can change the mode to ATTI Mode or F Mode in the Settings Page of the DJI GO app.

10. Failsafe
    - The Phantom 3 Advanced will enter Return to Home (RTH) mode. You can stop the procedure by tapping the button once.
    - In the app, tap 'Camera'. Ensure your Phantom 3 Advanced is securely in place.
    - In critical situations, you can change the mode to ATTI Mode or F Mode in the Settings Page of the DJI GO app.

11. System Error Indication
    - The DJI GO app indicates 'Safe to Fly (GPS)' or 'Safe to fly (non-GPS)' if flying indoors.
    - In critical situations, you can change the mode to ATTI Mode or F Mode in the Settings Page of the DJI GO app.

12. Appendices
    - In critical situations, you can change the mode to ATTI Mode or F Mode in the Settings Page of the DJI GO app.
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For more information: