

Battery Life				
LED1	LED2	LED3	LED4	Battery Life
				90%~100%
				80%~90%
				70%~80%
				60%~70%
				50%~60%
				40%~50%
				30%~40%
				20%~30%
				below 20%

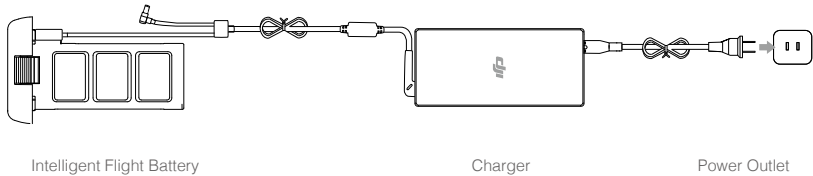
When battery life reaches 0%, it can no longer be used.

For more information about the battery, launch DJI Pilot app and check the information under the battery tab.

Charging the Intelligent Flight Battery

- 1. Connect Battery Charger to a power source (100-240 V 50/60 Hz).
- 2. Open the Protection Cap and connect the Intelligent Flight Battery to the Battery Charger. If the battery level is above 95%, turn on the battery before charging.
- 3. The Battery Level Indicator will display the current battery level during charging.
- 4. The Intelligent Flight Battery is fully charged when Battery Level Indicators are all off.
- 5. Air cool the Intelligent Flight Battery after each flight. Allow its temperature to drop to room temperature before storing it for an extended period.

• Always turn off the battery before inserting it or removing it from the Phantom 3 Professional. Never insert or remove a battery when it is powered on.



Battery Level Indicators while Charging

LED1	LED2	LED3	LED4	Battery Level
				0%~25%
				25%~50%
				50%~75%
				75%~100%
				Fully Charged

Charging Protection LED Display

The table below shows battery protection mechanisms and corresponding LED patterns.

Battery Level Indicators while Charging

LED1	LED2	LED3	LED4	Blinking Pattern	Battery Protection Item
				LED2 blinks twice per second	Over current detected
				LED2 blinks three times per second	Short circuit detected
				LED3 blinks twice per second	Over charge detected
				LED3 blinks three times per second	Over-voltage charger detected
				LED4 blinks twice per second	Charging temperature is too low
				LED4 blinks three times per second	Charging temperature is too high

After any of the above mentioned protection issues are resolved, press the button to turn off the Battery Level Indicator. Unplug the Intelligent Flight Battery from the charger and plug it back in to resume charging. Note that you do not need to unplug and plug the charger in the event of a room temperature error, the charger will resume charging when the temperature falls within the normal range.



- DJI does not take any responsibility for damage caused by third-party chargers.



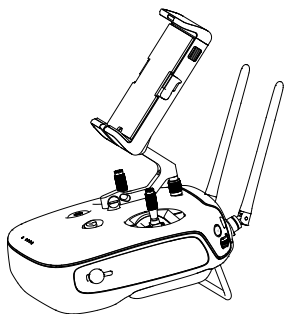
How to discharge your Intelligent Flight Battery:

Slow : Place the Intelligent Flight Battery into the Phantom 3 Professional's Battery Compartment and power it on. Leave it on until there is less than 8% of power left, or until the battery can no longer be turned on. Launch the DJI Pilot app to check battery levels.

Rapid : Fly the Phantom 3 Professional outdoors until there is less than 8% of power left, or until the battery can no longer be turned on.

Remote Controllers

This chapter describes the features of the remote controller that includes, how to operate the aircraft and camera.



Remote Control

Remote Controller Profile

The Phantom 3 Professional remote control is a multi-function wireless communication device that integrates the video downlink ground system and aircraft remote control system. The video downlink and aircraft remote control system operate at 2.4 GHz. The remote controller features a number of camera functions, such as taking and previewing photos and video, and controlling gimbal motions. The remote controller is powered by a 2S rechargeable battery. The current battery level is displayed by LEDs on the front panel of the remote control.



- **Compliance Version:** The remote control is compliant with both CE and FCC regulations.
- **Operating Mode:** Control can be set to Mode 1 , Mode 2.
- **Mode 1:** The right stick serves as the throttle.
- **Mode 2:** The left stick serves as the throttle.



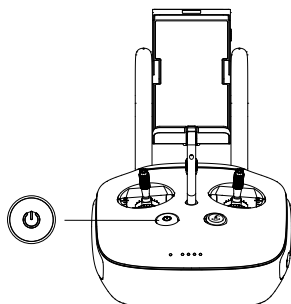
Do not operate more than 3 aircrafts within in the same area (size equivalent to a soccer field) to prevent transmission interference.

Remote Controller Operations

Powering On and Off the Remote Controller

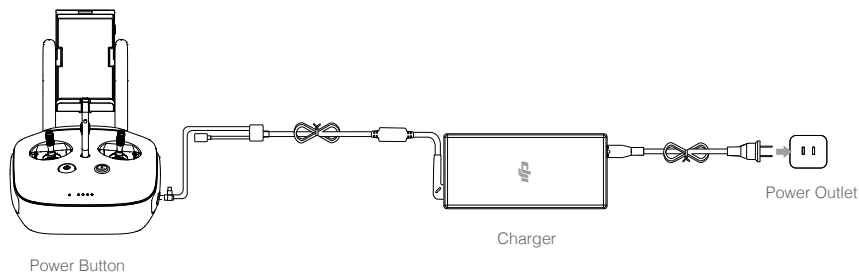
The Phantom 3 Professional remote controller is powered by a 2S rechargeable battery with a capacity of 6000 mHA. The battery level is indicated by the Battery Level LEDs on the front panel. Follow the steps below to power on your remote controller:

1. When powered off, press the Power Button once and the Battery Level LEDs will display the current battery level.
2. Press and hold the Power Button to power on the remote controller.
3. The remote controller beeps when it is powered on. The Status LED will blink green rapidly, indicating that the remote controller is linking to the aircraft. The Status LED will show a solid green light when linking is complete.
4. Repeat step 2 to power off the remote controller.



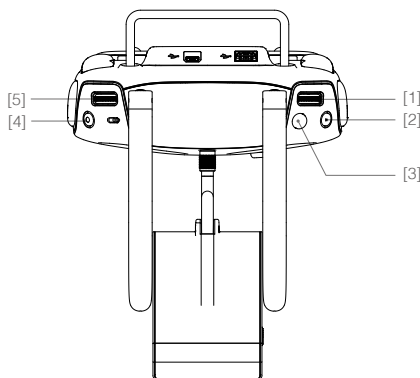
Charging Remote Controller

Charge the remote controller via supplied charger. Refer to the figure below for more details.



Controlling Camera

Shoot videos or images and adjust camera settings via the Shutter Button, Camera Settings Dial, Playback Button and Video Recording Button on the remote control.



[1] Camera Settings Dial

Turn the dial to quickly adjust camera settings such as ISO, shutter speed, and aperture without letting go of the remote controller. Move the dial button to left or right to view the pictures or videos in playback mode.

[2] Playback Button

Press to view images or videos that have already been captured.

[3] Shutter Button

Press to take a photo. If burst mode is activated, multiple photos will be taken with a single press.

[4] Recording Button

Press once to start recording video, then press again to stop recording.

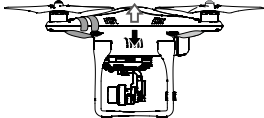
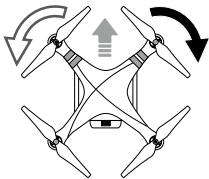
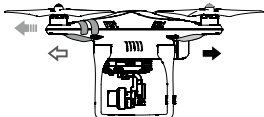
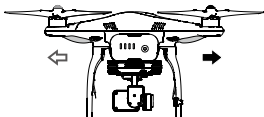
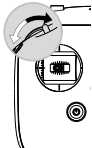
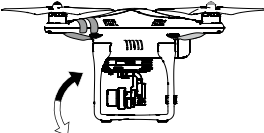
[5] Gimbal Dial

Use this dial to control the tilt of the gimbal.

Controlling Aircraft

This section explains how to control the orientation of the aircraft through the remote controller. The Remote Control is set to Mode 2 by default.

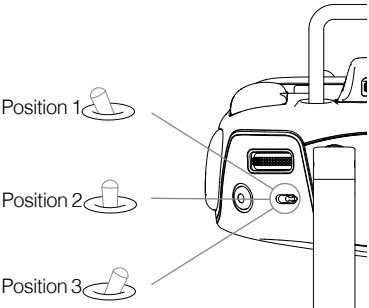
-  Stick Neutral/ mid point: Control sticks of the Remote Control are placed at the central position.
Move the Stick: The control stick is pushed away from the central position.

Remote Control (Mode 2)	Aircraft (● indicates nose direction)	Remarks
		Moving the left stick up and down changes the aircraft's elevation. Push the stick up to ascend and down to descend. Push the throttle stick up to takeoff. When both sticks are centered, the Phantom 3 Professional will hover in place. The more the stick is pushed away from the center position, the faster the Phantom 3 Professional will change elevation. Always push the stick gently to prevent sudden and unexpected elevation changes.
		Moving the left stick to the left or right controls the rudder and rotation of the aircraft. Push the stick left to rotate the aircraft counter clock-wise, and push the stick right to rotate the aircraft clockwise. If the stick is centered, the Phantom 3 Professional will stay facing its current direction. The more the stick is pushed away from the center position, the faster the Phantom 3 Professional will rotate.
		Moving the right stick up and down changes the aircraft's forward and backward pitch. Push the stick up to fly forward and down to fly backward. Phantom 3 Professional will hover in place if the stick is centered. Push the stick further away from the center position for a larger pitch angle (maximum 30°) and faster flight.
		Moving the right stick control left and right changes the aircraft's left and right pitch. Push left to fly left and right to fly right. The Phantom 3 Professional will hover in place if the stick is centered. Push the stick further away from the center position for a larger pitch angle (maximum 30°) and faster flight.
		Gimbal Dial: Turn the dial to the right, and the camera will shift to point upwards. Turn the dial to the left, and the camera will shift to point downwards. The camera will remain in its current position when dial is static.

Flight Mode Switch

Toggle the switch to select the desired flight mode. You may choose between; P mode, F mode and A mode.

Position	Figure	Flight Mode
Position 1		F mode
Position 2		A mode
Position 3		P mode



P mode (Positioning) : P mode works best when GPS signal is strong. There are three different states of P mode, which will be automatically selected by the Phantom 3 Professional depending on GPS signal strength and Vision Positioning sensors:

- P-GPS:** GPS and Vision Positioning both are available, and the aircraft is using GPS for positioning.
- P-OPTI:** Vision Positioning is available but the GPS signal is not. Aircraft is using only Vision Positioning for hovering
- P-ATTI:** Neither GPS or Vision Positioning available, aircraft is using only its barometer for positioning, so only altitude is controlled.

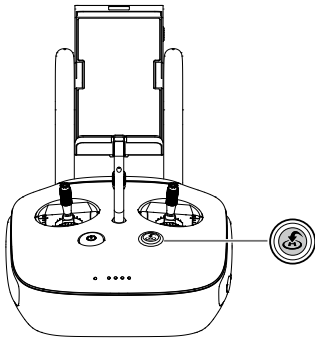
A mode (Attitude): GPS and Vision Positioning System is not used for stabilization. The aircraft only uses its barometer to stabilize. The aircraft can automatically return home if remote control signal is lost if the Home Point is recorded successfully.

F mode (Function): Intelligent Orientation Control (IOC) is activated in this mode. For more information about IOC, refer to the IOC in Appendix.

The Flight Mode Switch is locked in P mode by default. To unlock the switch, launch the DJI Pilot app, enter the “Camera” page, tap “MODE”, and then activate “Multiple Flight Mode” .

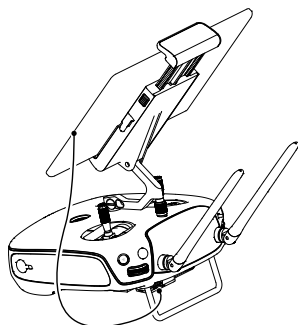
RTH button

Press and hold this button to start the Return to Home (RTH) procedure. The LED around the RTH Button will blink white to indicate the aircraft is entering RTH mode. The aircraft will then return to the last recorded Home Point. Press this button again to cancel the RTH procedure and regain the control of the aircraft.



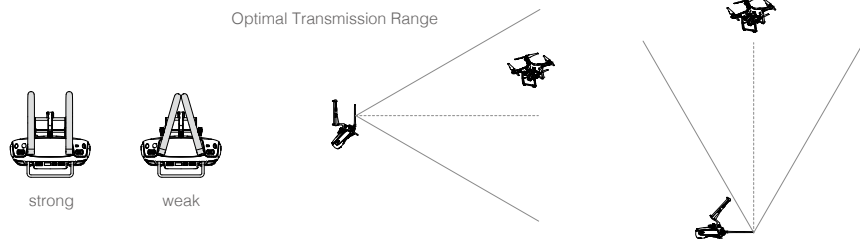
Connecting Mobile Device

Tilt the Mobile Device Holder to the desired position. Press the button on the side of the Mobile Device Holder to release the clamp, and then place your mobile device into the clamp. Adjust the clamp to secure your mobile device. Then 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.



Optimal Transmission Range

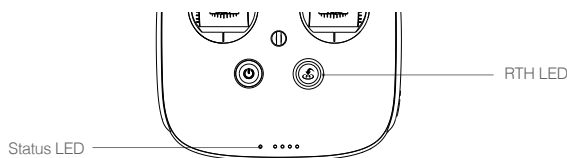
The signal transmission between aircraft and remote controller perform best within the range that displayed in the picture shown below:



Ensure the aircraft is flying within the optimal transmission range. Adjust the distance and position between the operator and the aircraft to achieve optimal transmission performance.

Remote Controller Status LED

The Status LED reflects connection status between remote control and aircraft. The RTH LED shows the Return to Home status of the aircraft. The table below contains details on these indicators.

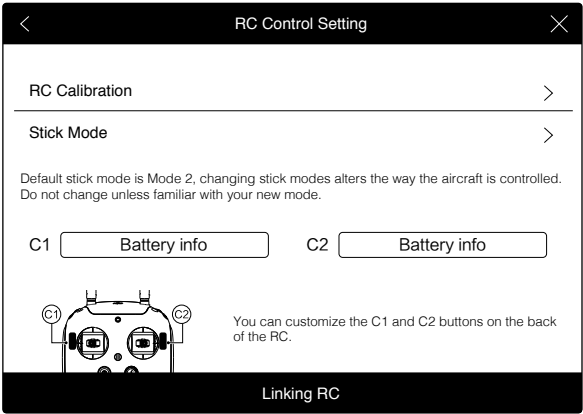


Status LED	Alarm	Remote Controller Status
 — Solid Red	 chime	The remote controller is disconnected from the aircraft.
 — Solid Green	 chime	The remote controller is connected with the aircraft.
 Slow Blinking Red	D-D-D.....	Remote controller error.
 R-G/R-Y Red and Green/ Red and Yellow Alternate Blinks	None	HD downlink is disrupted.
RTH LED	Sound	Remote Controller Status
 — Solid White	 chime	Aircraft is returning home.
 Blinking White	D . . .	Sending Return to Home command to the aircraft.
 Blinking White	DD	Aircraft Return to Home in progress.
 The Remote Status Indicator will blink red, sound an alert, when the battery level is critically low.		

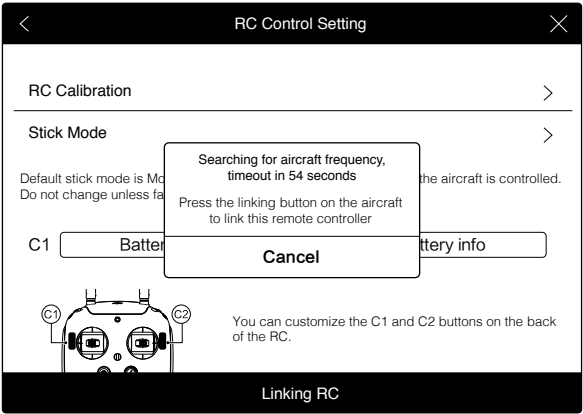
Linking the Remote Controller

The remote controller is linked to your aircraft before delivery. Linking is only required when using a new remote controller for the first time. Follow these steps to link a new remote controller:

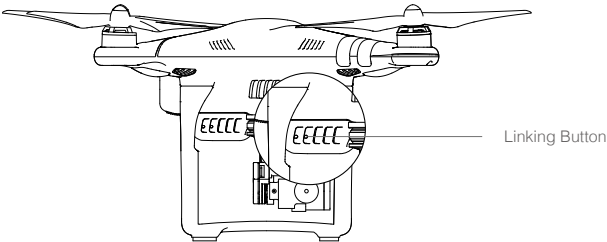
1. Power on the remote controller and connect to the mobile device. Launch DJI Pilot app.
2. Power on the Intelligent Flight Battery.
3. Enter “Camera” view and tap on  and then tap “Linking RC” button as shown below.



4. The remote controller is ready to link. The Remote Controller Status Indicator blinks blue and "beep" sound is emitted.



5. Locate the Linking button on the side of the aircraft, as shown in the figure shown below. Press the Linking button to start linking. The LED to the left of the linking button blinks green to indicate that the aircraft is ready to link, and it blinks solid green when linking is complete. The Remote Controller Status Indicator will display solid green if Link is succeed.



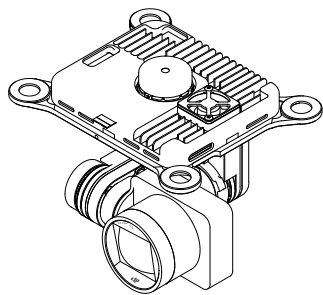
- Remote controller will disconnect from the linked aircraft if a new remote controller is linked to the same aircraft.

Remote Controller Compliance Version

The remote controller is compliant with both CE and FCC requirements.

Gimbal Camera

This chapter provides the technical specifications of the camera, explains the operating mode of the gimbal.



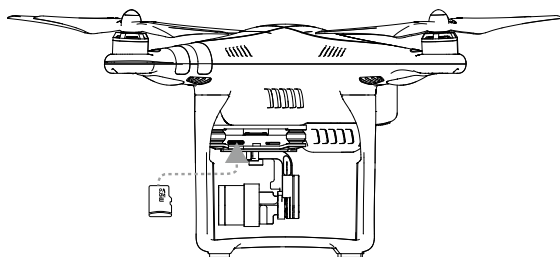
Camera and Gimbal

Camera Profile

The on-board camera supports 4K video capture up to 4096 x 2160p24 and 12M pixel photos capture by using the 1/2.3 inch CMOS sensor. You may export the video in either MOV or MP4 format for editing. Available picture shooting modes include burst, continuous, and time-lapse mode. A live preview of what the camera is seeing before you shoot videos and pictures is supported through the DJI Pilot App.

Camera Micro-SD Card Slot

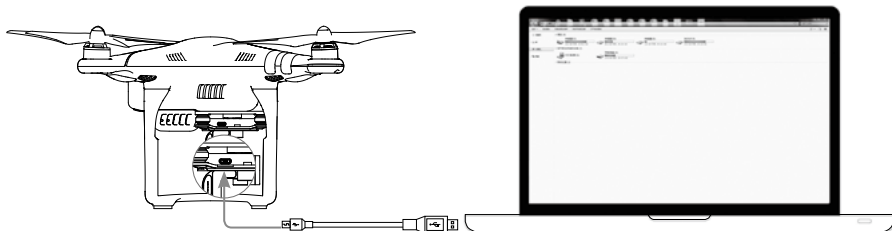
To store your photos and videos, plug in the Micro-SD card into the slot shown below before powering on the Phantom 3 Professional. The Phantom 3 Professional comes with a 16 GB Micro-SD card and supports up to a 64 GB Micro-SD card. A UHS-1 type Micro-SD card is recommended, because of the fast read and write capability of these cards enables you to store high-resolution video data.



Do not remove Micro-SD card from the Phantom 3 Professional when it is powered on.

Camera Data Port

Power on the Phantom 3 Professional and then connect a USB cable to the Camera Data Port to download photos or videos from the camera to your computer.



Power on the aircraft before attempting to access the files on the Micro-SD card.

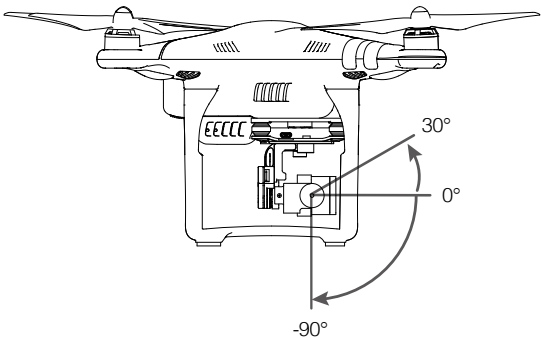
Camera Operation

Use the Shutter and Record button on the remote controller to shoot the images or the videos through the DJI Pilot app. For more information about how to use these buttons, refer to "Controlling Camera".

Gimbal

Gimbal Profile

The 3-axis Gimbal provides a steady platform for the attached camera, allowing you to capture stabilized images and video. The Gimbal can tilt the camera up to 120 degrees.



Use the gimbal dial on the remote controller to control pitch movement of the camera by default. Note that you cannot control the pan movement of the camera by default.

Gimbal Operation Modes

Two Gimbal operation modes are available. Switch between the different operation modes on the Camera page of the DJI Pilot App. Note that your mobile device must be connected to the remote controller for changes to take effect. Refer to the table below for details:

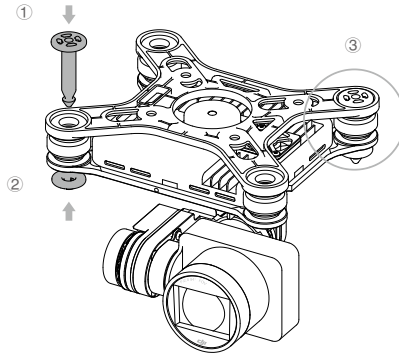
		Follow Mode	The angle between Gimbal's orientation and aircraft's nose remains constant at all times. One user alone can control the pitch motion of the gimbal.
		FPV Mode	The Gimbal will lock to the movements of the aircraft to provide a First-Person-View flying experience.



- Gimbal motor error may occur in these situations: (1) Gimbal is placed on uneven ground. (2) Gimbal has received an excessive external force, e.g. a collision. Please take off from flat, open ground and protect the gimbal after powering up.
- Flying in heavy fog or cloud may make the gimbal wet, leading to a temporary failure. The gimbal will recover when it dries out.

Anti-drop Kit

The Anti-drop Kit helps keep the gimbal and camera connected to the aircraft. Two have been mounted on delivery. If new ones are required, take the gimbal and press part [1] through the center hole of the Vibration Absorber the center hole of part [2]. Lock them together as shown in [3]. Mounting the Anti-drop Kit diagonally is recommended.

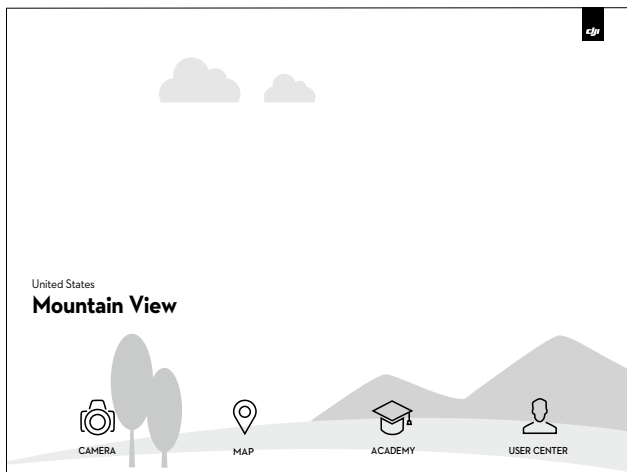


DJI Pilot App

This chapter introduce the four main sections of the DJI Pilot app.

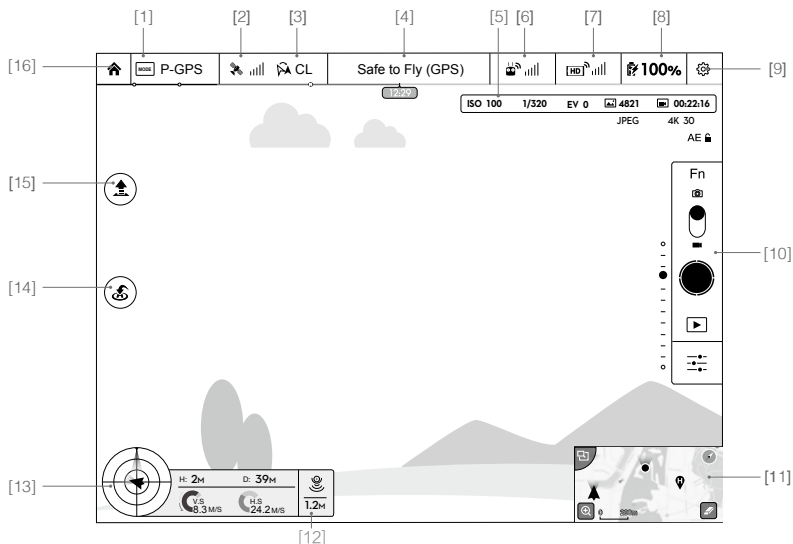
DJI Pilot App

The DJI Pilot app is a mobile app designed specifically for the Phantom 3 Professional. Use this app to control the gimbal, camera and other features of your flight system. The app also comes with Map, Academy and User Center, for configuring your aircraft and sharing the photos and videos with your friends. It is recommended that you use a tablet for the best experience.



Camera

The Camera page contains a live HD video feed from the Phantom 3 Professional's camera. You can also configure various camera parameters from the Camera page.



[1] Flight Mode



The text next to this icon indicates the current flight mode.

Tap to enter MC (Main Controller) Settings. Modify flight limits, perform compass calibration, and set the gain values.

[2] GPS Signal Strength



This icon shows the current strength of GPS signals. Green bars indicates adequate GPS strength.

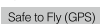
[3] IOC Settings



OFF : This icon shows which IOC setting that the aircraft has entered when in F Mode.

Tap to enter IOC setting menu and select the desired IOC setting.

[4] System Status



This icon shows current aircraft system status, such as GPS signal health.

[5] Battery Level Indicator



The battery level indicator dynamically displays the battery level. The color zones on the battery level indicator represent different battery levels.

[6] Remote Controller Signal



This icon shows the strength of remote controller signal.

[7] HD Video Link Signal Strength



This icon shows the HD video downlink signal strength between the aircraft and the remote controller.

[8] Battery Level



This icon shows the current battery level.

Tap to enter battery information menu, set the various battery warning thresholds and view the battery warning history in this page.

[9] General Settings



Tap this icon to enter General Settings page. Select parameter metric, reset the camera, enable the quick view feature, adjust the gimbal pitch value and toggle flight route display on this page.

[10] Camera Operation Bar

Shutter



Tap this button to take a single photo. Press and hold this button to select burst or time-lapsed shooting.

Record



Tap once to start recording video, then tap again to stop recording. You can also press the Video Recording Button on the remote controller, which has the same function.

Playback



Tap to enter playback page. You can preview photos and videos as soon as they are

captured.

Camera Settings

 : Tap to enter the camera exposure value setting. User may switch from Auto exposure mode to Advance or Manual mode.

[11] Map

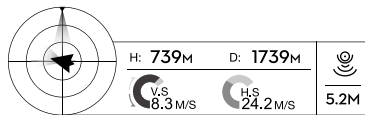
Display the flight path of the current mission. Tap to switch from the Camera GUI to the Map GUI.



[12] Vision Positioning

 : This icon shows the distance between the surface and the Vision Positioning System's sensors.

[13] Flight Telemetry



Vision Positioning Status

Icon is highlighted when Vision Positioning is in operation.

Flight attitude is indicated by the flight attitude icon.

- (1) The red arrow shows which direction the aircraft is facing.
- (2) Light blue and dark blue areas indicate pitch.
- (3) Pitching of the boundary between light blue and dark blue area shows roll angle.

[14] Return to Home (RTH)

 : Initiate RTH home procedure. Tap to have the aircraft return to the last recorded home point.

[15] Auto Takeoff/Landing

 /  : Tap to initiate auto takeoff or landing.

[16] Back

 : Tap to return to the main GUI.