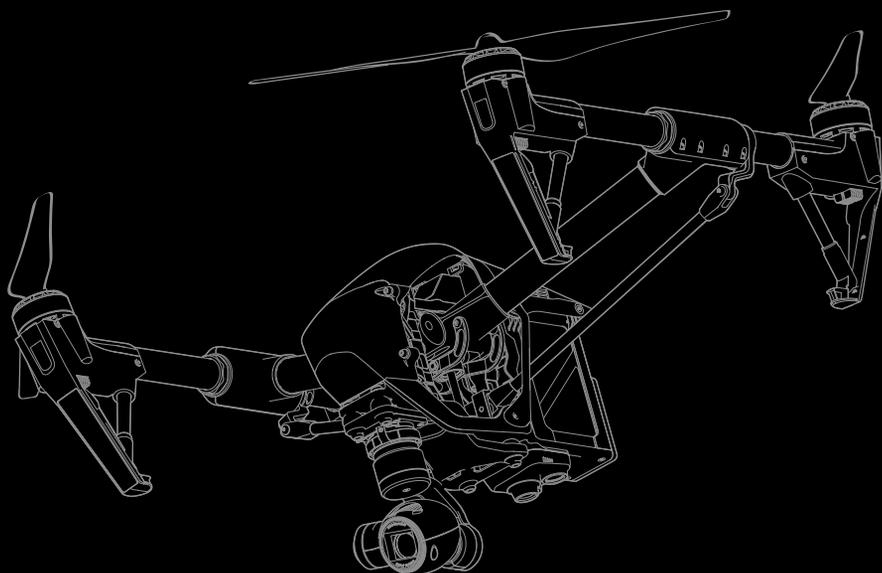


# INSPIRE 1

Quick Start Guide

V1.2

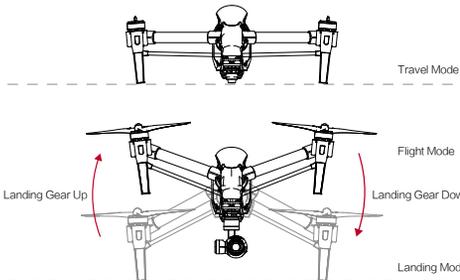
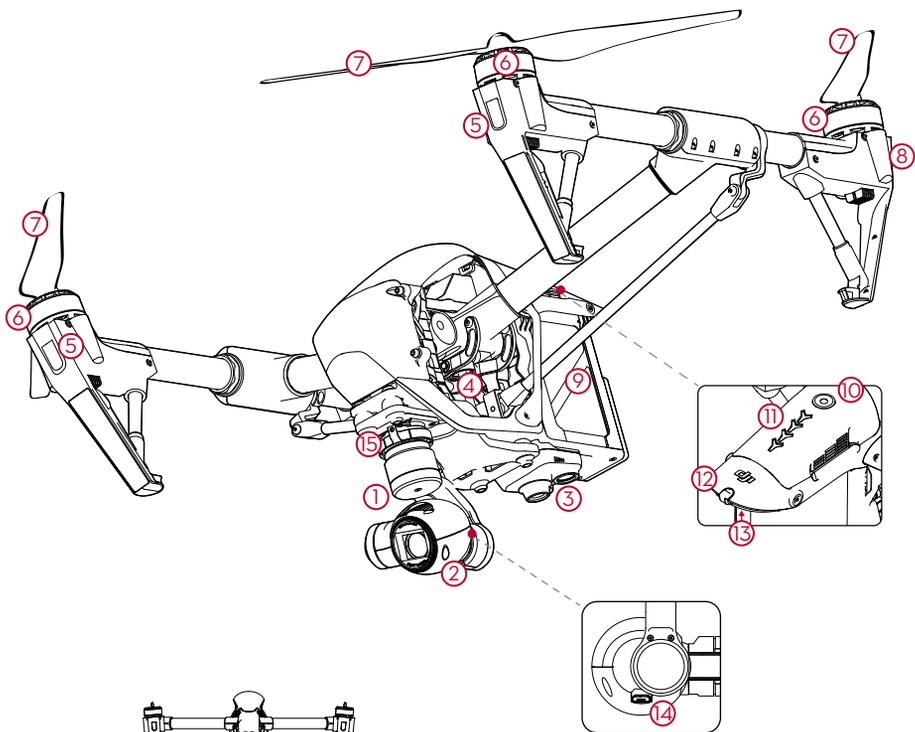


# INSPIRE 1

The Inspire 1 is a professional aerial filmmaking and photography platform that is ready to fly right out of the box. Featuring an onboard camera equipped with a 20mm lens and 3-axis stabilized gimbal, it shoots sharp 12mp stills and stable video at up to 4K. Its retractable landing gear pulls up out of view, giving the camera an unobstructed 360 degree view of the world below.

An advanced flight controller makes the Inspire 1 stable, safe and easy to fly indoors or out. The brand new Vision Positioning System gives it the power to hover in position at low altitudes even without GPS. Like all DJI flight controllers, it is also able to return home if remote controller signal is lost or if the low battery warning is triggered.

The Inspire 1 boasts a maximum flight speed 22m/s\* and a maximum flight time of 18 minutes\* using one fully charged 4500mAh Intelligent Flight Battery.



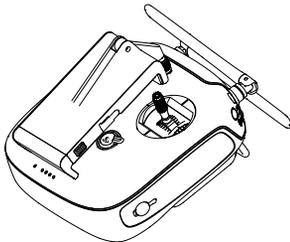
- |                              |                                |
|------------------------------|--------------------------------|
| 1. Gimbal and Camera         | 9. Intelligent Flight Battery  |
| 2. Camera Micro-SD Card Slot | 10. Power Button               |
| 3. Vision Positioning System | 11. Battery Level Indicators   |
| 4. Transformation Mechanism  | 12. Aircraft Status Indicators |
| 5. Front LEDs                | 13. Aircraft Micro-USB Port    |
| 6. Motors                    | 14. Camera Micro-USB Port      |
| 7. Propellers                | 15. Gimbal Lock                |
| 8. Rear LEDs                 |                                |

\* Please note that maximum flight speed and maximum run time were tested in a lab environment. These statistics are for reference only, as conditions in your area may vary.

# Remote Controller

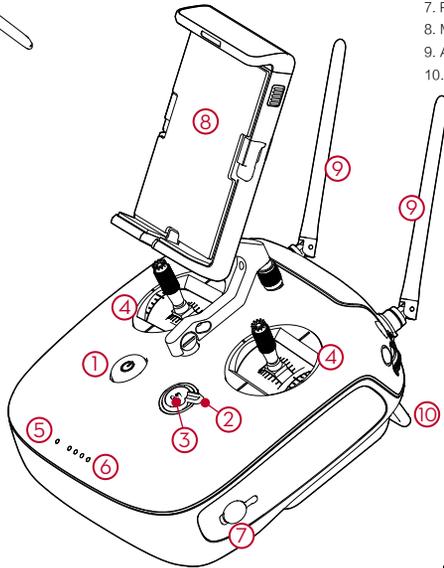
The maximum transmission distance of the Inspire 1 remote controller is 2km\*. The remote controller also allows you to control the landing gear or activate Return to Home with a tap. Other buttons allow instant photo capture, video recording, picture review and gimbal control.

A DJI Lightbridge-based HD video downlink is built-in, letting you see what your camera sees on your mobile device in real time HD. The app also allows you to change camera settings and activate Master/Slave mode so that one person can fly while other controls the gimbal independently. The master and slave controllers communicate using a 5.8Ghz wireless signal, and have a communication range with each other of up to 50 meters. The controller's LiPo battery has a maximum run time of approximately four hours and can be charged by plugging directly into the controller.

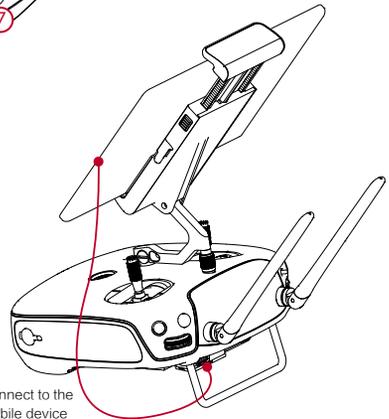
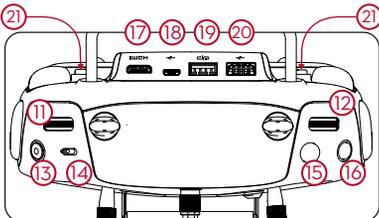


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1. Power Button
2. Transformation Switch
3. Return to Home (RTH) Button
4. Control Sticks
5. Status LED
6. Battery Level LEDs
7. Power Port
8. Mobile Device Holder
9. Antennas
10. Handle Bar



11. Gimbal Dial
12. Camera Settings Dial
13. Video Recording Button
14. Flight Mode Switch
15. Shutter Button
16. Playback Button
17. Mini-HDMI Port
18. Micro-USB Port
19. CAN-Bus Port
20. USB Port
21. Back Buttons (Reserved)



Connect to the mobile device

\* Please note that the max transmission distance were tested in a lab environment. This statistic is for reference only, as conditions in your area may vary.

# Fly Safe

## ● Calibrating the Compass:

Make sure to calibrate the compass in every new flight location. The compass is very sensitive to electromagnetic interference, which can cause abnormal compass data leading to poor flight performance or even failure. Regular calibration is required for optimum performance. Recalibrate the compass when: a) The Aircraft Status Indicator is blinking red and yellow. b) Flying in a new location.

- DO NOT calibrate your compass where there is a chance of strong magnetic interference, such as magnetite, parking structures, and steel reinforcements underground.
- DO NOT carry ferromagnetic materials with you during calibration such as keys or cellular phones.
- DO NOT calibrate beside massive metal objects.
- If the Flight Status LED is showing solid red, then try to calibrate again. If it is blinking red and yellow alternately after placing the aircraft on the ground, the compass has detected magnetic interference. Change your location.

## ● P Mode:

Safe to fly. In this mode, the Inspire 1 has a strong GPS signal and can use the Vision Positioning System allowing it to hover accurately in position indoors and out. If outdoors, this mode also means that a Home Point has been locked so that it can Return to Home if the control signal is lost.



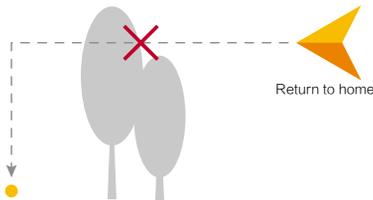
If you are not in this mode, toggle the Flight Mode Switch to P position to enable it.

The Flight Mode Switch is locked in P mode by default. Refer to the User Manual on how to unlock the switch.

There are three states in P mode.

P-GPS: GPS works best when outdoors in a wide open area, and your Inspire 1 uses GPS to hover in place when the GPS signal is strong. P-OPTI: If GPS is not available, the aircraft can use the Vision Positioning System to hover accurately. P-ATTI: Neither GPS or Vision Positioning System available, aircraft is using only its barometer for positioning, so only altitude is controlled.

Note that the Vision Positioning System may not work properly when the Inspire 1 is flying over water, over surfaces without a clear pattern, or in a low light environment.



## ● Return to Home:

When the GPS signal is strong, the aircraft will be able to record a Home Point and return to the Home Point when needed. The GPS location is recorded when the GPS signal icon in the DJI Pilot app is either yellow or green.

The aircraft will return to the Home Point automatically in the following cases (all require a strong GPS signal).

Smart RTH: When you press the RTH button on the remote controller or in the App. Low Battery RTH: The DJI Pilot app notifies users to take action when the battery level falls to a specified threshold.

Failsafe RTH: When the remote controller signal is lost.



- While returning home, its altitude can be adjusted by the user to avoid obstructions. Tall buildings may affect the remote controller signal. The Failsafe Return to Home procedure will be triggered if the signal is lost. Be sure fly higher than any nearby buildings to avoid crashing.

## ● Flight Limits:

The Inspire 1 is not permitted to fly within no-fly zones as specified by local laws and regulations. Please visit here:

<http://flysafe.dji.com/no-fly> for more information.



## ● Environmental Considerations:

1. Do not fly in severe weather conditions. This includes high wind, snow, rain and smog.
2. Only fly in open areas. Tall buildings and steel structures may affect the accuracy of the onboard compass and GPS signal.
3. Avoid from obstacles, crowds, high voltage power lines, trees or bodies of water.
4. Minimize electromagnetic interference by not flying in areas with high levels of electromagnetism, including mobile phone base stations or radio transmission towers.
5. Aircraft and battery performance is subject to environmental factors such as air density and temperature. Be very careful when flying 14700 feet (4500 meters) or more above sea level as battery and aircraft performance may be reduced.
6. The Inspire 1 cannot operate in P mode or use GPS at polar latitudes. It only can fly in ATTI mode and use the Vision Positioning System.

# Appendix

- Aircraft (Model: T600)**

Weight (Battery Included)	2935 g
Maximum Weight of Payload	3400 g
Max Tilt Angle	35°
Max Ascent Speed	5 m/s
Max Descent Speed	4 m/s
Max Speed	22 m/s (ATTI mode, no wind)
Max Flight Altitude	4500 m
Max Flight Time	Approximately 18 minutes
Operating Temperature Range	-10°C to 40°C

- Gimbal (Model: ZENMUSE X3)**

Angular Vibration Range	± 0.03°
Controllable Range	Pitch: -90° to +30° Pan: ± 320°
Max Controllable Speed	Pitch: 120°/s Pan: 180°/s

- Vision Positioning**

Velocity Range	<8 m/s (Altitude 2 m)
Altitude Range	5 cm-500 cm
Operating Environment	Surface with clear pattern and adequate lighting (Lux > 15)
Operating Range	0-250 cm

- Camera (Name/Model: X3/FC350)**

Sensor	Sony EXMOR 1/2.3" Effective pixels:12.4M (total pixels: 12.76M)
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 shoot; Burst shooting: 3/5/7 frames Auto Exposure Bracketing (AEB): 3/5 bracketed frames at 0.7EV Bias; Time-lapse
Video Recording Modes	UHD (4K): 4096x2160p 24/25, 3840x2160p 24/25/30 FHD: 1920x1080p 24/25/30/48/50/60 HD: 1280x720p 24/25/30/48/50/60
Max Bitrate Of Video Storage	60 Mbps
Supported File Formats	FAT32/exFAT Photo: JPEG, DNG 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

- Remote Controller (Name: C1)**

Operating Frequency	922.7 MHz-927.7 MHz (Japan only) 5.725 GHz-5.825 GHz 2.400 GHz-2.483 GHz
Transmitting Distance	2 km (outdoor and unobstructed)
Video Output Port	USB, Mini-HDMI
Operating Temperature Range	-10°C to 40°C
Battery	6000 mAh LiPo 2S

- Charger (Model: A14-100P1A)**

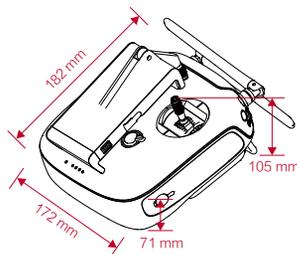
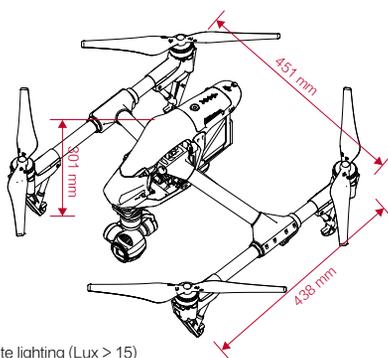
Voltage	26.3 V
Rated Power	100 W

- Intelligent Flight Battery (Model: TB47, Standard)**

Capacity	4500 mAh
Voltage	22.2 V
Battery Type	LiPo 6S High voltage battery
Energy	99.9 Wh
Net Weight	570 g
Operating Tempe	-10°C to 40°C
Max Charging Power	180 W

- Intelligent Flight Battery (Model: TB48, Optional)**

Capacity	5700 mAh
Voltage	22.8 V
Battery Type	LiPo 6S High voltage battery
Energy	129.6 Wh
Net Weight	670 g
Operating Tempe	-10°C to 40°C
Max Charging Power	180 W



CE 1313 RoHS

FCC ID: S53-WM6101410 FCC ID: S53-GL6581502

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

# Using INSPIRE 1

Watch the video tutorials on the official DJI website and read the following documents before using your Inspire 1 for the first time: *Inspire 1 Quick Start Guide, Disclaimer, Intelligent Flight Battery Safety Guidelines, Inspire 1 Safety Guidelines, In the Box, Inspire 1 User Manual.*

## 1. Download the DJI Pilot App

Visit <http://m.dji.net/djipilot> or scan this QR code to download the DJI Pilot app through your mobile device.



DJI Pilot app

## 2. Watch the Tutorial Videos

Watch the tutorial videos at [www.dji.com](http://www.dji.com) or in the DJI Pilot app.



The tutorial videos

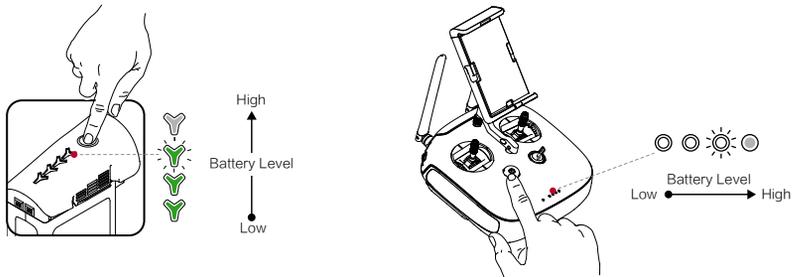


- For the best user experience, please use mobile devices with iOS 8.0 (or higher) and Android 4.1.2 (or higher).
- Read the Inspire 1 User Manual in the DJI Pilot app or official DJI website for more details.

## 3. Check Battery Levels

Press the Power Button once on both the Intelligent Flight Battery and remote controller to check battery levels. The Intelligent Flight Battery must be fully charged before using it for the first time. Make sure both batteries are adequately charged before each flight.

Press the power button once then press again and hold for 2 seconds to power on the remote controller. Repeat to power off. Press the power button once, then press again and hold for 2 seconds to power on the Intelligent Flight Battery. Repeat to power off.



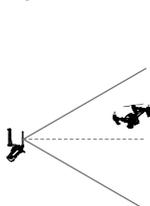
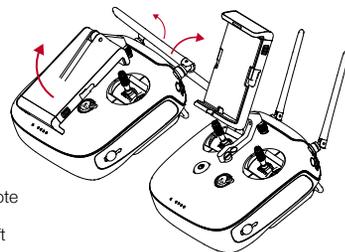
## 4. Charging

- Only use the official DJI Inspire 1 charger for your Intelligent Flight Battery and remote controller.
- To charge the Inspire 1 Intelligent Flight Battery or the remote controller, connect it to power through the port to a suitable power source (100-240V 50/60Hz).
- It is recommended to turn off the batteries before charging.
- Use the included charger to charge the Intelligent Flight Battery and the remote controller battery. When fully charged, the battery LEDs on the Intelligent Flight Battery and remote controller will turn off.

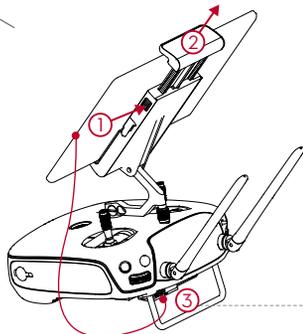


## 5. Preparing the Remote Controller

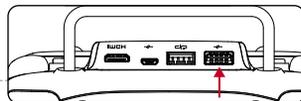
Tilt the Mobile Device Holder to the desired position then adjust the antennas as shown. The strength of the remote controller signal is different when the antenna position is different.



The transmission signal between the aircraft and remote controller will perform best when within the optimal transmission range. If the signal is weak, fly the aircraft closer to you to achieve optimal signal performance.



- 1 Press the button on the side of the Mobile Device Holder to release the clamp.
- 2 Place your device onto the clamp and adjust the clamp to hold it securely.
- 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.



If you have purchased an Inspire 1 with dual remote controllers, the Master remote controller will connect to the aircraft automatically when powered on. Master/Slave mode is disabled by default. Activate it and set it up through the DJI Pilot app. The Master remote controller's Status LED will show solid green when it connected to the aircraft. The Slave remote controller's Status LED will show solid blue when it is connected to the Master controller.

Connecting the Master remote controller to the Slave remote controller:

On the Master remote controller, launch the DJI Pilot app and go to the Camera page. Then tap  on the top of your screen to enter the remote controller settings window. Tap "Activate Master/Slave Mode" and select "Master". Then enter your desired connection password for the "Slave" remote controller.

On the Slave remote controller, select "Slave" and tap "Search" to find the Master remote controller. Select the "Master" remote controller from the "Master RC List" and input the connection password.

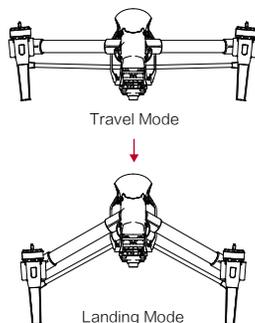
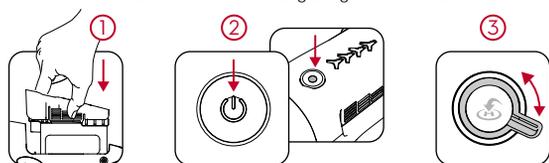
 Do not use other 2.4GHz devices at the same time to avoid signal interference.

## 6. Preparing the Aircraft

The aircraft is in Travel Mode during delivery. Follow these steps to change it to Landing Mode before your first flight:

- 1 Insert the Intelligent Flight Battery into the battery compartment.
- 2 Power on the remote controller and the Intelligent Flight Battery.
- 3 Toggle the Transformation Switch up and down at least four times. Repeat to change aircraft to Travel Mode.

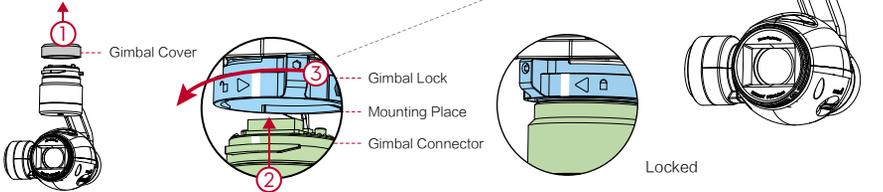
Power off the aircraft before mounting the gimbal and camera.



 If you have purchased the dual remote controller version, you must use the Master remote controller to deactivate Travel Mode.

## 7. Mounting the Gimbal and Camera

- 1 Remove the Gimbal Cover.
- 2 Rotate the Gimbal Lock to the unlocked position (to the right when facing the nose of the aircraft). Insert the gimbal by aligning the white mark on the gimbal with white mark on the Gimbal Lock.
- 3 Rotate the gimbal lock back into the locked position (to the left when facing the nose of the aircraft).

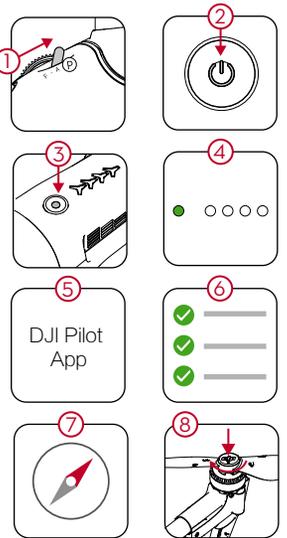


## 8. Preparing for Flight

Place the aircraft on a flat surface, in an open space, with the back facing you.

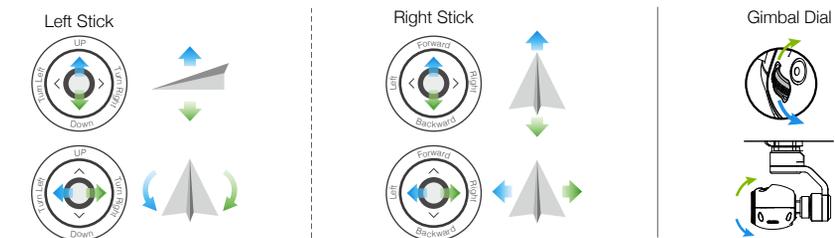
- 1 Move the Flight Mode Switch to the right to select P mode. ( P mode is Positioning mode, A mode is ATTI mode, and the F mode is Function mode. )
- 2 Power on the remote controller.
- 3 Power on the aircraft and wait for the self-check to complete. Do not move the aircraft during the self-check.
- 4 Ensure the remote controller is linked to the aircraft before flight. Re-link the remote controller to the aircraft if it fails to connect. Refer to the *INSPIRE 1 User Manual* on how to link.
- 5 Ensure the remote controller and your mobile device are connected with a USB cable. Launch the DJI Pilot app when connecting to the aircraft for the first time, and follow the instructions within the app.
- 6 Launch the DJI Pilot app and tap "Camera". Ensure the aircraft is functioning normally by completing the Checklist. Beginner Mode is enabled by default when you launch the DJI Pilot app for the first time. The aircraft's altitude and flight distance is restricted when flying in Beginner Mode. We recommend you fly in Beginner Mode when using the aircraft for the first time. You may disable Beginner Mode in the settings page of the DJI Pilot app.
- 7 Calibrate Compass: tap "MODE" in the app and select "Compass Calibration" to calibrate the compass, then follow on-screen instructions.
- 8 For 1345s Propeller, install the propellers with a white dot onto the mounting plates that have a white dot, and install the propellers without a white dot onto the mounting plates that do not have a white dot. Press the propeller down onto the mounting plate and rotate in the lock direction until secure. For 1345 Propeller, attach propellers with the black nut onto motors with the black dot and spin counter-clockwise to secure. Attach propellers with gray nut onto motors without a black dot and spin clockwise to secure. Place all propellers onto the correct motor and tighten by hand to ensure security before flight.

⚠ When not in P mode, the Inspire 1 will only maintain altitude, not position, and will drift with wind or user inputs. Return to Home is not available in F mode.



## 9. Remote Controller Operation

The remote controller is by default set to Mode 2 ( throttle controlled by the left-hand stick ). Adjust the tilt angle of camera by using the Gimbal Dial.



⚠ You can set the remote controller to different modes using the DJI Pilot app.

## 10. Flight

### Safe to Fly (GPS)

Before taking off, make sure the aircraft status bar in the DJI Pilot app shows "Safe to Fly (GPS)". Otherwise, the aircraft cannot hover in place and record the Home Point.

#### ● Auto Taking – Off & Landing:

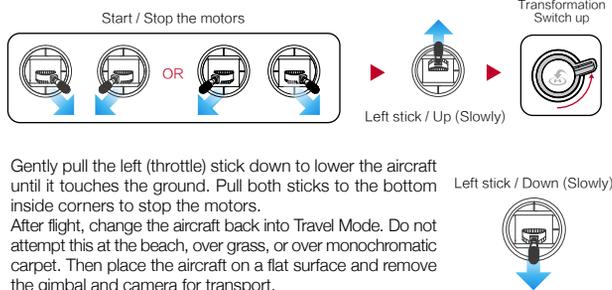
(In the Camera screen of the DJI Pilot app)

Tap and confirm your selection. The aircraft will automatically take off, retract its landing gear, and hover at 1.5 meters after you tap and confirm Auto Take-off.

Tap and confirm your selection. The landing gear will lower and the aircraft will automatically land.

#### ● Manual Take – off & Landing:

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 (throttle) stick up to take off. Once in the air, toggle the Transformation Switch up to raise the landing gear.



Gently pull the left (throttle) stick down to lower the aircraft until it touches the ground. Pull both sticks to the bottom inside corners to stop the motors.

After flight, change the aircraft back into Travel Mode. Do not attempt this at the beach, over grass, or over monochromatic carpet. Then place the aircraft on a flat surface and remove the gimbal and camera for transport.

- It is highly recommended that you only take off when the Aircraft Status bar is green.
- The aircraft cannot take off if the Critical Low Battery Warning is active.
- The Intelligent Flight Battery must warm-up if the outside temperature is low. A warning will display in the DJI Pilot app.
- 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 during flight. Power off the aircraft prior to switching off the remote controller after landing.

#### ● Return to Home



RTH Button



The App's RTH Button

1. Press and hold the return home button until the LED surrounding the button is blinking white, and the return home procedure is in process. Press once to stop the procedure.
2. The DJI Pilot app notifies users to take action when the battery level falls to a specified threshold. This warning threshold can be set within the DJI Pilot app. The aircraft will land immediately when it reaches Critical Low Battery Level Warning.
3. Failsafe: The Inspire 1 will enter RTH mode if remote controller signal is lost.

- While returning home, its altitude can be adjusted by the user to avoid obstructions.

## Appendix

### Aircraft Status Indicator Description

- Slowly: Safe to fly, GPS working
- Double: Vision Positioning System working, no GPS
- Slowly: P-ATTI or ATTI
- Quickly: Not connected to 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.
- Remote controller is in Slave Mode and not connected to the aircraft.
- Remote controller is in Slave Mode and is connected to the aircraft.
- B-B-B... Aircraft low battery warning or remote controller error.
- B-B-... Remote controller has been idle for 5 minutes.

Learn more information from:

[www.dji.com/product/inspire-1](http://www.dji.com/product/inspire-1)

### Using the Camera

- Adjust the camera parameters using the Camera Settings Dial on the remote controller or through the DJI Pilot app. Press the Shutter Button/Video Record Button to capture photos or record videos.
- Adjust the tilt of the gimbal using the Gimbal Dial.
- Download photos and video from the SD card to your mobile device through the DJI Pilot app. You may also use a SD card reader to export files to your PC.



# INSPIRE 1

Creativity Unleashed