

Parrot®

DISCO-PRO AG

CHECKLIST



BEFORE FLIGHT

DOWNLOAD FREEFLIGHT PRO AND PIX4DCAPTURE



1. Sign in to Apple Store
2. Download the free apps FreeFlight Pro and Pix4Dcapture on your smartphone or tablet.
 - Free Flight Pro is the official free application of Parrot allowing to freely pilot the drone.
 - Pix4Dcapture is the free application allowing to generate a flight plan to capture photos above a specific area.

CHARGE PARROT DISCO-PRO AG BATTERY



1. The battery must be unplugged from Parrot Disco-Pro AG.
 2. Select the supplied adapter depending on your country and insert it into the charger.
 3. Connect the cable to the charger.
 4. Connect the battery to the charger cable and then plug the charger into the AC outlet. The charge time is approximately 55 minutes for an approximate flight time of 25 minutes.
- The light indicator is red during charge and turns green when the battery is charged.



CHARGE PARROT SKYCONTROLLER 2 BATTERY

1. Select the supplied adapter depending on your country and insert it into the charger.
 2. Connect the cable to the charger.
 3. Connect Parrot Skycontroller 2 to the charger cable and plug the charger into the AC outlet. The charge time is approximately 1 hour and 40 minutes for 4 hours of use.
- The light indicator is red during charge and turns green when the battery is charged.

MAKE SURE YOU...



1. Take the drone and open the cover



3. Take off the protective lens and the protective film.

4. Insert the SD Card in the Sequoia



4. Place Parrot Sequoia in the dedicated slot.



6. Close the cover.

7. Attach the Parrot Disco Pro AG wings to the drone's body. And make sure that the fin is fully slotted into the servomotor arm.



2. Insert the Parrot Disco Pro AG battery in to the dedicated slot in Parrot C.H.U.C.K.



5. Connect the micro USB cable of Parrot Sequoia into the plug provided on Parrot C.H.U.C.K.

GETTING STARTED WITH PARROT SKYCONTROLLER 2 AND ITS ACCESSORIES



1. Turn on Parrot Skycontroller 2 by pushing the transparent button. Parrot Skycontroller 2 is already paired with Parrot Disco Pro AG.



2. Place the phone/tablet holder on Parrot Skycontroller 2 and install the phone/tablet in it.



3. Connect the USB cable of your phone/tablet from Parrot Skycontroller 2 to your phone/tablet.



4. Turn on Parrot Disco Pro AG.

The button must be green. If the button is blue, it means that the drone does not have a GPS signal. Stand in a clear, open space to pick up a signal.

5. The Skycontroller button is green when it is connected.



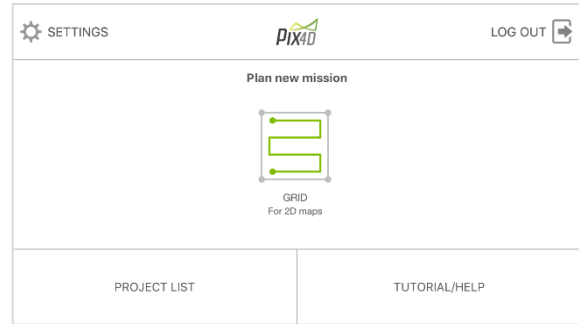
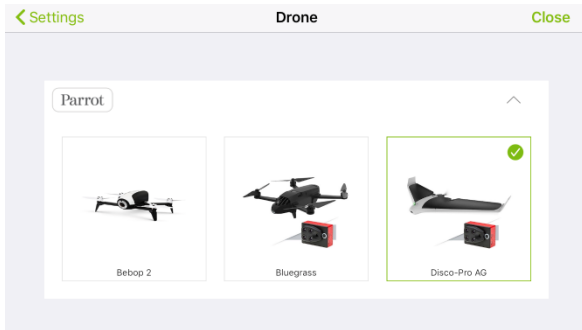
6. Parrot Sequoia LED must be green.

If the LED is purple, calibrate Parrot Sequoia (refer to the **Calibration of Parrot Sequoia** chapter).

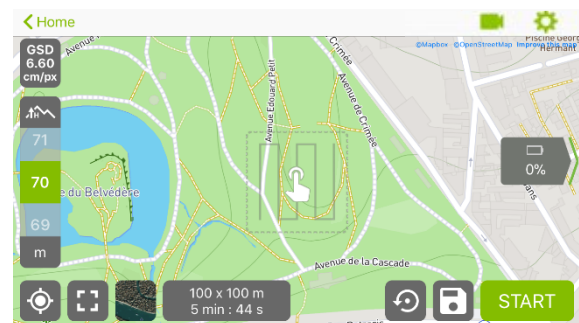
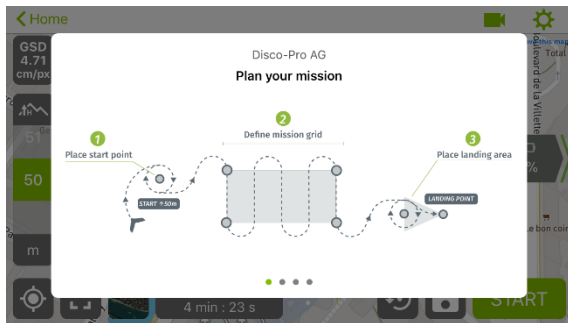
Getting started with the Pix4Dcapture app



This step will allow you to simply configure the drone flight above your plot as well as the automatic photo capture done with Parrot Sequoia.

1. Open the application Pix4Dcapture and create an account.
2. Select Parrot Bluegrass.
3. Select the Mission:
 - GRID



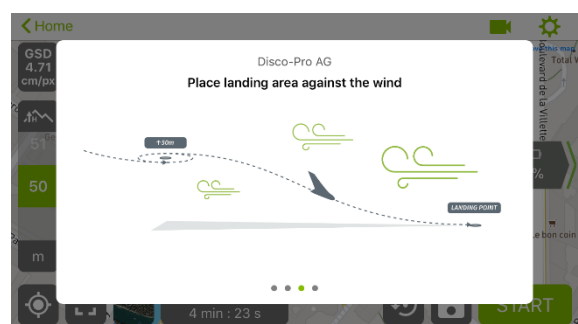
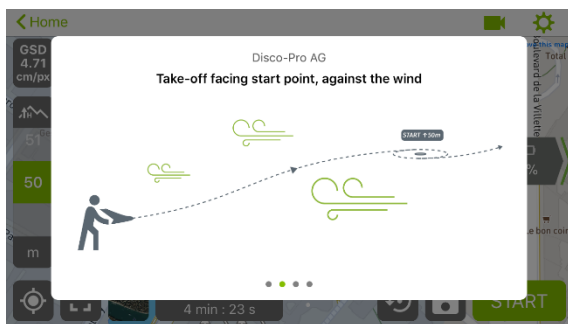
4. The Pix4D Dashboard will appear



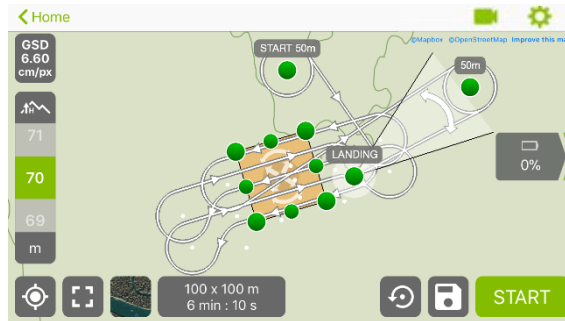
5. In the chosen mission menu, display the local map by pressing the button . Zoom out and scroll the map to the area you intend to go. Then, display the default flight plan by pressing the RESET button .

6. Place this flight plan above the crops you intend to map by dragging it with your finger. Rotate or adjust its size by dragging the corners.

7. Define the flight zone, a take-off and a landing point.



8. Adjust the flight height:



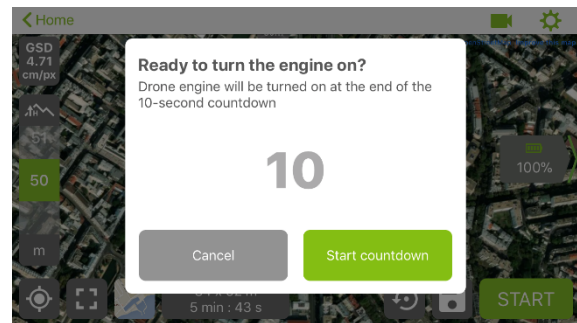
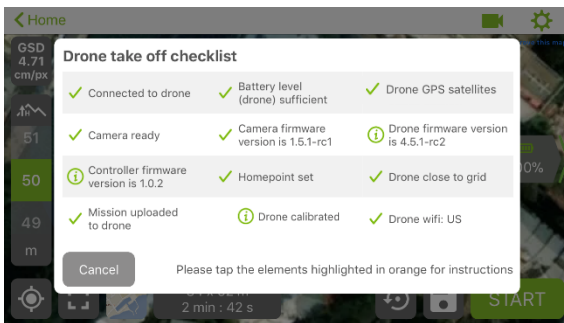
START

8. Take the drone and press **START** when your flight plan is correctly set up.


Note : Check if an update is required by pressing **FIRMWARE UPDATE**.

Firmware update

9. Please confirm by pressing **START**, a drone connection and take-off checklist is performed. In case of failure, please refer to the chapter [Main common causes of warnings for take-off checklist](#).



10. Launch the drone, it starts the mission and flies automatically from the point selected on the map (represented by a flag).

11. During the flight, you can watch live video streaming from the drone by pressing the 'camera' icon 

To come back to the mapping view, press the 'map' icon.

12. At the end of the flight, the drone comes back to the starting point and lands automatically. If needed, you can take control of the drone to land it at different location.

13. The photos are stored on the SD card. Remove the SD card from the drone to put it on your computer.

14. Go to parrot.airinov.com or cloud.pix4d.com and enter your email adress to create an account.

15. Select the photos from your SD card. The upload will start and may take a few minutes depending on your internet connection.

16. A report will be emailed to you within 24 hours.

TIPS FOR USAGE

PREPARE AND SAVE YOUR FLIGHT BEFORE GOING ON SITE

You can save flying settings and execute the flight later, follow these instructions.

1. First create your flight plan with instructions
2. Then press the **SAVE** button. The flight plan and map will be saved under a project name you can change.
3. On site, to retrieve a flight plan, select **PROJECTS LIST** (iOS) on the main menu, then select the project previously created and press **“Open”**.
4. The mission page you set earlier is displayed. Note that the flight plan can be modified any time if needed.



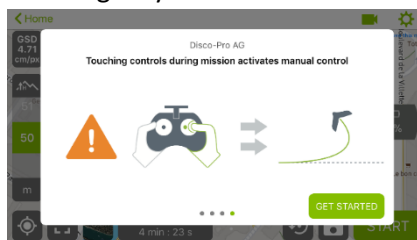
5. On site, it is recommended to check and adjust the flight plan as you may be needed to modify the position and altitude of the flight when looking at the real neighborhood and environment.
6. Then go to the chapter **Start a flight plan**.

HOW TO IMPROVE QUALITY

- If the photos are not satisfying, you can relaunch a new mission with relevant modifications.
- For IOS users: Launch a new mission normally
- For Android users: Launch a new mission normally or find the same project in **PROJECT LIST** and press the '+' button to start a new mission.
- If the photos look overexposed or underexposed, the picture exposure can be modified by rotating the rear right wheel of Parrot Skycontroller 2 before the flight or during the live video streaming from the drone.
- In windy conditions, the flight may be longer as the drone try to stabilize before taking the pictures

SAFETY

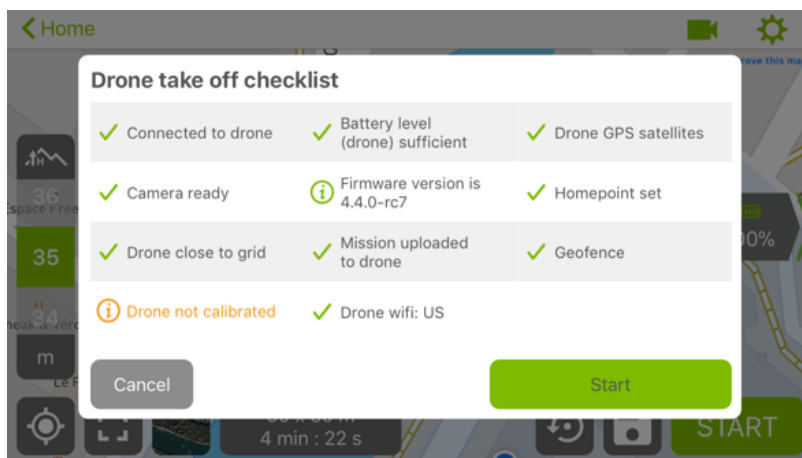
- During an automatic flight, in case of emergency take back control of the drone by pressing:
 - Any Skycontroller button
 - The **ABORT** button.



After that, the Disco Pro AG will turn in loiter mode and will wait for your commands, several options :

- Flight in with manual control with the Parrot Skycontroller 2
- **RESTART** the Flight Plan, so the mission will start again
- **LAND** : The Disco Pro AG will land according the landing position choosen.

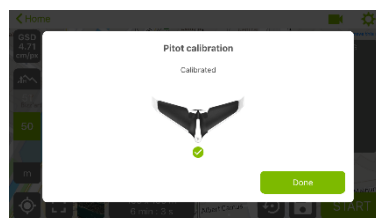
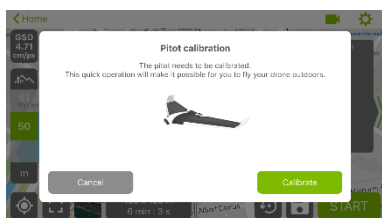
MAIN COMMON CAUSES OF WARNINGS FOR “DRONE TAKE-OFF CHECKLIST”



“Drone not calibrated” :

Since the Pix4D 2.9.0 version (iOs), calibration can be done directly from Drone take off menu

- Select : **🚨 Drone not calibrated**
- Then the drone calibration menu will appear
- Follow instructions to calibrate the Disco-Pro AG



Note : Drone calibration can also be done with FreeFlight Pro App;

“Battery not charged enough”

- Charge the battery

“GPS positioning not accurate”, or “home point distance unknown”

- Put the drone in more open area, it may be too close to walls or in a dark spot.

“Geofence”

- **Open the free FreeFlight Pro application**
- Activate Wi-Fi on your phone and open the application.
- Locate for your Disco-Pro AG in the device here
- Check in the settings if the default geofencing is limiting your mission (max altitude and max distance).

