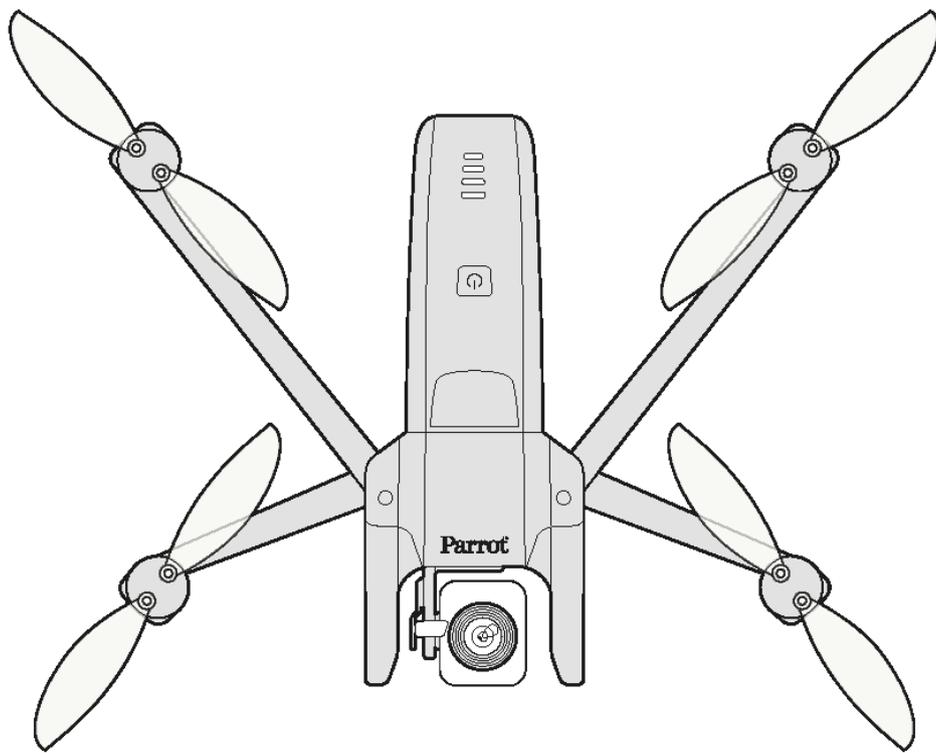


# ANAFI™

FPV

USER GUIDE v2.6



**Parrot**



## WE ARE PARROT. WELCOME TO THE FAMILY!

With ANAFI, you have chosen the finest, quietest, and most portable flying 4K HDR camera, you can use everywhere on the go, anytime.

We strongly recommend you read the following information and instructions thoroughly before you get ANAFI in the air, to make the most of your first amazing 25-minute flight.

**The indispensable prerequisites, on the next pages, will not occupy more than 5 minutes of your time: ANAFI requires the FreeFlight 6 app to fly, and to make sure your drone and controller are fully up-to-date with the latest features.**

As you discover the world of possibilities that ANAFI opens to you, you will find out that carefully planning your flights is exciting, and only adds to the fun of flying them.

Have a great read, and many outstanding hours flying ANAFI!

## USING THIS GUIDE

- **Read entirely at least once:** it answers most questions that most users encounter when they discover ANAFI.
- **Keep it for reference and stay alert for updates:** they will be advertised on all Parrot websites and social media.
- **The Table of contents, on page 7, is active.** Click a title to access the corresponding section.
- **This online user guide has no index: use [ctrl]-F (Windows) or [command]-F (Mac)** to browse all occurrences of any keyword (*flight, preferences, gimbal, Android, iPhone, photo, EV, ISO*, and so on).

## PREREQUISITES

**You want ANAFI up in the air as soon as possible, so do we. Refer to the enclosed Super Quick Start Guide (SQSG) if you need illustrated guidance to get these quick prerequisites out of the way.**

1. **Wake your ANAFI's smart battery up.** Charge the battery using the enclosed USB-A to USB-C cable and a USB-A power adapter (not included in the box, except for **ANAFI Work**). The battery's LEDs start flashing; it is awake. Let it charge while you read. **Parrot recommends you always run a full charge of your smart battery before flying ANAFI.**
2. **Download FreeFlight 6 on your iOS or Android smartphone: ANAFI requires FreeFlight 6 to fly.** The app will enable you to update your **Parrot Skycontroller 3** and ANAFI when you power them on for the first time.



*Android FreeFlight 6 QR code*



*iOS FreeFlight 6 QR code*

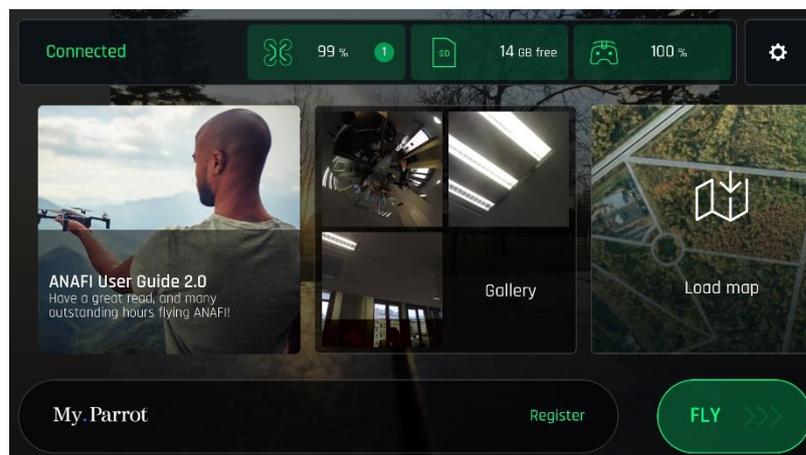
When you have downloaded and installed **FreeFlight 6**, unfold the central arm of **Parrot Skycontroller 3** to power it on.

Use your device's USB cable to connect it to **Parrot Skycontroller 3** USB-A port, and install it on the device holder, as shown in the enclosed SQSG.

A prompt appears on your screen, which invites you to allow the communication between your device and the controller.

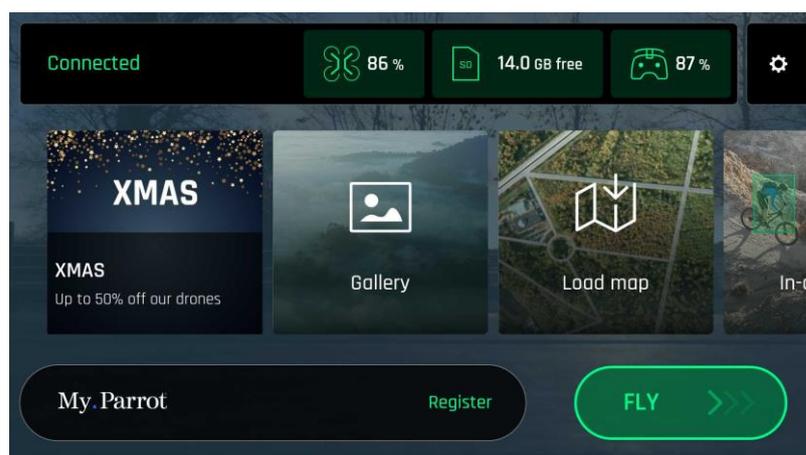
Tap "Allow" (iOS) or "OK" (Android); **FreeFlight 6** runs. After your device displays the app's splash screen, you get to **FreeFlight 6** homepage.

If the prompt does not appear on your screen when you connect your device to your **Parrot Skycontroller 3**, launch **FreeFlight 6** manually, as any other app.



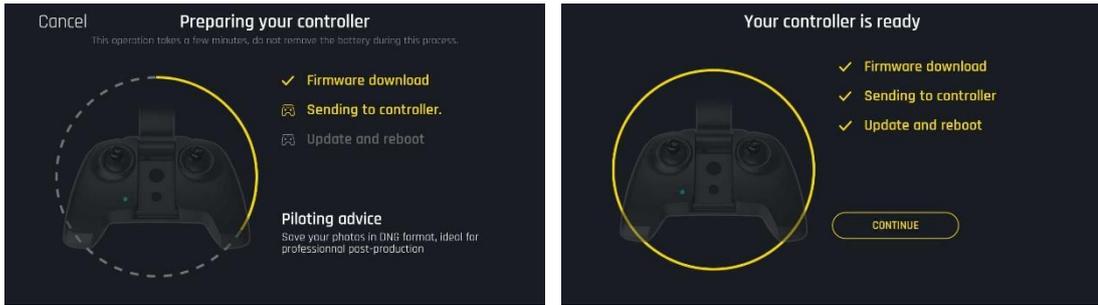
*iOS FreeFlight 6 homepage*

3. Tap the green “FLY” box on the homepage of **FreeFlight 6** to launch the initial updates. **FreeFlight 6** automatically updates the **Parrot Skycontroller 3** first, and ANAFI second.

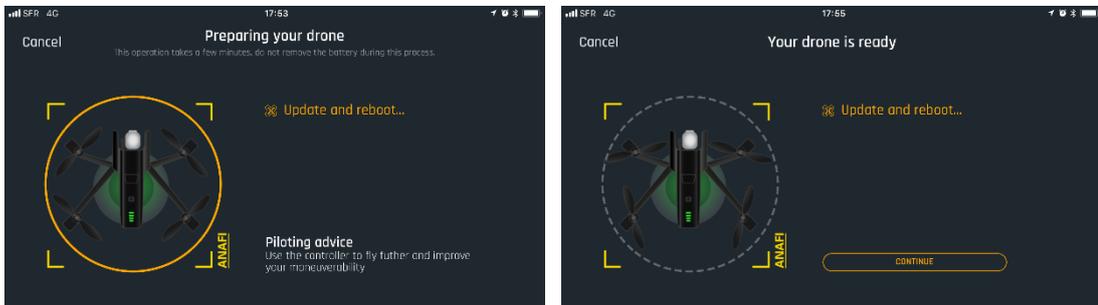


*Android FreeFlight 6 homepage*

4. **Parrot Skycontroller 3 update:** tap the green “CONTINUE” box to proceed. **FreeFlight 6** displays an animation and a progress circle on a screen labelled “Preparing your controller”. When the update is finished, the screen displays “Your controller is ready”. Tap “CONTINUE” to access the update of ANAFI (screenshots below are Android).



5. **ANAFI update: tap the green “CONTINUE” box to proceed. FreeFlight 6** displays an animation and a progress circle on a screen labelled “Preparing your drone”. When the update is finished, the screen displays “Your drone is ready” and a “CONTINUE” box. Tap this “CONTINUE” box to come back to **FreeFlight 6** homepage (screenshots below are iOS).



6. **All systems are ready for flight!**

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## FOREWORD

### About ANAFI

**ANAFI was designed and optimized to fly as is. Parrot therefore strongly discourages the use of any add-on or accessory which could be mounted on, or attached to ANAFI (motor covers, feet extensions, buoys, hulls, etc.). In addition to the overweight they carry for the drone and its motors, they can indeed magnetically disturb ANAFI and impair its communications.**

**ND filters**, however, **are not affected by this warning**: filters **can be used** on ANAFI's lens, but Parrot recommends installing them carefully, **after the drone's gimbal initialization**.

### About the Wi-Fi

**Parrot asks you to switch off your smartphone's Wi-Fi connection when flying ANAFI with both the Parrot Skycontroller 3 and your phone: with this configuration, the drone and the controller communicate through ANAFI's Wi-Fi network and activating your phone's Wi-Fi can only result in interferences.**

Therefore, your phone's Wi-Fi should **only** be activated – and connected to ANAFI's Wi-Fi network – when you want to fly the drone using your smartphone as its sole controller.

### About 4K video formats

**4K video formats are professional grade media which may not be read natively by slower computers. Shoot in 1080p or use a video converter to turn your ANAFI's 4K videos into a more manageable format (like 1080p) if they do not read properly on your equipment.** This is especially true for Parrot's 4K Cinema format, which can only be handled by professional editing equipment.

### About the smart battery

**ANAFI's smart battery is preinstalled on your drone. Always install it the same way and never attempt to install it upside down as it could expose your battery and your drone to irrecoverable electrical damage.** As you will find out by reading this guide, ANAFI's battery is smart enough to enter a wintering mode when you are not using it for ten days in a row. This also means you need to wake it up and charge it completely before you fly ANAFI for the first time.

### About auto-RTH (return home)

By design, when synchronized to GPS and Glonass satellites and when short on power, **ANAFI will always attempt to come back to its most recent take-off point, at minimal height**

over this take-off point, which is configurable through **FreeFlight 6** (between 20 meters and 100 meters) and is set by default at 30 meters.

**For this reason, Parrot recommends ANAFI pilots to take extra care when moving away from the take-off location of their drone (for example to follow ANAFI). In such cases, pilots must cancel the auto-RTH from the orange 1-minute alert which appears on the screen of their device, and keep piloting ANAFI while monitoring closely its battery level, until it runs out of power and lands.**

### About devices

In the following pages, the word "*device*" refers to the smartphone, either iOS or Android-based, on which **FreeFlight 6** is installed.

### About Parrot Cockpitglasses 3

Parrot **Cockpitglasses 3** are used for immersion flights thanks to the FPV feature of the **FreeFlight 6** app. Your Parrot **Cockpitglasses 3** must not be exposed to direct sunlight once the terminal has been inserted into the Parrot **Cockpitglasses 3**.

### About My.Parrot accounts

Parrot strongly recommends that you use your My.Parrot account (or create one if **ANAFI** is your first Parrot drone) to let Parrot store your **ANAFI** flight data. Sharing your data, even anonymously, benefits the community, as it enables us to improve our products. It also directly benefits all identifiable users in case they need to contact Parrot support teams.

## DISCLAIMER

1. **ANAFI** IS NOT A TOY and should not be used or handled by a person under the age of 14 years.
2. BEFORE USING **ANAFI**:
  - (A) CAREFULLY READ the user manual and all information and documentation available on [www.parrot.com](http://www.parrot.com), which is susceptible to be updated at any time and without prior notice (hereinafter referred to as "Parrot Documentation"). SPECIAL ATTENTION must be given to the paragraphs marked with the symbol  ;
  - (B) ENSURE YOU ARE AWARE OF THE REGULATIONS APPLICABLE TO THE USE OF DRONES AND THEIR ACCESSORIES (hereinafter referred to as "Applicable Regulations");
  - (C) REMEMBER that **ANAFI** may expose others and yourself to EQUIPMENT DAMAGE, PERSONAL INJURY, OR BOTH, which could result in serious harm or death.
3. Be aware that videos and photos that are promoted and advertised by Parrot Drones SAS and its affiliates have been made by and with experienced professionals and drone pilots. IN CASE OF DOUBT RELATING TO THE USE OF YOUR **ANAFI** DRONE AND ITS ACCESSORIES, ALWAYS REFER TO THE MOST RECENT VERSION OF THE PARROT DOCUMENTATION.
4. TO THE EXTENT PERMITTED BY APPLICABLE LAW, PARROT DRONES SAS, ITS SUBSIDIARIES, AND THEIR RESPECTIVE DISTRIBUTORS AND RETAILERS SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING FROM, OR IN CONNECTION WITH THE NON-COMPLIANCE OF PARROT WITH THE DOCUMENTATION OR THE APPLICABLE REGULATIONS BY YOURSELF OR ANY PERSON USING YOUR **ANAFI**.
5. DO NOT POINT YOUR PARROT COCKPITGLASSES 3 TOWARDS THE SUN OR ANY OTHER LIGHT SOURCES. SERIOUS EQUIPMENT DAMAGE AND/OR PERSONAL INJURY, ESPECIALLY OCULAR, MAY RESULT IF YOU DIRECT YOUR PARROT COCKPITGLASSES 3 TOWARDS THE SUN OR ANY OTHER LIGHT SOURCES
6. PLEASE READ THE FLIGHT SAFETY GUIDE included in the ANAFI FPV pack.

## ANAFI

### PACKAGE CONTENTS

#### ANAFI

Your **ANAFI** package contains:

- an **ANAFI** drone
- a smart battery, preinstalled on **ANAFI**
- a carrying case
- a lens cap
- a USB-A to USB-C charging cable
- a 16GB microSD card, preinstalled in **ANAFI**
- a microSD to SD card adapter
- a **Parrot Skycontroller 3**
- 8 spare propeller blades
- a mounting tool
- a Flight Safety Guide
- a Super Quick Start Guide (SQSG)
- a Wi-Fi settings card



## ANAFI Work

Your ANAFI **Work** package contains:

- an ANAFI drone
- a smart battery, preinstalled on ANAFI
- 3 additional batteries
- a one-year access to **Pix4Dmodel**
- a shoulder bag
- a lens cap
- 5 USB-A to USB-C charging cables
- a multiport USB charger
- a 16GB microSD card, preinstalled in ANAFI
- a microSD to SD card adapter
- a **Parrot Skycontroller 3**
- a pair of Parrot **Cockpitglasses 3**
- 8 spare propeller blades
- a mounting tool
- a Flight Safety Guide
- a Super Quick Start Guide (SQSG)
- a Wi-Fi settings card



Pix4Dmodel

Shareable 3D models from  
drone images



## ANAFI

### ANAFI Extended

Your ANAFI **Extended** package contains:

- an ANAFI drone
- a smart battery, preinstalled on ANAFI
- 2 additional batteries
- a shoulder bag
- a lens cap
- 3 USB-A to USB-C charging cables
- a 16GB microSD card, preinstalled in ANAFI
- a microSD to SD card adapter
- a **Parrot Skycontroller 3**
- 8 spare propeller blades
- a mounting tool
- a Flight Safety Guide
- a Super Quick Start Guide (SQSG)
- a Wi-Fi settings card



## TECHNICAL SPECIFICATIONS OF ANAFI

### DRONE

- Size folded: 244x67x65mm
- Size unfolded: 175x240x65mm
- Weight: 320g
- Max transmission range: 4km with Skycontroller 3
- Max flight time: 25min
- Max horizontal speed: 55km/h
- Max vertical speed: 4m/s
- Max wind resistance: 50km/h
- Service ceiling: 4,500m above sea level
- Operating temperature range: -10°C to 40°C

### DRONE SENSORS

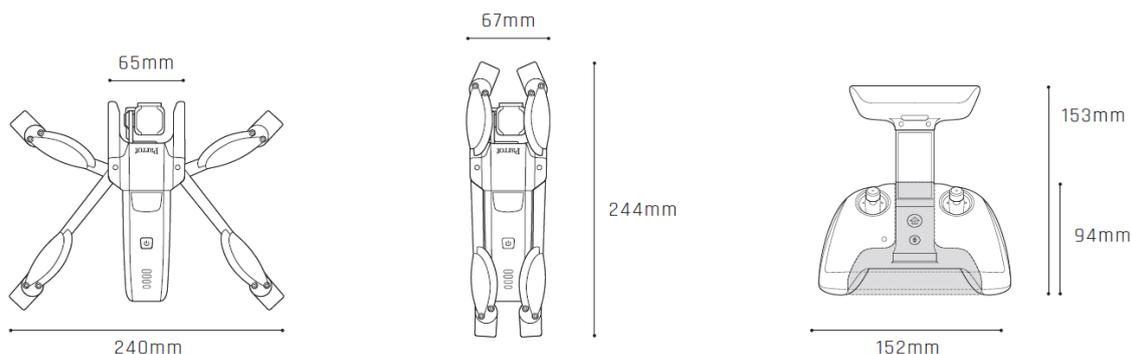
- Satellite Positioning: GPS and Glonass
- Barometer & magnetometer
- Vertical camera & ultrasound sensor
- 2x6-axis IMUs (1 for the flight, 1 for the camera):
  - 2x3-axis accelerometers
  - 2x3-axis gyroscopes

### SMART BATTERY

- Type: High density LiPo (2 cells)
- Capacity: 2,700mAh
- Flight time per charge: 25min
- Charging port: USB-C
- Weight: 126g
- Voltage: 7.6V
- Max charging power: 24W

### CONTROLLER

- Size folded: 94x152x72mm
- Size unfolded: 153x152x116mm
- Weight: 386g
- Transmission system: Wi-Fi 802.11a/b/g/n
- Operating frequencies: 2.4GHz – 5.8GHz
- Max transmission range: 4km
- Live streaming resolution: 720p (HD) 1280x720
- Battery capacity: 2,500mAh 3.6V
- Supported mobile devices: screen size up to 6.2"
- USB ports: USB-C (charge), USB-A (connection)



### IMAGING SYSTEM

- Sensor: 1/2.4" CMOS
- LD-ASPH (low dispersion aspherical) lens:
  - Aperture: f/2.4
  - 35mm format equ. focal length: 23mm
  - Depth of field: 1.5m to  $\infty$
- Electronic shutter speed: 1 to 1/10000s
- ISO range: 100 to 3200
- Video resolutions:
  - DCI 4K (cinema) 4096x2160 24fps
  - 2160p (4K UHD) 3840x2160 24/25/30fps
  - 1520p (2.7K) 2704x1520 24/25/30fps
  - 1080p (FHD) 1920x1080 24/25/30/48/50/60fps
  - 720p (HD) 1280x720 96/100/120fps
- Video horizontal field of view (HFOV): 69°
- Max video bitrate: 100Mbps
- Video format: MP4 (H.264)
- Digital zoom:
  - Lossless: up to x2.8 (FHD), up to x1.9 (2.7K), up to x1.4 (4K UHD)
  - Standard: up to x3 (all resolutions)
- HDR: 4K UHD, 2.7K and 1080p videos, JPEG photos
- Photo resolutions:
  - Wide (JPEG & DNG): 21MP (5344x4016) / 4:3 / 84° HFOV
  - Rectilinear (JPEG): 16MP (4608x3456) / 4:3 / 75.5° HFOV
- Photo modes:
  - Single, Burst, Bracketing, Timer and Panorama (5 formats)

### IMAGE STABILIZATION

- 3-axis hybrid stabilization:
  - Mechanical: 2-axis (roll & pitch)
  - Electronic (EIS): 3-axis (roll, pitch & yaw)
- Controllable tilt range: -90° to +90° (nadir to zenith)

## ANAFI

### ANAFI FPV PACKAGE CONTENTS

#### ANAFI FPV

Your **ANAFI FPV** package contains:

- an **ANAFI** drone
- a smart battery, preinstalled on **ANAFI**
- a backpack
- a lens cap
- a USB-A to USB-C charging cable
- a 16GB microSD card, preinstalled in **ANAFI**
- a microSD to SD card adapter
- a **Parrot Skycontroller 3**
- a set of **Parrot Cockitglasses 3**
- 8 spare propeller blades
- a mounting tool
- a Flight Safety Guide
- a Super Quick Start Guide (SQSG)



## TECHNICAL SPECIFICATIONS OF ANAFI FPV

### ANAFI FPV

- Weight: 315g
- Maximum transmission distance: 2.5miles (4km) with the Parrot Skycontroller 3
- Maximum flight time: 26min
- Maximum horizontal speed: 34mph (55 km/h)
- Maximum vertical speed: 9mph (14.5 km/h)
- Maximum wind resistance: 31mph (50 km/h)
- Maximum working altitude: 4,500m above sea level
- Operating temperature: from -10°C to 40°C

### DIMENSIONS:

- Folded: 218x69x64mm
- Unfolded: 241x315x64mm

### SENSORS:

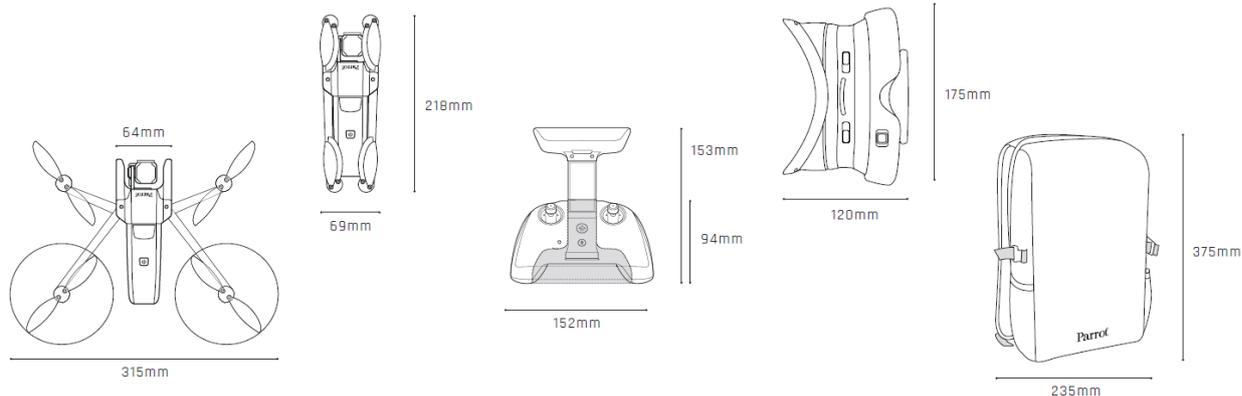
- GNSS: GPS + GLONASS
- Barometer and magnetometer
- Vertical camera and ultrasound sensor
- 2x6-axis IMU
- 2x3-axes accelerometer
- 2x3-axes gyroscope

### IMAGING SYSTEM

- Sensor: CMOS 1/2.4", 21MP
- Video format: MP4 (H264)
- HDR: 4K UHD, 2.7K et 1080p videos, JPEG photos
- Photo formats: JPEG, DNG(RAW)
- Photo modes: single, burst, bracketing, timer and panorama
- Shutter speed: from 1 to 1/10000s
- ISO: from 100 to 3200
- EV compensation: [-3, +3]
- Maximum video sampling rate: 100Mbps

### LD-ASPH LENS:

- f/2.4 aperture
- Depth of focus: 26mm (35mm equivalent)
- Depth of field: 1.5m to infinity



### DIGITAL ZOOM:

- Lossless: up to x2.8 (FHD), up to x1.9 (2.7K), up to x1.4 (4K UHD)
- Standard: up to x3 (all resolutions)

### PHOTO RESOLUTION :

- Wide angle: 21MP (5344x4016) / 4:3 / 84° HFOV
- Rectilinear: 16MP (4608x3456) / 4:3 / 75.5° HFOV

### VIDEO RESOLUTION :

- 4K Cinema (4096x2160 24fps)
- 4K UHD (3840x2160 24/25/30fps)
- FHD (1920x1080 24/25/30/48/50/60fps)
- HD (1280x720 48/50/60fps)
- HFOV video: 69° - Sensor: 1/2.4" CMOS

### PARROT SKYCONTROLLER 3

- Folded size: 94x152x72mm
- Unfolded size: 153x152x116mm
- Weight: 283g
- Transmission system: Wi-Fi 802.11a/b/g/n
- Operating frequency: 2.4 - 5.8 GHz
- Max. transmission distance. : 4km
- Resolution of the video return: HD 720p
- Battery capacity: 2500 mAh 3.6V
- Battery life: 2h30 (Android) / 5h30 (iOS)
- Compatible mobile devices: Screen size up to 6.5"
- USB ports: USB-C (Charge), USB-A (Connection)

### PARROT COCKPITGLASSES 3

- Folded: 96x179x41mm
- Unfolded: 94x175x120mm
- Weight: 213g
- Compatible mobile devices: Screen size up to 6.5"

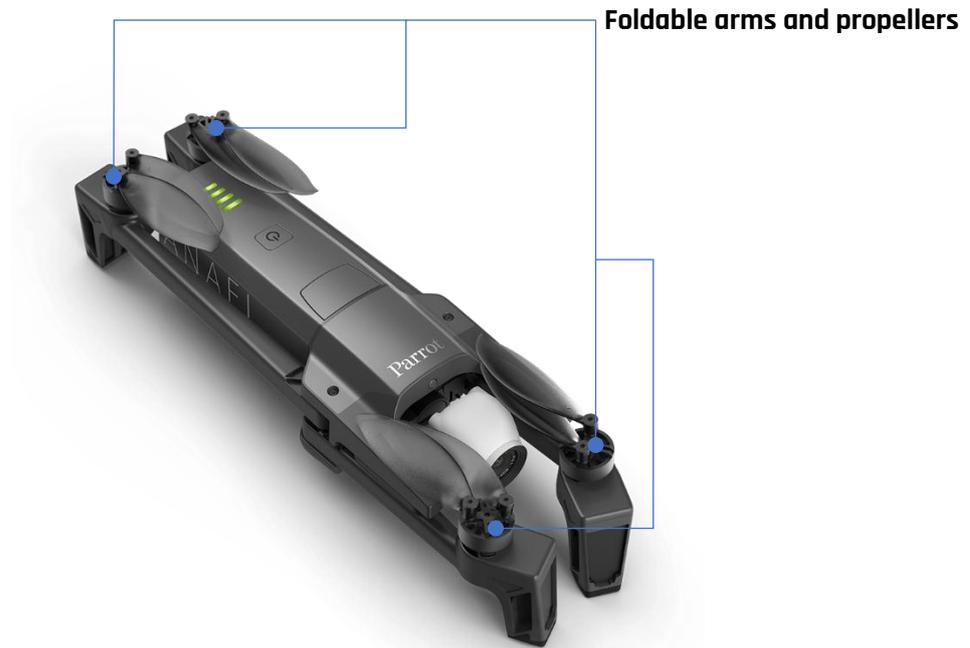
### BACKPACK

- Size: 375x235x120mm
- Carrying capacity:

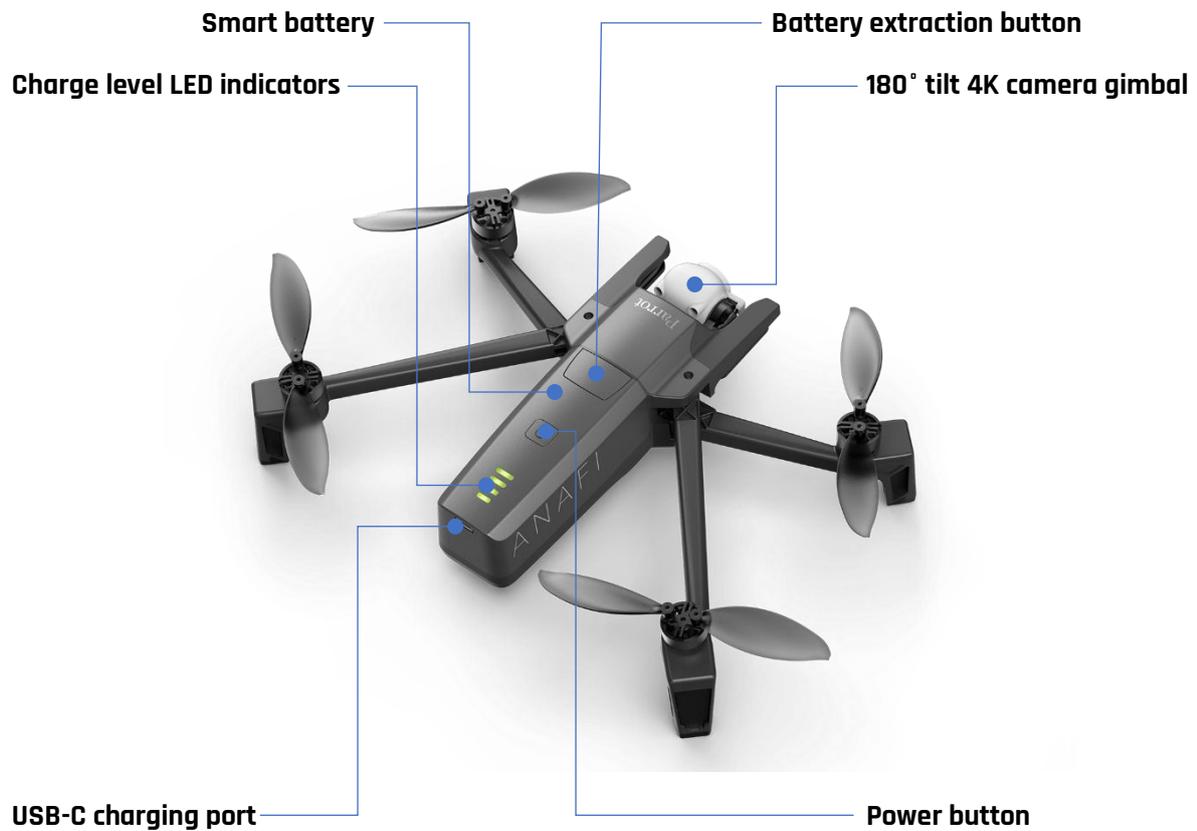
# ANAFI

## PRESENTATION OF ANAFI

### Ready to store or carry



### Ready to fly



## PRESENTATION OF PARROT SKYCONTROLLER 3

### Ready to store or carry

Left control stick

Right control stick



Power-on foldable arm and device holder

### Ready to pilot

LED status indicator

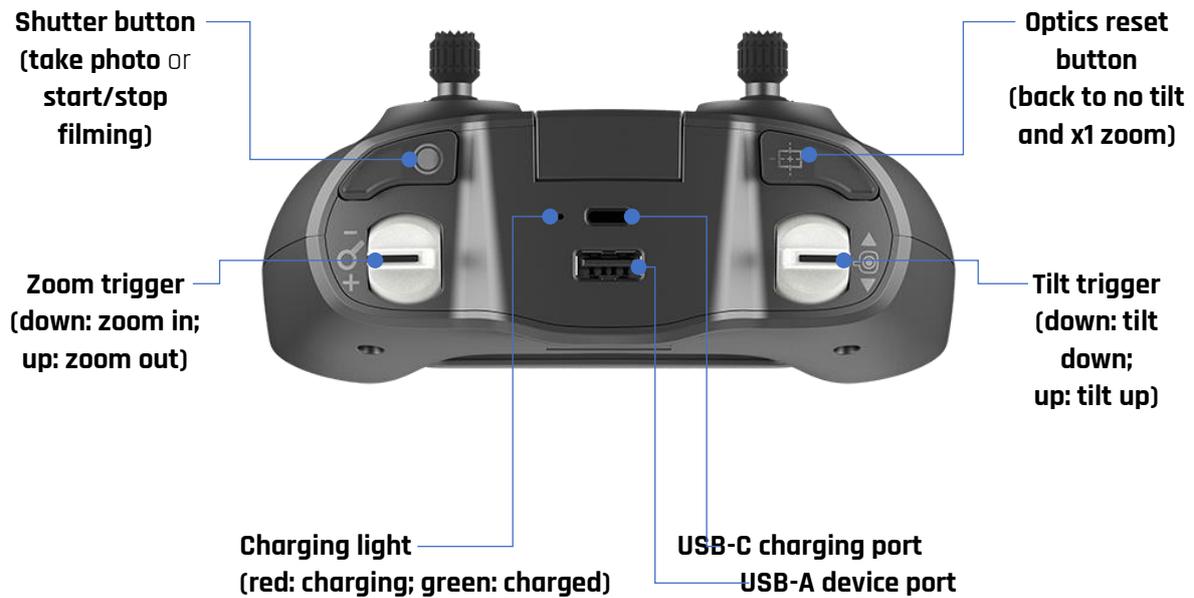
Wi-Fi antenna



RTH (return home) button

Take-off/landing button

## Camera and gimbal controls

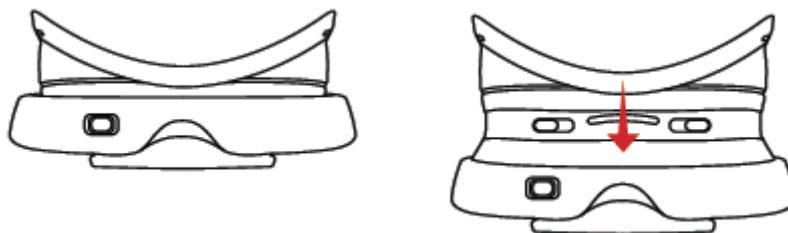


## LED status indicator color codes

When the **Parrot Skycontroller 3** is powered on, its LED status indicator gives you an instant visual indication:

- flashing green:
  - alternating light blue and dark blue:
  - flashing light blue:
  - steady dark blue:
  - alternating purple and dark blue:
  - alternating red and any other color:
- Skycontroller 3** update in progress;  
connecting to **ANAFI**;  
no drone configured or wrong WPA key;  
connected to **ANAFI**;  
autonomous flight in progress;  
low battery alert (**ANAFI**, **Skycontroller 3**,  
or both) or RTH alert.

## PRESENTATION OF PARROT COCKPITGLASSES 3



*Parrot Cockpitglasses 3: Ready to go and ready to fly*

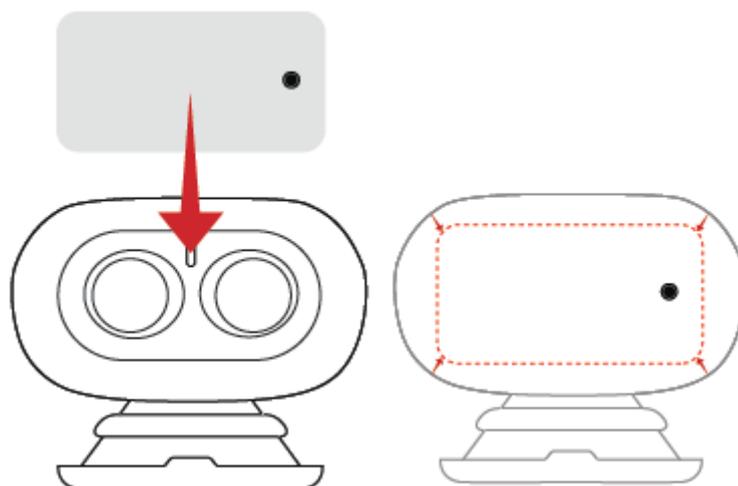
Connect the USB cable between the terminal and the Parrot **Skycontroller 3**.

Launch FPV mode by touching the FPV tile.

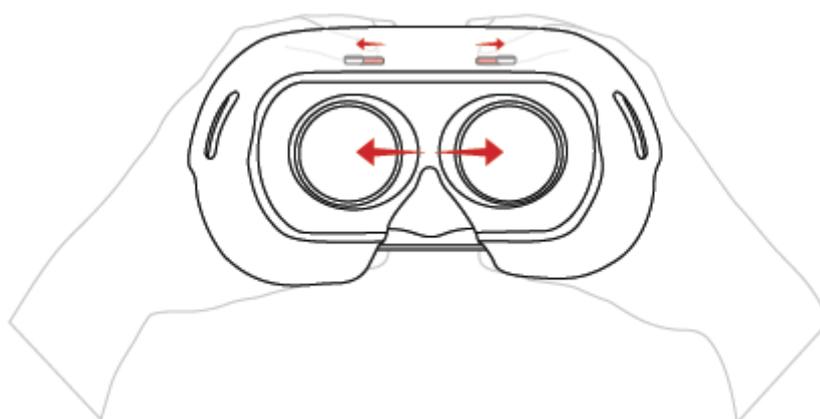
Unfold the **Parrot Cockpitglasses 3** into their "Ready to Fly" position.

Open the removable flap on the front of the Parrot **Cockpitglasses 3**.

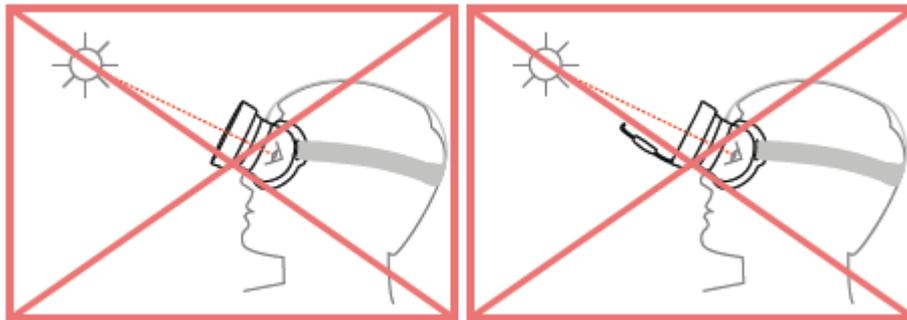
Place your terminal at the centre point of the height and length of the Parrot **Cockpitglasses 3**.



Close the removable flap and adjust the distance between the lenses relative to your view as follows:



1. It is important to note that the maximum size of the terminal to use with the Parrot **Cockpitglasses 3** is 6.5 inches (6.5").
2. Adjust the shoulder strap of the **Parrot Cockpitglasses 3** before putting them on to ensure safe flying.
3. Make sure the lenses are at your eye level by adjusting the position of the **Parrot Cockpitglasses 3** on your nose.
4. YOU SHOULD NOT POINT YOUR **PARROT COCKPITGLASSES 3** TOWARDS THE SUN OR ANY OTHER LIGHT SOURCES. SERIOUS EQUIPMENT DAMAGE AND/OR PERSONAL INJURY, ESPECIALLY OCULAR, MAY RESULT IF YOU DIRECT YOUR **PARROT COCKPITGLASSES 3** TOWARDS THE SUN OR ANY OTHER LIGHT SOURCES.



## PRE-FLIGHT CHECKLIST

### Equipment

- **Make sure you have downloaded the latest version of FreeFlight 6 and that both your Parrot Skycontroller 3 and your ANAFI have been updated with the latest versions of firmware.**
- **For the ultimate ANAFI experience, make sure you have the right USB-A cable to connect your Parrot Skycontroller 3 and your device.**
- **Make sure ANAFI is fitted with a microSD card with enough free memory space.**
- Make sure all four foldable arms of ANAFI are unfolded.
- Make sure its propellers are clean, intact and unobstructed.
- Make sure both ANAFI's and **Parrot Skycontroller 3's** batteries are fully charged.
- Make sure ANAFI's battery is securely installed on the drone's body.
- Make sure the lens cap has been removed from ANAFI's camera.
- Make sure ANAFI's lens is clean - if you need to clean it, hold the gimbal between two fingers so that you do not pressure its mechanism when you clean the lens, and gently wipe the lens with a microfiber cloth.

### Regulations

- Make sure the use of ANAFI is allowed where you are intending to fly.
- Check for potential restrictions regarding the use of Wi-Fi frequencies in the area where you are intending to fly.

### Flight conditions

- Check that your flying zone is safe and clear.
- Do not fly ANAFI at night.
- Do not fly ANAFI over urban areas or over restricted airspaces such as airports, train stations, power plants, national reserves, and so on.
- Check the weather: do not fly ANAFI in the rain, fog, snow, or in a wind exceeding 14 meters per second or 50 km/h.
- **Due to the operating mode of its vertical camera and ultrasound sensor, Parrot recommends you do not fly ANAFI over water and other reflective surfaces (mirrors, glass, and so on).**

## GETTING STARTED

1. Charge the battery using the enclosed USB-A to USB-C cable and a USB-A power adapter (not included in the box, except for **ANAFI Work**). Charging times depend on the supply capacity of the adapter. Refer to the *"Battery charging"* section of this guide for additional information. **Parrot recommends you always run a full charge of your smart battery before flying ANAFI.**
2. If you want to use the controller and enjoy the full **ANAFI** experience, charge **Parrot Skycontroller 3**.
3. Check that your flying zone is safe and clear.
4. To start the drone, place it on a flat horizontal surface and press the power button.
5. **a) If you use Parrot Skycontroller 3**, unfold the central part of the controller to power it on, wait for the steady dark blue light, then plug your device to the controller using a USB cable. **Parrot recommends you always fly ANAFI with Parrot Skycontroller 3 and a device, for the best flight experience.**  
**b) If you do not wish to use the controller**, connect your device to the Wi-Fi network of **ANAFI**, using the Wi-Fi settings card located inside the drone's carrying case - SSID format: Anafi-xxxxx.
6. **FreeFlight 6** runs automatically on your device and connects to **ANAFI** and to **Parrot Skycontroller 3**.
7. Check for controller and drone software updates.
8. Calibrate your **ANAFI**, your **Parrot Skycontroller 3**, or both, if required, following the instructions on the screen of your device.
9. If you use Parrot **Cockpitglasses 3** in FPV mode:
  - a) unfold the glasses by carefully pulling from the back, then open the removable plastic part at the front of the glasses,
  - b) launch FPV mode via the FreeFlight 6 app by touching the **"FPV"** text box,
  - c) install the terminal in the glasses, adjust the terminal so that the black band separating the two screens of the terminal is aligned with the vertical separation part of the **Parrot Cockpitglasses 3**, and close the removable front section.
10. Check that your flying zone is still safe and clear, and that no one (people, animal) has approached or is approaching **ANAFI**.
11. Stay at least 2m (6ft) clear from the drone, press the  button and enjoy the flight!

## TAKING OFF

### Ground take-off

Position **ANAFI** on a flat, even, and clear surface.

Power it on, move at least 2m (6ft) away from **ANAFI** and check that the surroundings of the drone are absolutely clear.

Press the  button on your **Parrot Skycontroller 3**, or tap the green "TAKE-OFF" box, on the screen of your device.

**ANAFI** takes off and stabilizes at 1m (3ft) from the ground, waiting for commands from the pilot.

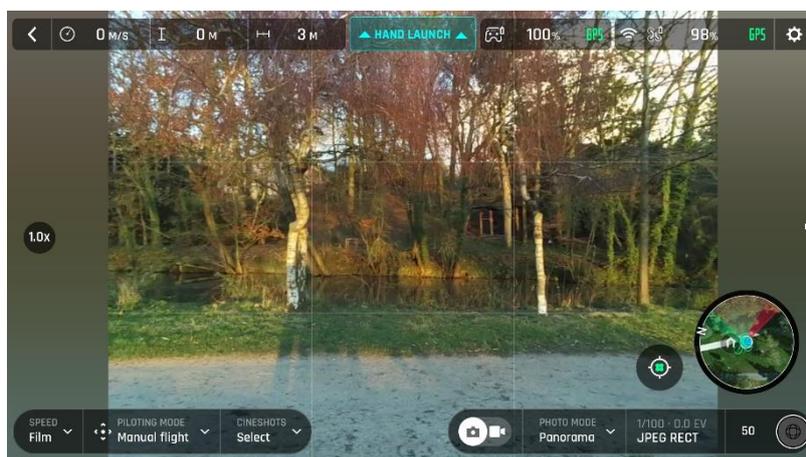
### Hand launch

-  **Be especially careful when you hand launch ANAFI. This procedure is safe provided you are not distracted or startled by an outside event with a live drone in your hand: concentrate on what you are doing, but always stay aware of your surroundings.**

**Upon first opening of FreeFlight 6, from version 6.2, a hand launch tutorial reminds you the following procedure. You can activate hand launch from this tutorial page.**

You can also activate the hand launch option from the "Interface" menu of **FreeFlight 6 "PREFERENCES"** (refer to the "PREFERENCES - Interface" section of this guide for further information).

Power **ANAFI** on and position the drone on your flat, open hand. On the screen of your device, the green "TAKE-OFF" box is replaced by a blue "HAND LAUNCH" box.



*iOS "Hand Launch" Screen*

Press the  button on your **Parrot Skycontroller 3**, or tap the blue "HAND LAUNCH" box on the screen of your device. The drone's blades start rotating slowly and the screen of your device displays a hand-launch animation.

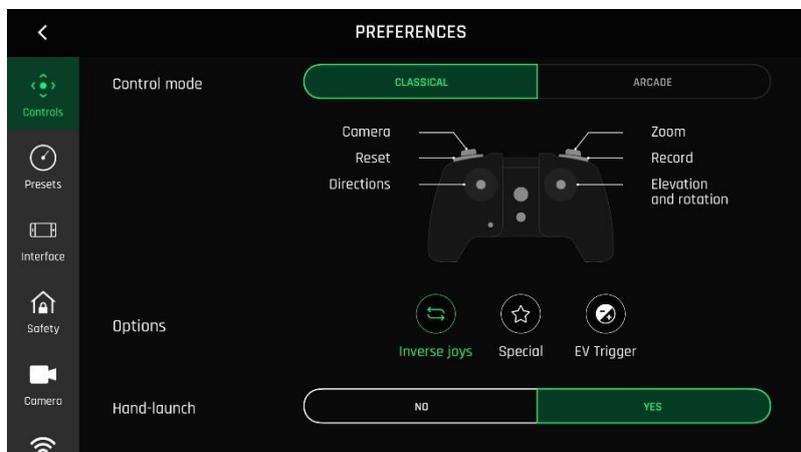
**Briefly and briskly lift ANAFI up and forward with your open hand.** **ANAFI** is airborne. It stabilizes, waiting for commands from the pilot.

FLYING

Left control stick (default mode)	Right control stick (default mode)
 <p>Rise</p>	 <p>Forward</p>
 <p>Descend</p>	 <p>Reverse</p>
 <p>Turn right</p>	 <p>Move to the right</p>
 <p>Turn left</p>	 <p>Move to the left</p>

However, you can also:

- modify the actions of the joystick via the control preferences (refer to the "PREFERENCES - Controls" section in this guide).



*Inversion of the joysticks by selecting the option*

- use the **Arcade control mode** (only if ANAFI has already taken off) which uses different mapping (refer to the "CONTROLS - Arcade Mode" section of this guide).

## RETURNING HOME

To bring **ANAFI** back to its take-off position, press the  button on your **Parrot Skycontroller 3**, or tap the  icon on the screen of your device.

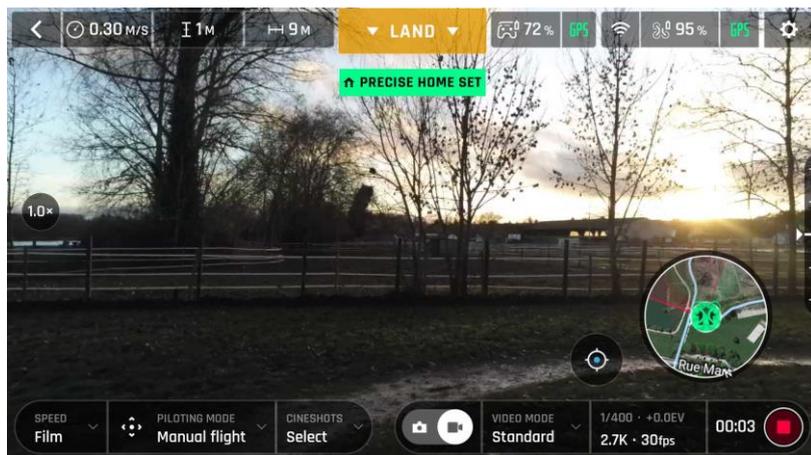
**ANAFI** rises to 30 meters over its take-off point – or to the altitude you have set, through **FreeFlight 6**, between 20 and 100 meters – and flies back over its take-off position.

Refer to the “*PREFERENCES - Safety*” section of this guide for instructions on RTH height configuration.

In the Follow Me mode (in-app purchase), when the  button or icon is activated, **ANAFI** flies back to the position of the pilot.

## Precise Home Setting

When flight conditions are optimal at take-off, **ANAFI** can set a “precise home” for itself, through its vertical camera. In that case, a pop-up on the screen of **FreeFlight 6** confirms a precise home has been set, and the home icon of the mini-map turns green.



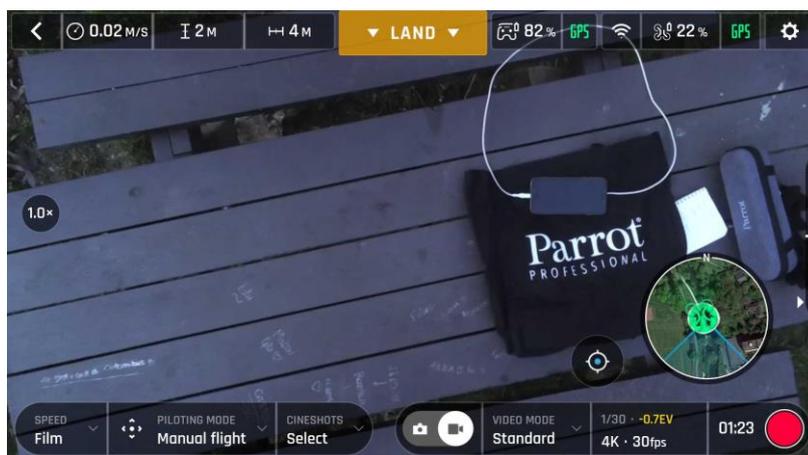
*Android “Precise Home Set” pop-up*

## SMART RTH

**ANAFI** features a Smart RTH capability: considering its altitude and its distance from its take-off point, the drone computes in real time the power it needs to return home. When short on battery power, **FreeFlight 6** alerts you that it will enter automatic RTH mode.

If you feel confident you can bring **ANAFI** back to its take-off point or if you wish to land it at a different location, you can cancel the auto-RTH directly from the alert pop-up.

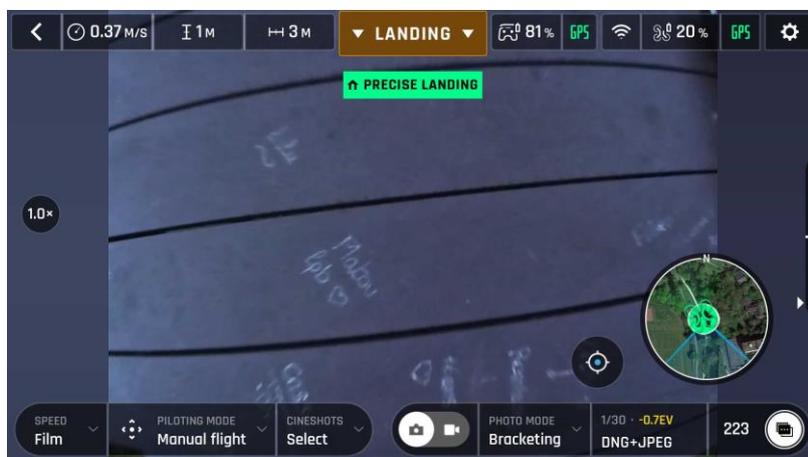
## LANDING



*Setting up for landing*

Fly ANAFI directly over a flat, even, and clear surface, then press the  button, or tap the orange "LAND" box on the screen of your device.

ANAFI lands.



*Precise Landing*

## SMART LIPO BATTERY

**ANAFI's smart LiPo battery is preinstalled on the drone and should always be reinstalled in the same way, with the LEDs and power button facing up, to avoid irrecoverable electric damage to the battery, to the drone, or to both.**

**The smart battery can be charged whether it is installed on ANAFI, or not. However, you will need to remove the battery from the drone to access your microSD card. Refer to the "Retrieving media" section of this guide for further information.**

- ⚠ **When handling ANAFI, you should never apply pressure and generally avoid touching the drone's camera and gimbal - its most sensitive parts. The following directions will help you handle your drone and battery safely.**

### Battery removal

**To remove the smart battery** from the drone, unfold the back arms of ANAFI. Set the drone on a flat and even surface (such as a table), and press the push-button which connects the battery to the body of the drone with your thumb. Gently slide your thumb and the battery toward the back of ANAFI. When the hook of the push-button is disengaged from the body of the drone, lift the battery away from ANAFI.



*ANAFI: battery removal*

### Battery installation

**To install the smart battery back on the drone**, unfold the back arms of ANAFI. Set the drone on a flat and even surface (such as a table), and position the battery's three hooks into the drone's corresponding slots. Place your middle finger on the Parrot logo of ANAFI and your thumb on the back of the smart battery. Squeeze your fingers together until you feel and hear the battery clicking into the body of the drone. You are set!



*ANAFI: battery installation*

## Battery charging

**To charge ANAFI's smart LiPo battery**, use the enclosed USB-A to USB-C cable to plug the battery to a power source. This convenient cable enables you to charge your battery from:

- a wall socket, through an AC adapter (not included in the box, except for **ANAFI Work**);
- a tabletop or laptop computer's USB-A port;
- a power bank's USB-A port.

Indicative **full charging times** depending on power sources are as follows (at 20°C):

- AC adapter (5V - 3A): between 150 and 210 minutes;
- a computer's or power bank's USB-A port: between 270 and 320 minutes.

**ANAFI's smart battery can also be recharged through a Power Delivery adapter or charger (USB-PD standard), using a USB-C to USB-C cable (not included in the box). In that configuration, full charging time of the battery can be reduced to 105 minutes.**

- ⚠ **About USB-PD power banks: Parrot does not recommend ANAFI users to invest in a USB-PD power bank**, as not all of them support USB-C to USB-C charging of ANAFI's battery. Indeed, due to the nature of the USB-C technology, some USB-PD power banks recharge on ANAFI's smart battery, rather than the other way around.

When ANAFI's smart LiPo battery is plugged to a power source and charging, **its 4 LEDs indicate in real time its level of charge:**

- LED 1 flashing: battery is between 0 and 25% charged;
- LED 1 steady & LED 2 flashing: battery is between 25 and 50% charged;
- LEDs 1 and 2 steady & LED 3 flashing: battery is between 50 and 75% charged;
- LEDs 1, 2 and 3 steady & LED 4 flashing: battery is between 75 and 100% charged;
- battery is plugged and all LEDs are off: battery is full.

Similarly, when **your battery is not installed on ANAFI**, you can check its charge level at any time by pressing its power button:

## ANAFI

- 1 steady LED lights up: battery is between 0 and 25% charged;
- 2 steady LEDs light up: battery is between 25 and 50% charged;
- 3 steady LEDs light up: battery is between 50 and 75% charged;
- 4 steady LEDs light up: battery is between 75 and 100% charged.

Finally, the same logic applies when **the smart LiPo battery is installed on the drone and when ANAFI is powered on**. The number of steady LEDs enables you to estimate your remaining flying time:

- 1 steady LED is lit up: less than 6 minutes flying time remaining;
- 2 steady LEDs are lit up: between 6 and 12 minutes flying time remaining;
- 3 steady LEDs are lit up: between 12 and 18 minutes flying time remaining;
- 4 steady LEDs are lit up: between 18 and 25 minutes flying time remaining.

### Battery care and safety

**As you can see, ANAFI's smart LiPo battery is as high-tech as any other element of your flying 4K HDR camera.**

**Its firmware can be updated, like that of the drone and that of the controller, and it even features a wintering mode, designed to increase its durability and facilitate its care.** Ideally, when not in use for a prolonged period, batteries should be stored half-charged. When not in use for 10 days, ANAFI's smart battery discharges itself, if required, to 65% charge, over a 48h period. In other words, after a maximum of 12 days without use, this smart battery enters hibernation with a charge level which never exceeds 65%. If you leave your ANAFI battery for 12 days, you will find out its power button does not activate the charge level LED indicators. **The battery needs to be charged to exit the wintering mode and start operating as described in the earlier paragraphs: this behavior preserves the battery over time. Parrot recommends you always run a full charge of your smart battery before flying ANAFI.**

Like all other LiPo batteries, ANAFI's smart battery must be handled, transported and stored with care:

- never leave a battery unattended while charging;
- never expose a battery to extreme temperatures, neither hot, nor cold;
- never charge a battery which is still warm from use (wait for at least 20 minutes);
- never use or recharge a damaged or swollen battery;
- always store your battery in a dry, ventilated place, at a temperature close to 20°C;
- always carry your battery in a fire-retardant bag or case (unless it is installed on ANAFI: it can then be transported with the drone, inside its carrying case).

Finally, note that ANAFI's smart battery will only allow charge in ambient temperatures between +10°C and +45°C, and that using ANAFI in temperatures approaching 0°C will

reduce its flying time. To minimize this slight drop in the smart battery's capacity, keep your battery as warm as possible before starting a flight in a cold environment.

- ⚠ **If the behavior of your battery is not consistent with the elements contained in this section, and if you cannot get it to power your ANAFI, you must hard reset your battery: plug it to a power source with the enclosed cable, then keep the battery's power button pressed for 15 seconds (regardless of the behavior of the LEDs), and release the button.**

**The battery's LEDs flash quickly, one after the other, alternating green and red: the hard reset is successful!**

## MEDIA RETRIEVAL

**Your ANAFI is equipped with a 16GB microSD card which enables you to record videos and photos, and to transfer them easily to your computer. This section explains how to extract the microSD card from ANAFI, how to retrieve your media from the microSD card, and how to reinstall it in the drone.**

### Extracting the microSD card

**To extract the microSD card from ANAFI**, the battery must be removed from the drone. Refer to the *"Battery removal"* section of this guide for details.

When you remove the battery from the body of the drone, you uncover the microSD slot, which is protected by a small metal lock.

**Slide this metal lock with a finger toward the back of ANAFI to open it** – you will feel a slight click. Lift the front part of the lock to open the slot. Reach the microSD card and extract it. An open lock icon and an arrow, located on the left of the microSD slot, confirm to you the way you must slide the lock to open it.

### Retrieving photos and videos

**Use the enclosed microSD to SD card adapter** to transfer videos and photos you have taken with ANAFI to your computer. Slide the microSD card into the adapter and use the adapter how you would use any other SD card: access your videos and photos through a card reader or the SD card slot of your computer. Copy your videos and photos to the hard drive of your computer to edit, store, and manage your media.

- ⚠ **The enclosed 16GB microSD card enables you to record just over 20 minutes of 4K video. For this reason, Parrot recommends you backup your photos and videos, and you empty your 16GB microSD card after each flight, to ensure you always have available memory space to capture new still or moving images.**

### Installing the microSD card

**To install the microSD card back into its slot**, open the metal lock as you did when you extracted the card from ANAFI. Position the microSD card into its keyed slot: make sure the metal contacts of the card are facing down and set on the contacts of the drone. The shortest side of the microSD card should be facing toward the back of the drone.

**Tilt the metal lock over the microSD card. Press a finger gently on the lock and slide it toward the front of ANAFI to close and lock it** – you will feel a slight click. A closed lock icon and an arrow, located on the right of the microSD slot, confirm to you the way you must slide the lock to close it.

## Compatible microSD cards

Refer to Parrot online documentation for an updated list of ANAFI compatible microSD cards.

## Direct media retrieval (drone to computer)

You can also retrieve your media directly from ANAFI, without extracting the microSD card.

Use the enclosed USB-A to USB-C cable to connect the drone (USB-C) to a USB-A port of your computer. Power ANAFI on.

ANAFI mounts as any other external drive: copy your media from the DCIM/100MEDIA directory to your computer's hard drive.

When you are done managing your media, eject ANAFI as any other external drive.

- ⚠ **When plugged in to a computer and powered on, ANAFI's battery discharges itself. This means you must recharge your smart battery after you have retrieved your media, even if it was fully charged when you began the procedure.**

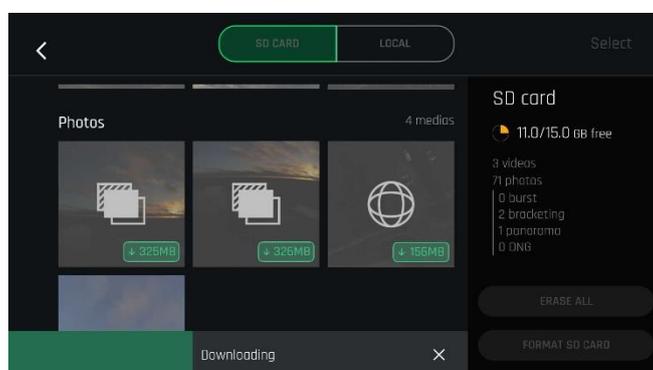
## FreeFlight 6 Gallery

Finally, you can manage your media and download them directly from ANAFI to your device with the Gallery of FreeFlight 6.

**Access the Gallery** from the homepage of **FreeFlight 6**, either by **tapping the "microSD card" box**, on the top bar of the interface, or by **tapping the "Gallery" box**, at the center of the interface.

As you can see from the screen capture below, the **FreeFlight 6** Gallery displays the microSD card media, by default. **Tap any green media download box to transfer the corresponding media to your device.**

Access the media you have downloaded to your device by tapping the "Local" box, at the top of the interface. It is also possible to view the media without having downloaded it directly from the gallery of the microSD card so that only the media that you want to view and/or store in memory is selected.



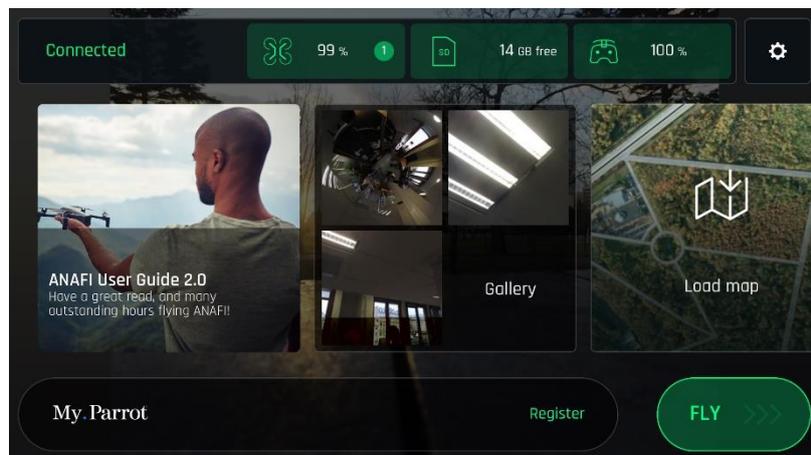
*FreeFlight 6 Gallery*

## INTRODUCING FreeFlight 6

The HUD (head-up display) interface of FreeFlight 6 is the ultimate companion to ANAFI. It enables you to access all the outstanding features of ANAFI, from the screen of your device, at the touch of your thumbs.

This section explores FreeFlight 6 functions, starting with a presentation of the top and bottom bars of the HUD (iOS and Android).

Access the HUD by tapping “FLY” on the bottom right of the homepage of **FreeFlight 6**.



*FreeFlight 6 homepage*

## Presentation of the HUD (video mode view)



ANAFI and **FreeFlight 6** are packed with features which are accessible from the HUD. Before we present the "PREFERENCES" menu of **FreeFlight 6**, here is an overview of your drone's current piloting, Cineshots, Dronies, and video modes.

**Piloting modes:**

- Manual flight
- Cameraman
- Follow Me (in-app purchase)
- SmartDronies
- FPV
- Touch & Fly: Waypoint & POI
- Flight Plan (in-app purchase)

**Video modes:**

- Standard
- Cinema
- Hyperlapse
- High-Framerate
- Slow Motion

**Cineshots:**

- 360° (left & right)
- Reveal (30 & 60m)
- Spiral (30 & 60m)
- Epic (30 & 60m)

**SmartDronies**

- Orbit
- Parabola

**POI Dronies**

- Dolly Zoom
- Boomerang

**Follow Me** (in-app purchase)

- Orbit
- Parabola
- Tornado

**Dronies**

- Boomerang

## ANAFI

The Android HUD of **FreeFlight 6** displays strictly the same information, buttons, toggles, and menus as the iOS HUD, in the same way – despite slight cosmetic differences.

Note that both GPS icons are green, on both screen captures (iOS and Android screen presentations). This means that the drone's controller (**Skycontroller 3** or device) and ANAFI are both synchronized to enough GPS and Glonass satellites to optimize the stability of the drone, especially at higher altitudes.

Parrot therefore recommends you always check both your FreeFlight 6 HUD's GPS icons are green (and not red), before you make your ANAFI take off.

The Minimalist HUD for Video Mode can be obtained with a simple pinch + zoom motion on the terminal screen as shown by the icon below:



Minimalist HUD: Pinch + zoom

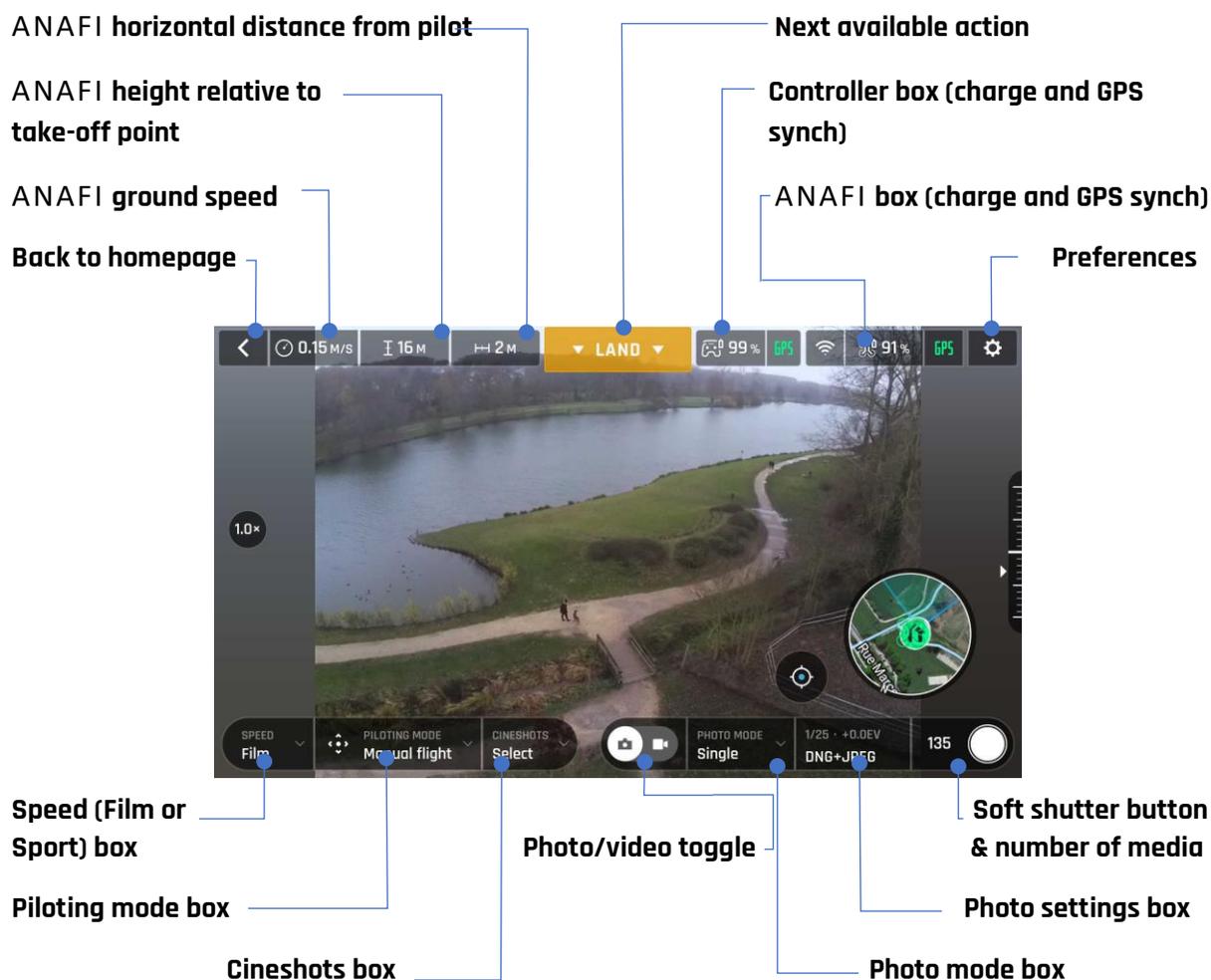
The Minimalist HUD consists of a full screen view without any of the following instructions or information appearing:



Minimalist HUD

However, the user will see the zoom on the screen (if it is being modified), the photo or video recording (when in progress), alerts (if there are any), the inclination of the camera (if it is being modified), the various labels. In other words, all the information required for a completely safe flight.

### Presentation of the HUD (photo mode view)



**ANAFI's photo modes include a Single shot mode, a Burst mode, a Bracketing mode, a Timer mode, a Panorama mode, a Timelapse mode and a GPS lapse mode.**

The Android HUD of **FreeFlight 6** displays strictly the same information, buttons, toggles, and menus as the iOS HUD, in the same way – despite slight cosmetic differences.

⚠ Note that both GPS icons are green, on both screen captures (iOS and Android screen presentations). This means that the drone's controller (Skycontroller 3 or device) and ANAFI are both synchronized to enough GPS and Glonass satellites to optimize the stability of the drone, especially at higher altitudes.

Parrot therefore recommends you always check both your FreeFlight 6 HUD's GPS icons are green (and not red), before you make your ANAFI take off.

The Minimalist HUD for Photo mode can be achieved with a simple pinch + zoom motion (refer to the "HUD Presentation (Video Mode)" section).

## Presentation of the FPV HUD

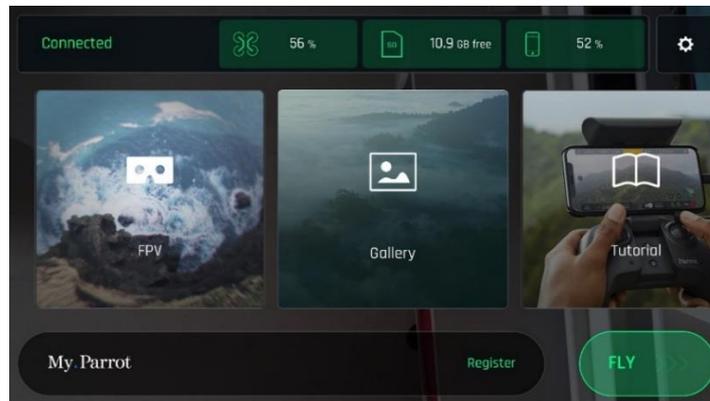
The user can access the FPV HUD in two ways:

- either via the "Piloting modes" text box



Piloting modes

- or via the FPV tile on the home page



Homepage - HUD FPV

NB: **FreeFlight 6** mode must be started before inserting the terminal into the **Parrot Cockpitglasses 3**. HUD FPV is accessible if the **Parrot Skycontroller 3** is connected to the terminal via a USB cable.

The main screen is split into two identical half-screens as follows:



HUD FPV: Separate view

The user must then insert the terminal into the **Parrot Cockpitglasses 3** following the recommendations given in the "Presentation of the PARROT COCKPITGLASSES 3" chapter.

The radar indicates the position of your drone, the orientation of the user with respect to your drone and the orientation of your drone . The telemetry information is identical to that of Classic mode (namely speed, altitude and distance).

Information about the **Parrot Skycontroller 3**'s battery, the GPS connection, the Wi-Fi connection, your drone's battery percentage, your drone's GPS connection and the battery percentage of the terminal are also displayed.

The Image section shows whether the user is in photo or video mode, the recording status, remaining photo/video time, resolution and FPS.

**Parrot Cockpitglasses 3** are equipped with 2 buttons enabling you to carry out the following actions:

- access the settings by pressing the top button.
- access SeeThrough mode by pressing the bottom button.

For more details, refer to the "PILOTING MODES - FPV" section of this guide.

## PREFERENCES

Access **FreeFlight 6** preferences through the icon on the extreme right of the top bar of the homepage, or that of the HUD. Preferences enable you to fine-tune **ANAFI** to your hand – to customize it, to fit your piloting and filming styles.

Access **Preferences** submenus from the boxes on the left of the screen. Tap a box to select it and access its items.

For all items, **default values (DV)** are marked in **bold characters**.

### Controls

The control preferences set the way your controller behaves. It also enables you to activate the “Hand-launch” option.

- Control mode: **Classic** / Arcade (available only while flying)
- Inverse joys **OFF** (white) / ON (green)
- Special **OFF** (white) / ON (green)
- EV Trigger **OFF** (white) / ON (green)
- Hand-launch NO / **YES**

The EV Trigger, if selected, allows the user to control the EV directly from the Parrot Skycontroller 3. The zoom trigger (see the "PARROT SKYCONTROLLER 3 PRESENTATION - Camera and Platform Control" paragraph) then becomes the EV trigger. The user can manually modify the EV (with values between -3.0 and +3.0, in increments of 0.3), which will automatically change the shutter speed(s) between 1/100 and 1/25.

Touch "Reset Controls Settings" to restore the default values for this menu.

### Presets

Preset preferences allow you to adapt the flight behaviour of ANAFI, for each preset (“Film”, “Sport”, “Cinematic” or “Racing”).

For each item, drag the cursor to select a value - or touch your preferred option to select it.

- Global reactivity 1 % to 100 % (DV: **Film, 15%; Sport, 20%; Cinematic, 15%; Racing, 30%**)
- Horizon Fixed / Dynamic (DV: **Film, Fixed; Sport, Fixed; Cinematic, Dynamic; Racing, Dynamic**)
- Camera tilt speed 1°/s to 180°/s (DV: **Film, 10°/s; Sport, 20°/s; Cinematic, 10°/s; Racing, 20°/s**)

- Banked turn NO / YES (DV: **Film, YES; Sport, NO; Cinematic, YES; Racing, YES**)
- Inclination 1 ° to 40° (DV: **Film, 10° /s; Sport, 25° /s; Cinematic, 20° /s; Racing, 25° /s**)
- Vertical speed 0,1 m/s to 4m/s (DV: **Film, 1m/s; Sport, 2m/s; Cinematic, 2,5m/s; Racing, 3m/s**)
- Rotation speed 3°/s to 200°/s (DV: **Film, 10° /s; Sport, 20° /s; Cinematic, 20° /s ; Racing, 40° /s**)

**About the dynamic horizon:** Dynamic Horizon Mode allows you to track the inclination of your drone when it tilts. The horizon then tilts instead of remaining straight.

**About Banked turn:** activate **Banked turn** to achieve smoother turns. This setting is especially useful for filming.

Touch "Reset Presets Settings" to restore the default values for this menu.

- ⚠ **Note that "Max inclination", "Max inclination speed" and "Max vertical speed" values are the ones which carry the biggest impact on ANAFI's acceleration and general flying behaviour. Corresponding sliders turn to orange instead of green to warn users the settings they have selected require extreme care, superior piloting skills, or both, when flying ANAFI. Your drone will always remain outstandingly responsive, but with extreme settings, it will accelerate much more rapidly than you can imagine: you have been warned!**

## Interface

The Interface preferences set the amount of information you want on your **FreeFlight 6** HUD.

For each feature, tap an item option to select it.

- Show minimap NEVER / WITH CONTROLLER / **ALWAYS**
- Map type ROADMAP / SATELLITE / **HYBRID**
- Show framing grid **NO** / 3x3 / 6x6
- Measurement system **AUTO** / IMPERIAL / METRIC

Touch "Reset Interface Settings" to restore the default values for this menu.

## Safety

Through Safety preferences, you can set a safe and clear flying area for ANAFI.

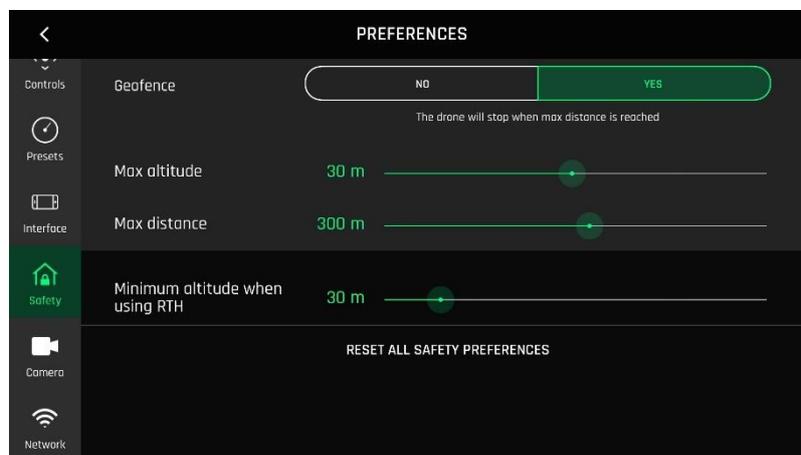
## ANAFI

Set ANAFI's maximum flight altitude with the "Max altitude" slider. **This setting is always activated, regardless of the activation of the Geofence.**

To set a maximum distance from the pilot for your drone, move the "Max distance" slider to the required value, then tap YES to activate the Geofence. **When the Geofence is activated, ANAFI will automatically stop when it reaches the maximum distance you have selected.**

- Geofence NO / **YES**
- Max altitude 0m to 150m (DV: **30m**)
- Max distance 10m to 4000m (DV: **100m**)
- Minimum altitude when using RTH 20m to 100m (DV: **30m**)

Tap "Reset Safety Preferences" on the bottom of the page to reset preferences.



*Safety preferences*

## Camera

Camera preferences enable you to select camera options, both in photo and video modes.

- Camera calibration Tap "CALIBRATE" to access camera & gimbal calibration
- Autorecord from take-off NO/ **YES** (video only)
- Lossless zoom only **NO** / YES (selecting "YES" blocks zoom in JPEG RECT)
- Display overexposure **NO** / YES
- Anti-flickering OFF / **AUTO** / 50Hz / 60 Hz

**About camera calibration:** only resort to the "correct horizon" procedure if you notice your videos and photos are systematically tilted on the same side. Refer to the "*Camera calibration*" section of this guide for the detailed procedure.

**About overexposure display:** when this setting is activated, the HUD of **FreeFlight 6** shows all overexposed areas of the screen as hatched, which enables you to fine-tune your framing, your EV settings, or both.

**About Anti-flickering:** this setting and the associated technology aim at eliminating the flicker effect which can arise due to some artificial lights. The "AUTO" option should work for most users, but depending on your country, you can try other settings if you feel bothered by a flicker effect on your device's screen, your artificial light videos, or both.

Tap "RESET ALL CAMERA PREFERENCES AND SETTINGS" on the bottom of the page to reset preferences (except for the Bracketing mode, which is only managed manually).

## Network

Network preferences let you change your **ANAFI's** Wi-Fi network name, password, and band.

- Network's name                      Tap the field to change your **ANAFI's** network name
- Password                              Tap the box to change your network's password
- Wi-Fi band                              ALL / 2.4 GHz / 5 GHz / MANUAL

## VIDEOS AND PHOTOS

**ANAFI is equipped with a state-of-the-art 4K, 3-axis-stabilized camera, which delivers astoundingly sharp motion and still pictures, through a 1/2.4" CMOS 21MP sensor.**

**The lens of the camera includes low dispersion aspherical elements, that reduce chromatic aberrations and flare, and guarantee optical excellence to such a small, smart and versatile airborne imaging system.**

**Although you can film and take pictures using your device as ANAFI's only controller, we recommend you always use the Parrot Skycontroller 3 and your device, for the best controlled, most precise, and safest filming and photos-shooting flights.**

### Making videos

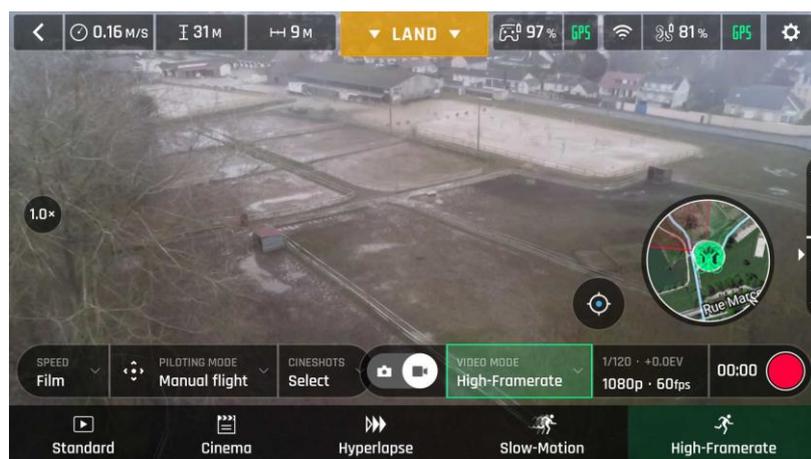
By default, ANAFI and **FreeFlight 6** are set to start recording a video as soon as ANAFI takes off. This literally means all you have to do, to start filming, is to fly ANAFI into the sky!

However, depending on your filming objectives, ANAFI and **FreeFlight 6** offer a wealth of settings, from full auto to manual professional options, for you to make the most of every situation.

**If required, tap the photo/video toggle in the middle of the bottom bar of the HUD, to circle the film camera (right icon) in white.**

**Main filming options are twofold, and accessible from the HUD of FreeFlight 6.**

- **First**, select a **video mode** by tapping the corresponding box of the HUD. The options appear on your device, as they do on the screen capture below. Tap a video mode to select it and tap the **video mode** box again to confirm your choice.



*Android Video mode menu*

- **Second**, select a **video resolution and a framerate (fps – frames per second) value** from the corresponding box of the HUD. Tap the **video settings box** to call the individual **video resolution** and **fps** boxes.

Tap the **video resolution box** to access the available video resolutions and tap one to select it.

Tap the **fps box** to access the available fps values and tap one to select it.

**Tap the video settings box again to close the sub-boxes and confirm your choices.**

### Available video resolutions and fps values depend on the video mode you have selected:

<b>Standard:</b>	all-round <b>4K, 2.7K</b> or <b>1080p</b> filming, at <b>24, 25</b> or <b>30fps</b> .
<b>Cinema:</b>	spectacular <b>4K cinema</b> filming, at <b>24fps</b> .
<b>Hyperlapse:</b>	time-lapse video with a configurable speed factor (x15, x30, x60, x120, x240), in <b>4K, 2.7K</b> or <b>1080p</b> , exported at <b>24, 25</b> or <b>30fps</b> .
<b>Slow-Motion 1080p</b>	filming at <b>48, 50</b> or <b>60fps</b> , automatically slowed down by a factor of 2 and exported at 24, 25 or 30fps.
<b>Slow-Motion 720p</b>	filming at <b>96, 100</b> or <b>120fps</b> , automatically slowed down by a factor of 4 and exported at 24, 25 or 30fps.
<b>High-Framerate:</b>	<b>1080p</b> filming at <b>48, 50</b> or <b>60fps</b> (ideal for post-processing) and <b>720p</b> filming at <b>96, 100</b> or <b>120fps</b> .

In the following screen capture, **Standard video mode** is activated: available video resolutions are **4K (UHD)**, **2.7K** and **1080p (FHD)** – either in **24, 25** or **30fps**, which you would find out by tapping “30 fps” on the bottom right of the screen.



*iOS Standard video format menu*

When you are happy with your settings and your framing, press the hard shutter button on the right of **Parrot Skycontroller 3** (or tap the soft shutter button of the HUD) to start filming.

The soft shutter button of the HUD animates and displays a cycle between red square, and red circle. The timer starts running.

Press the hard shutter button of the controller (or tap the soft shutter button of the HUD) again to end the recording. The soft shutter button of the HUD comes back to steady, red and round. The timer resets.

## Taking photos

**To access the photo camera of ANAFI, tap the photo/video toggle in the middle of the bottom bar of the HUD, to circle the photo camera (left icon) in white.**

**Five photo modes are available on ANAFI: Single shot, Burst, Bracketing, Timer and Panorama (5 formats).**

**Thanks to its 21MP CMOS sensor, ANAFI produces three main picture formats:**

- **rectilinear JPEG** (up to 16MP);
- **wide 21MP JPEG and DNG** (Digital NeGative: Adobe open standard RAW format);
- **composite panoramas** (JPEG), **up to 32MP**.

**Main photography options are accessible from the HUD of FreeFlight 6.**

- **First**, select a **photo mode** by tapping the corresponding box of the HUD. The options appear on your device. Tap a photo mode to select it and tap the **photo mode** box again to confirm your choice.

When the **"Single"** mode is selected, the soft shutter button of the HUD appears as a full white circle.

When the **"Burst"** mode is selected, the soft shutter button of the HUD displays the Burst icon inside a white circle.

Selecting the **"Bracketing"** mode opens three options: 3 photos (-1 EV, +0.0 EV, +1 EV), 5 photos (-2 EV to +2 EV) and 7 photos (-3 EV to +3 EV). When one of these options has been selected, the soft shutter button of the HUD displays the Bracketing icon inside a white circle.

Selecting the **"Timer"** mode opens three options: 3 secs, 5 secs and 10 secs. When one of these options has been selected, the soft shutter button of the HUD displays "3 secs", "5 secs" or "10 secs" inside a white circle, depending on the option which has been chosen.

Selecting the **"Panorama"** mode opens three options: Vertical, Horizontal and 360. When one of these options has been selected, the soft shutter button of the HUD displays the corresponding icon inside a grey (ANAFI landed) or white (ANAFI flying) circle.

The **Panorama** mode is indeed the only photography mode which requires the drone to be flying before you can activate the shutter. **Refer to the next section, “Generating Panoramas”, for additional details about the “Panorama” mode.**

Selecting the "**Timelapse**" option opens six options: 5 seconds, 10 seconds, 15 seconds, 30 seconds, 60 seconds and 120 seconds (or opens six options in thermal mode: 10 seconds, 15 seconds, 30 seconds, 60 seconds, 120 seconds and 240 seconds). When one of these options has been chosen, the HUD trigger displays a progress bar at the bottom of the screen that fills up according to the duration selected ("5 secs", "10 secs", "15 secs", "30 secs", "60 secs" or "120 secs" or the corresponding duration if the user has selected thermal mode).

Selecting the "**GPS Lapse**" option opens six options: 5 meters, 10 meters, 20 meters, 50 meters, 100 meters and 200 meters. When one of these options has been chosen, the HUD trigger displays a progress bar at the bottom of the screen that fills up according to the distance selected ("5 meters", "10 meters", "20 meters", "50 meters", "100 meters" or "200 meters").

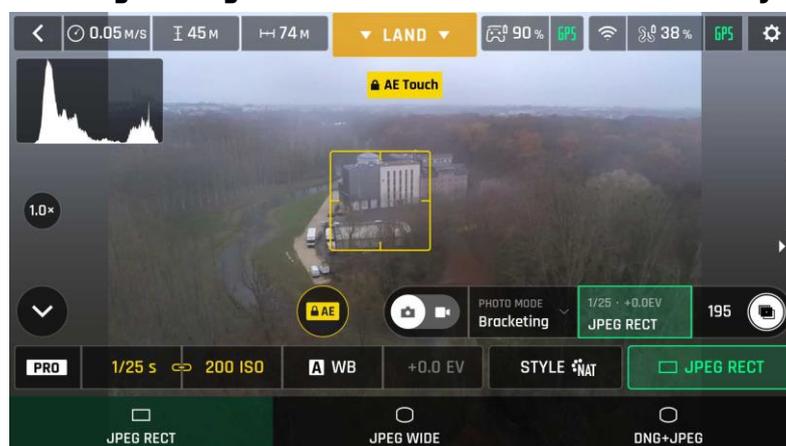
- **Second**, select a **photo format** from the corresponding box of the HUD. Tap the **photo settings box** to call the **photo settings** boxes. Tap the **last box on the right** of the screen to access the **available photo formats**.

Available photo formats for each photo mode are as follows:

Single:       JPEG RECT, JPEG WIDE, DNG+JPEG  
 Burst:        JPEG RECT, JPEG WIDE  
 Bracketing:   JPEG RECT, JPEG WIDE, DNG+JPEG  
 Timer:        JPEG RECT, JPEG WIDE, DNG+JPEG  
 Panorama:     JPEG RECT only

**Tap a format (JPEG RECT, or JPEG WIDE if available, or DNG+JPEG if available) to select it.**

**Tap the photo settings box again to close the sub-boxes and confirm your choice.**



*Android photo formats: JPEG RECT*



*Android photo formats: DNG+JPEG*

When you are happy with your settings and your framing, press the hard shutter button on the right of the **Parrot Skycontroller 3** (or tap the soft shutter button of the HUD) to take a photo.

In **"Single"** mode, the screen flashes white then freezes briefly in black and white to confirm a picture has been taken. The number to the left of the soft shutter button (the number of media on the microSD card) of the HUD is increased by 1.

In **"Burst"** mode, the screen flashes white then freezes briefly in black and white to confirm 14 pictures have been taken in the span of 1 second. The number to the left of the soft shutter button of the HUD is increased by 14.

In **"Bracketing"** mode, the screen flashes white then freezes briefly in black and white to confirm 3, 5 or 7 pictures have been taken. The number to the left of the soft shutter button of the HUD is increased by 3, 5 or 7, depending on your option choice.

In **"Timer"** mode, the countdown is displayed (from 3, 5 or 10 seconds) at the center of the HUD, the timer of the soft button also countdowns, then the screen flashes white and freezes briefly in black and white to confirm a picture has been taken. The timer of the soft shutter button resets. The number to the left of the soft shutter button of the HUD is increased by 1.

For additional details on the **"Panorama"** mode, refer to the next section, *"Generating Panoramas"*.

In **"Timelapse"** mode a progress bar (in green) fills up according to the selected time, then the screen emits a white flash and briefly freezes in black and white to confirm that a picture has been taken. The HUD progress bar resets and the number on the right increases by one. You can stop **"Timelapse"** mode at any time by pressing the red "STOP" text box at the bottom right.

In **"GPS lapse"** mode a progress bar fills up (in green) according to the distance selected. Once the distance is reached, the screen will emit a white flash and briefly freeze in black and white to confirm that a picture has been taken. The HUD progress bar resets and the

number on the right increases by one. You can stop "GPS Lapse" mode at any time by pressing the red "STOP" text box at the bottom right.



*Photo modes*

### About ANAFI photo formats:

JPEG RECT:	<b>4:3 aspect ratio, up to 16MP and 75.5° horizontal field of view (HFOV).</b>
JPEG WIDE:	<b>4:3 aspect ratio, 21MP, 84° HFOV</b> - zoom is disabled for this Format.
DNG+JPEG RECT:	<b>4:3 aspect ratio, 21MP, 84° HFOV</b> - zoom is enabled for this Format but will only be applied to the JPEG file.
DNG+JPEG WIDE :	<b>4:3 aspect ratio, 21MP, 84° HFOV</b> - zoom is disabled for this format.

- ⚠ **The DNG+JPEG options produce at least 2 files (1 DNG, 1 JPEG) for each shutter action.** As other RAW picture formats, **DNG is a very useful format for professional photography** processing and workflow. Indeed, RAW formats retain all the information gathered by photography sensors, contrary to JPEG formats - which are compressed and processed renderings of this comprehensive information. In consequence, RAW pictures such as ANAFI's **DNG are heavy files, but they offer the very best post-processing and retouching possibilities.**

### Creating Panoramas

ANAFI panoramas are generated automatically through the gallery of **FreeFlight 6**, based on a series of pictures taken by the drone.

The generation of a panorama, regardless of its format, implies three phases:

- **collecting the pictures**, in flight;
- **downloading the pictures** from ANAFI to your device;
- **stitching the pictures together** to create the panorama, on your device, through the gallery of **FreeFlight 6**.

### ⚠ Before shooting a panorama:

- **Make sure you are not flying lower than 10 meters (30ft) over water.**
- **Make sure no object nor subject are present in a 10 meters (30ft) radius around ANAFI.**
- **Bear in mind ANAFI locks the exposure** (refer to the “*AE Lock*” section of this guide for additional information on exposure locking) **of the frame with which you start your panorama.** For this reason, Parrot recommends you always frame the main subject of the intended panorama before pressing the shutter button.
- **Bear in mind ANAFI will not enable you to proceed with a panorama if the drone is short on power** (capturing a 360 Panorama takes ANAFI up to 3 minutes).

**To capture a panorama**, select the “Panorama” box from the “Photo Mode” menu of the HUD. Then, tap the panorama type you want to select it: **Vertical**, **Horizontal** or **360**. The soft shutter button icon reflects your choice, as on the screen capture below.



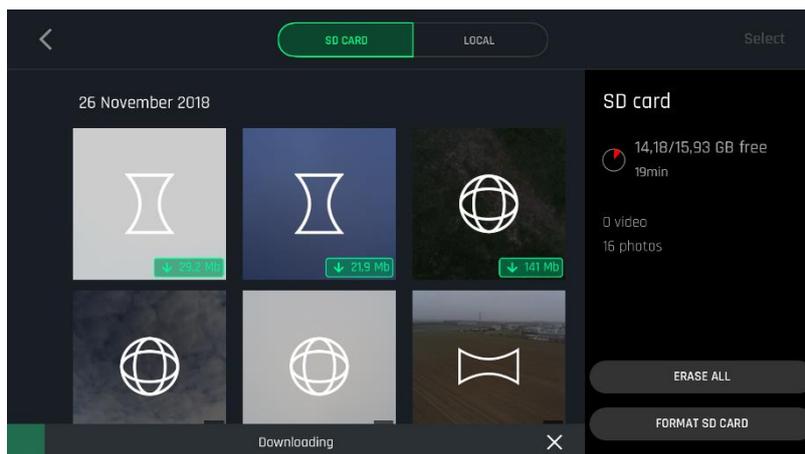
*iOS Panorama types*

When you are happy with your framing, press the hard shutter button on the right of the **Parrot Skycontroller 3** (or tap the soft shutter button of the HUD) to begin the Panorama capture. ANAFI starts taking pictures and the bottom of the HUD displays a progress bar which fills with green as the capture unfolds.

### ⚠ Panorama types capture characteristics:

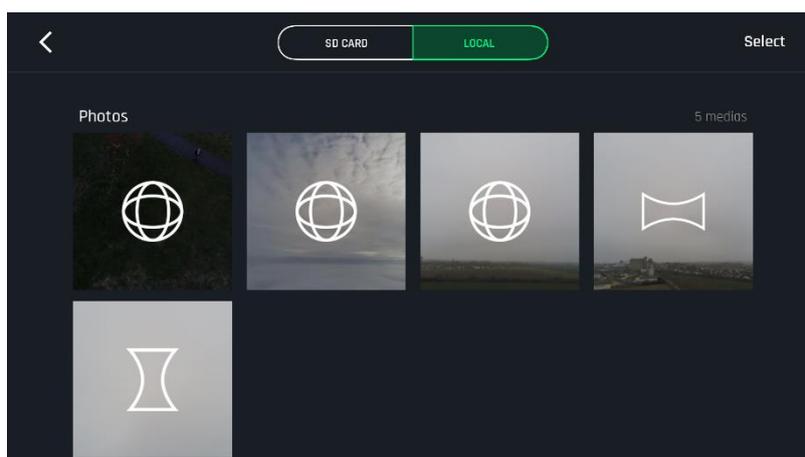
- **Vertical:** ANAFI takes 8 photos in about 35 seconds
- **Horizontal:** ANAFI takes 10 photos in about 40 seconds
- **360:** ANAFI takes 42 photos in about 180 seconds (3 minutes)

**To download the Panorama pictures to your device**, land ANAFI, access the homepage of **FreeFlight 6** and tap the **microSD card box** or the **Gallery box** to display the media present on your microSD card. Like other media, Panoramas are marked with their distinct icon and a green download box, which shows the size of the corresponding series of pictures.



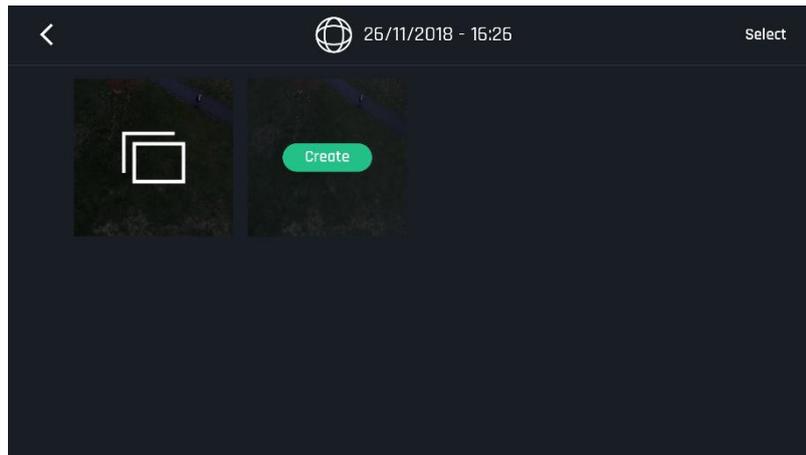
*iOS microSD gallery; downloading media to device*

**Tap the green box of the Panorama you want to generate** to start downloading the corresponding series of pictures to your device. When the download is complete, **FreeFlight 6** displays a page from where you can delete the downloaded photos; tap "Yes" to keep the originals on the microSD card; tap "No" to delete them. **FreeFlight 6** displays the Local (device) gallery, which contains only the media you have downloaded from ANAFI's microSD card.



*iOS Local (device) gallery*

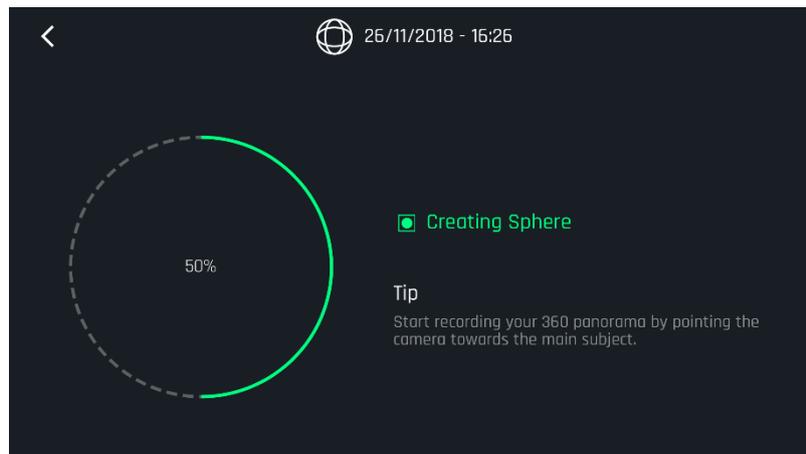
**Finally, select the panorama you want to generate from your Local gallery:** **FreeFlight 6** displays the following screen.



*iOS Local (device) panorama generation page*

Tap **“Create”** to generate the panorama (or tap the other icon to access the series of individual pictures).

Depending on the power of your device, **FreeFlight 6** may display one or two resolution options, up to 32 MP. Select the option you want to launch the generation. The time this process takes also depends on your device's power. For the highest quality 360 panorama (32 MP), it can take several minutes.



*iOS: Creating Sphere*

When the panorama creation is complete, **FreeFlight 6** displays the panorama and gives you the option to delete the original files.

- ⚠ For each **Vertical** or **Horizontal** panorama capture, you will be able to generate one panorama only. For each **360** capture, you will be able to generate three different panoramas: **Sphere**, **Tiny Planet** and **Tunnel**.

## GIMBAL TILT AND ZOOM CONTROLS

Two of ANAFI's main assets are its gimbal tilt control capabilities (180°, from the ground to the sky), and its zoom. This section presents these features and the way to activate them.

### Gimbal tilt control

ANAFI's gimbal tilt control is activated through the left trigger of **Parrot Skycontroller 3**. It is available **in all video and photo modes**, and in all manual piloting modes.

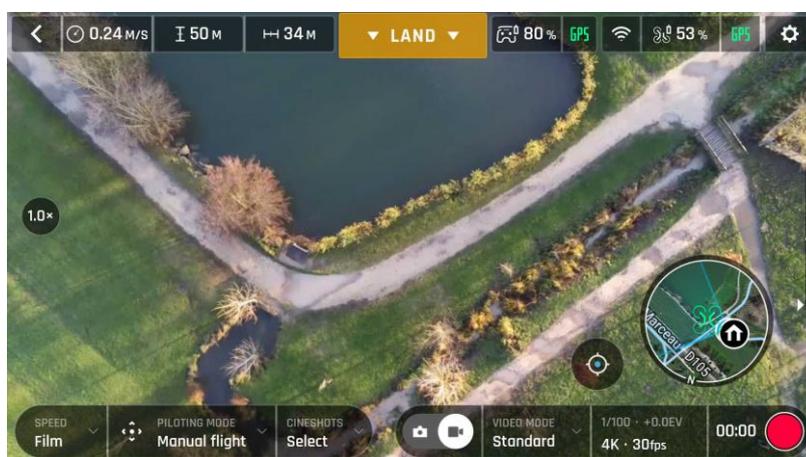
- **To aim the gimbal toward the ground, push the tilt control trigger down.**
- **To aim the gimbal toward the sky, pull the tilt control trigger up.**
- **To reset the gimbal tilt to a horizontal position, press the optics reset button on the left of Parrot Skycontroller 3** (this action also resets the zoom factor of the lens to x1).
- 

### Zoom control

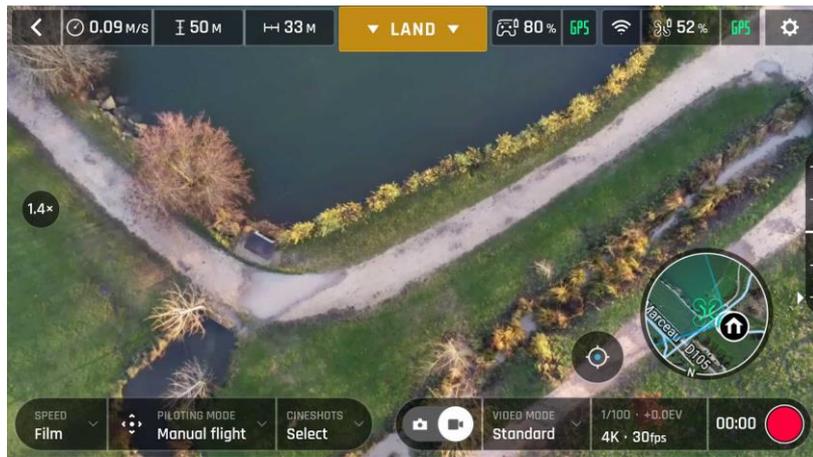
ANAFI's zoom control is activated through the right trigger of **Parrot Skycontroller 3**. It is available **in all video modes, and in JPEG RECT photo mode** (with an impact on the final resolution of your pictures). WIDE photo modes imply the use and rendering of all 21MP delivered by ANAFI's CMOS sensor: zoom is deactivated in both WIDE photo modes.

- **To zoom in on a subject, push the zoom trigger down.**
- **To zoom out, pull the zoom trigger up.**
- **Pressing the optics reset button on the left of Parrot Skycontroller 3 instantly resets the zoom factor of the lens to x1** (this action also resets the gimbal tilt to a horizontal position).

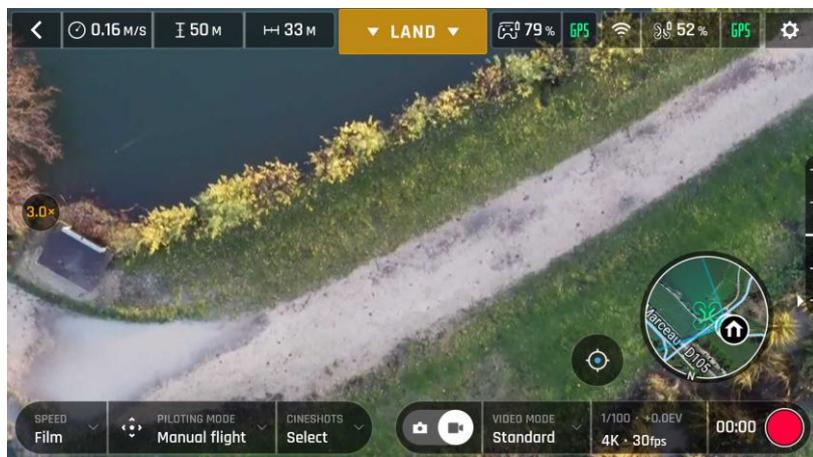
**The HUD of FreeFlight 6 presents precise, decimal-by-decimal zoom information at all times, in the middle of the left side of the screen, as shown on the following screen captures – note that in these examples, ANAFI's gimbal is tilted all the way toward the ground.**



*Android 4K x1 zoom*



*Android 4K x1.4 zoom*



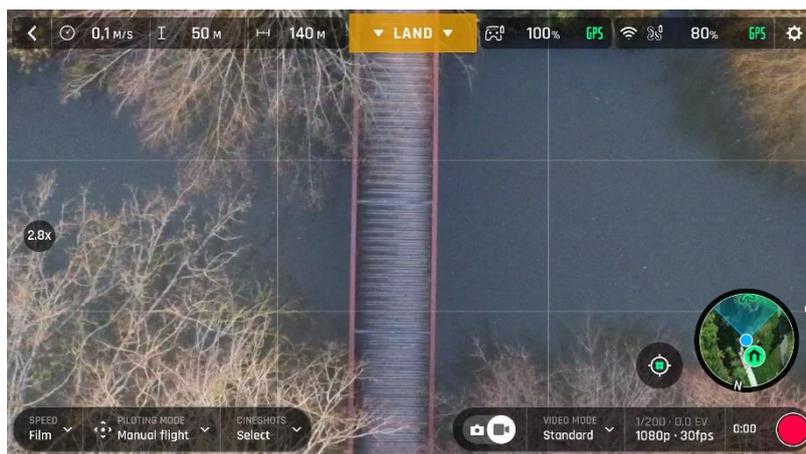
*iOS 4K x3 zoom*

As already mentioned, **ANAFI** presents no lossless zoom capabilities for pictures: the zoom is deactivated by design in WIDE formats (JPEG and DNG+JPEG), and it has an impact on the resolution of the pictures in JPEG RECT format.

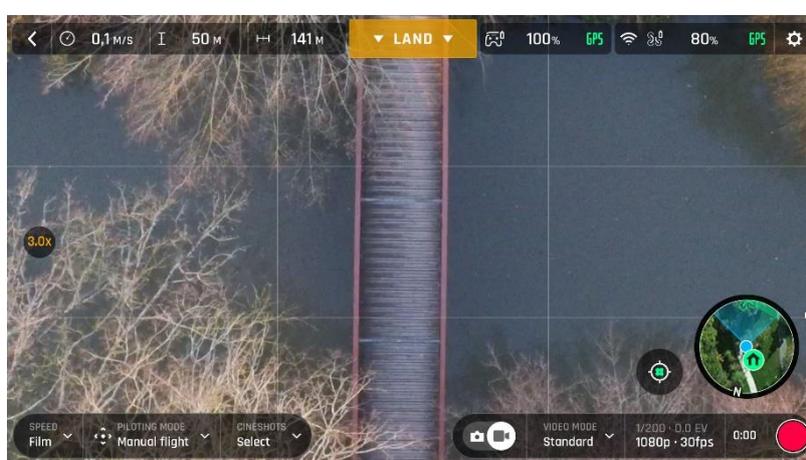
By contrast, **ANAFI** offers **impressive lossless zoom** capabilities for **4K UHD (x1.4)**, **2.7K (x1.9)** and **1080p (X2.8)** videos.



*Android 1080p x1 zoom*



*Android 1080p x2.8 zoom*



*Android 1080p x3 zoom*

Note that in the video mode, when you leave the lossless envelope of the zoom, the zoom indicator, on the middle left of the HUD, turns orange instead of white.

### Camera Calibration: Correct horizon (exceptional procedure)

**⚠ Your ANAFI's camera has been factory-calibrated with unparalleled precision.**

Unlike the calibration of ANAFI or that of the **Parrot Skycontroller 3**, which must be carried out periodically, **the camera calibration must not be carried out unless it appears necessary** – typically, after a crash.

If you notice **a tilted horizon on all your videos and photos**, and if this **tilt is always on the same side**, access camera calibration to make your horizon perfectly straight again.

This feature is accessible from the ANAFI box on the **FreeFlight 6** homepage (or from the ANAFI box of the HUD) and from the *"PREFERENCE - Camera"* menu.

## ANAFI

Before starting this procedure, you need to position **ANAFI** on a flat and perfectly level surface, exactly perpendicular to any pattern containing straight lines you can use as horizon references. A set square can help you check that a line on your floor is perpendicular to your wall, as on the following pictures.



*Finding a line perpendicular to the wall*

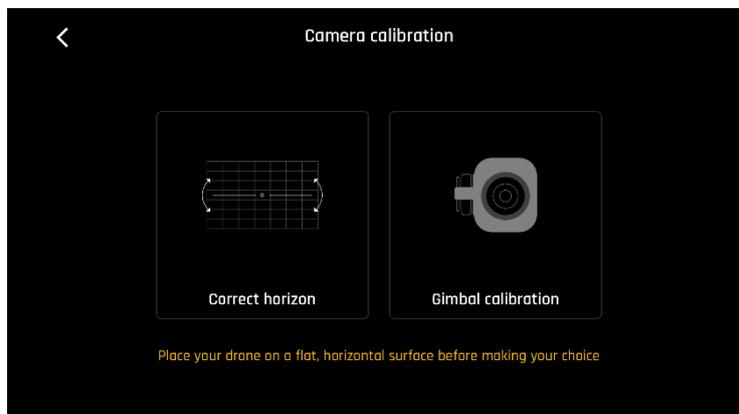


*ANAFI ready for camera calibration*

When **ANAFI** is correctly positioned, perpendicular to its straight horizon reference, power it on, along with the **Parrot Skycontroller 3** and your device, as you would for any flight.

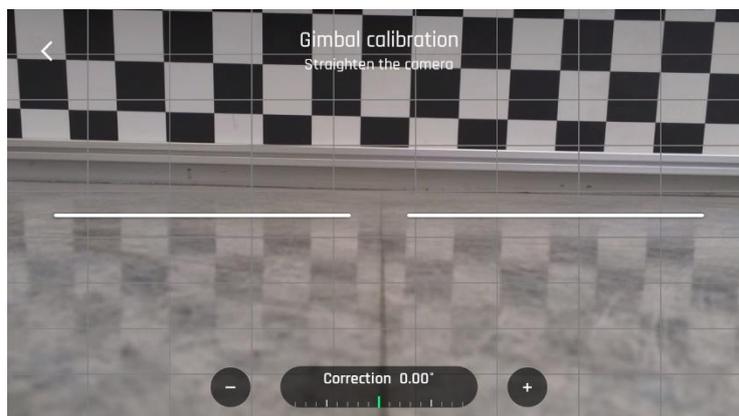
Access "Camera calibration" from the **ANAFI** box of the homepage or the HUD of **FreeFlight 6**, or from the "PREFERENCES-Camera" menu.

Select the "Correct horizon" option from the following screen.



*ANAFI: gimbal/camera calibration (Android)*

The following screen appears – except the top line label ("*Gimbal calibration*"), has been replaced with "**Horizon correction**".



*Gimbal/camera calibration: before (Android)*

Tap "-" or "+" until the artificial horizon of ANAFI matches the horizon reference facing the drone. **Do not worry about vertical lines: as you can see from the screenshots, they do not appear straight or parallel on the calibration screen.**



*Gimbal/camera calibration: after (Android)*

When you have straightened the tilt of the camera, tap the "<" icon on the top left of the screen to confirm your setting and exit camera calibration.

### **Camera Calibration: Gimbal calibration**

Use this option to perform a gimbal calibration, similar to that which occurs after ANAFI is powered on.

## PRO-IMAGING SETTINGS

ANAFI is set to deliver high quality and balanced 4K videos and 21MP photos, out of the box.

Some image enthusiasts and all professional directors, videographers and photographers, however, will find their way through pro-imaging settings. This section is designed to help you exploit manual settings and develop your filming and photography styles.

The Exposure value (EV) is the only setting accessible in the Auto mode, from the “Video/Photo settings box” menu of the HUD.

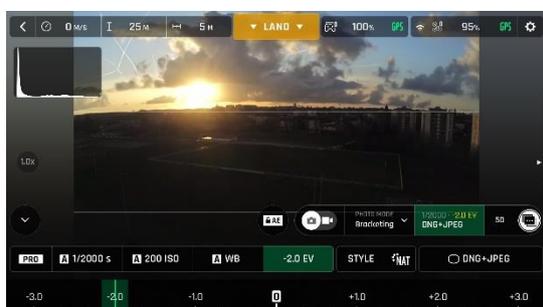
### Exposure value (EV)

The EV expresses the general darkness or lightness of a photograph – or a video. At +0.0 (zero) EV, ANAFI automatically adapts the shutter speed and the ISO value to deliver a perfectly balanced photo or video: not too dark and not too light.

**Tap the “+0.0 EV” box to activate the EV slider.**

**Slide your finger on the screen to adapt your EV toward negative values and darken your picture or video.**

**Use positive values to lighten your images.** This can be useful if you want to capture a backlit scene and to fade surroundings in light.



*IOS -2.0 EV*



*IOS +1.0 EV*

To activate further settings, tap “Auto”, on the far left of the Video/Photo settings box. The additional settings boxes are unlocked, they stand out in white and “Auto” has been replaced with “Pro”.

### Shutter speed (s)

The “s” value refers to the time, in fraction of second, when the shutter stays open to capture a still picture: it is called exposure time.

## ANAFI

In Auto mode, **ANAFI** selects the best shutter speed and ISO value couple, in real time, depending on the scene and available light. In consequence, selecting a shutter speed also deactivates the Auto ISO mode.

As **ANAFI**'s f/2.4 aperture lens lets a lot of light in, even compared to most professional SLR lenses, your drone can achieve very fast "s" values (down to 1/10000s) and capture very fast action. It can also be used for slow shots, up to 1 second for the photo mode.

Note that **ANAFI** can shoot pictures and videos when it is not flying. You can even hold it in your hand and use it as a premium stabilized 4K video and photo camera.

**Tap the "s" box to open the shutter slider.**

**Select a value to exit the auto-mode for shutter speed and ISO. This action also deactivates the EV slider.**

**Set the s value you require, then tap the "ISO" box to select an ISO value.** Experiment! The display of the HUD reflects your settings. If you get lost, tap Auto either on the "s" or the "ISO" slider to get back to auto exposure and reactivate the EV slider.

### ISO value (ISO)

The ISO value refers to the sensitivity of the sensor. As we have seen, it is linked to the shutter speed value: both sliders activate when you deactivate the "Auto" mode and set a value for one, or for the other. The lower the ISO value, the lower the sensitivity of the sensor, and the lower the image noise (digital grain). Therefore, under good lighting conditions, such as sunny daylight outside shots, low ISO values (100 or 200) should always be selected. The sensitivity of the sensor increases as the ISO value goes up: 3200 ISO can be used to capture low light interior scenes, or exterior shots at dusk or dawn, for example.

By default, in Auto mode, **ANAFI** constantly adapts its ISO and shutter speed values to the scene it is filming. Setting an ISO value for a whole shot or series of shot, however, is very useful to professional filming.

**Tap the ISO box to open the shutter slider.**

**Select a value to exit the Auto mode for ISO and shutter speed. This action also deactivates the EV slider.**

**Set the ISO value you require, then tap the "s" box to select a shutter value.**

Experiment! The display of the HUD reflects your settings. If you get lost, tap Auto either on the "s" or the "ISO" slider to get back to auto exposure and reactivate the EV slider.

## White balance (WB)

White balance deals with the color temperature of the light. Cold lights make the whites look blue. Warm lights make the whites look yellow. By default, in Auto WB mode, ANAFI keeps the whites white, at all times; it adapts its WB value in real time.

However, setting a WB value for an entire shot is especially useful for professional filming; stable WB facilitates the grading (color treatment) of videos.

**Tap the WB box to open the white balance options.**

**Select the WB option that is best suited for your shooting conditions, your subject, or both.** The display of the HUD reflects your settings and helps you make the best choice.



*Android Auto WB*



*Android Incandescent WB*



*Android Fluo 1 WB*



*Android Fluo 2 WB*



*Android Sunny WB*



*Android Cloudy WB*

## ANAFI



*Android Green WB*



*Android Blue Sky WB*

### White Balance (WB) in manual mode

To manually select a WB value, touch the WB text box and then touch the CUSTOM text box. This will allow you to set the various white balance values between 2000 and 10,000K (Kelvin).

### HDR

HDR (high dynamic range) is another great way to enhance a video or a photo. **The HDR option is available for Standard video mode 4K, 2.7K and 1080p formats** (regardless of framerate values) and **JPEG photos**.

**To activate the HDR option, select a Standard video mode or a JPEG photo format from the relevant boxes of the bottom bar of the HUD. A white and round HDR icon appears on the screen of your device, to the left of the photo/video trigger.**

**Tap this icon: it turns yellow and a HDR notice appears in black inside a yellow box, under the “next available action” box, at the center of the top bar of the HUD.** Press the hard shutter button on your **Parrot Skycontroller 3** (or the soft shutter button of the HUD) to start filming in HDR or to take a HDR photo.

Tap the round HDR icon again to deactivate HDR. The yellow HDR box disappears from the screen.



*iOS HDR off*



*iOS HDR on*

**Note that activating (or deactivating) HDR stops any ongoing video recording.**

## NATURAL Style

The **Natural** Style is the default ANAFI Style: it respects nature's colors and tones.

**Activate the "NATURAL" Style from the "Style" box of the Video/Photo settings menu.**

## P-LOG Style

One alternative Style to Natural looking images (default value) can be selected for ANAFI both in the video mode, and in the photo mode. This alternative Style is called "**P-LOG**". It makes images a little less contrasted: P-LOG style is ideal for videos you want to edit and process using professional grading tools and filters.

**Activate the "P-LOG" Style from the "Style" box of the Video/Photo settings menu.**

## INTENSE Style

Another alternative Style to Natural looking images (default value) can be selected for ANAFI both in the video mode, and in the photo mode. It is called "**Intense**". It makes images more saturated and contrasted.

**Activate the "INTENSE" Style from the "Style" box of the Video/Photo settings menu.**

## PASTEL Style

Another alternative Style to Natural looking images (default value) can be selected for ANAFI both in the video mode, and in the photo mode. It is called "**Pastel**". It makes images less saturated, but it brings out their warmest tones.

**Activate the "PASTEL" Style from the "Style" box of the Video/Photo settings menu.**

## ADJUSTMENT

The ADJUSTMENT button, to the right of the PASTEL box, provides three additional settings for your **Normal Style** still images and films:

- Saturation: sets the intensity of the colors (from -2 to +2)
- Contrast: sets the degree of difference between lighter and darker parts of the image (from -2 to +2)
- Sharpness: sets the distinction of the reproduction of details (from -1 to +1)



*All settings at minimal values (iOS)*



*All settings at maximal values (iOS)*

Tap the RESET button, on the right of the screen, to bring all values to 0 (zero).

Tap the "<" icon, on the left of the screen, to confirm your settings and exit the ADJUSTMENT menu.

## Lock AE

Another great feature of **FreeFlight 6** is the possibility to lock the general exposure of a view, to fine-tune the framing of a shot and keep the desired exposure.

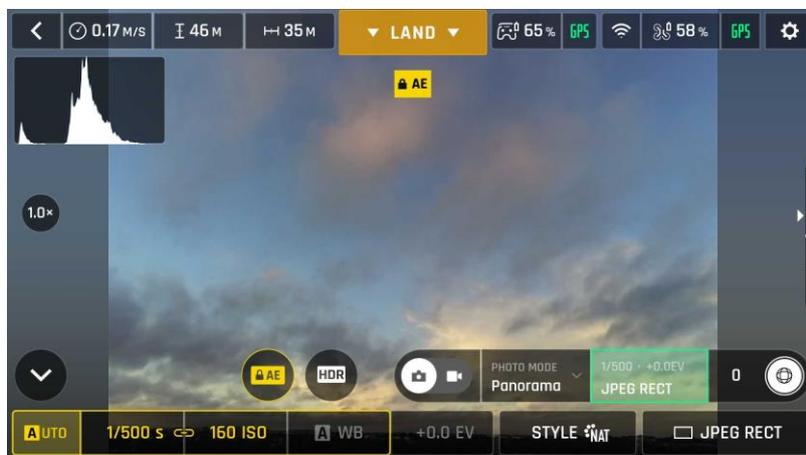
To access this function, tap the "Video settings box" (video mode) or the "Photo settings box" (photo mode) of the HUD.

A "Lock AE" icon appears, to the left of the HDR icon (it replaces the "HDR" icon in DNG+JPEG photo format, since HDR is not available with this setting),

**Tap the "Lock AE" icon to lock the exposure value to that of the current view.** The icon turns to yellow. A yellow "Lock AE" box appears under the "Next available action" box, at the center of the top bar of the HUD.

Move ANAFI around or tilt its gimbal to change the frame; the exposure settings remain as they were when you activated the function.

**Tap the “Lock AE” icon again to deactivate the exposure lock;** the icon turns back to white and the yellow “Lock AE” box disappears.



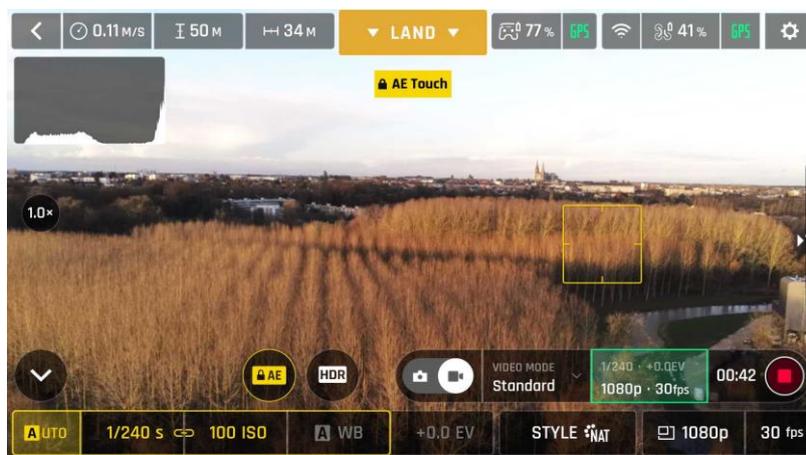
*Exposure is locked on the sky (Android)*

## Lock AE Touch

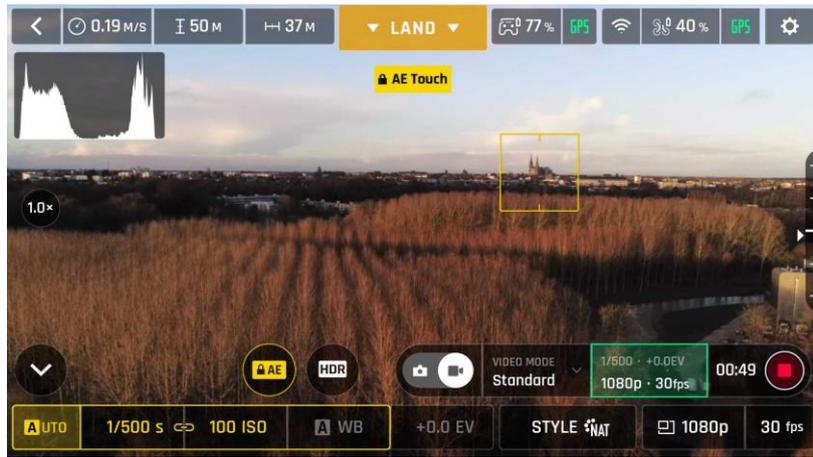
**With the “Lock AE Touch” (or “Spot AE”) function of FreeFlight 6, you can also lock the exposure of a frame on any detail of any view.**

To activate this function, follow the “Lock AE” procedure of the preceding section. When the exposure is locked, touch the part of the frame you want to base your exposure on. A yellow square animates around this spot and the yellow “Lock AE” box is replaced by a yellow “**Lock AE Touch**” box.

Refer to the following screen captures for additional details on the logic of this great feature.



*Exposure is locked on the top of the trees (Android); shutter speed is set at 1/240 s*



*Exposure is locked on a building on the horizon (Android); shutter speed is set at 1/500 s*

## CINESHOTS

ANAFI features a series of automated shots, which enable you to capture scenes professionally.



*iOS Cineshots Menu*

**Make sure you have selected the video settings you require, check that you are filming and tap “CINESHOTS” in the bottom bar of the HUD to access Cineshots. Tap a Cineshot to select it. For each, two options appear.**

### 360°

The 360° Cineshot is self-explanatory: when it is activated, ANAFI maintains its position and altitude, and rotates slowly and completely around its axis to uncover a full panorama.

**Tap “Right” or “Left” to select the direction you want your drone to rotate, and to activate the 360°.** After a countdown on the HUD, ANAFI starts its rotation. An animation flashes on the screen of your device, and the “360°” box progressively fills with green as the Cineshot unfolds.

### Reveal

The Reveal Cineshot is a classic motion picture opening shot: when it is activated, ANAFI tilts its camera toward the ground and starts moving forward in a straight horizontal line. Slowly, over 30 or 60 meters, the camera gimbal tilts up, revealing the scenery in front of ANAFI.

**Before you activate the Reveal Cineshot, check the area in front of ANAFI is clear from obstacles, and safe.**

**Tap “30m” (small-arrow icon) or “60m” (large-arrow icon) to select the range of your Reveal shot, and activate it.** After a countdown on the HUD, ANAFI tilts its camera down and starts moving forward. An animation flashes on the screen of your device, and the “Reveal” box progressively fills with green as the Cineshot unfolds.

## Spiral

The Spiral Cineshot is perfect to unveil your surroundings – or that of any object on the ground. When it is activated, **ANAFI** tilts its camera to the ground and starts moving up, in a straight vertical line. Slowly, as it climbs to 30 or 60 meters, **ANAFI** carries out a full 360° rotation around its axis, then and its camera tilts up progressively, panning over the scenery along a 180° rotation. Therefore, **ANAFI** finishes the Spiral Cineshot with a 180° angle, compared to its starting point.

**Before you activate the Spiral Cineshot, check the area beyond ANAFI is clear from obstacles, and safe: do not activate the Spiral Cineshot under trees, or a bridge, for example.**

**Tap “30m” (small-arrow icon) or “60m” (large-arrow icon) to select the range of your Spiral shot, and activate it.** After a countdown on the HUD, **ANAFI** tilts its camera down and starts moving up and rotating. An animation flashes on the screen of your device, and the “Spiral” box progressively fills with green as the Cineshot unfolds.

## Epic

The Epic Cineshot offers another great way to dramatize any scene or location. When it is activated, **ANAFI** moves away backward in a smooth ascending line, keeping its subject in the center of its frame for 30 or 60 meters. The Epic Cineshot gives best results when **ANAFI** starts from a close-up position, relative to its subject.

**Before you activate the Epic Cineshot, check the area behind ANAFI is clear from obstacles, and safe.**

**Tap “30m” (small-arrow icon) or “60m” (large-arrow icon) to select the range of your Epic shot, and activate it.** After a countdown on the HUD, **ANAFI** starts moving backward and upward. An animation flashes on the screen of your device, and the “Epic” box progressively fills with green as the Cineshot unfolds.

- ⚠ **Activate and monitor all Cineshots with care: always check your automated shot flight plan is clear from obstacles and safe, always retain visual contact with ANAFI, and always be ready to reclaim control of your drone: any action on any stick of Parrot Skycontroller 3 immediately terminates the current Cineshot.**

## PILOTING MODES

Tap the "PILOTING MODE" box in the bottom bar of the HUD of **FreeFlight 6** to access the piloting modes options.

Tap a mode to select it. Each mode is associated with a specific behavior, which this section describes.

### Manual flight

The Manual flight mode is **ANAFI**'s default mode. It enables you to pilot the drone and fully control its camera tilt and zoom.

When you release the commands in Manual flight mode, **ANAFI** stays in position, hovering.

### Cameraman

The Cameraman mode enables you to keep an object or a subject in the center of your frame, while you pilot **ANAFI** around it/him/her.

Frame the object or subject you want to film and fly around.

Tap the "PILOTING MODE" box in the bottom bar of the HUD to access the options. Tap "Cameraman" to select this piloting mode.

Draw a rectangle with your finger on the screen of your device, around the object or subject you want **ANAFI** to follow - or double tap this object or subject. When your target is locked, the blue rectangle turns to green and the orange "LAND" box at the center of the top bar of the HUD turns red and displays "STOP". **ANAFI**'s frame centers on your target, inside the green box.

Drag the green box to the area of the frame where you want your target to remain at.

Fly **ANAFI** around your target. The drone keeps your target in the part of the frame you have selected. Therefore, if you push the right joystick of the **Parrot Skycontroller 3** to the left, **ANAFI** circles around your target clockwise. If you push the right joystick of the **Parrot Skycontroller 3** to the right, **ANAFI** circles around your target counterclockwise.

When the Cameraman mode is activated, **ANAFI** manages the gimbal tilt to keep the target in the frame. Therefore, the left trigger of the **Parrot Skycontroller 3** is deactivated in this mode. However, you can still control the zoom, with the right trigger.

When you release the commands in the Cameraman mode, **ANAFI** hovers and rotates to keep following the target.

## ANAFI

To end the following of your target, tap the red "STOP" box at the center of the top bar of the HUD.

When no target is selected, or when the following of the target has been ended by the pilot, ANAFI's behavior is similar to that of the Manual flight mode.

- ⚠ **Activate and monitor the Cameraman mode with care: always check your flight plan and the trajectory of your subject are clear from obstacles and safe, always retain visual contact with ANAFI, and always be ready to stop the following (tap the "STOP" box of your HUD) in case a danger or any sort of unexpected obstacle arises.**

### Follow Me (in-app purchase)

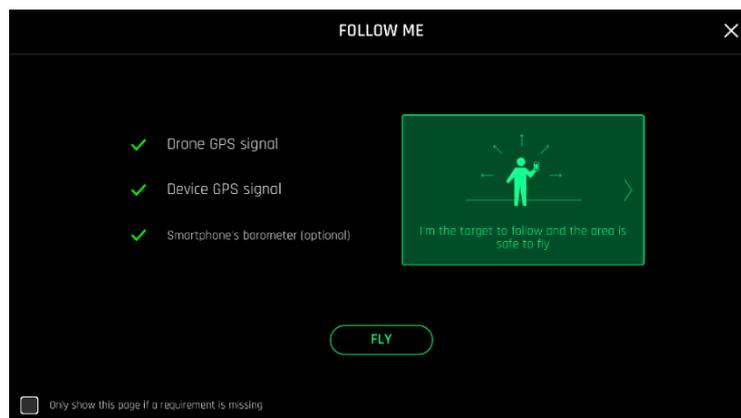
The Follow Me mode was designed to enable ANAFI pilots to have their drone follow them in action. It must be purchased from the Google (Android) or Apple (iOS) stores to be activated.

Fly ANAFI at least 5 meters (15ft) high and 10 meters (30ft) in front of you, facing you - **FreeFlight 6** will inform you with a red alert at the bottom of the HUD if you are too close from ANAFI or if it is flying too low.

Frame yourself.

Tap the "PILOTING MODE" box in the bottom bar of the HUD to access the options. Tap "Follow Me" to select this piloting mode.

Both a drone GPS synchronization and a device GPS synchronization are imperative to activate this mode: upon first activation, the following page appears.



*iOS, Follow Me GPS warning*

Tick the box on the bottom left on the page if you do not want this warning to appear again when no prerequisite is missing. Tap "FLY" to access the Follow Me mode.

Select one of the three Follow Me options (refer to in-app explanations for details):

- Track
- Lock

Dynamic (**Parrot recommends you only use this option in completely open and unobstructed areas**)

Draw a rectangle with your finger on the screen of your device, around yourself. When **ANAFI** has a lock on you, the blue rectangle turns to green and the orange "LAND" box at the center of the top bar of the HUD turns red and displays "STOP".

By default, **ANAFI** keeps you in the center of the frame, but you can drag the green box to the area of the screen you want to remain at. If you push the right joystick of the **Parrot Skycontroller 3** to the left, **ANAFI** circles around you clockwise. If you push the right joystick of the **Parrot Skycontroller 3** to the right, **ANAFI** circles around you counterclockwise.

In the Follow Me mode, **ANAFI** manages the gimbal tilt to keep you in the center of the frame. Therefore, the left trigger of the **Parrot Skycontroller 3** is deactivated in this mode. However, you can still control the zoom, with the right trigger.

When you release the commands in the Follow Me mode, **ANAFI** keeps following you from a constant distance if you are moving. If you stay immobile, **ANAFI** stops and stays focused on you.

To have **ANAFI** stop tracking you, tap the red "STOP" box at the center of the top bar of the HUD.

When no target is selected, or when the tracking has been ended by the pilot, **ANAFI**'s behavior is similar to that of the Manual flight mode.

**In addition, the Follow Me mode features a series of exclusive Dronies which can be activated as you move, always keeping you in the center of the frame.** For each Dronie, two options are available (they are listed between brackets):

- **Orbit (left or right):** **ANAFI** circles around you in a full 360°.
- **Parabola (10 or 30 m):** **ANAFI** flies in a circular arc over your head, gaining 10 or 30 meters in altitude and turning 180° at its peak.
- **Tornado (10 or 30 m):** **ANAFI** performs a double "Orbit" around you, one going up 10 or 30 meters, the other going down 10 or 30 meters, back to its original height.
- **Boomerang (30 or 60 m):** **ANAFI** flies away from you for 30 or 60 meters, with an ascending angle following that of the starting gimbal tilt, then comes back to its starting point.

To select a Follow Me Dronie, make sure you are in the Follow Me mode and that **ANAFI** is tracking you.

Tap the "Select Dronie" box in the bottom bar of the HUD.

Tap a Dronie to select it. Tap the option you have chosen to activate the Dronie: after 2 seconds, ANAFI starts moving around you. The corresponding Dronie box fills with green as the Dronie unfolds.

- ⚠ **Activate and monitor the Follow Me mode and each Dronie with care: always check your flight plan is clear from obstacles and safe, always retain visual contact with ANAFI, and always be ready to stop the following (tap the “STOP” box of your HUD) in case a danger or any sort of unexpected obstacle arises.**
- ⚠ **To optimize the drone’s tracking, always make sure you remain visible by ANAFI: do not let an obstacle obstruct the camera’s view and do not hide in the shadows, or ANAFI could lose track of you.**

## SmartDronies

ANAFI features four SmartDronies:

- the **Orbit**, **Parabola** and **Boomerang** Dronie can be accessed through this menu - refer to the above section for details about the **Boomerang** Dronie;
- however, the smartest of ANAFI's dronies is the **Dolly Zoom**.

We will not spoil it for you: just make sure you have a memorable scenery behind you. Frame yourself (or better yet, your group of friends!) with ANAFI: keep the drone at least 5 meters away, at man level, between 1 and 2 meters above the ground.

**Check that the flight path of your drone is perfectly clear: at least 30 meters behind it, flat and without obstacles.**

**Tap “SmartDronies” from the “PILOTING MODE” box menu.**

As for the Follow Me mode, both a drone GPS synchronization and a device GPS synchronization are imperative to activate this mode: upon first activation, the same warning page appears as for the Follow Me mode. Tick the box on the bottom left on the page if you do not want this warning to appear again when no prerequisite is missing. Tap “FLY” to access the SmartDronies mode.

**Tap the Dolly Zoom Dronie to open its three options: try them all and enjoy the magic!**

## FPV

Prerequisites for accessing FPV Mode: use with **Parrot Cockpitglasses 3** and it is essential to be connected to the **Parrot Skycontroller 3** via a USB cable.

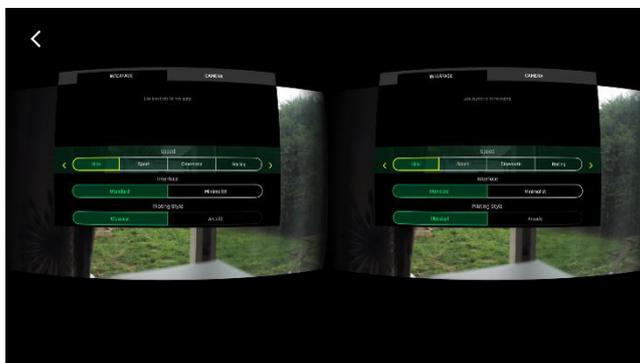
Touch the **FPV** tile from the home page or touch the **FPV** tile accessible via the “PILOTING MODES” menu.

## FPV Settings

The settings can only be accessed if the **Parrot Skycontroller 3** is connected to the terminal via a USB cable. The settings can be navigated through the **Parrot Skycontroller 3** and your drone will remain in hover mode until the user has exited the Settings menu. There are two main modes: Interface and Camera.

Access the sub-menus of the Interface Mode using the joysticks of your **Parrot Skycontroller 3** to navigate. Your drone will remain in hover mode while you change the settings. Drag the cursor over the text boxes to access their headings.

- Speed **Film** / Sport / Cinematic/ Racing
- Interface **Standard** / Minimalist
- Piloting style **Classic** / Arcade (not available while the drone is landed)



Interface settings in FPV

The Camera settings allow you to choose between the Photo and Video modes.

For each item of the Photo menu, drag the cursor to select a value.

- Single
- Burst
- Bracketing 3 photos / 5 photos / 7 photos
- Timer 3 sec / 5 sec / 10 sec
- Panorama Vertical / Horizontal / 360
- Timelapse 5s / 10s / 15s / 30s
- GPS Lapse 5m / 10m / 20m / 50m

For each item of the Video menu, drag the cursor to select a value.

- Standard
- Cinema
- Hyperlapse x15 / x30 / x60 / x120 / x240
- Timer 3 sec / 5 sec / 10 sec

- Slow-Motion x0.25 / x0.5
- High-Framerate x0.25 / x0.5

Drag the cursor to select any of the headings.

- HDR **NO** / YES
- Overexposure **NO** / YES
- Imaging Settings **Auto** / Pro

Image Settings in Pro mode provide access to an additional section where you can manually select the following options:

- Pro mode Shutter speed / ISO / White balance / EV

For each item, drag the cursor to select a value.

- Shutter speed 1/10 000 second to 1 second (or Auto)
- ISO 100 to 3 200 (or Auto)
- White Balance Incandescent, Fluo, Sunny, Cloud, Shaded or Custom (or Auto)
- Global EV -3,0 V à +3,0 V (or Auto)



Camera settings in FPV

### See Through mode

The user has direct access to SeeThrough mode via the bottom button of the **Parrot Cockpitglasses 3**.

SeeThrough mode gives the user a live view of the surroundings via the terminal's camera. Parrot recommends that you use the SeeThrough mode when your drone is taking off, in order to have a better display of the scene.

When your drone is flying and the GPS of your drone is recognised and is located more than 10 m from the user, a brightly-coloured widget icon marks its location and direction in augmented reality.

## Touch & Fly: Waypoint

Waypoint is the default “Touch & Fly” mode. It enables you to fly ANAFI to any point on the map. Tap “Touch & Fly” from the “PILOTING MODE” box menu. The map of your surroundings opens full screen. The live image captured by ANAFI is minimized in the bottom right corner of your screen.

**Tap a point on the map to select a destination for ANAFI:** this point is marked as a white circle with an orange border. ANAFI immediately starts flying toward the selected point. Use the slider on the right of the screen to control the drone's altitude (the orange figure inside the circle) when it reaches its destination.



*iOS Touch & Fly: ANAFI flying to its destination*

## Touch & Fly: POI

To access the POI Touch & Fly option, tap the “Type” box from the lower bar of the HUD, and select POI.

In POI mode, press and hold a point on the map to create a point of interest (POI), marked as a white square diamond with a blue border. Control the height of the POI (the blue figure inside the square diamond) through the slider on the right: this effectively controls the tilt of the gimbal, while you use the **Parrot Skycontroller 3** to fly around your target. ANAFI remains focused on the POI.



*iOS Touch & Fly: POI*

## ANAFI

Tap “STOP” from the red box at the center of the top bar of your screen to halt ANAFI, or to reset a POI.

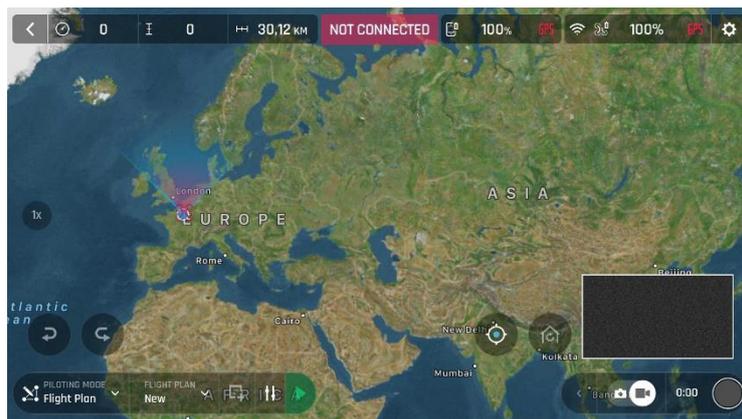
From the “Dronies” box, next to the “Type” box of the lower bar of the HUD, you can also shoot Dronies (**Orbit**, **Parabola**, **Dolly Zoom**, **Boomerang**) of your POI.

### Flight Plan (in-app purchase)

**Flight Plan is a powerful tool, which enables you to fully prepare and configure your flights and filming sessions, from home, on the train, in a plane, or anywhere else you can take your phone with you.**

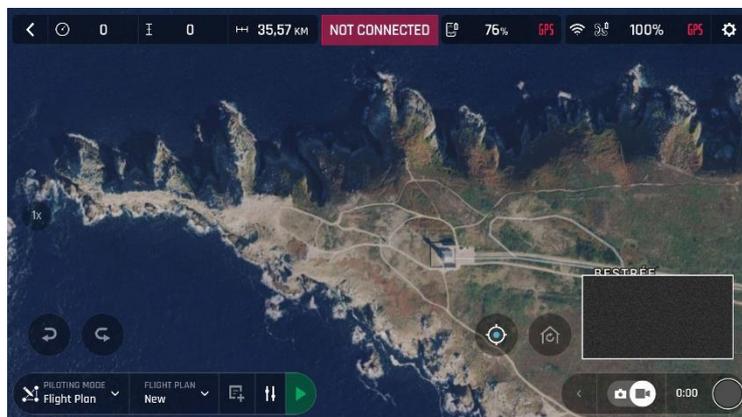
**Through an example, this section will teach you the basics of automated flight and shooting management, with ANAFI and Flight Plan.**

**Tap Flight Plan from the “PILOTING MODE” box menu.** The map of your surroundings opens full screen. If you are not connected to ANAFI, the minimized live view is black, as on the screen captures that follow. Find your next dream flying spot on the map.



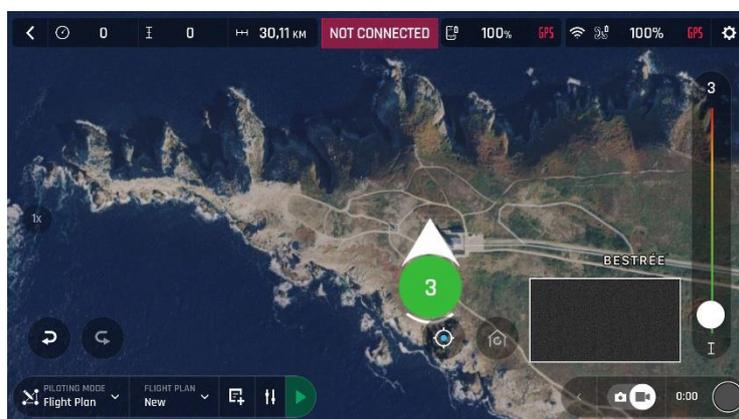
*iOS Flight Plan*

Consider this pointy bit of land, with a lighthouse in the middle. Say you could fly ANAFI and shoot a film there. Let's do it!



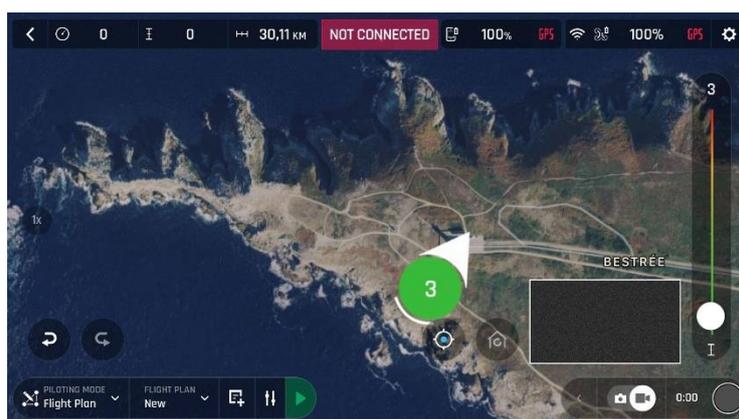
*iOS: new Flight Plan*

**First, select your initial waypoint: ideally, very close to your intended take-off point. Tap the screen to set it.** The green circle represents the waypoint, the white figure the altitude of the drone, and the white arrow the direction of ANAFI's camera.



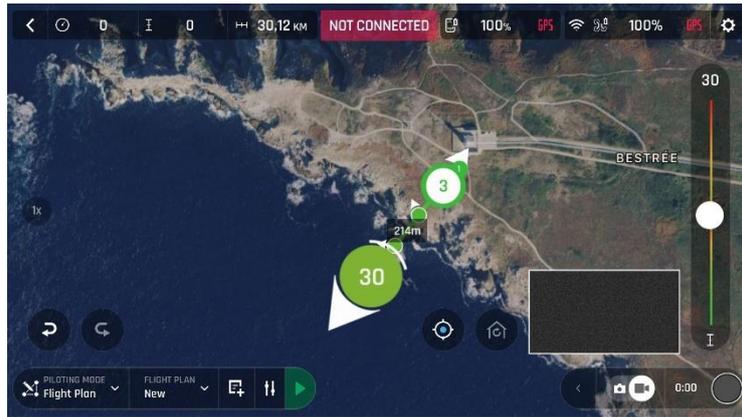
*iOS: initial waypoint*

**Tap the white arrow and hold it to move it around.** In this example, we want ANAFI to frame the lighthouse as it starts the flight.



*iOS: initial waypoint, with the camera framing the lighthouse*

**Tap the map to set the second waypoint:** the distance between the two waypoints appears on the screen. Use the slider on the right of the screen to set the altitude of the waypoint. In this example, ANAFI will climb from 3 to 30 meters between the initial waypoint and the second waypoint.



iOS: second waypoint

Add waypoints to tour the area and end your Flight Plan where you intend to land.



iOS: full Flight Plan

The tip of the peninsula is a POI: we want ANAFI to focus on it while it flies around it. **Tap it and hold your finger on the screen to call choices (POI/Close).**



iOS: setting a POI

**Tap “Point of interest” to add the POI.** It appears as a blue square diamond. The figure in the center represents the height of the POI, which you can modify using the slider on the right of the screen. All waypoints turn white as they can now be selected to be linked to the POI.



*iOS: open waypoints*

**Tap waypoints to link them to the POI.** In this example, we want ANAFI to film the tip of the peninsula as it flies around it; we have selected the three waypoints to the left of the peninsula. The arrows of those waypoints have turned toward the POI and are colored in blue - the last one which was selected has a blue border around the white arrow.



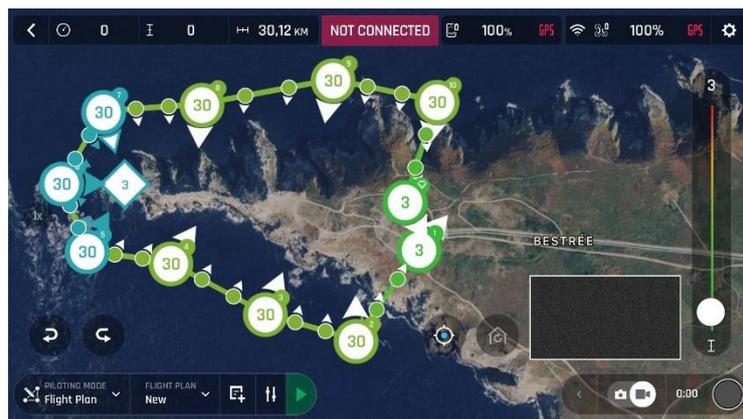
*iOS: three waypoints linked to the POI*

**Tap the POI to confirm your choices.** Blue waypoints are linked to the POI, which appears as a white square diamond with a blue border. During the entire blue part of the flight, ANAFI's camera will stay focused on the tip of the peninsula, enabling you to achieve the smoothest flyby shoot. Green waypoints remain independent from the POI.



*iOS: POI Flight Plan*

**Tap a green waypoint to edit it:** use the slider on the right of the screen to modify its height; tap and move its white arrow to set the direction of ANAFI's camera. For this example, we had the drone point toward the land at most steps of the Flight Plan, and toward the lighthouse at take-off and landing, with a descent from 30 to 3 meters between the last two waypoints.



*iOS: POI Flight Plan*

All you have to do now is to close **FreeFlight 6**, to get to your flying spot, to prepare ANAFI, your **Parrot Skycontroller 3** and your device for the flight.

Tap the "PILOTING MODE" box on the HUD to call the options. Select "Flight Plan": the last plan you have set up appears.

**Tap the green arrow on the right of the left bottom bar of the Flight Plan interface to begin the Flight Plan: ANAFI takes off, flies to the first waypoint and starts the Flight Plan. At the end of the Flight Plan, depending on your settings and depending on your version of FreeFlight 6, ANAFI lands at, or hovers over, the last waypoint you have set.**

That is why, for this section, we have chosen to consider that ANAFI's final waypoint is also its landing spot.

- ⚠ Activate and monitor every Flight Plan with extreme care: always check your drone's route is clear from obstacles and safe, always retain visual contact with ANAFI, and always be ready to stop the Flight Plan (tap the "STOP" box of your HUD or reclaim commands of the drone) in case a danger or any sort of unexpected obstacle arises.**

## CONTROLS

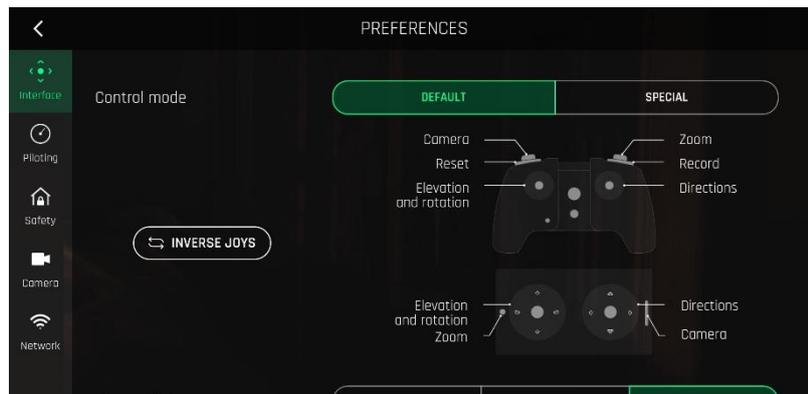
The controls for each of the Classic and Arcade modes are described below.

### Classic mode

The prerequisites for using Classic mode are:

- to be connected to the Parrot Skycontroller 3 via a USB cable,
- or to be connected to the Wi-Fi network of your drone and to use the virtual joysticks directly on the screen of your terminal.

Refer to the "FLY" Paragraph for a description of the Classic mode joysticks.



*Joysticks: Classic mode*

### Arcade mode

Arcade mode is a Flying mode in which the reference used is the inclination of the camera. This is a different way of piloting; the user can switch between Classic mode and Arcade mode in the HUD Presets box.

The prerequisites for using Arcade mode are:

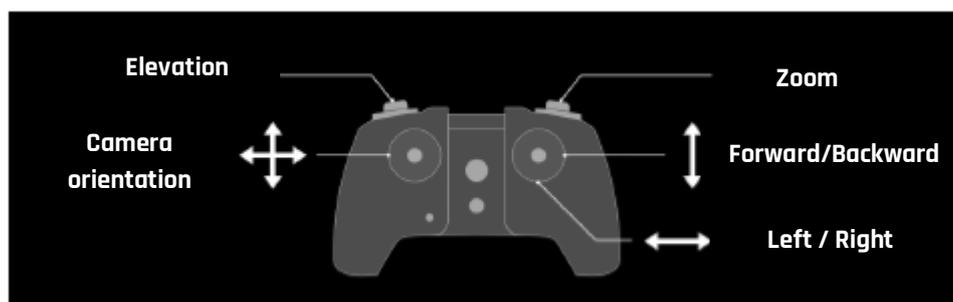
- to be connected to the **Parrot Skycontroller 3** via a USB cable, and
- to have taken off.

Note that Arcade mode is compatible with:

- All piloting modes, including FPV
- All photo and video modes
- All flying settings
- Thermal mode

### Joysticks

The joysticks are used differently from the Classic mode in that your drone will advance, using the joysticks of the **Parrot Skycontroller 3**, in the direction shown by the camera in immersed mode.



*Joysticks: Arcade mode*

### Activating Arcade mode

There are two ways to enable Arcade mode:

- Via the flying modes on the HUD:
  - Enter the HUD,
  - Tap the "PILOTING MODE" box in the bottom bar of the HUD, and
  - Select "Arcade"
- Via the Interface Settings

### Exit Arcade mode

A marker appears in the HUD and shows when the flying mode returns to Classic mode automatically:

- When an RTH is activated (manually or after disconnection),
- When your drone is landing,
- When the **Skycontroller 3**, the terminal or your drone is disconnected.

### Central target

When the user uses Arcade mode, a central target appears in the centre of the screen:

- It is also displayed in minimalist mode.
- It consists of two circles:
  - The largest circle remains stationary. When the dynamic horizon is activated, the vertical line follows the horizon line,
  - The smallest circle moves inside the largest circle but the horizon line remains immobile inside the HUD (in other words, it does not follow the attitude of the drone),
  - When the drone moves to the right, the circle moves to the right,
  - When the incline of the camera is directed upwards, the circle moves upwards,
  - When the drone moves forward, the circle becomes larger,
  - When the drone moves backwards, the circle becomes smaller.

*If you have feedback or comments about the v2.3 of this user guide, please reach out to:*

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