

## SEFLY QUICK USER MANUAL

Thank you for choosing SEFLY. Please read the general instructions to get the best enjoyable experience from your SEFLY Camera.

SEFLY is a mini, light weight flying camera, it is equipped with stabilizing autonomous hovering ability.

Please see the quick tutorial, and use the simulator before flight, these are found on the 'Learn SEFLY' page in the APP.

For best flight performance, follow the next rules:

- Take off from a horizontal surface.
- Unfold the motors to a fully horizontal position.
- Make sure the propellers are undamaged and straight.
- Do not fly in windy locations.
- Fly in a well-lit area for best drift detection, (executed by vertical camera)

### General:

- General view:



- **Batteries** – Are replaceable and can be charged when placed in the drone by connecting a USB-C cable that is provided in the package, to the front USB-C port located next to the drone's front camera lens. The batteries can be charged by using the dedicated power bank (see separate section) not provided in the basic package. Fully charge the batteries before the use, the batteries are not full when delivered

## **Connecting SELFLY / Powering on:**

- Download the SELFLY APP called- 'AEE SELFLY' found on google play and Apple store.
- Fully charge the batteries before the use, the batteries are not full when delivered.
- Press the On/Off button located on top until the BLUE LED stops blinking (remains blue). Then go to your WiFi interface on your Phone. (Please don't leave SELFLY on if not in use, it will drain out the battery)
- Wi-fi connection - Search the Wi-Fi named "Selfly\_xxxxxxx", enter the Password: "00000000" (8 times 0). After Wi-Fi is successfully connected, the Wi-Fi indicator (LED inside the body) will be green.
- The message "there may not be internet connection" is normal at this stage and indicates that the smartphones Wi-Fi port is connected to a device and not to an internet modem. You can still have internet access via cellular communication (3G)
- Open the SELFLY App, From the home page you can access 'Your Gallery' , 'Settings' and the 'Learn SELFLY' page. Press the 'CONNECT' button to reach the flight screen.



V1.0.5

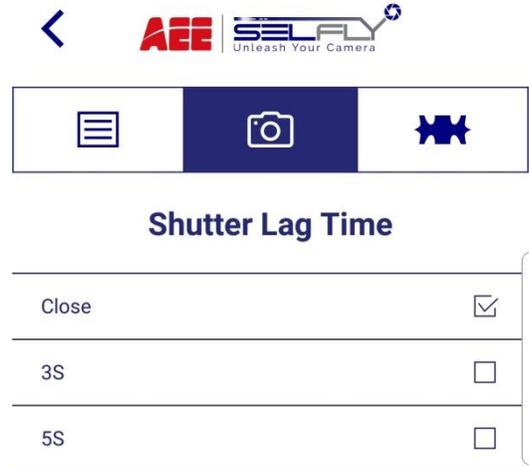
CONNECT



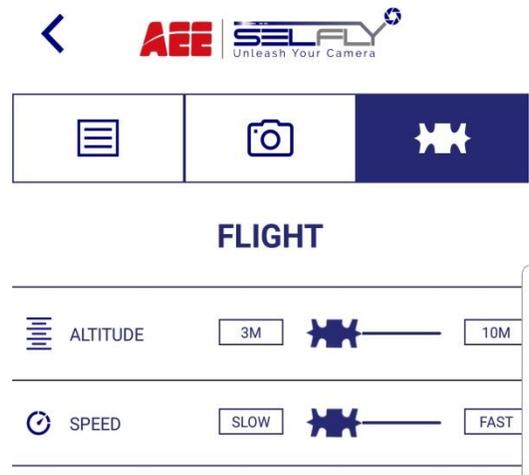
## SETTINGS

- In the Settings menu, you can choose between **Camera settings** and **Flight settings**.

**Camera settings-** Set the camera Shutter delay



**Flight Settings-** Set the maximum altitude and rotational speed



**Calibration-** After a hard crash or when drone flight is unstable, it is recommended to calibrate the sensors.

Place SELFLY on a horizontal surface and press 'Calibration' after a few seconds the process will be completed.

## GALLERY

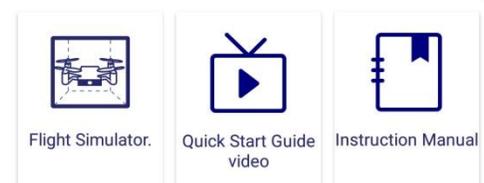
All images and footage will be stored in the 'Gallery', from there you can choose, edit and upload an image or video to any social network.

## LEARN SELFLY

Here you can find the 'Quick Start Guide' Video, the 'Full Instruction Manual' and the 'Flight Simulator'. Please see the quick tutorial, and use the simulator before flight, these are found on the 'Learn SELFLY' page in the APP.



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# Flight

## General flight screen icons –



1. Back to Home Screen
2. Wi-Fi signal level
3. Battery level
4. Joystick Control mode
5. Fly-Pod Control mode
6. Fly by Picture mode
7. Gallery
8. Fixed Heading Mode
9. Follow / Face detection
10. Settings
11. Vertical speed
12. Height
13. Take Off / Land button

### General:

- We highly recommend when using SELFLY for the 1<sup>st</sup> time, to do it indoors, in a wide, bright area, to get used to its unique control systems and to get acquainted with its many different flight modes. Gradually, after you get familiar with your abilities and limitations, you can expand your boundaries and increase the performance.
- To start flying, after the Wi-Fi connection is set, press the 'Take-off' button and SELFLY will take off and hover at approx. 1.5 meters / 5ft. SELFLY is a selfie camera thus the regular flight position is when the camera is facing the user, in this position the users left/right orientation is same as drones.
- **'Fixed heading mode'** enables you to choose if you control the drone by your orientation of directions or the drone's orientation (it is the opposite when the drone is not facing you). When you push the stick to the left, the drone will roll to his left as well if the drone is facing you, it will be your left when the drone is not facing you it will be your right. In the 'fixed heading mode" the drone will roll to the side you push the stick even if it is not facing you.

This allows you to give up worrying about orientation altogether. This mode is simple; the only prerequisite is that before taking off, you're required to position the drone in such a way that the camera is facing you. This comes very useful for Selfie use in which the drone is facing you.

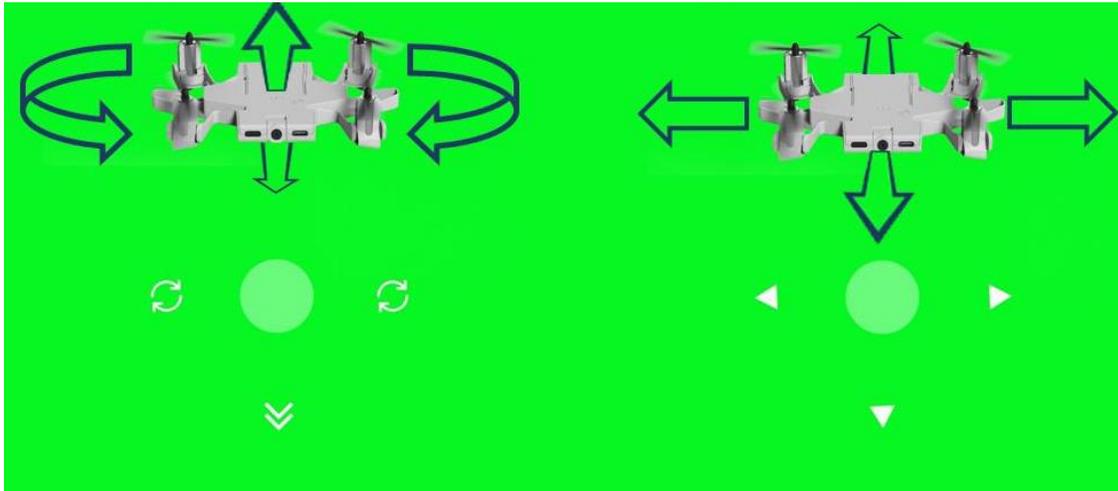
In regular mode, when the camera is facing you, your orientation of directions is the same as the drone's orientation.

- For your safety connect the propeller guards that are in the package, please note that there are 2 different pairs of propeller guards, A&B, that should be connected to the motor house that has the same letter on its propeller.
- SELFLY must be horizontal during take-off.

### **Flight Control Modes:**

- SELFLY is equipped with autonomous hovering sensors such as optical flow camera and an ultrasonic distance sensor, there are environmental factors that affect their accuracy. each sensor has its limitations. The ideal environment for autonomous hovering is a **well lighted and spacious area**. The Optical flow system needs a shape or pattern to lock location, a one-color shiny floor will be difficult to lock on. In any case, you should master at least one flight control mode, if you are inexperienced in flying drones please practice the SELFLY simulator before the real flight.  
SELFLY is a small, light flying platform. As any light flying system, it is prone to be more sensitive to unstable air and **wind**. Do not fly SELFLY outdoors in a windy location.
- In all modes, when pressing the 'Take off' button, (after confirming it is placed on a horizontal surface), SELFLY will autonomously take off and stop to hover at about 5ft. (1.5m) no need to push the throttle.
- Mastering the controls is the key to success with piloting. SELFLY has three piloting modes; we recommend starting with the basic "**Fly by stick**" – your left stick is throttle (up/down) and yaw (left/right). Your right stick is pitch (up/down) and roll (left/right).

## 'Fly by Joystick'



- Pushing the right stick forward moves *SELFY* forward (pitch)
- Pushing the right stick backward moves *SELFY* backward (pitch)

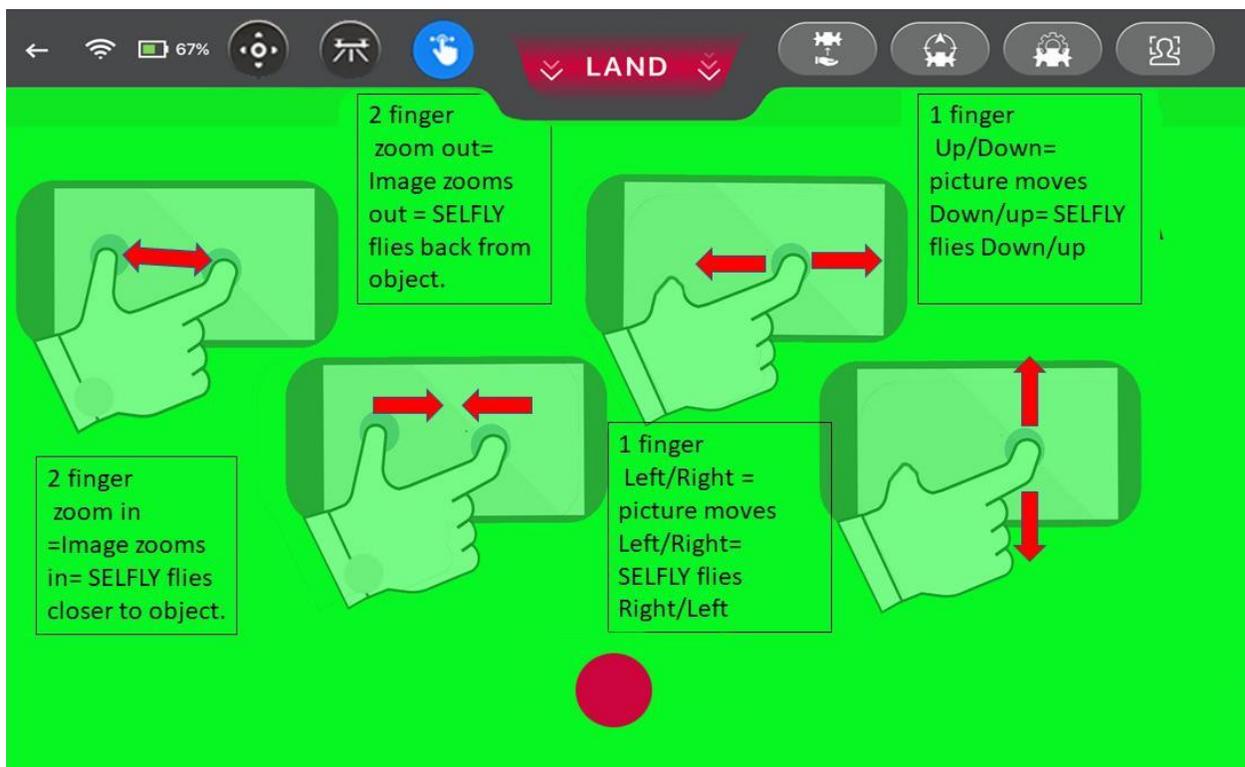
You have to know where the front and back of the drone is. Position yourself in front of the drone before taking off while the camera is facing you.

## 'Fly Pod'



Control SELFLY as if you are controlling a camera mounted on a tripod. On the left you have an icon of SELFLY on a tripod, you can set the height by moving the SELFLY icon up and down on the scale. To rotate left and right press the two arrows on the sides, each time you press the arrow SELFLY will rotate by 20 °-30° accordingly. The right stick is normal pitch (up/down) and roll (left/right).

## 'Fly by Picture'



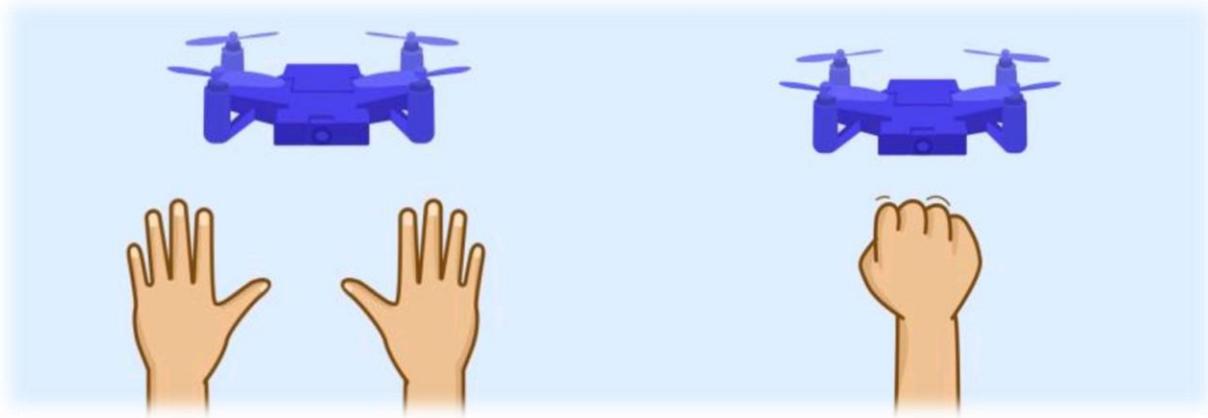
Control SELFLY as if you are controlling a photo on the screen. Manipulate with your finger, the picture (1<sup>st</sup> pilot view) you see on the screen the way you want it to be, your request will be translated to flight orders that will be sent to the drone who will act accordingly.

Zoom in to enlarge the image, SELFLY will fly towards you and thus the image will be enlarged.

Zoom out – SELFLY will fly away from you resulting the image to be zoomed out.

## Face recognition / Follow me

Activate this mode by pressing button number 9, a green square will indicate that SELFLY has detected a face and locked on it. SELFLY will follow the movement of the detected face. Back light (behind the face and toward the camera) decreases the efficiency of this mode.



## Gesture control

SELFLY has a gesture control feature, when recognizing a fist next to the users face, a red square will appear around the fist adjacent to the green square around the face and a photo will be executed.

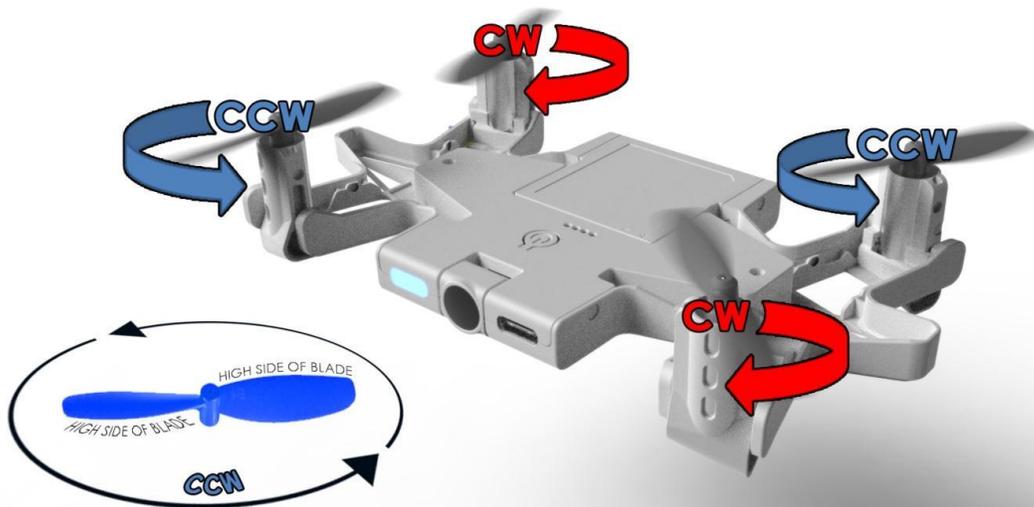
When recognizing 2 open hands adjacent to the face, SELFLY will fly back in front of the user and land.

## Propellers

Make sure the propellers are undamaged and straight, SELFLY will hover autonomously only if the propellers are intact and straight.

Occasionally after crashing propellers might need to be replaced.

The propellers are held in place by friction to the shaft of the motor. To take them off you can use a straight screwdriver or any other hard flat head instrument, place it between the propeller and the motor and by rotating the instrument the propeller will be pushed off the motor shaft. To place a propeller back on the motor, you can push it back to place by hand. There are two different types of propellers; every type has its specific place – that can't be changed. Every opposite couple of propellers are of the same kind and are marked by A & B. If using regular 55mm / 1mm shaft props the motors might not be able to fold properly.



### Flight tips:

- Before you start flying, there are some things you've got to check first. You should have a kind of automatic "pre-flight checklist." **Batteries** should be charged and properly inserted. **Motors** should be locked in a straight position. **Propellers** should be in place and in excellent condition. **Phone's battery** should not be running too low. Wi-Fi should be connected to the APP, and the flight area should be clear. Going through these checks ensures that you won't be surprised while flying.
- Dedicate the first flights to learn and get familiar with this system, find a large room, with enough lighting and gradually try the different modes and features.
- It is advised to take off while the drone is placed on a flat horizontal surface, for precise calibration.

- After a crash, check that all propellers are not broken and are firmly attached. In order to recalibrate restart the drone while placed on a flat horizontal surface.
- Charge your battery - before you take off, you'll have to **charge the battery first**. The battery can be charged when placed in the drone by connecting a USB-C cable, that is provided in the package, to the front USB-C port that is located next to the drone's front camera lens. The batteries can be charged by using the dedicated power bank or by using the external charger (not provided in basic package).
- SELFLY is a small, light flying platform. As any light flying system, it is prone to be more sensitive to unstable air and **wind**. Do not fly SELFLY outdoors in a windy location.
- SELFLY is not **water** resistant - do not use it in a wet environment or rain.
- Don't fly SELFLY over crowds or traffic.
- SELFLY has a unique motor folding mechanism. Before takeoff, make sure the motors are completely vertical and the hinge is fully open.
- The **Ultrasonic sensor** that continually measures the height is less accurate above "hairy" or soft surfaces like grass, carpets, and water.
- Keep a direct line of sight always when flying, so you can always see the drone.
- Keep the Wi-Fi range in mind, and don't let your SELFLY fly out of that range, Remember, SELFLY is an invisible tripod, not a drone you want to fly far away from you.
- If you're about to crash into something, turn the motors off by pressing the land button and then the emergency button (It is the same button twice)
- Keep a safe distance from people or animals. Any crashes could cause injury.
- Keep your fingers away from the propellers when they're spinning, they might be dangerous.
- Panic Mode – In case the Wi-Fi signal is lost, or the battery reaches 10% of full capacity, SELFLY enters a 'panic mode' in which it gently lands Automatically.
- Please don't leave SELFLY on if not in use, it will drain out the battery.

## Power Bank

This dedicated 500mAh Power Bank is a charging docking station. When the SELFLY camera is docked in, it is automatically charged. During charging process, the capacity LED indicator lights are turned off. Please note that there is only one correct way to dock as marked by an arrow.

Charge the power bank itself via the USB port in front.

There is a unique docking point for an individual battery, so you can charge a single battery while the SELFLY camera is not on the power bank. Insert the battery into the battery charging slot **press the power key for 3s to start up the charging process.**

