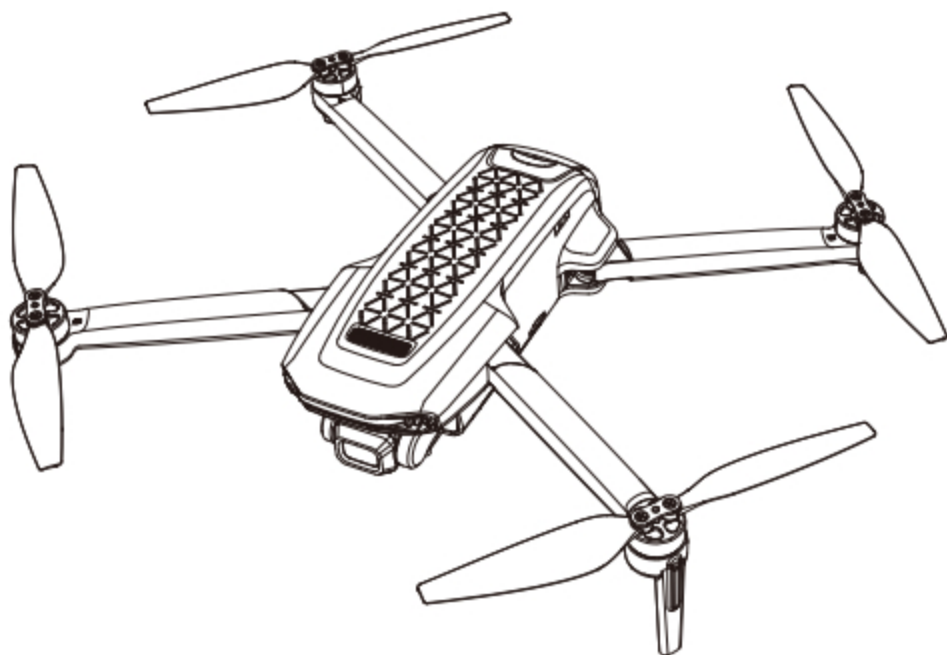


Bwine®

14+
for age


User Manual

v1.0



F7GIM


CONTACT US FOR MORE TECH SUPPORT

 +1 (619) 614-7960 | Mon-Sun 7:00AM-1:00AM(PST)



Grasp Fun, Enjoy Life.

CONTACT US FOR MORE TECH SUPPORT

 +1 (619) 614-7960 | Mon-Sun 7:00AM-1:00AM(PST)

 + 86 133 0274 4119  Bwinedrone@gmail.com



Content

1. Reading Tips	1
1.1 Symbols Explanation	1
1.2 Read Before the First Flight	1
1.3 Download App	1
1.4 Tutorial Videos	2
1.5 FAA Remote ID Registration Process	2
2. Product Profile	8
2.1 Introduction	8
2.2 Product List	8
2.3 Diagram	9
3. Aircraft	13
3.1 Speed Mode	13
3.2 Aircraft Status Indicator	14
3.3 TOF, Optical Flow Positioning	15
3.4 Propellers	17
3.5 Smart Flight Battery	18
3.6 Camera Overview	22
4. Remote Controller	25
4.1 Introduction	25
4.2 Remote Controller Instructions	25
4.3 Communication Range	29
4.4 Remote Controller Pairing	30

5. Bwine Mini App	31
5.1 Home Screen	31
5.2 Control Interface	32
5.3 Parameter	35
5.4 Track	37
5.5 Other	38
 6 Flight	 39
6.1 Flight Environment Requirements	39
6.2 Pre-Flight Checklist	40
6.3 Pairing Remote Controller with Aircraft	40
6.4 Connect the Data Cable	41
6.5 Compass Calibration	43
6.6 Gyroscope Calibration	45
6.7 Starting/Stopping the Motor	46
6.8 One-key Takeoff/Landing	47
6.9 Return to Home (RTH)	49
6.10 Smart Flight (Route Planning, GPS Follow, Fly Around, Cruise Control)	53
6.11 How to take off the Aircraft	60
6.12 Aerial Photography Tips	61
 7. Appendix	 61
7.1 Specifications & Parameters	62
7.2 Accessories Support	64
7.3 Common Problems and Solutions	65

1. Reading Tips

1.1 Symbol Explanation

✓ Recommend ✗ Warning ⚠ Hints & Tips 📖 Reference

1.2 Read Before the First Flight

- Read the following documents before using the Bwine F7GIM
 1. User Manual
 2. Flight Guide & Safety Disclaimer
- It is recommended to watch all tutorial videos on our website and read the Flight Guide & Safety Disclaimer before using for the first time.

1.3 Download the Bwine Mini App

- Please make sure to use Bwine Mini App during the flight. Scan the QR code to download the latest version of the app.
- Bwine Mini App supports Android 7.1 or higher, iOS 13.0 or higher.



(For Android)



(For iOS)

1.4 Tutorial Videos

- Scan the QR code to watch the tutorial videos from YouTube to ensure correct and safe use of the product.

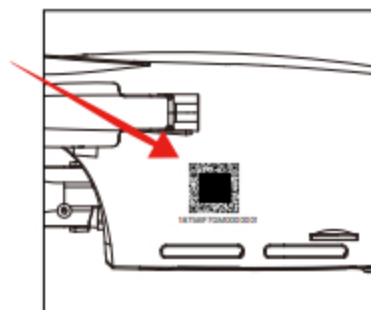


1.5 FAA Remote ID Registration Process

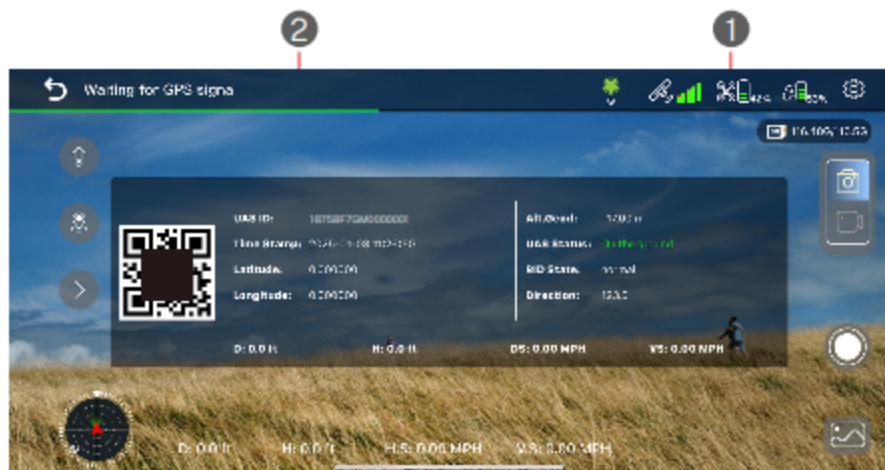
1.5.1 Find the Serial Number

- The F7GIM comes with a built-in FAA Remote ID module. You can obtain the unique Remote ID serial number through the app or on the aircraft itself. Please register according to your local regulations.

① Remote ID serial number on the aircraft.

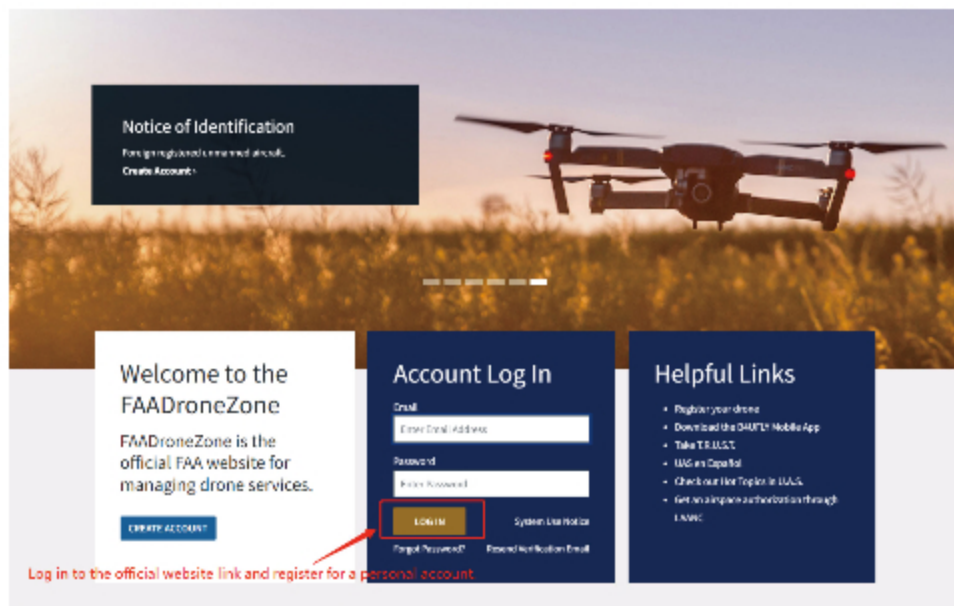


- ② Bwine Mini App: Successfully pair the aircraft with the remote controller --> Insert the data cable --> enter the "Bwine Mini" app --> enter CONTROL page --> Click the power icon in the upper right corner --> the RID information will pop.



1.5.2 Registration

- ① Please go to FAA website: <https://faadronezone-access.faa.gov/#/>
- ② Please complete and submit the information following these steps.



Unofficial website of the United States government <https://www.faa.gov>

United States Department of Transportation

Federal Aviation Administration
FAADroneZone

Contact Drone Events Help Log Out

Recreational Flyers Certified Remote Pilots Public Safety & Government Educational Institutions Where Can I Fly? UAS on Display

HOME / FAADroneZONE SERVICES

Select Add "Drone Owners and Pilots" item

FAADroneZone Services

Thank you for registering an FAADroneZone Access account. To proceed, simply add an FAADroneZone Service using the Add a Service option below.

Drone Owners and Pilots

Drone Owners and Pilots who need to complete the following tasks:

- Registration
- Waivers
- Insurance Authorization

Not sure which rules to follow? We can help you.

LAUNCH DRONE OWNERS AND PILOTS DASHBOARD

+ Add a Service

Unofficial website of the United States government <https://www.faa.gov>

United States Department of Transportation

Federal Aviation Administration
FAADroneZone

Contact Help Log Out

Part 107 Add Account Type

PART 107 DASHBOARD

Part 107 Dashboard

Inventory

1
Total Devices

1 Active Device

MANAGE DEVICE INVENTORY

Part 107 Users

1
Total Users

1 Active User

MANAGE USER ACCOUNTS

Federal Aviation
Administration
FAADroneZone

Contact Help Log Out

Part 107 Add Account Type

PART 107 DRONEZONES / MYDRONE

Your Shopping Cart

Part 107 operators must add manufacturer and model information for all UAS that they own and operate. For standard remote identification UAS and broadcast modules, you'll also be required to provide the serial number. Each broadcast module's serial number may only be associated with a single specific UAS and may not be used on more than one registration.



FAA Notice

Your cart is empty.

ADD DRONE

Add Device



* Indicates a required field or that a selection is required.

DOES YOUR DRONE BROADCAST FAA REMOTE ID INFORMATION?*

1



YES



NO

Not sure? Contact your UAS manufacturer or see if your drone is listed here: <https://uasdoc.faa.gov/listDocs>

2

UAS TYPE*

Standard Remote ID

NICKNAME

Enter a nickname

UAS MANUFACTURER*

Bwine

UAS MODEL*

F7GIM

REMOTE ID SERIAL NUMBER*

1875BF7GM0000001

3

Not sure if you have a Remote ID Serial Number? Contact your Manufacturer.

CANCEL

ADD DEVICE

4



Your Shopping Cart

ADD DEVICE

Part 107 operators must add manufacturer and model information for all UAS that they own and operate. For standard remote identification UAS and broadcast modules, you'll also be required to provide the serial number. Each broadcast module serial number may only be associated with a single, specific UAS and may not be listed on more than one registration.

Filter by:

WISERNAME	UAS MANUFACTURER	UAS MODEL	SERIAL NUMBER	REMOTE ID	DEVICE TYPE	ADDED BY	AMOUNT	ACTIONS
Online	F7GIM	1875BF7GIM0000001	NS	Standard Remote ID	Jing Lin	\$5.00		
Select "CHECKOUT" and fill in your personal information to make a payment of \$5							TOTAL:	\$5.00

CHECKOUT



1. Operational Requirements

2. Payment

3. Review & Pay

4. Confirmation

Payment Information

* Indicated as required field.

Credit Card Info

CARD NUMBER*

Enter Card Number

CVC/CVV*

Enter CVC/CVV

EXPIRATION*

MM

/

YY

Billing Address

☐ Use Mailing Address

FIRST NAME*

Jing

LAST NAME*

Lin

COUNTRY*

United States

ADDRESS*

Enter Address Address Line

ADDRESS*

Enter Address Address Line

CITY*

Enter City

STATE / PROVINCE / REGION*

Select a State

ZIP*

Enter Zip

MARK YOUR AIRCRAFT

- When you register, you will receive a unique registration number valid for a year, after a year, you must renew your aircraft registration.
- You must mark each aircraft with the assigned unique registration number before it is operated.

BACK

NEXT

Small UAS Certificate of Registration

Registered Owner: JingYuLian

UAS Manufacturer: Bwine

UAS Model: F7GIM

Serial Number: 1875BF7GM0000001

Registration Number: FA3KTPA3H3

Issued: 07/06/2023

Expires: 07/06/2026



This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying requirements, please visit the FAA website at www.faa.gov/uas.

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

Operators of unmanned aircraft must ensure they comply with the appropriate safety authority from the FAA and economic authority from the DOT.

- The aircraft will start broadcasting the FAA remote ID signal when the aircraft's motors begin to spin.

2 Product Profile

2.1 Introduction

- The Bwine F7GIM features a foldable design and weighs about 357g. It offers stable hovering and flying capabilities outdoors with impressive shooting performance. Equipped with upgraded 5.8GHz Wi-Fi FPV real-time transmission, it includes a 75° FOV lens and a 90° adjustable camera. The camera captures 4K HD video and 6K UHD photos, providing a wide view to capture your moments. The advanced flight-control system ensures agile, stable, and safe flying. With auto RTH, the aircraft will automatically return to its starting point and land if it loses signal or the battery is low. Please use the product in accordance with local laws and regulations.

2.2 Product List



Drone



Remote Controller



Smart Flight Battery



Camera Cover



Spare Propeller



Charging Cable



Screwdriver



Screw



Type-C to Micro-USB cable



User Manual

Flight Guide &
Safety Disclaimer

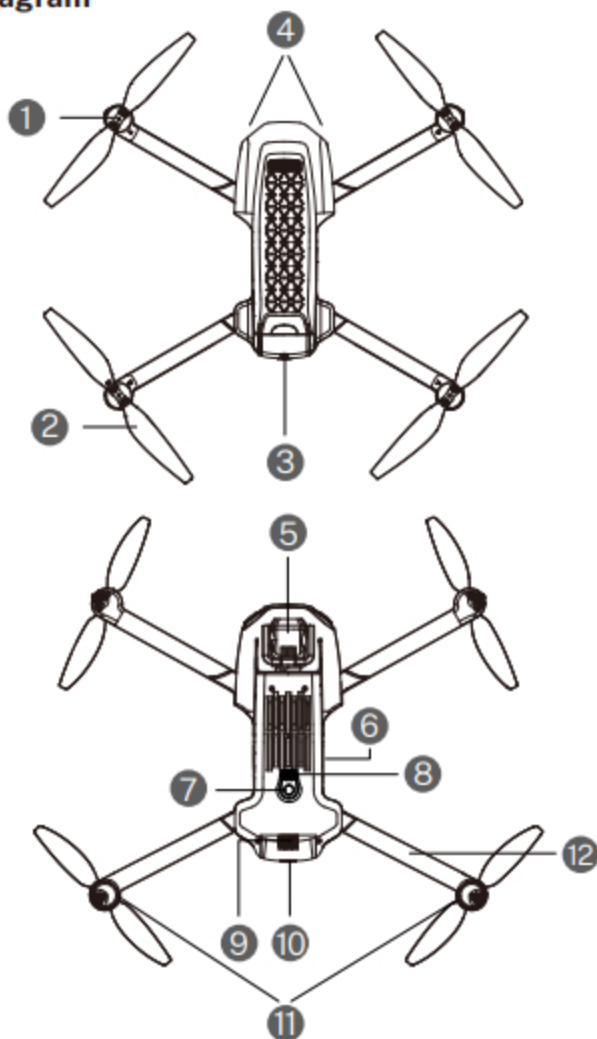
Type-C to Type-C cable



Type-C to Lightning cable

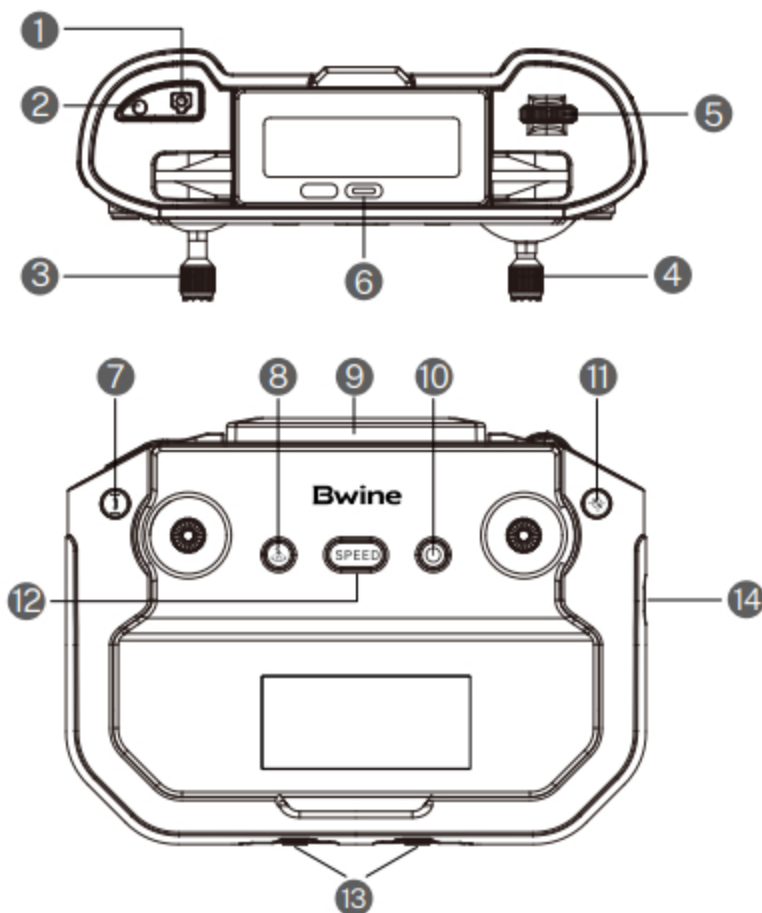
2.3 Diagram

2.3.1 Aircraft Diagram



- | | |
|-------------------------------------|--------------------------------------|
| ① Propeller | ⑦ Optical Flow Sensor |
| ② Motor | ⑧ Infrared TOF Sensor |
| ③ Smart Flight Battery | ⑨ Battery Buckle |
| ④ LED Light | ⑩ Power Button |
| ⑤ 3-Axis Brushless
Gimbal Camera | ⑪ Aircraft Status
Indicator Light |
| ⑥ SD Card Slot | ⑫ Arm |

2.3.2 Remote Controller Diagram



1 Shutter Button

Short press once to take a picture.

2 Record Button

(1) Record: Short press it to start/stop recording.

(2) Switch to Japanese stick mode: Hold down the recording button and then power on the remote controller (Short-press it then long-press the power button).

3 Left Joystick

(American stick mode) Throttle stick, used to adjust the aircraft's altitude and control the direction of the front of the aircraft. For more details, please refer to section 4.2.5.

4 Right Joystick:

Directional stick, used to control the aircraft's flight direction (forward/backward/left/right). For more details, please refer to section 4.2.5.

5 Gimbal Gear

Adjust the Gimbal Camera Angle.

6 Type-C Port for Connecting

Pull out the phone holder to access the Type-C port, then connect the cable to the controller and your phone. The phone will then display the image.

7 One-key Takeoff/ Landing and Cruise Control Button

(1)One-key Takeoff: After unlocking the motor, long press it and the aircraft will automatically take off to a height of about 1.5 meters.

(2)One-key Landing: Long press it while the aircraft is flying and the aircraft will descend to the ground at the existing coordinates.

(3)Cruise Control: Press this button while operating the joysticks to activate the Cruise Control.

8 Smart RTH Button

(1)Press it to initiate automatic Return-to-Home (RTH), where the aircraft will return to its takeoff location and land. (There may be a deviation of up to 3 meters from the takeoff position, depending on GPS signal strength at takeoff.)

(2)To cancel the RTH process, press the button again during the return.

9 Mobile Phone Holder

Flip up to open the holder for placing the mobile phone. The width of the phone holder is adjustable. The maximum adjustable width is suitable for a 6.7-inch phone.

10 Power Button

(1)Turn on the remote controller:

Short-press it then long-press it

(2)Turn off the remote controller:

Long-press it

(3)Check the power level:

Short-press it once

11 Compass Calibration Button


(1)Enter compass calibration:

Short press it

(2) GPS mode/ Attitude mode:

① If GPS signal is not found, press and hold the button for 3 seconds to turn off GPS and switch the aircraft to Attitude Mode.

② When the aircraft is in Attitude Mode, press and hold the button for 3 seconds to turn on GPS and switch to GPS Mode.

 (GPS is turn on by default when powering on, please do not turn it off when flying outdoors to avoid losing the aircraft). (Once GPS signal is acquired, you cannot switch back to Attitude Mode.)

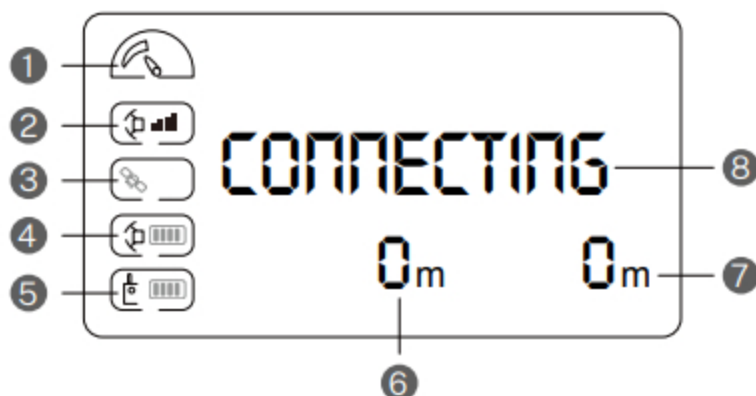
12 SPEED Button

Press down for speed adjustment, (2 speeds in total) default is stable mode, accelerate is sport mode.

13 Sticks Storage Hole**14 Type-C Port for Charging**

This Type-C port on the side of the remote controller is for charging only, not for data connection. Connecting the data cable here by mistake will result in a loss of video transmission. The correct data connection port is **6**.

2.3.3 Remote Controller Display



① Speed

② Aircraft Connection Signal

③ GPS Signal

④ Aircraft Power

⑤ Remote Controller Power

⑥ Flight Distance

⑦ Flight Height

⑧ Status Display

3. Aircraft

- F7GIM aircraft consists of a flight control system, a communication system, an image system, a power system and a smart flight battery.

3.1 Speed Mode











- F7GIM has two speed modes, Stable Mode and Sport Mode. After the aircraft is turned on, the stable speed mode is turned on by default. You can switch by pressing the SPEED button on the remote controller. The stable mode speed is 6m/s and the sport mode speed is 8m/s.



- When wind speed is high, sport mode should be maintained to improve wind resistance effect.
- When flying in sport mode, the pilot should reserve at least 3 meters of braking distance to ensure flight safety.
- When flying in sport mode, the power of the aircraft will be greatly improved, and the small manipulations of the joysticks on the remote controller can result in large flight maneuvers of the aircraft. Please reserve enough flying space to ensure the safety of the flight.

3.2 Aircraft Status Indicator

- The F7GIM status indicator light is located above the front landing gear and is used to display the current status of the flight. Please refer to the table below to understand what each flashing pattern indicates.

Blinking status of the indicator		Conditions
	Indicator is in solid yellow	Optical flow positioning
	Indicator is in solid green	GPS mode (GPS signal search completed)
	Indicator off for 1 second	Taking pictures
	Indicator flashes twice at intervals in yellow	Recording Video
	Indicator flashes slowly in yellow	Frequency Calibration in Progress
	Indicator flashes slowly in red	Low battery
		The aircraft was not placed on a level surface after pairing
	Indicator flashes quickly in yellow	Enter compass calibration
	Indicator flashes quickly in green	Weak GPS signal
	Indicator is in solid red	During Return to Home
		Searching for GPS signal
	Indicator flashes quickly for 2 seconds in yellow	Enter gyroscopes calibration