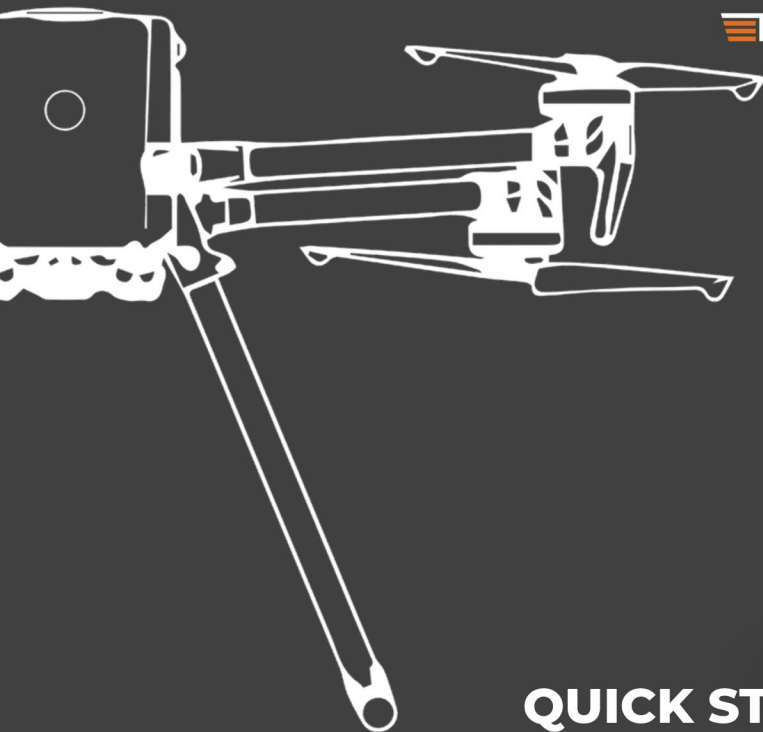




IF800
TOMCAT

MADE IN USA

QUICK START GUIDE

INSPIRED FLIGHT

IF800

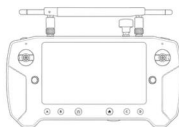
QUICK START GUIDE

Follow the steps in this guide to prepare your aircraft, complete preflight checks, and get airborne safely.

This guide covers the IF800 aircraft equipped with a GS-ONE or Herelink controller.



GS-ONE



Herelink

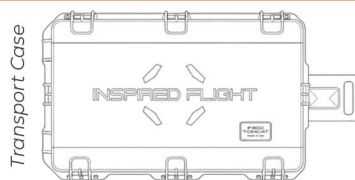
NEED SUPPORT?

We're here to assist.

 inspiredflight.com/support-services

 (805) 776-3640

WHAT'S IN THE CASE?



USB Charger



GS-ONE Battery *



IB388

Charger Sets (2)

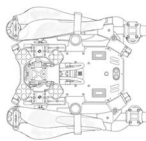


IB388

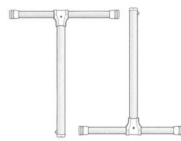
Battery Pair



IF800 TOMCAT



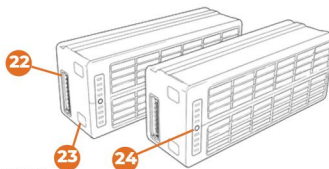
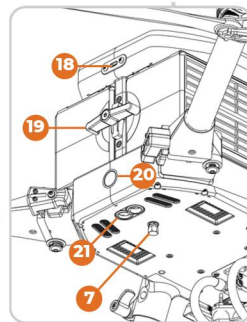
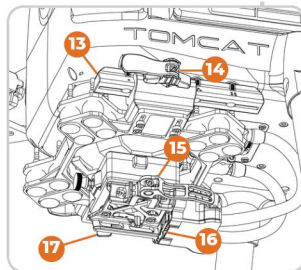
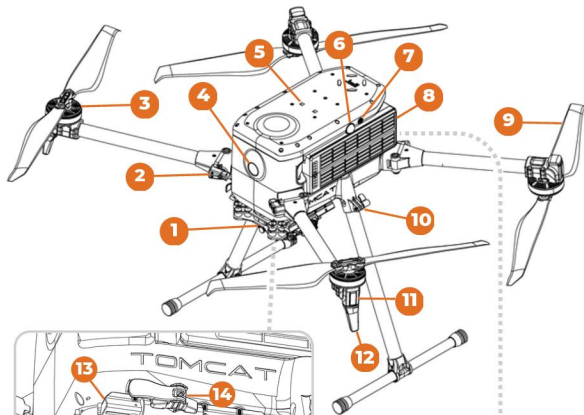
Landing Gear



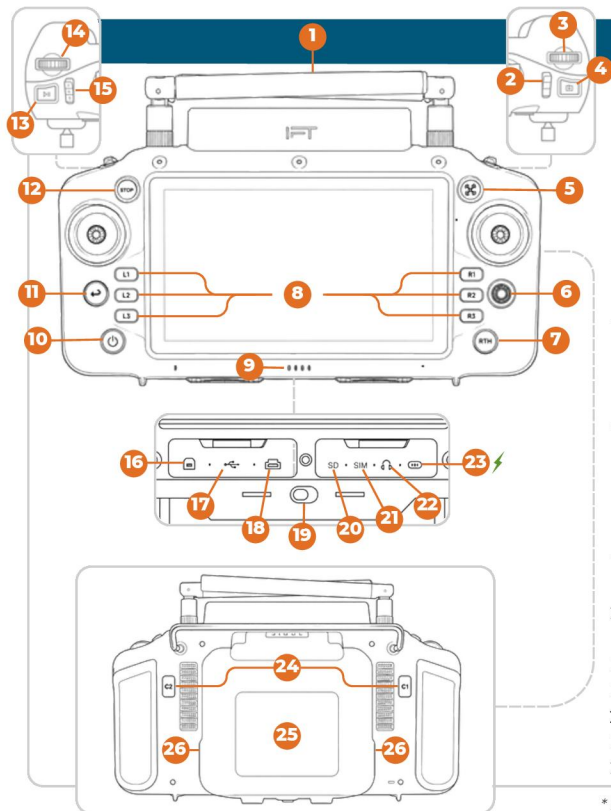
* GS-ONE Configurations only

Aircraft Overview

1. Dovetail Payload Mount
2. Arm Locks
3. Motors
4. FPV Camera
5. Top Accessory Mount
6. High-Visibility Strobe Lights
7. GNSS Pass-Through Port
8. IB388 Batteries
9. Propellers
10. Landing Gear Mount
11. Aircraft Orientation LEDs
12. Radio Antennas
13. Pro Damping Kit (PDK)
14. PDK Position Adjustment Latch
15. Dovetail Payload Locking Lever
16. Dovetail Payload Connector
17. Dovetail Payload Release Button
18. USB-C Port (Firmware & Data)
19. Battery Lock
20. Power Button
21. Downward LiDAR Sensor
22. Battery Terminal
23. NFC Battery Reader
24. Wake Button & LED Status Indicator



CS-ONE

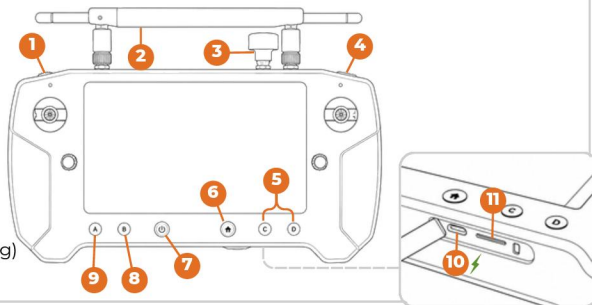


1. Radio Antennas
2. Programmable 3-Way Rocker Switch*
3. Gimbal Wheel (Pan)
4. Photo Capture
5. Aircraft Authority*
6. 5D Joystick (Android)
7. Return to Home
8. Programmable Buttons
9. LED Power Indicator
10. Power Button
11. Back Button (Android)
12. Flight Stop*
13. Video Capture
14. Gimbal Wheel (Tilt)
15. Flight Mode Switch
(Loiter, Position Hold)
16. Ethernet Port
17. USB-A Port
18. HDMI Output
19. Battery Panel Lock
20. MicroSD Card Slot
21. Cellular LTE SIM Card Slot
22. Headphone Jack
23. USB-C Port (Data & Charging)
24. Programmable Buttons
25. Battery Access Panel
26. Battery Release Locks

* Button feature will be available in future update

Herelink

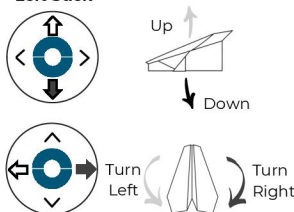
1. Gimbal Wheel (Pan/Tilt)
2. Radio Antennas
3. GPS Antenna
4. Gimbal Pan/Tilt Toggle
5. Programmable Buttons
6. Return to Home
7. Power Button
8. Flight Mode (Position Hold)
9. Flight Mode (Loiter)
10. Micro USB Port (Data & Charging)
11. MicroSD Card Slot



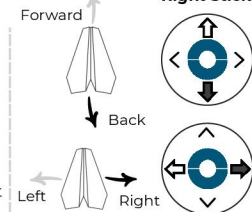
Controls

IFT Platforms are set to the standard RC Mode 2.

Left Stick



Right Stick



⚠ WARNING: Always verify button assignments in the IGC app before flight. Programmable buttons and user layouts may vary.

Charging Controllers

Use the provided USB cable and wall adapter to ensure safe, proper charging.



⚠ After 15 days of inactivity, connect the GS-ONE to external power to wake it.

Inspired Suite Setup

Register your aircraft in Elevate, IFT's platform for pilot authorization, maintenance tracking, and flight operations management.

- 1 Owners / Fleet Managers:** Scan the QR code to create an Elevate account for your organization and register your aircraft.

Benefits:

- Authorize & manage pilots
- Secure your aircraft
- Track maintenance

- 2 Add Pilot accounts for your operators in Elevate.**

- 3 Download the PilotGo mobile app available on iOS & Android**

Benefits:

- View your authorized aircraft
- Complete Preflight Checklist
- Submit post-flight notes
- Access battery charge level & health via NFC Reader

- 4 Operators, use your new account to log in to IGC on the controller to access saved user profiles and more.**

CREATE YOUR PROFILE

 **ELEVATE**



Scan here,
or visit
**app.inspired.
flights/register**

ACCESS MOBILE APP

PILOTGO 



Scan Batteries
for Health &
Charge Data

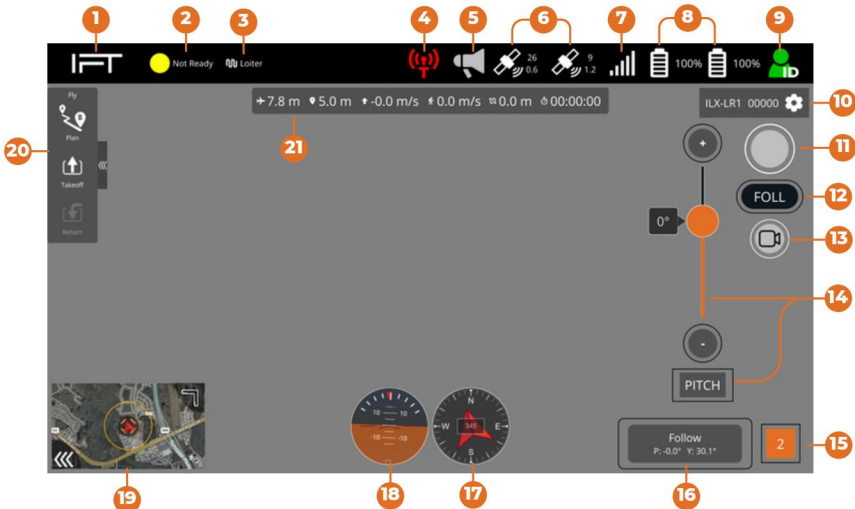
LOG INTO IGC

IGC

Scan here, or visit
**inspiredflight.com
/inspired-suite**
to learn more.



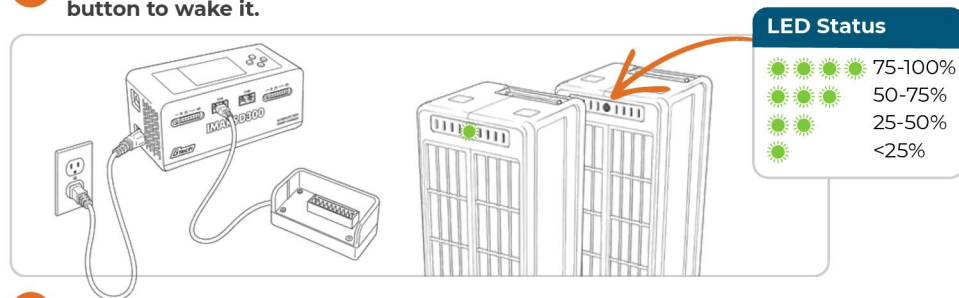
IGC Overview



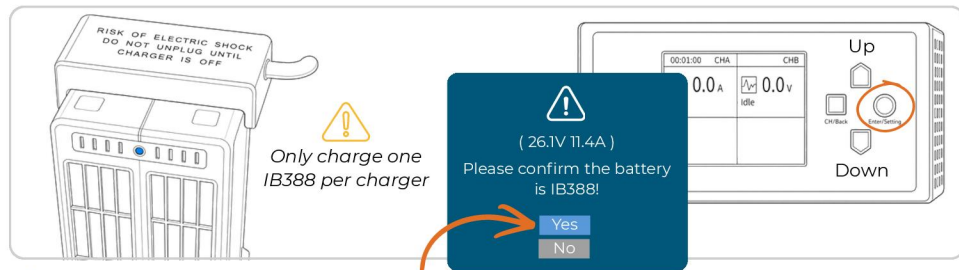
- | | | |
|------------------------------------|------------------------------|-------------------------|
| 1. IGC Settings Menu | 8. Battery Indicators | 15. Video Stream Switch |
| 2. Aircraft Ready Status | 9. Remote ID Status | 16. Gimbal Controls |
| 3. Active Flight Mode | 10. Payload Settings Menu | 17. Compass |
| 4. NTRIP Login (Internet Required) | 11. Photo Capture Button | 18. Attitude Gauge |
| 5. Notifications | 12. Gimbal Mode | 19. Map |
| 6. GPS Satellites & HDOP | 13. Video Record Button | 20. Auto Actions Menu |
| 7. Radio Signal Strength | 14. Camera & Gimbal Controls | 21. Telemetry Info |

IB388 Battery Charging

- 1 Connect the AC power cable and battery charge adapter, then press the battery button to wake it.

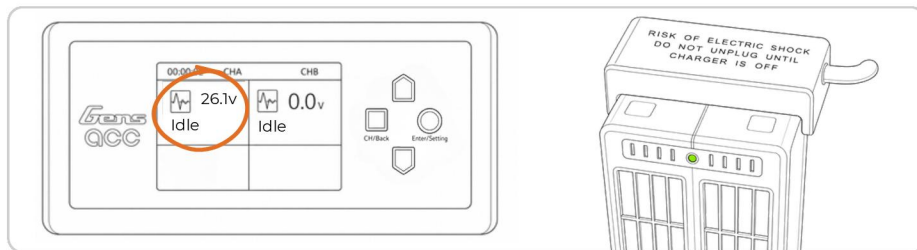


- 2 Plug the battery into the charge adapter



- 3 Press the Up Arrow to select “Yes,” then press the Enter/Setting button to confirm.
If the prompt disappears, hold the Enter/Setting button for 2s to reopen it.

- 4 Charging is complete when the charger reads 26.1v, returns to the idle state, and the IB388 LED is solid green.



IB388 Status Indicator

LED Indicator

Flashing Green
Solid Blue
Flashing Blue (On Charger/ in Aircraft)
Flashing Blue (Off Charger)
Red, then Flashing Green
Solid Green (On Charger)
Flashing Red
Alternating Red & Blue
White Flashing
No LED (Off)

State

	Active (On)
	Charging
	Balancing Cells
	Self-Discharging
	Wake from Deep Sleep
	Fully Charged
	Active BMS Error
	Wake-Up Error
	Starting Sleep Mode
	Sleep Mode

Battery Support

△ Refer to the IFT Knowledge Base to learn best practices for IB388 Battery Charging.



⚠ WARNING: Disconnecting the battery during charging may damage the battery.

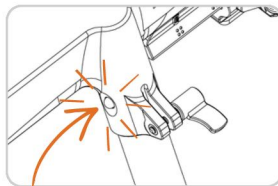
Stop charging first by holding the Enter/Setting button for 2s.

Aircraft Setup

1 Remove the landing gear from the case lid.

2 While the aircraft is in the case, unstrap the Velcro from the landing gear mount to expose the retention pinhole.

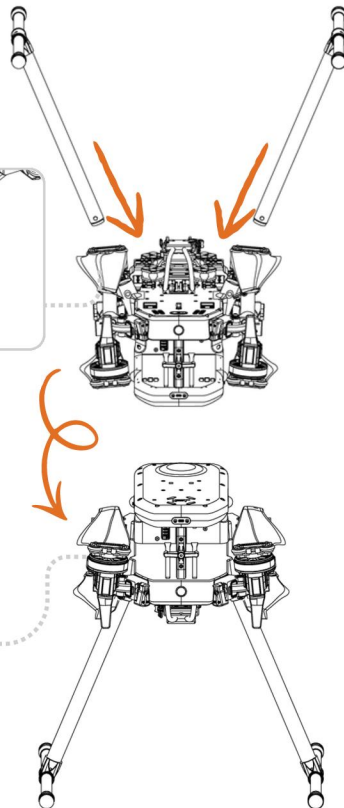
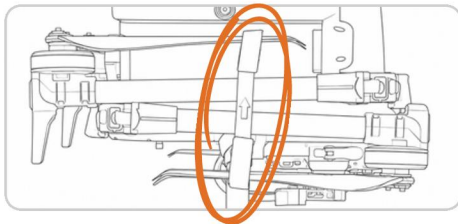
Press the retention pin and slide the landing gear into place until it clicks.



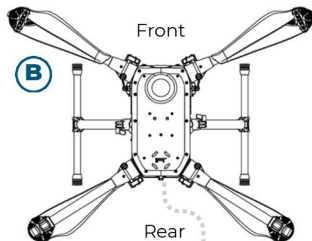
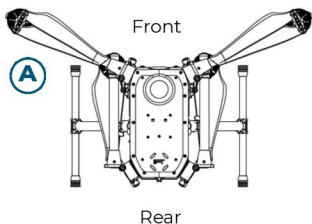
Retention Pin

3 Remove the aircraft from the case and place it upright.

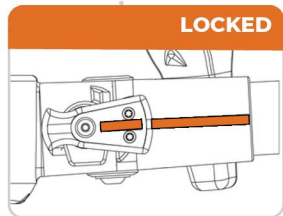
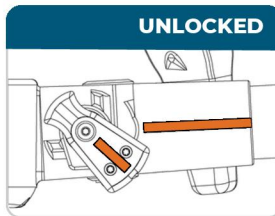
4 Undo the Velcro straps, then remove the prop holders from the arms and landing gear.



- 5 Unfold the front arms (A), then unfold the rear arms (B), until the arm locks click into place.

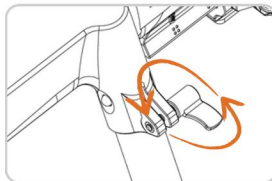


- 6 Adjust locks by twisting to form a continuous orange line.



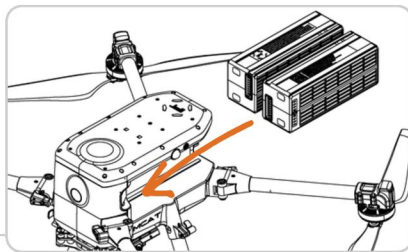
- 7 Rotate the landing gear clamp until secure.

⚠ WARNING: Do not overtighten the landing gear clamp.

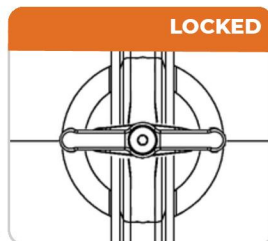
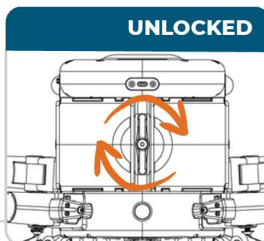


Aircraft Setup Cont'd

- 8 Press the wake button and ensure the LED is flashing green and that both batteries have the same state of charge. Use the NFC reader in PilotGo to confirm charge level. Then, slide the batteries into the IF800.

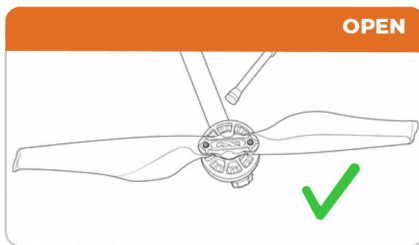


- 9 Twist battery lock to secure the batteries in place.



- 10 Spread the propellers open and align them so the central hub and propellers are in a line.

⚠ WARNING: Starting the motors with the propellers in the closed position can cause unnecessary strain and potential damage to the props.



Payload Setup

- 1 The Pro Damping Kit allows tool-free center of gravity adjustment to accommodate different payload weights.

Weight Range

0-1.2 kg (0 to 2.6 lbs)

Position

● Position 1

Offset

125mm

1.2 kg-1.7kg (2.6 to 3.7 lbs)

●● Position 2

100mm

1.7kg-1.9kg (3.7 to 4.2 lbs)

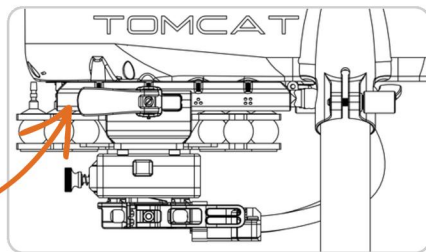
●●● Position 3

75mm

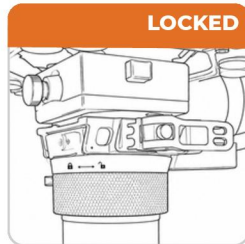
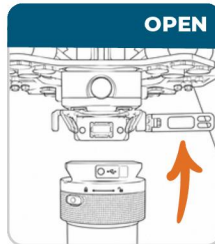
1.9kg-2.6kg (4.2 to 5.7 lbs)

●●●● Position 4

50mm

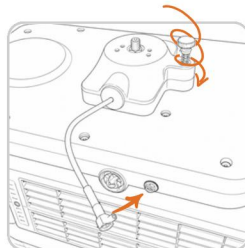
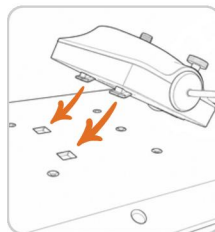


- 2 Ensure the red locking lever is in the open position. Slide the payload onto the mount until it clicks into place, then close the red locking lever to secure the payload.



Optional Top Mount (GNSS/DLS)

- 3 Align the mounting tabs, insert at a slight angle, slide forward, and tighten the thumbscrew. For GNSS installations, connect the coaxial cable to the pass-through port.



Preflight Checklist

This checklist is a recommended preflight procedure for IF800 TOMCAT pilots.

1 AIRCRAFT INSPECTION

- ☐ Landing gear is firmly attached with the retention pins engaged and the thumb screws tightened.
- ☐ Arms are fully extended and locked into position, with orange indicators aligned horizontally.
- ☐ Payload is firmly attached, locked and/or tightened down (if applicable).
- ☐ Propeller blades are extended.
- ☐ The aircraft launch area is on level ground, and the surrounding areas are clear of nearby hazards.

2 BATTERY & POWER

- ☐ Both batteries are at the same charge level and in an active state (flashing green and/or flashing blue).
- ☐ Both batteries are firmly attached to the aircraft, with the battery lock in the horizontal locked position.
- ☐ Controller is powered on and has more than 50% battery remaining.
- ☐ Power on the Aircraft by holding the power button for 3-5 seconds.



**Scan for Aircraft
Setup and
Preflight Video**



3 SYSTEMS CHECK

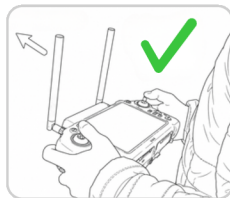
- ☐ Controller antennas are in the proper position, and joysticks are firmly attached.
- ☐ Open Inspired Ground Control (IGC) and allow parameters to load.
- ☐ Communication link with controller is established, and telemetry data is being reported.
- ☐ GPS connection is healthy and HDOP is below 1.0
- ☐ Confirm altitude and compass orientation telemetry match aircraft.
- ☐ Video feed is clear, and payload is responding to input.
- ☐ RTH and failsafe values have been configured for flight.

4 READY FOR LAUNCH

- ☐ Aircraft is in a Ready State, IGC reporting "Ready to Fly".
- ☐ Launch area is clear of any hazards and personnel.
- ☐ All 4 motors spool up (upon arming and prior to throttle up).

Takeoff Procedure

Perform the following steps to take off and establish a stable hover.

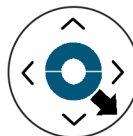


1 ANTENNA CONNECTION & ORIENTATION

Ensure the antennas are tightened. Raise the antennas so they are parallel to each other and point toward the aircraft.

2 ARM THE AIRCRAFT

Arm the aircraft by bringing the left joystick down and towards the right. Release stick to center once motors start to idle.

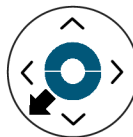


Left Joystick

*Draw an "L":
Down, and
then right.*

3 DISARM THE AIRCRAFT (PRIOR TO TAKEOFF)

If you need to disarm the aircraft after arming the motors, move the left joystick down and to the left.



Left Joystick

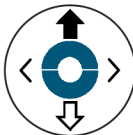
*Draw a
backwards
"L": Down,
and then left.*

4 SELECT TAKEOFF METHOD

A Manual Takeoff

Take off by moving the left joystick to the up position. The aircraft will take off vertically. Release stick at desired altitude and aircraft will hover.

Left Joystick



B Auto Takeoff

Using the "Actions" menu on your controller, initiate Auto Takeoff. The aircraft will take off autonomously in Guided flight mode and ascend to the desired altitude. Then select Loiter or Position Hold to return to manual control.

Landing Procedures

Choose the appropriate recovery method below based on your mission and environment.

MANUAL LANDING *(Loiter or Position Hold Flight Mode)*

- 1 Return aircraft to landing area. Ensure landing zone is clear of hazards and personnel.
- 2 Slowly lower the left joystick down until the aircraft has landed.
- 3 Once the aircraft touches down move the left joystick to the full down position until the motors disarm.

AUTOMATED LANDING MODES *Includes Auto Land & Return to Home (RTH)*

- 1 Select an automated landing mode on your controller:
 - Auto Land: Lands at the aircraft's current location.
 - RTH: Returns to the Home Point and lands automatically.
- 2 During automated landing, you remain in control of the aircraft and may make controller adjustments as needed. To cancel automated landing and regain full control, switch flight mode to loiter or position hold.
- 3 The aircraft will disarm the motors upon landing.

⚠ Before using RTH, verify that the RTH altitude is set above all nearby obstacles.

Safe Operating Practices

Follow these recommended key practices before every mission.

1 REVIEW FULL DOCUMENTATION

Scan the QR code below for complete operating instructions.

2 COMPLETE PREFLIGHT CHECKLIST

3 VERIFY OPERATING ENVIRONMENT

Check weather, obstacles, personnel, and airspace before takeoff.

4 CONFIRM HOME POINT & RTL SETTINGS

Verify Home Point location and RTH altitude before takeoff.

5 OPERATE RESPONSIBLY

Follow all applicable regulations and maintain situational awareness at all times.



Scan for Full
IF800 Manual &
Procedures



Need Assistance?

We're here to help you succeed.



Documentation

Find answers in the full IF800 manual and Knowledge Base.



Technical Support

Set up assistance, troubleshooting, and repair services.



Training & Rentals

Instructor-led training, video resources, and aircraft/payload rentals.

SUPPORT & SERVICES RESOURCES



Scan to Access:

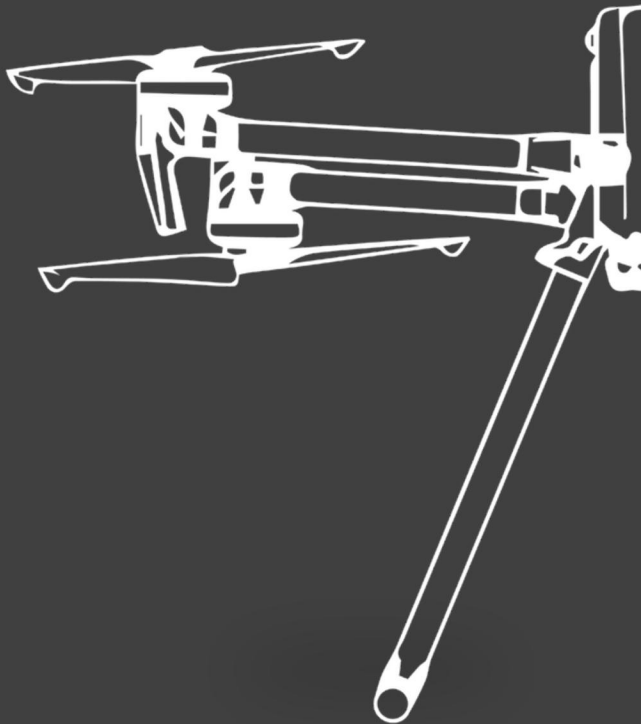
- Support Request Form
- Rentals
- Training
- Video Resources
- Inspired Care Plans
- Knowledge Base & More

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