

IF800 TOMCAT

MADE IN USA



**PORTABLE.
DEPLOYABLE.
DEPENDABLE.**



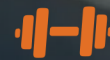
54 Minute Max Flight Time



49 MPH Max Speed



Blue UAS & NDAA Compliant



6.6 LBS Max Payload



Hot-Swappable Smart Batteries



IP43 Rated

OUR STORY

Founded in 2017 Inspired Flight is an American industry-grade UAS Manufacturer serving commercial and government customers

OUR MISSION

Our team of purpose-driven, humble, helpful, evolving professionals and engineers, strive to conserve resources, save lives, and create jobs by leading the American small Uncrewed Aerial Systems industry.

WHY IFT?

We produce state-of-the-art, dependable systems crafted for customization and performance. Our dedication to safety, efficiency, community support, and American manufacturing establishes us as a reliable leader in the drone industry.



Request a Quote

 **INSPIRED FLIGHT**

InspiredFlight.com

+1 (805) 776-3640

Sales@InspiredFlight.com

IF800 TOMCAT



Performance

| | | |
|--------------------------------------|---|------------------------|
| Max Ascent Speed | 5m/s | 16 ft/s |
| Max Descent Speed | 3m/s | 10 ft/s |
| Max Air Speed | 22m/s | 49 mph |
| Max Wind Resistance | 10m/s, 12m/s gusts | 19 knot, 23 knot gusts |
| Max Tilt Angle | 60° | |
| Max Angular Velocity | Tilt: 300°/s, Yaw: 120°/s | |
| Operating Temperature | -20°C ~ 45°C | -4°F ~ 113°F |
| Ingress Protection | IP43, 5%~99% Humidity | |
| Service Ceiling (with given payload) | 4.2km (14,000 ft) w/0.0 kg, 3.2 km (10,500 ft) w/ 1.5 kg, 2.0 km (6,500 ft) w/ 3.0 kg | |

Physical Features

| | | |
|--|-----------------------|---------------------------|
| Diagonal Size (propeller center to center) | 905 mm | 35.6 inches |
| Unfolded Size (flight ready, WxLxH) | 132 x 114 x 52 cm | 51.8 x 44.8 x 20.3 inches |
| Folded Size (stow, WxLxH) | 36 x 44 x 20 cm | 14.2 x 17.4 x 7.8 inches |
| Empty Weight (w/o batteries) | 4.2 kg | 9.2 lbs |
| Weight w/ Batteries | 8.5 kg | 18.7 lbs |
| Max Gross Takeoff Weight | 11.5 kg | 25.3 lbs |
| Max Payload Capacity | 3.0 kg | 6.6 lbs |
| Transport Case Size (WxLxH) | 52.8 x 80.7 x 31.7 cm | 20.8 x 31.8 x 12.5 inches |
| Transport Case Weight (w/ aircraft & GCS) | 18 kg | 40 lbs |

Flight Stack

| | |
|------------------------|--|
| Flight Controller | CubePilot Cube Blue H7, Triple Redundant IMU |
| GNSS / Compass | Dual CubePilot Here4 |
| Downward Ground Sensor | LightWare SF000/B |
| Payload Power Rails | 6s Battery Voltage, 18v, 12v, 5v, |
| Payload Interface | IF800 Universal Payload Interface |
| Operating Software | Copter by Ardupilot |

Flight Mode

| | |
|---------------|---|
| Position Hold | Automatically holds altitude and position, manually change position |
| Loiter | Holds altitude and position, precision manual movements using GPS |
| Auto | Executes pre-defined waypoint mission |
| RTL | Auto returns to takeoff location and lands |
| Land | Auto land while maintaining horizontal position |
| Altitude Hold | Holds altitude only, failsafe mode if GPS signal lost |

IF800 Max Flight Time @ Given Payload Weight

