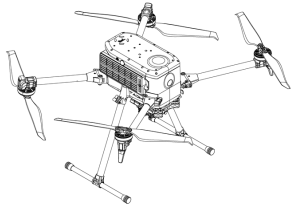




TECHNICAL SPECIFICATIONS

IF800

A medium-lift, payload-agnostic quadcopter with a smart dovetail mount for fast payload swaps. Ships NDAA compliant and Blue UAS cleared in standard GS-ONE configuration.



MAX PAYLOAD
3.0 kg
6.6 lbs

MAX GROSS TAKEOFF
11.5 kg
25.3 lbs

DIAGONAL SIZE
905 mm
35.6 in

MAX AIR SPEED
22 m/s
49 mph

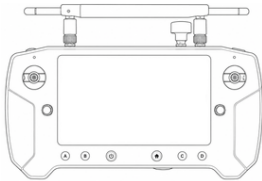
PERFORMANCE	METRIC	IMPERIAL
Max Flight Time (no payload)	54 minutes	54 minutes
Real-World Flight Time	35+ min @ 1.5 kg payload	35+ min @ 3.3 lb payload
Max Ascent Speed	5 m/s	16 ft/s
Max Descent Speed	3 m/s	10 ft/s
Max Wind Resistance	10m/s, 12m/s gusts	19 kt, 23 kt gusts
Max Tilt Angle	30°	30°
Max Angular Velocity	Tilt: 300°/s · Yaw: 120°/s	Tilt: 300°/s · Yaw: 120°/s
Operating Temperature	-20 to 45 °C	-4 to 113 °F
Service Ceiling	4.2 km @ 0 kg · 2.0 km @ 3.0 kg	14,000 ft @ 0 lb · 6,500 ft @ 6.6 lb
PHYSICAL		
Unfolded (W×L×H)	132 × 114 × 52 cm	51.8 × 44.8 × 20.3 in
Folded, Stowed (W×L×H)	36 × 44 × 20 cm	14.2 × 17.4 × 7.8 in
Empty Weight (no batteries)	4.2 kg	9.2 lbs
Weight With Batteries	8.5 kg	18.7 lbs
Transport Case (W×L×H)	52.8 × 80.7 × 31.7 cm	20.8 × 31.8 × 12.5 in
Case Weight (aircraft & GCS)	18 kg	40 lbs

FLIGHT STACK	
Flight Controller	CubePilot Cube Orange+
GNSS / Compass	Dual CubePilot Here4
Downward Ground Sensor	LightWare SF000/B
Payload Mounting	Smart Dovetail
Autopilot Software	ArduPilot
Flight Modes	Position Hold · Loiter · Auto · RTL · Land · Altitude Hold

GROUND CONTROL SPECS & COMPLIANCE

CONTROL, RANGE,
ORIGIN

The IFT systems fly with either ground control station: GS-ONE, NDAA compliant and built for secure operations, or Herelink, a compact, lightweight controller for non-NDAA missions.

GS-ONE		HERELINK	
			
DISPLAY	7 in · 1920 × 1080 · 2,000 nit	DISPLAY	5.46 in · 1920 × 1080 · 1,000 nit
FREQUENCY	2.4 GHz	FREQUENCY	2.4 GHz
BATTERY	10,400 mAh · hot-swap	BATTERY	4,950 mAh · built-in
WORKING TIME	Up to 5 hr · 3 hr charge	WORKING TIME	Up to 4 hr · 2.5 hr charge
SIZE	290 × 178 × 106 mm	SIZE	240 × 110 × 40 mm
WEIGHT	1,245 g	WEIGHT	725 g
OS · PROTOCOLS	Android 14 · PX4 · MAVLink	OS · PROTOCOLS	Android 7.1.2 · PX4 · MAVLink
DATA ENCRYPTION	AES-128 · FIPS 140-3	DATA ENCRYPTION	AES-128

TRANSMISSION
DISTANCE

Up to 6 km radio manufacturer rated, ideal conditions, open space and clear line of sight · 1.5 to 2.3 km field-tested across varied urban environments, including dense buildings and residential areas

NDAA COMPLIANCE

Range varies with terrain, weather, and RF interference. Specs subject to change; current specs at docs.inspiredflight.com

Section 848, FY2024 NDAA No covered foreign-entity flight controllers, radios, data links, or ground stations	Blue UAS Cleared Eligible for DoD and federally funded procurement programs
American Security Drone Act Compliant with federal covered-UAS procurement restrictions	Assembled in the USA Built, integrated, and flight-tested in San Luis Obispo, California

COUNTRY OF ORIGIN

SUBASSEMBLY	SUPPLIER	ORIGIN
Airframe & Composites	Inspired Flight Technologies Inc.	United States
Final Assembly & Test	Inspired Flight Technologies Inc.	United States
Flight Controller	CubePilot Cube Orange+	Taiwan
GNSS / Compass	CubePilot Here4	Taiwan
Ground Control Stations	Aerora GS-ONE	Vietnam
	NW Blue Herelink	United States

EVERY MISSION HAS COMPLIANCE REQUIREMENTS

TALK TO AN EXPERT

Confirm the configuration that fits your needs
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SCAN TO CONNECT