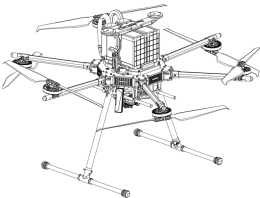




TECHNICAL SPECIFICATIONS

IF1200

A heavy-lift, payload-agnostic hexacopter built around the IF1200 Universal Payload Interface and a smart dovetail mount for fast payload swaps. Ships NDAA compliant and Blue UAS cleared in the standard GS-ONE configuration.



MAX PAYLOAD
8.6 kg
19 lbs

MAX GROSS TAKEOFF
24.9 kg
54.9 lbs

DIAGONAL SIZE
1,025 mm
40.4 in

MAX AIR SPEED
25 m/s
56 mph

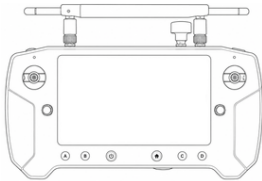
PERFORMANCE	METRIC	IMPERIAL
Max Flight Time (no payload)	43 minutes	43 minutes
Real-World Flight Time	35+ min @ 5.0 kg payload	35+ min @ 11 lb payload
Max Ascent Speed	5 m/s	16 ft/s
Max Descent Speed	2.5 m/s	8.2 ft/s
Max Wind Resistance	12m/s, 15m/s gusts	23 kt, 29 kt gusts
Max Tilt Angle	30°	30°
Max Angular Velocity	Tilt: 300°/s · Yaw: 45°/s	Tilt: 300°/s · Yaw: 45°/s
Operating Temperature	-20 to 45 °C	-4 to 113 °F
Service Ceiling	3.9 km @ 4.0 kg · 2.2 km @ 8.7 kg	12,800 ft @ 8.8 lb · 7,200 ft @ 19.2 lb
PHYSICAL		
Unfolded (W×L×H)	165.5 × 154 × 76.5 cm	65.1 × 60.6 × 30.2 in
Folded, Stowed (W×L×H)	47.5 × 49.5 × 47 cm	18.7 × 19.5 × 18.5 in
Empty Weight (no batteries)	7.8 kg	17.2 lbs
Weight With Batteries	16.3 kg	35.9 lbs
Transport Case (W×L×H)	64.8 × 64.8 × 58.4 cm	25.5 × 25.5 × 23.0 in
Case Weight (aircraft & GCS)	29.0 kg	64 lbs

FLIGHT STACK	
Flight Controller	CubePilot Cube Orange+
GNSS / Compass	Dual CubePilot Here4
Payload Interface · Power	IF1200 Universal Payload Interface 2.1 / 3.0 · 5 V, 12 V / 15 V, 18 V
Payload Mounting	Smart Dovetail / 12 mm rails
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