



IF1200

Unrivaled Endurance. Limitless Possibilities.

Aircraft Specifications



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IF1200



Performance

Max Ascent Speed	5m/s	16 ft/s
Max Descent Speed	2.5m/s	8.2 ft/s
Max Air Speed	25m/s	56 mph
Max Wind Resistance	12m/s, 15m/s gusts	23 knot, 29 knot gusts
Max Tilt Angle	30°	
Max Angular Velocity	Tilt: 300°/s, Yaw: 45°/s	
Operating Temperature	-20°C ~ 45°C	-4°F ~ 113°F
Service Ceiling (with given payload)	3.9km (12,8000 ft) w/4 kg	
	2.2 km (7,200 ft) w/ 8.7 kg	

Physical Features

Diagonal Size (propeller center to center)	1,025 mm	40.4 inches
Unfolded Size (flight ready, WxLxH)	165.5 x 154 x 76.5 cm	65.1 x 60.6 x 30.2 inches
Folded Size (stow, WxLxH)	47.5 x 49.5 x 47 cm	18.7 x 19.5 x 18.5 inches
Empty Weight (w/o batteries)	7.8 kg	17.2 lbs
Weight w/ Batteries	16.3 kg	35.9 lbs
Max Gross Takeoff Weight	25.0 kg	55.0 lbs
Max Payload Capacity	8.7 kg	19.1 lbs
Transport Case Size (WxLxH)	64.8 x 64.8 x 58.4 cm	25.5 x 25.5 x 23.0 inches
Transport Case Weight (w/ aircraft & GCS)	29.0 kg	64 lbs

Flight Stack

Flight Controller	CubePilot Cube Blue H7, Triple Redundant IMU
GNSS / Compass	Dual CubePilot Here3 M8P
Payload Power Rails	12s Battery Voltage, 5v, 12v/15v 18v, 44.4v
Payload Interface	IF1200A Universal Payload Interface 2.1
Operating Software	Copter by Ardupilot

Flight Mode

Position Hold	Maintains GPS position and altitude with responsive controls for faster speeds.
Loiter	Holds GPS position and altitude for slow, precise, and stable flying.
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

IF1200 Max Flight Time @ Given Payload Weight

