



43 Minute Max Flight Time



Blue UAS & NDAA Compliant



Universal Payload Interface



56 MPH Max Speed



19.1 LBS Max Payload



23 Knot / 29 Knot Gusts



INTENTION

Precisionengineered for reliable and resilient workflows in the most challenging applications, the IF1200A empowers users to achieve their objectives securely with maximum reliability and cost efficiency.



INTEROPERABILITY

In collaboration with reliable industry allies, the IF1200A presents fully integrated payload solutions for optical, thermal, and **LiDAR systems**. Our universal payload interface allows the incorporation of any essential equipment required to successfully complete your mission.



WHY IFT?

We produce state-ofthe-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.





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Performance

Max Ascent Speed5m/s16 ft/sMax Descent Speed2.5m/s8.2 ft/sMax Air Speed25m/s56 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 $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$ $-4^{\circ}\text{F} \sim 113^{\circ}\text{F}$

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 kg17.2 lbsWeight w/ Batteries16.3 kg35.9 lbsMax Gross Takeoff Weight25.0 kg55.0 lbsMax Payload Capacity8.7 kg19.1 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 Cube Pilot Cube Blue H7, Triple Redundant IMU

GNSS / Compass Dual CubePilot Here3 M8P

Payload Power Rails 12s Battery Voltage, 5v, 12v/a5v 18v, 44.4v
Payload Interface IF1200A Universal Payload Interface

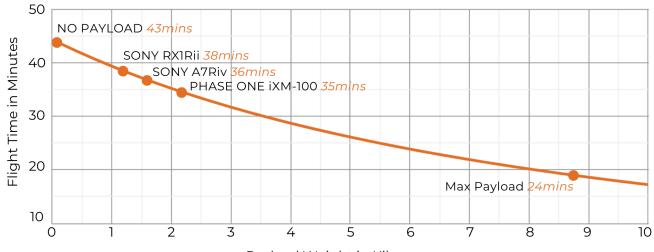
Operating Software Copter by Ardupilot

Flight Mode

Position Hold
Loiter
Automatically holds altitude and position, manually change position
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

IF1200A Max Flight Time @ Given Payload Weight



Payload Weight in Kilograms