



# IF750 QUADCOPTER



Payload Capacity  
**2 kg (4.4 lbs)**



Flight Time  
**20-30 min**



Adaptable Payload



Data-Secure



Robust Architecture

## MISSION-DEFINED PLATFORM, LIMITLESS CAPABILITIES

The ultimate tool for industrial UAV applications, the IF750 quadcopter couples payload adaptability with a robust architecture to bring operational efficiency to the next level. The IF750 has multiple full-stack solutions that facilitate physical asset inspections, geospatial applications, defense applications, and much more. This system is an optimal OEM solution for organizations looking to integrate their custom technology into an open-source UAV ecosystem. Whether you're looking for a mission-ready vehicle or custom solution to incorporate into your organization's workflows, the IF750 allows you to focus on achieving the final deliverable.

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# ADVANCED SECURITY SOLUTION

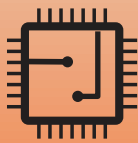


## INTEGRATIONS:



Compatibility with any commercial EO/IR camera makes the IF750 perfect for security and ISR missions. Inspired Flight has experience integrating mil-spec cameras and sensors for critical infrastructure & defense applications, contact us to learn about our project history.

All Inspired Flight vehicles are built to comply with the NDAA section 848, we are happy to provide complete transparency into our sourcing and manufacturing practices.



Compatible Solution



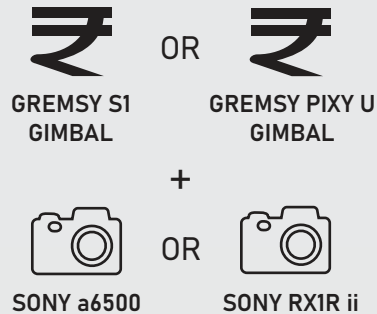
Scalable  
Data Security

## POWERFUL COMPATIBILITY

From advanced tactical engagement scenarios to 24/7 border security, the IF750 is an ideal solution for gaining immediate perspective when the need arises. Complementary technologies such as advanced imaging systems, tethers and autonomous charging platforms further enhance public and private security capabilities, driving safer and more cost-effective methods of security.

# OPTICAL IMAGING SOLUTION

## INTEGRATIONS:



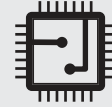
Survey and monitor a jobsite with ease, as project managers are able to more efficiently analyze and deliver actionable datasets. The IF750 platform helps streamline the data collection process, allowing asset managers to monitor and track asset conditions remotely. Accurate geotagging capabilities and powerful HD video streaming solutions enable you to make informed decisions while driving down your bottom line.

## STREAMLINED DATA COLLECTION

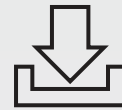
Assets ranging from utility transmission towers to federal infrastructure can be time-consuming and hazardous to inspect using traditional methods. The IF750 provides a safe and consistent approach to inspection. Make faster & more accurate decisions by incorporating the IF750 into asset management workflows. Strong EMI-shielding and redundant safety systems makes inspection of assets even in hazardous environments a breeze.



# CUSTOM CONFIGURATIONS



MODULAR ARCHITECTURE



EASE OF INTEGRATION

Inspired Flight vehicles are designed to facilitate your team's integration of custom payloads to create specific OEM configurations. Our hardware is designed for modularity, nearly any sensor, computer, and/or payload can be integrated to facilitate the application. Open-source flight control firmware and available Mavlink SDK provide extensive flexibility to control your custom solution. We understand that each unique application comes with unique requirements.

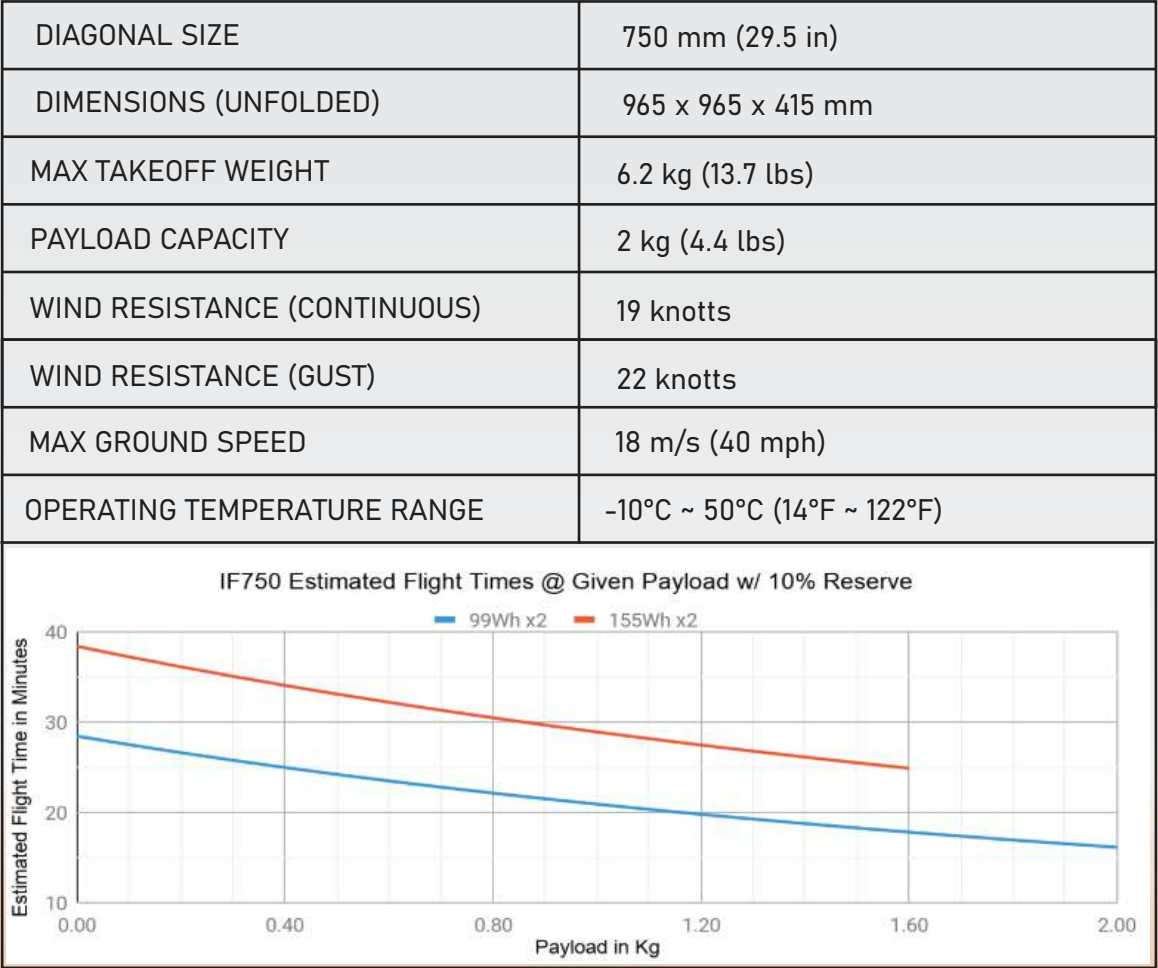
## TAILORED SOLUTIONS

Our customers and partners have truly done some impressive things when utilizing the IF750 as their base platform. Companies in the mining, geospatial, R&D, and defense industries have leveraged the IF750's adaptability to tackle unique challenges specific to their use case that commercial off the shelf solutions are unable to provide. Our team is eager to assist your efforts in customizing the IF750 to your specific needs.



# IF750 SPECIFICATIONS

## AIRCRAFT PERFORMANCE



## FLIGHT HARDWARE

FLIGHT CONTROLLER	MODEL	MODAL AI Flight Core
	OPERATING SOFTWARE	PX4 Ecosystem
POWER DISTRIBUTION	PDB MODEL	IF PDB 4
	MOTOR OUTPUT	4x - 30A Continuous
	AUXILIARY POWER	5v-5A, 12V-5A (volt-60A)
PROPOLUSION	MOTOR	4x - IF Bernoulli 3
	PROPELLOR	432 x 147 mm (17 x 5.8 in)
	MAX THRUST PER MOTOR	3.4 kg (7.5 lbs) @ 24v