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17,000+ TESTED REAL-WORLD ENCOUNTERS



600TB RECORDED FLIGHT DATA



250,000+ SIMULATED ENCOUNTERS ACROSS VARYING SCENARIOS



irisonboard.com



SAFETY AT THE CORE

PROTECTING AIRSPACE FOR CREWED AND UNCREWED AIRCRAFT

Iris Automation pioneered the first commercial in-flight collision avoidance safety avionics for UAS. With the introduction of Casia X, an integrated safety system that uses AI to autonomously detect and avoid aircraft across a radial 360 degree field of view, customers can use UAVs for an even greater range of long distance and automated flight use cases, opening tremendous cost savings, and new access to goods and data.



Sensor: 8.9MP Detection Range: 1338m average, 2096m max Weight: 482g Field of View: Horizontal: 80°, Vertical: 50°





Sensor: 5x 8.9MP Detection Range: 1126m average, 1635m max Weight: ~2400g

Field of Regard: Horizontal: 360°, Vertical: 50°

KEY FEATURES

Comprehensive sense and avoid

Full optical computer vision-based detect & avoid with 360° field of regard, 1200m average detection range for non-cooperative aircraft, and a 93.2% average detect rate

Proven autonomy

Patented machine learning technology, extensively tested with more than 16,000 real-world encounters, 250,000 visually simulated encounters and millions of simulated detections. Over 600 terabytes of flight data recorded

Compatability

Works with a multitude of industrial UAVs and integrates with popular commercially available autopilots

Completely onboard

Install once, fly forever. Self-contained, rugged, low C-SWAP, ADS-B integrated

Compliance

Designed pursuant to emerging ASTM standards for the performance of UAS and their operational safety (air risk)

BENEFITS

- Safely enable a wide range of advanced operations, including Beyond Visual Line of Sight (BVLOS) flight
- Increase the drone-tooperator ratio
- Reduce exposure to the risks of increasingly crowded airspace navigation
- Reduce or eliminate the need for costly radar surveillance and FCC bandwidth approvals





Fixed-wina













COMPATABILITY







Collins Aerospace

