

Iris Automation Reveals Turnkey Collision-avoidance Solution for Drones



Iris Automation, an artificial intelligence (AI) and safety avionics company, has announced the launch of Casia – the first commercially available computer vision detect-and-avoid solution to enable Beyond Visual Line of Sight (BVLOS) operations for autonomous vehicles.

For the first time, there's a system that allows an Unmanned Aircraft Systems (UAS) to truly understand the aviation environment around it as if a pilot were onboard. Casia detects other aircraft, uses machine learning to classify them, makes intelligent decisions about the threat they may pose to the vehicle, and triggers automated manoeuvres to avoid collisions.

Casia is a combination of both hardware and software that's ultra-lightweight, low power and small. It comprises sophisticated AI algorithms and software packaged in a self-contained supercomputer that works with a machine vision camera.

"By unlocking BVLOS flight with Casia, operators all over the world will be able to use their aircraft in every conceivable scenario." said Iris Automation CEO Alexander Harmsen.

The Casia technology has been extensively tested, with 7,000+ real-world test flights and mid-air collision scenarios – flying various manned aircraft against UAS – and over 40,000 encounters in simulation. Casia also ran a successful early adopter programme with more than 30 participating beta customers from five countries.

Iris Automation is working directly with regulators around the world to make drones safer and more accessible, ensuring Casia achieves the highest levels of safety for national airspace use. With the Casia launch, Iris Automation will also offer customers regulatory support for Part 107 waiver writing and regulatory approval processes to secure the necessary permissions for their unique UAS operations.

For more information, visit www.irisonboard.com/casia