

## Overview

Casia G uses AI and computer vision to detect non-cooperative aircraft (not broadcasting ADS-B) in the airspace. In addition, it houses dual-band ADS-B detection, providing UAS operators unrivaled situational awareness. Casia G provides the location, altitude, heading, velocity and classification for detected aircraft, helping airborne collisions to be avoided day and night.

## Features

- Senses non-cooperative aircraft using patented computer vision and AI.
- Houses dual-band ADS-B detection for comprehensive cooperative aircraft coverage.
- Correlates Electro-Optical and ADS-B detections to provide a single high accuracy intruder track.
- Provides a 360° field of regard around the operating area.
- Continuously monitors the sky for immediate flight readiness.
- Compact, easy-to-install system that can be networked for expanded coverage and reaction time.

## Technical Specifications

Specification	Value
Input Power	110V AC provided to 24V DC power supply
	65W Nominal
	70W Peak
Size	358x298x148mm
Weight	4kg
Ambient Temperature	-10°C to 50°C
Precipitation	Nil
Cloud Coverage	Okta 0-8



## Day Mode Performance

Declaration Range	Value
Average	2089m
Max	3121m
Specification	Value
Detection Rate	98.6%

## Night Mode Performance

Single-System	
Declaration Range	Value
Average	10941m
Max	12176m
Specification	Value
Detection Rate	100%
Multi-System	
Declaration Range	Value
Average	15260m
Max	16749m
Specification	Value
Detection Rate	100%

**NOTE:** Depending on illumination, cloud cover and other factors, transition between day to night modes and vice versa may experience false positives or reduced detection performance for a short period of time during sunset and sunrise.

## Mechanical Specifications

All units specified in the Mechanical Drawings below are in millimeters (mm).

