

NAURU 500C *ISR*



The Nauru 500C ISR is a UAS designed for Intelligence, Surveillance and Reconnaissance (ISR) missions.

Designed for BVLOS operations above 400ft, civil or military, offering 4 hours of endurance, 60km of range, proving to be a unique tool for public security agencies or special defense forces.

As the first UAV VTOL approved by ANAC and authorized for night missions, Nauru 500C ISR combines the efficiency of a fixed-wing with the flexibility of VTOL (Vertical Take-off and Landing), allowing safe operations in risky areas, forests and environments without a landing area.



Only product in Brazil with ANAC certification for daytime and night-time flights above 400ft



CHARACTERISTICS OF NAURU 500C ISR:

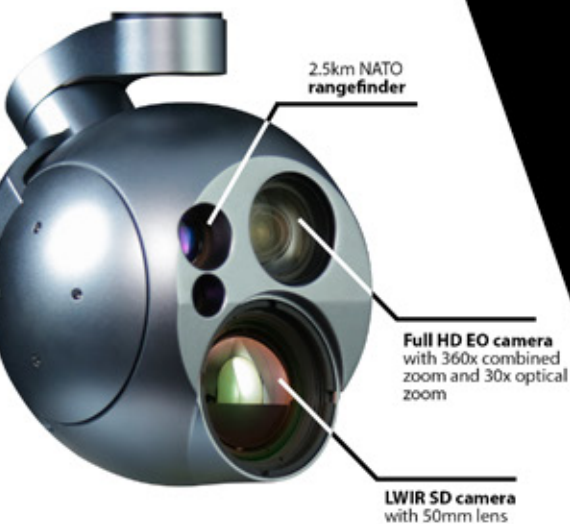


- **Flight:** fully automatic take-off to landing
- **Minimum system transported on airplanes**
- **Endurance:** 4-hour flight
- **RLOS¹ range:** 60km (radio sight)
- **Cruising speed:** 50kt (90km/h)
- **Ceiling:** 10,000ft
- **Wingspan:** 3.6m
- **Stealth:** low visual signature paint and low sound signature engine;

ARTIFICIAL INTELLIGENCE SYSTEM

The Nauru 500C ISR has an advanced SIS132B ISR sensor, which is equipped with real-time artificial intelligence:

- Automatic tracking of individuals, vehicles and vessels;
- Simultaneous monitoring of multiple targets;
- Detection and indication of moving targets (MTI);
- Support for elite operations, including target acquisition (geolocation of targets), observation and adjustment of shots;
- Aiming at coordinates defined by the operator.



SIS132B

Three-axis stabilized day and night sensor



Daytime humans detected at 15km, recognized at 4km and identified at 2km.

Humans at night detected at 1.3km, recognized at 0.3m and identified at 0.2km.



Daytime vehicles detected at 30km, recognized at 9km and identified at 5km.

Vehicles detected at 3km, recognized at 0.8km and identified at 0.4km.



XSIS Manager payload operation software



Night surveillance with the LWIR Sensor

COMMAND AND CONTROL STATION

Designed for long operations, the mobile 2.5 ton **C41 Shelter** prioritizes safety and comfort for the team. For that, it has safety resources such as doors with electronic access control, emergency lights, HVAC system and ergonomic chairs, contributing to reduce fatigue and discomfort. The integrated general control station (GCS) presents three 21.5" touchscreens, allowing advanced management and greater mission productivity.



XCockpit software for planning and operating the Nauru 500C ISR.

Partners who trust Xmobots:



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