BASTION TECH



IGNIS

ISR / STRIKE UAS

Strike-

Reconnaissance

UAS

+ SATCOM control over the entire flight range

RECONNAISSANCE

RANGE

PRECISION

+ 250 km radius, up to 500 km range

+ SATCOM over the entire range

+ Operates at about 3,000 m

Overview

IGNIS is a fixed-wing, catapult-launched strike-reconnaissance unmanned aircraft system. It flies hundreds of kilometres to the mission area, conducts reconnaissance day and night, detects and identifies targets and homes onto the selected target automatically on the terminal leg.

Control, telemetry and video links are protected against electronic warfare. Control runs over an ELRS radio link and over a SATCOM link through a terminal mounted on the airframe, so the control range is limited by fuel, not by the radio link.

Tactical radius is 250 km, maximum range 300 to 500 km, endurance with payload up to 150 minutes. The aircraft operates at about 3,000 m, out of reach of ordinary man-portable air defence systems.

The crew deploys the system in the field without a prepared site: deployment, stowing and pre-flight preparation take 10 minutes each.

From launch to target

1. **Catapult launch**
   No prepared site needed, ready 10 minutes after arrival at the position.
2. **Transit to the area**
   Along the route set from the ground station; control over ELRS and SATCOM.
3. **Reconnaissance**
   EO and thermal channels, real-time video to the ground station.
4. **Detection and identification**
   Typical targets - vehicles and personnel - from 500 m.
5. **Guidance**
   Automatic approach over the final 500 m, CEP 5-10 m.

+ One system: reconnaissance, target selection and precise engagement without changing assets

Link, reconnaissance and guidance

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Range and communications

The SATCOM link removes the radio range limit: the operator controls the aircraft and receives video at any distance within the fuel reserve.

- Tactical radius 250 km, range 300 to 500 km
- Endurance with payload up to 150 minutes
- SATCOM terminal on the upper surface of the airframe
- EW-protected control, telemetry and video links

Reconnaissance and guidance

The operator sees the situation in real time and selects the target; on the terminal leg the aircraft guides itself.

- EO and thermal channels
- Target detection and identification from 500 m
- Modes: automatic, semi-automatic, manual, manual with automatic target acquisition
- Automatic approach over the final 500 m

Operating conditions

- Temperature 0 to +55 °C
- Light snow, rain, fog, wind up to 10 m/s
- Ceiling up to 4,000 m
- Off-road transport in a container



Field operation

The ground station plans and programs missions, controls the aircraft, maintains the secure link and records and replays the video received in flight.

- Catapult launch without a prepared site
- Deployment, stowing and preparation - 10 minutes each
- Ground station: monitor, laptop, control unit - one per system
- Payload module up to 10 kg for the customer's mission

Customers

Ministries of defence	Security and law enforcement services	Civil protection services	Other government agencies

Delivery set

- Unmanned aerial vehicle
- Ground control station: monitor, laptop, control unit
- SATCOM terminal
- Tool kit
- Passport and operating manual
- Catapult - supplied separately

IGNIS - reconnaissance, target selection and precise engagement at up to 500 km in one system, with SATCOM control.

Contact

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