EPSILON

# VTOL 25/2

## Long-Endurance ISR VTOL

A Comprehensive Solution Provider

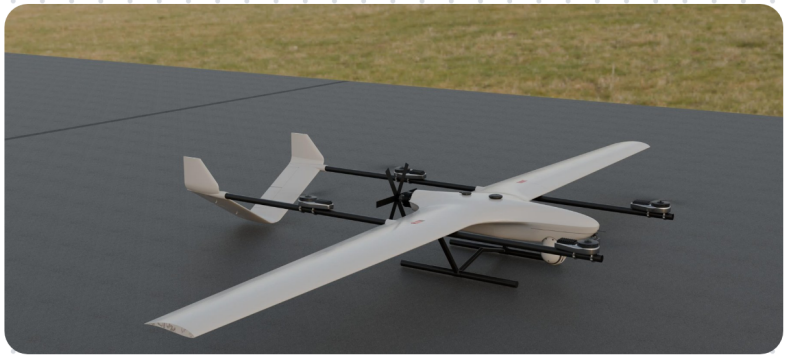
**NON-CHINESE SUPPLY CHAIN**
Designed & built in South Africa

**8+ h petrol**
**3+ h battery**

**100 km+**
**Silvus link***

**Cellular**
**detection**

**LiDAR**
**auto-landing**



The VTOL 25/2 is a petrol/battery VTOL fixed-wing platform built for persistent surveillance over wide areas. With 8+ hours of endurance and a data link reaching beyond 100 km, it keeps continuous overwatch on borders, critical infrastructure and area-denial zones. Integrated cellular detection enables pattern-of-life analysis and hotspot identification.

### AT A GLANCE

| | |
|---|---|
| MTOW | **24.9 kg** |
| Wingspan | **4.2 m** |
| Endurance | **Up to 8+ hours** |
| Cruise speed | **120 km/h** |
| Payload | **Up to 2 kg** |
| Max altitude | **10,000 ft** |
| Data link | **35 km / 100 km+*** |
| Launch / recovery | **VTOL** |

### KEY CAPABILITIES

**Persistent endurance**
8+ hours petrol or 3+ hours battery.

**Long-range link**
35 km standard; Silvus MANET with tracking antenna to 100 km+.

**Cellular detection**
IMSI/TMSI capture for pattern-of-life analysis.

**Autonomous recovery**
LiDAR-assisted precision VTOL landing.

**Sovereign supply chain**
Clean integration with US/EU-controlled radios and payloads.

**BUILT FOR PERSISTENT INTELLIGENCE.**
**PROTECT WHAT MATTERS.**

**24/7 BORDER SURVEILLANCE**

**CRITICAL INFRASTRUCTURE PROTECTION**

**AREA DENIAL & HOTSPOT MONITORING**

**PATTERN-OF-LIFE & CELLULAR DETECTION**

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*Line-of-sight data-link range; 100 km+ with optional Silvus radio and tracking antenna. Performance varies with payload and conditions.

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# VTOL 25/2

Platform Specifications & Integration

## AIRFRAME & PERFORMANCE

| | |
|---|---|
| Type | **VTOL fixed-wing** |
| Power | **Petrol / battery** |
| MTOW | **24.9 kg** |
| Wingspan | **4.2 m** |
| Payload capacity | **Up to 2 kg** |
| Endurance (petrol) | **8+ hours** |
| Endurance (battery) | **3+ hours** |
| Cruise speed | **120 km/h** |
| Max altitude | **10,000 ft** |

## NAVIGATION & CONTROL

| | |
|---|---|
| Navigation | **GPS / GLONASS** |
| Flight modes | **Autonomous waypoint** |
| Failsafe | **Auto return-to-home** |
| Launch / recovery | **VTOL, no runway** |
| Landing | **LiDAR-assisted precision** |
| Ground control | **Western GCS compatible** |
| Core avionics | **No Chinese provenance** |
| Origin | **South Africa** |
| Configuration | **Twin-boom, quad VTOL** |

## DATA LINK OPTIONS

**35 km** — **Standard radio**
Included as standard.

**100 km+** — **Silvus upgrade**
Silvus MANET radio with ground tracking antenna.

| | |
|---|---|
| Networking | **MANET mesh (Silvus)** |
| Ground antenna | **Auto-tracking (option)** |
| Integration | **US/EU-controlled radios** |



## MISSION PAYLOADS

Payload-agnostic bay, up to 2 kg. Supported payloads include:

**NextVision EO/IR** | **Cellular detection** | **Thermal imaging** | **LiDAR** | **Customer payloads**

**Cellular detection** (IMSI/TMSI capture) enables pattern-of-life analysis and hotspot identification.

## WHY VTOL 25/2?

**Persistent —** 8+ hours on station from a single sortie.

**Long reach —** 100 km+ with Silvus and a tracking antenna.

**Intelligence, not just imagery —** EO/IR plus cellular detection.

**Sovereign —** no Chinese-origin airframe, autopilot or core avionics.

**No runway —** VTOL launch and precision recovery.

*Line-of-sight data-link ranges. Performance varies with payload, configuration and conditions. Cellular detection is supplied only to authorised government and law-enforcement end users, subject to applicable law. Silvus radios are subject to US export licensing. Specifications are indicative and subject to change without notice.


**CONTACT**

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