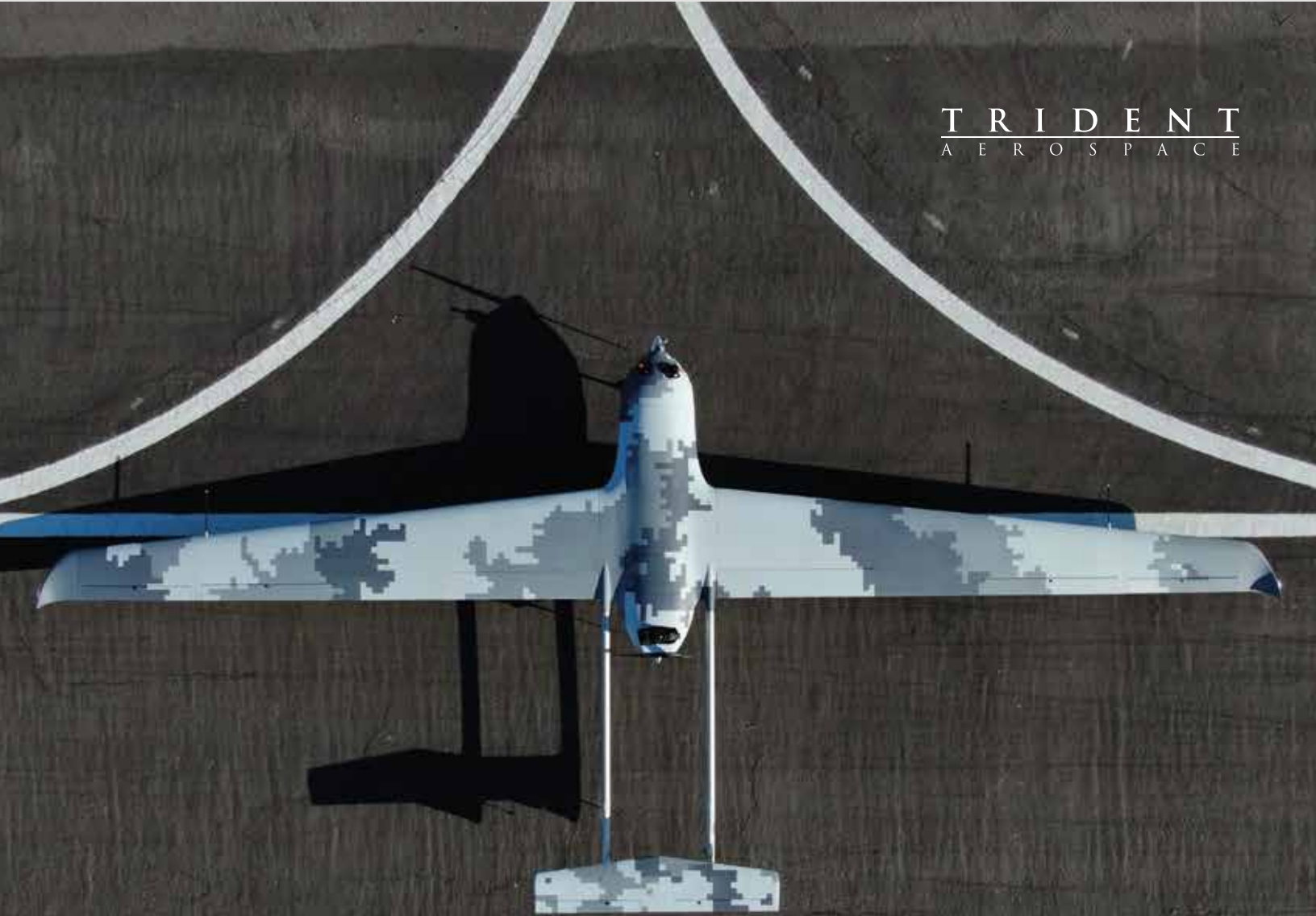




BE-50

TACTICAL UNMANNED AERIAL SYSTEM

The BE-50 builds on the BE-45's impressive capabilities. With a significantly longer flight time and greater payload capacity, the BE-50 is the ideal solution for more demanding missions that require extended endurance and carrying capacity.

Designed for environments with little to no available infrastructure, the platform can accommodate a wide suite of payloads.

SPECIFICATIONS

MAX ENDURANCE	16 hours
LINK RANGE	120 km LOS
MAX SPEED	80 kts
SECURITY	AES 256
OPERATIONAL CEILING	17,000 ft (ASL)
TAKEOFF & LANDING	Short runways
MTOW	104.17 kg
FUEL	Gasoline
PAYLOAD	25 kg
WINGSPAN	7.68 m
FLIGHT READINESS	25 minutes
PAYLOAD OPTIONS	EO/IR, SAR, SIGINT, and more
PROPULSION	Redundant, twin engines. Fuel injection 4-stroke, 120 cc
AIRFRAME	Titanium, aluminum, carbon fiber, s-glass, and kevlar

KEY FEATURES

- **Tactical platform and mobile GCS enable unparalleled mobility**
- **Multi-payload capability**
- **Low infrastructure requirements**
- **AES 256 and AI powered dynamic encryption**
- **Visual navigation for GNSS- denied environments available**
- **Compatible with multiple weapon systems, including: SPEAR loitering munition and NINJA free-fall guided munition**

GROUND CONTROL STATION (GCS)

The BE-50 has three GCS options: the heavy duty GCS-M, the airlift capable GCS-A, and the portable GCS-P. All versions include: auto-tracking antennas, video recording, digital intercom, Jeppesen, generators, monitors, and all the necessary systems for operating the aircraft.



GCS-M



GCS-A



GCS-P

PAYLOADS

- Gimbals with: EO, LWIR/MWIR, laser designators, super zoom, and next generation stabilization available
- SAR for maritime and bad weather surveillance
- Signals intelligence equipment
- Custom integration



**EXTENDED PERFORMANCE
FOR THE TOUGHEST MISSIONS**



BE-50 NEO

TACTICAL UNMANNED AERIAL SIGINT SYSTEM

The BE-50 NEO is a cellular intelligence unmanned aerial platform integrating the BE-50's impressive capabilities with the most advanced IMSI catcher. The BE-50 NEO enables real-time ID collection, location tracking, and heat mapping across all cellular technologies in a practical, turnkey solution.

Optimized for tactical intelligence missions, this lightweight yet powerful system enhances ISR (Intelligence, Surveillance, and Reconnaissance) capabilities in both urban and remote environments.

KEY FEATURES

- Tactical platform and mobile GCS enable unparalleled mobility.
- Multi-payload capability.
- Low infrastructure requirements.
- AES 256 and AI powered dynamic encryption.
- Visual navigation for GNSS-denied environments available.
- **Multi-Technology BTS:** Supports 2G, 3G, 4G, and 5G, ensuring comprehensive network coverage and deep signal penetration.
- **Real-Time ID Collection & Geolocation:** Captures subscriber identities (IMSI, IMEI) and precisely tracks targets with sub-kilometer accuracy.
- **Heat Mapping & Coverage Analysis:** Generates network activity visualization to enhance intelligence gathering and mission planning.
- **Optimized for UAV Deployment:** Ultra-lightweight ± 5 kg design, ensuring minimal impact on UAV endurance and maneuverability.
- **Operational Range:** Provides effective signal interception and tracking within a range of 1,000 to 1,500 m, adaptable to mission needs.
- **Unique Antenna System:** Custom-engineered for optimized signal reception, directional intelligence, and low visibility, enhancing operational effectiveness.
- **State-of-the-art** technology developed in collaboration with Polus specifically for the BE-50 NEO platform ensures the most versatile and powerful system on the market for Class 3 UAVs.
- **Autonomous & Remote Operation:** Supports fully automated missions, with secure remote control interfaces for real-time data acquisition.

SPECIFICATIONS

MAX ENDURANCE	8+ hrs
LINK RANGE	120 KM LOS
MAX SPEED	80 kts
SECURITY	AES 256
OPERATIONAL CEILING	17,000 ft (ASL)
TAKE OFF & LANDING	Short runways
MTOW	104.17 kg
FUEL	Gasoline
PAYLOAD	25 kg
WINGSPAN	7.68 m
FLIGHT READINESS	25 Minutes
PAYLOAD OPTIONS	Cellular intelligence payload, EO/IR, SAR, SIGINT, and more
PROPULSION	Redundant, twin engines
AIRFRAME	Titanium, aluminum, carbon fiber, s-glass, and kevlar

4-CHANNEL SOFTWARE-DEFINED RADIO (SDR)

DIMENSIONS (HxDxW)	50x300x300 mm
WEIGHT	5 kg
SUPPORTED TECHNOLOGIES	2G 3G 4G (5G Ready)
FREQUENCY RANGE	700 MHz – 4 GHz
OUTPUT POWER	± 10 W
POWER CONSUMPTION	100W
OPERATING TEMPERATURE	-10°C to +50°C
STORAGE TEMPERATURE	-20°C to +65°C
RELATIVE HUMIDITY	10% – 80%

