



EKOLOT
AEROSPACE & DEFENSE



ZEUS G
UNMANNED AERIAL SYSTEM



The **ZEUS G** by **Ekolot Aerospace & Defense** represents a new generation of modular unmanned aerial systems designed for applications demanding long endurance, high resilience and multi-payload capacity. Each system is delivered as an assembly kit with interchangeable modules, ensuring flexibility in transport, maintenance, and configuration according to mission needs. Built entirely in Poland, the ZEUS G comply with EU aviation standards, ISO 9001 and EN 9100 quality norms, and is classified as Dual-Use equipment. Their lightweight composite structure, efficient propulsion systems, payload capacity and redundant safety features make them ideal for various applications.



COMMUNICATION & DATA

- C2 Link: Encrypted, AES-256, Frequency-Hopping.
- Video Transmission: HD, Dual-Channel, COFDM or IP.
- Ground Control Station: Portable or Vehicle-mounted GCS.
- Data Bus Protocol: Ethernet.
- Payload Interface: Ethernet / CAN.

NAVIGATION & CONTROL

- Flight Control System: Redundant FCC with triple-sensor IMU.
- Navigation: GNSS (GPS/GLONASS/Galileo) + INS + RTK.
- Autonomy Level: L3-L4 (Autonomous Mission Execution).
- Data Link: Encrypted C2 (LOS) and SATCOM (BLOS optional).
- Mission Planning Software (MMS).

APPLICATIONS

- Search and Rescue operations.
- Disaster assessment (fires, floods, earthquakes).
- Long endurance national border surveillance.
- Fisheries protection and anti-piracy monitoring.
- Environmental and Scientific Research.
- Large-Scale Infrastructure Inspection.
- High-resolution EO/IR imaging.
- Synthetic Aperture Radar mapping.
- Maritime reconnaissance and anti-submarine support.
- Communications and Electronic Warfare.
- Border and coastal defense operations.
- Target tracking and designation.
- Battle damage assessment



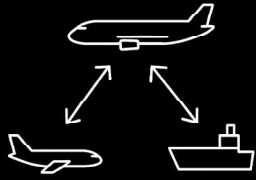
KEY ADVANTAGES

- Rapid Assembly / Modular Transport Kit.
- Operable from Paved and Unpaved Runways.
- Automatic Mission Planning (AI-based).
- Anti-jamming and Redundant Navigation.
- Data Encryption and Secure Telemetry Link.

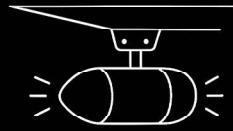
TECHNICAL SPECIFICATIONS

Category	Dual-use UAV, MALE class
Origin	Poland
Configuration	Modular CTOL assembly kit
Propulsion	Combustion Multi-Fuel AVGAS / MOGAS / Heavy Fuel (option)
MTOW	<350 kg
Endurance	36 to 48 hours (depending on the configuration)
Range	Up to 3,000 km
Service Ceiling	Up to 20000 ft
Payload Capacity	150 kg
Cruise Speed	160 km/h
Assembly Time	<15 min
Control Link	LOS/BLOS (SATCOM)
Safety Systems	ADS-B IN/OUT, Detect & Avoid, Parachute
Structure	Composite / Carbon Fiber
Operation Temp	-20°C to +50°C
Takeoff	Paved and Unpaved Runway
Takeoff / Landing Distance	<100 meters

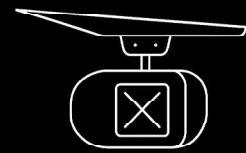
PAYLOAD OPTIONS



IFF / AIS



**ELECTRONIC
WARFARE**



**SPECIAL
CARGO BAY**



GMTI/MMTI



EO/IR



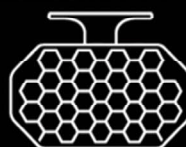
LIDAR



**POLLUTION
DETECTION**



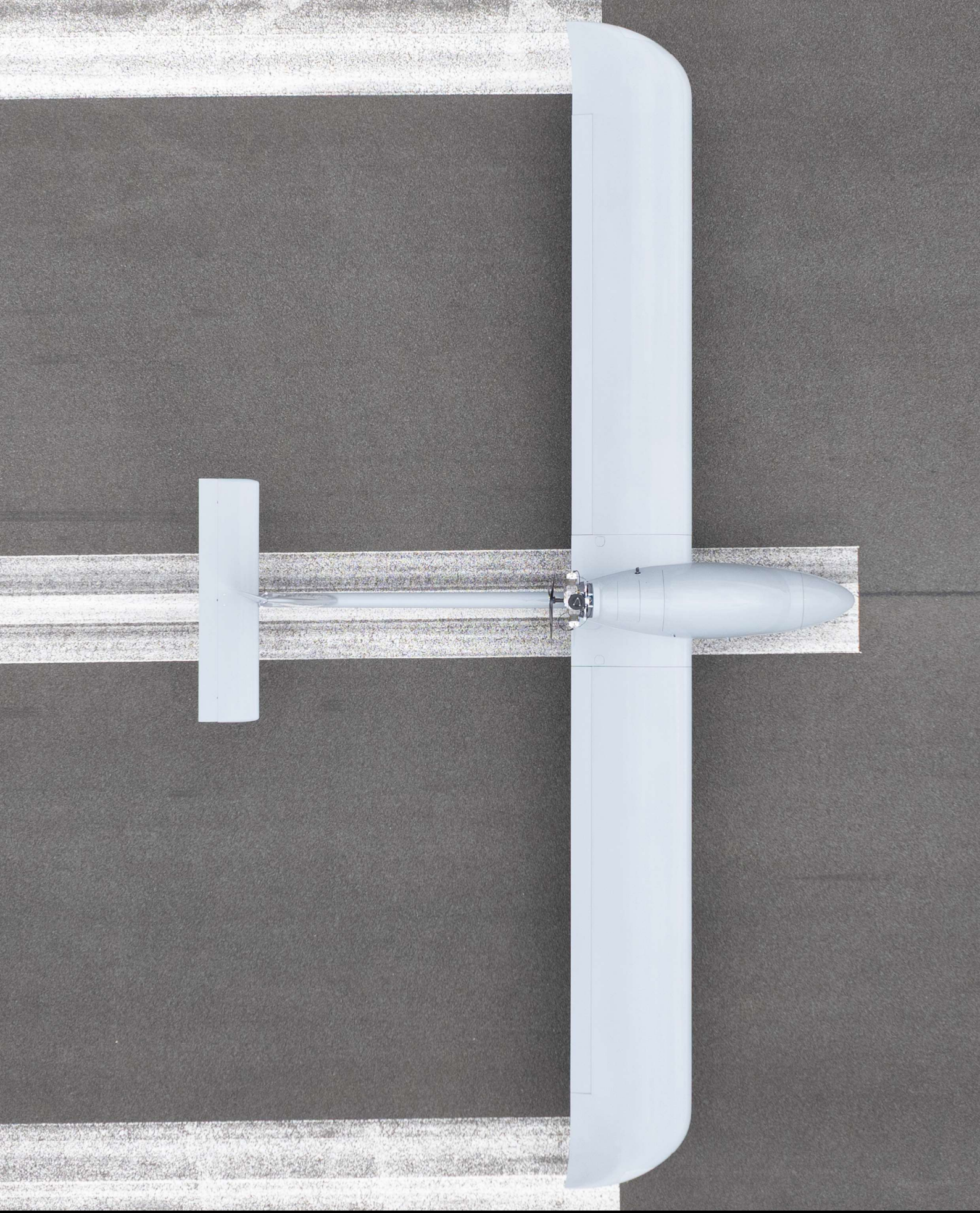
**RADIATION
DETECTION**



**MULTI-MODE
RADAR**



SONOBUOY



EKOLOT AEROSPACE AND DEFENSE (EAD)
Location: 38-457-Krosno, Poland
Phone: +48 880 388 949
Email: info@ekolot-ad.com
Website: www.ekolot-ad.com