



**ZEUS VTOL / CTOL**  
**UNMANNED AERIAL SYSTEM**



**The ZEUS UAV by Ekolot Aerospace & Defense** represents a new generation of modular unmanned aerial systems. 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 drones comply with EU aviation standards, ISO 9001 and EN 9100 quality norms, and are 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

## NAVIGATION & CONTROL

- 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)
- 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
- VTOL / CTOL conversion kits
- Automatic Mission Planning (AI-based)
- Anti-jamming and Redundant Navigation
- Data Encryption and Secure Telemetry Link

## COMMON TECHNICAL SPECIFICATION

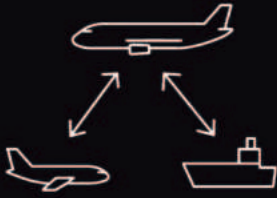
<b>Category</b>	Dual Use UAV
<b>Origin</b>	Poland
<b>Configuration</b>	Modular multirotor/VTOL with fixed-wing cruise capability
<b>Propulsion</b>	Hybrid-Electric (ICE generator + electric propulsion) / Combustion Multi-Fuel AVGAS, MOGAS, Heavy Fuel (JP-8) (option)
<b>Cruise Speed</b>	120 km/h
<b>Assembly Time</b>	<15 min
<b>Control Link</b>	LOS/BLOS (SATCOM, Starlink, Optional)
<b>Safety Systems</b>	ADS-B IN/OUT, Detect & Avoid, Parachute (option)
<b>Structure</b>	Advanced composite materials
<b>Operation Temp</b>	-20°C to +55°C

## VARIANT TECHNICAL SPECIFICATION

	<b>XS</b>	<b>S</b>	<b>M</b>	<b>L</b>
<b>Wingspan</b>	5.4 m	5.4 m	7.4 m	7.4 m
<b>MTOW</b>	100 kg	150 kg	200 kg	250 kg
<b>Endurance</b>	12 h	12 h	18 h	24 h
<b>Payload Capacity</b>	*Up to 15 kg	*Up to 25 kg	*Up to 50 kg	*Up to 90 kg
<b>Operating Ceiling</b>	18,000 ft	18,000 ft	18,000 ft	20,000 ft
<b>Operation Mode</b>	VTOL	**VTOL/CTOL	**VTOL/CTOL	CTOL
<b>Class</b>	Tactical	Tactical	Tactical-MALE	Tactical-MALE

\* Up to – used fuel capacity dependant \*\* VTOL / CTOL – conversion kit available

# PAYLOAD OPTIONS



**IFF / AIS**



**EO/IR**



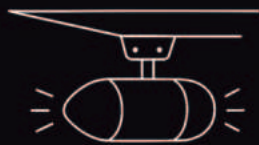
**SPECIAL  
CARGO BAY**



**GMTI/MMTI**



**POLLUTION  
DETECTION**



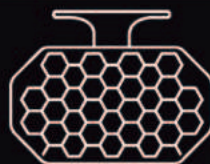
**ELECTRONIC  
WARFARE**



**SONOBUOY**



**LIDAR**



**MULTI-MODE  
RADAR**



**RADIATION  
DETECTION**

