



ALECS I

From military to intelligence missions

In a time when unmanned missions are revolutionising the armed forces, EDePro's UAV development programme is putting the focus on solutions that provide durable and reliable solutions, with increased survivability and payload capabilities. One of these solutions is ALECS I – our fixed-wing UAV, powered completely by electricity. Designed for offensive military operations and observation missions alike, ALECS I relies on innovative technology in order to successfully perform any task.

Tactical Use

Due to its technical characteristics and intelligence capabilities, ALECS I is used as an offensive UAV and artillery support for more accurate shooting, target positioning and irradiation, as well as observation missions and data transmission.

Vertical Lift Technology

ALECS I's next-generation vertical takeoff technology makes the runway, launcher and booster unnecessary, which means that less space is required for launch and recovery. This gives the troops more flexibility and manoeuvrability while maintaining a small operational footprint and minimising overall costs.





Aerial Intelligence

The UAV's electronics technology, based on optoelectronics and video-transmission, allows capturing and streaming multi-megapixel, large-format images.

The Ground Control Station

ALECS I can be operated manually, by an operator from the ground control station (GCS). The telemetry data is transmitted from the aircraft to the GCS at the frequency of 2.4 GHz and 5.8 GHz.

MAIN SPECIFICATIONS

-  **Max. payload: 6 kg**
-  **Data link range: 100 km**
-  **Takeoff mass: 36 kg**
-  **Max. speed: 150 km/h**





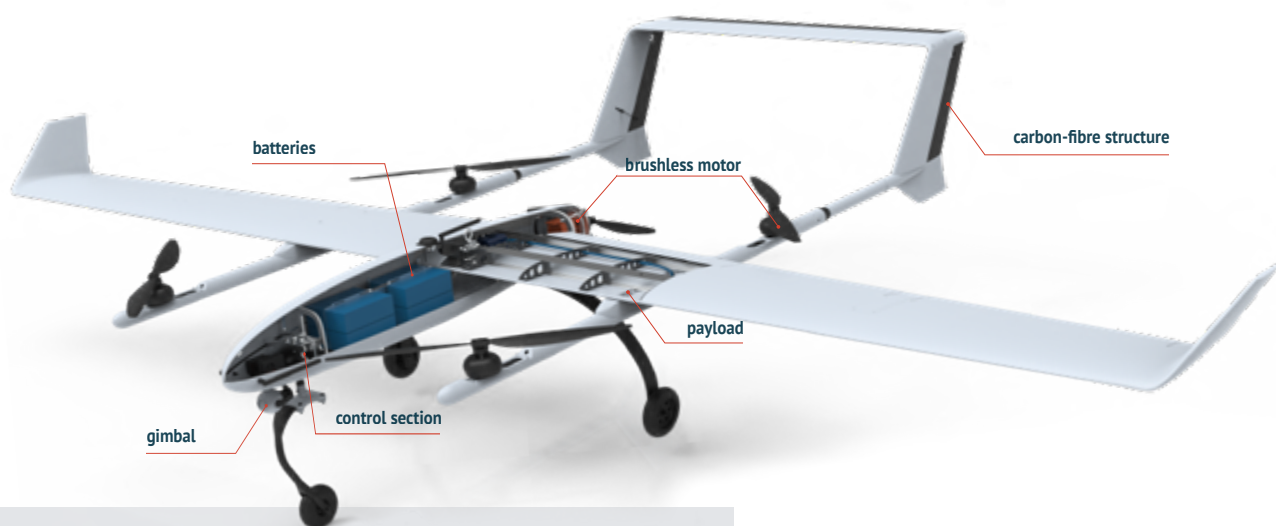
MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

Propulsion type
Data transmission frequency
Wingspan
Electric engine power
Maximum payload per each hardpoint (2/1)
Maximum speed
Minimum speed
Cruising speed
Maximum flight altitude
Maximum flight time
Temperature range

Data	Unit
electric	/
2.4/5.8	GHz
4300	mm
5.5	kW
3	kg
150	km/h
60	km/h
100	km/h
500	m
~1.5	h
-30/+60	°C

SYSTEM EQUIPMENT



BENEFITS

- » vertical takeoff and landing regardless of terrain;
- » ability to hover like a helicopter;
- » lower power consumption (compared to a helicopter);
- » significantly higher flight speed (compared to a helicopter);
- » no need for logistics – airport runway, launcher or booster;
- » quick and easy assembly and disassembly.

