



ALECS I

From military to intelligence missions

As the unmanned missions are revolutionizing military force, EDePro's program of self-developed UAVs is putting the focus on solutions that provide long-endurance, increased payload capabilities, and higher survivability and reliability. All of these characteristics are embodied in our fully electrically powered fixed-wing UAV – ALECS I. Whether used to carry out offensive military operations, or observation missions, ALECS I brings ground-breaking technology to guarantee success.

Tactical Use

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

Vertical Lift Technology

Next-generation vertical take-off technology provides runway, launcher, and booster independence, freeing troops from stationary runway constraints. Less space to launch and recover, more flexibility and manoeuvrability while maintaining a small operational footprint and minimizing overall costs.





The Aerial Intelligence

The modern electronic technology based on optoelectronics and video transmission enable capturing and streaming multi-megapixel, large-format images.

The Ground Control Station

The UAV can be operated manually by an operator from ground control station. The telemetry data is transmitted from aircraft to GSC at the frequency of 2.4 GHz.

MAIN SPECIFICATIONS

-  Max payload: 6 kg
-  Data link range: 150 km
-  Takeoff mass: 42 kg
-  Max speed: 150 km/h



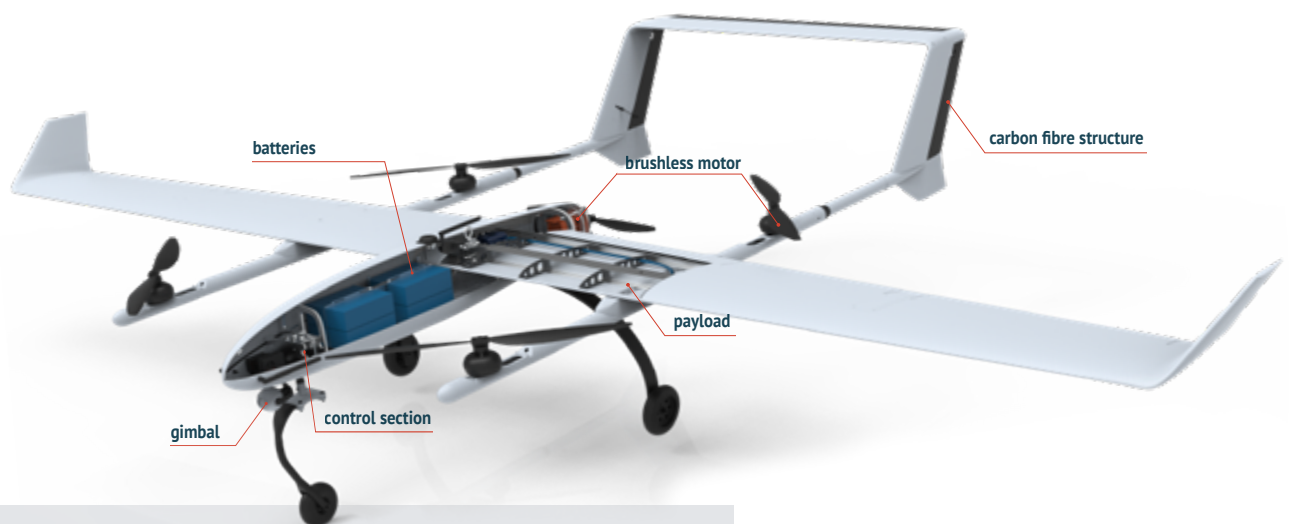


MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

	Data	Unit
Fuel type	batteries	/
Transmission data	450-2400	MHz
Wingspan	4300	mm
Piston engine power	5.5	kw
Maximum payload per each hard point (2/1)	3	kg
Maximum speed	150	km/h
Minimum speed	60	km/h
Cruise speed	100	km/h
Maximum flight altitude	500	m
Maximum hours in air	~1.5	h
Temperature range	-30/+60	°C

SYSTEM EQUIPMENT



BENEFITS

- » Takeoff and landing vertically from any terrain.
- » Hovering 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, booster.
- » Easy and quick assembly and disassembly.

