EDePro
Engine Development & Production

ALECS II

The higher cruising speed, less energy

To bring more robustness, enhanced payload capabilities, high cruising speed for less energy, and flight time extension, EDePro upgraded its ALECS I unmanned aerial vehicle to deliver a technologically improved version – ALECS II. With an overall increased efficiency compared to helicopters, ALECS II provides tactical situational awareness and intelligence capabilities for a variety of military applications.

MAIN SPECIFICATIONS

- Max payload: 25 kg
- Data link range: 150 km
- Takeoff mass: 87 kg
- Max speed: 200 km/h

Tactical Use

Like its precursor ALECS I, an upgraded version finds its usage as artillery support in various military operations, as suicide drones, in target positioning and irradiation, observation missions, and link for data transmission over long distances.

Improved Performance

With maximum speed of 200km/h, several hours of endurance and maximum payload weight amounting 25kg, ALECS II is considered as next generation multi-mission tactical UAV system.

The Realtime Data Transmission

Equipped with electro-optical (EO) and infra-red (IR) sensors, during flight operations ALECS II distributes real-time imaging data to the ground control center, enabling seamless, always-on secure data transmission and communication in the most challenging environments.

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.

EDePro INNOVATIONS

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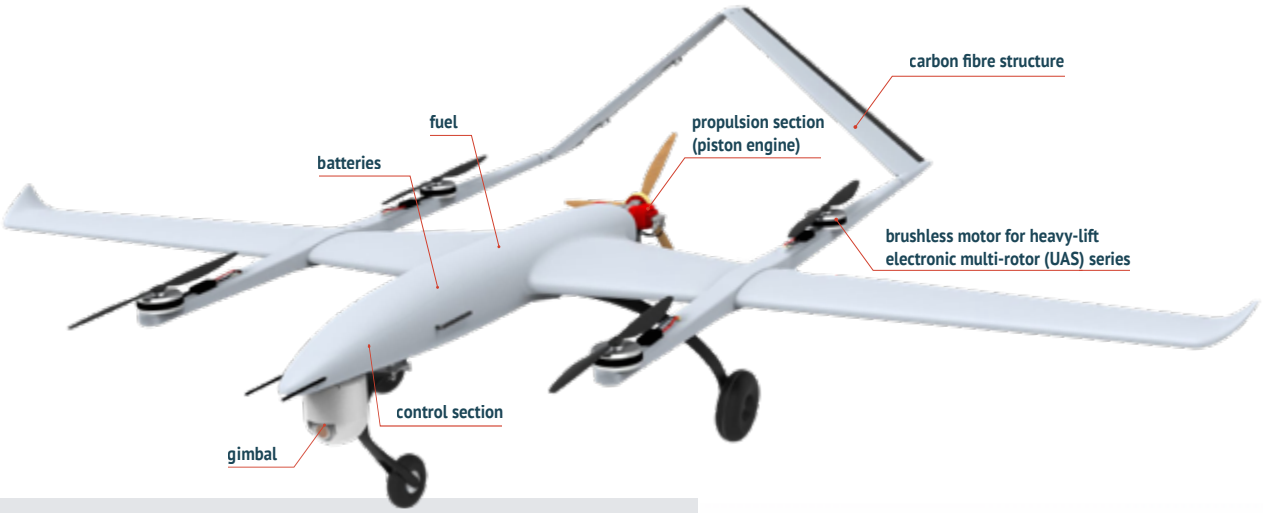
MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification	Data	Unit
Fuel type	hybrid	/
Transmition data	450-2400	MHz
Wingspan	4600	mm
Piston engine power	15	kw
Maximum payload per each hard point (2/1)	12.5	kg
Maximum speed	200	km/h
Minimum speed	70	km/h
Cruise speed	120	km/h
Maximum flight altitude	2000	m
Maximum hours in air	~5h	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.

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