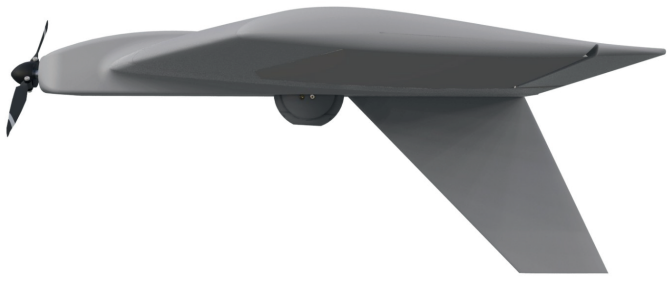
Functional capabilities

The UAV has several configuration options that change its tactical and technical characteristics depending on the components. The universal platform can have multiple equipment options. Depending on mission types and complexities, it can be used as:

Scout	During a mission, the UAV conducts photo/video documentation of events and transmits the data to the operator.
Stealth Scout	During a mission, the UAV conducts photo/video documentation of events internally, without transmission.
Forward Observer	It can perform video surveillance and provide guidance for mortar calculations, artillery, etc.
Relay station	It can serve as a MESH network node.
Component of the EW system	It can detect and identify various electronic devices (radios, radars, electronic warfare stations, etc.).
Carrier	It can perform cargo delivery with payload activation.
Simulator	It can be used as a flying target, decoy, or disinformation platform.
Searcher	It can conduct photo/video surveillance of events with maximum image quality and control over the field of view.

A fundamental feature of the complex is the quick equipment setup of the UAV prior to a mission and the ability to change components of the complex directly by the operator without specialized training.



The complex is capable of performing multiple missions simultaneously. For instance, with one operator and one aircraft, it can effectively divert enemy electronic warfare systems while conducting fire adjustment on enemy units.

Specifications

Weight
1.3 kg to 2.5 kg

Flight duration
Up to 2 hours

Speed
13 m/s to 30 m/s

Communication range
Up to 30 km

Mission range
Up to 110 km

Number of control channels
Up to 5 channels

Number of operators
One

Launch
Hand-launched

Landing
Parachute

Antenna extension by the operator
Up to 500 meters

Compatibility
Delta, Kropyva, Dzvin, Ochi, Kombat, Terminal

Design
Modular

Deployment speed
Up to 2 minutes

Packaging
One backpack

Stability
All-weather

Control Capabilities and Configuration Options

The UAV is built on a modular principle, allowing for configuration of the aircraft based on specific tasks. It consists of modular components that have universal standardized mounting elements and interaction protocols (UAV-CAN), enabling quick and hassle-free replacement of different purpose-specific modules without the need for extensive modifications.

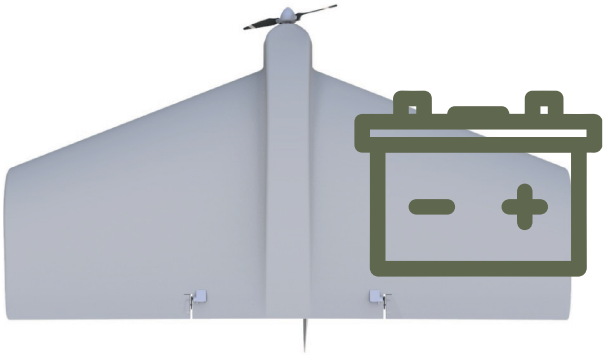
The complex can be controlled by compatible third-party ground stations, in the form of UAVs for simulation or reconnaissance purposes. In such a configuration, a mobile phone or tablet with the appropriate software can serve as the ground module for route loading and data reading.

If necessary, the complex can be equipped with a handheld control unit, which also acts as a modem for receiving real-time metadata from the UAV during flight.

To conduct targeting and search operations, it is necessary to supplement the complex with a full-fledged terminal that includes control interfaces for the UAV's payload and a broadband communication system for receiving streaming data. Such a kit can have two types of communication: a secure and resilient one, resistant to radio reconnaissance and jamming, and a simpler one.

The UAV can be equipped with one or two batteries. It is supplied with universal batteries for both the UAV and the terminal.

Self-diagnostic systems and continuous monitoring of all processes on board the aircraft help to avoid many issues that users may encounter.



The specialized system for monitoring the condition and usage quality of the batteries allows for precise calculation of the aircraft's flight time and prevents mission failure.

The built-in subsystem for control of the load on the control surfaces allows for assessing the UAV's capability to perform a mission and can alert the operator about potential wing icing conditions.

The materials of the UAV and its components are specifically designed with maximum compatibility and interchangeability in mind during operation. The minimal number of components allows for the rapid assembly of the UAV from its constituent parts within minutes.

UAV save

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