



SPAITECH

Unmanned Aerial Complexes



SPARROW LE

1 class, Tactical, battlefield

CONTACTS

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SPARROW LE COMPLEX APPLICATION
Military sector

- Forces of special operations
- Military reconnaissance divisions
- Border troops
- Artillery units

Civil sector

- Agriculture
- Forestry
- Control of engineering structures
- Monitoring environmental


ALLOWS PERFORMING THE FOLLOWING TASKS:

- territory monitoring and patrolling;
- determining coordinates of immovable and moving targets;
- automatic tracking of moving targets;
- target aiming and artillery fire correction;
- data gathering from various sensors (temperature, humidity, radiological background, wind strength and direction, etc.)
- control of engineering buildings state (power supply lines, oil and gas pipelines, dams, etc.)

UNIQUE SPECIFICATIONS OF SPARROW AERIAL VEHICLE


- | | | | |
|---|--|--|--|
| Take-off weight 7,5 kg | Wingspan 3 m | Endurance up to 3,5 hours | Flight speed from 60 to 150 km/h |
| Powerplant electrical | Cruise altitude 500 - 1000 m | Maximum flight altitude 5000 m | Operation range online 40 km |
| Landing by a parachute with air cushion system; as a plane. | Launch from the hand | | |

- has a glide aerodynamic classical shape with V-tail, which ensures long flight time and cost-effectiveness during the combat tasks performing;
- equipped with gyro stabilized and controllable on two axes and focus camera and a thermal imager;
- if required, it is equipped with specific sensors: a photo camera, a relay, a dosimeter, and other sensors;
- the frame is produced from specific composite materials, what makes it less visible for radars and thermal imagers;
- vehicle dimensions and silence make it almost invisible at cruise altitude.

THE COMPLEX INCLUDES:

the set of gyro stabilized payload with video and photo cameras, thermal imagers



the antenna complex with a tracker

a transport package

a mobile tactical package

a set of required spare parts and materials

the remote video terminal

the ground station on the protected laptop base with the remote control

from one to five unmanned aerial vehicle Sparrow LE

The functional opportunities and completeness can be modified upon customer request.
«Spaitech» company also conducts operators training, technical and informational support and provides warranty and post-warranty maintenance.

DISTINCTIVE ADVANTAGES OF THE COMPLEX

- RAPID DEPLOYMENT.** Deployment and preparation of the complex for usage take less than 15 minutes.
- MOBILITY.** Thanks to small sizes and low weight, the complex can be carried by crew of 2 persons for large distance using no transport.
- EFFECTIVENESS.** Effective operation in any daytime and any weather conditions.
- EASE OF USE.** No extra area for launching and landing required. The launch is performed from the operator's hands.
- UNIVERSALITY.** Integration in other management systems.
- SELF-SUFFICIENCY.** Flight on predetermined course or coordinates.
- QUALITY.** Photo and video shooting (HD format).
- CONVENIENCE.** Simultaneous online data transfer to operator screen and remote video terminal.
- FUNCTIONALITY.** Analysis and reporting of received records. Surveying with further geo-referenced panoramic pictures receiving.
- SAFETY.** Data management and transfer through protected digital channel according to NATO standards.
- RELIABILITY.** Tasks performing in suppressing the enhanced signals and GPS signals. Reliable countering electronic warfare means. Real operation experience in combat situations.
- TECHNOLOGICAL EFFECTIVENESS.** The antenna complex ensures UAV automatic tracking and ensures a reliable communication with online data transfer up to 40 km.