GEKATA

UAV-based ESM/ELINT complex

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The UAV-based ESM/ELINT complex GEKATA is designed to detect, analyze, identify, and classify radar signals.

The complex is capable of detecting and geolocating a wide spectrum of radars used by aircraft, helicopters, ships, air defense systems, artillery, and electronic warfare (EW).

This enhances situational awareness, aids in creating a map of the radio-electronic environment, and facilitates the analysis of enemy active radars.

Performance characteristics:

Operating frequency
2-18 GHz

Real time bandwidth
800 MHz

Sensitivity for pulse signals
up to -85 dBmi

Instantaneous dynamic range
over 60 dB

Total dynamic range
≥120

Bearing Measurement error
up to 3° RMS

Frequency Measurement Error
up to 0.25 MHz

Minimum Pulse Width
up to 40 ns

Power Consumption
250 W

Weight
up to 10 kg

Platform
Air, ground mobile

Coordinate determination
TDOA+AOA

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ARHONT

MOBILE ELINT COMPLEX

Complex is designed for detection, analysis, identification and classification of radar signals emitted by the aerial, naval and land based radio equipment in wide frequency range.

ARHONT can detect aircraft, helicopters, naval radar systems, air defense systems, EW equipment, as well as transponders of IFF system, DME systems, navigation equipment, and observation systems. The system does not emit anything that could reveal its own position.

ARHONT complex can determine the location of electromagnetic radiation sources in case of combining multiple units into a direction finding network. Each unit, depending on the combat situation and assigned tasks, can perform as the head control unit.

SPECIFICATIONS

Detection range: **up to 400 km**

Operating frequency: **0,5 - 18 GHz**

Bandwidth of analysis and automatic measurement of pulse signal parameters:

- In the Search mode: **up to 17.5 GHz (between 0.5 and 18 GHz)**
- In the Analysis mode: **not less than 400 MHz**

Real-time capacity of the radio engineering analysis system: **not less than 1 million pulses/second**

Determination method:

- AoA (for Archont-B and Archont-C): **RMS error less than up to 1 degree**
- TDoA (for all versions): **RPE less than 1.5% from distance**

Scanning speed: **500 GHz/sec**

Deployment time: **less than 30 min**

System design options:

- **Arhont-T** - ultra portable version
- **Arhont-B** - portable version on tripod
- **Arhont-C** - full version (both trailer or tripod field configurable)

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ANTI-UAV

INTERCEPTOR UAV

The aircraft is equipped with various target acquisition systems. This allows the aircraft to hit the target regardless of weather conditions.

The high speed helps to destroy almost all known UAVs. In turn, the 8 kg payload makes it possible to use this aircraft for various tasks by increasing the battery capacity and flight range. With the addition of certain equipment, the aircraft can be used as a decoy target.

The low cost of the UAV, combined with its other advantages, makes it one of the best in its class.
Time to deploy and prepare for use - 1 minute.
Production capacity of up to 3 thousand units per month

WINGSPAN
1600 mm

LENGTH
1500 mm

HEIGHT
400 mm

CURB WEIGHT
up to 12 kg

OPERATIONAL RANGE
8 km

MAX SPEED
250 km/h

MAX ALTITUDE
4000 м

FLIGHT TIME
20 min

ENGINE
electric x 2

A high-speed interceptor UAV designed to combat reconnaissance and attack aircraft. It is launched from the ground and can be equipped with a target acquisition and homing module