KB RADAR'S EW AND RADAR EQUIPMENT - VERSATILITY, EFFICIENCY, RELIABILITY

▶"Groza-O" UAV Operator Detection System

IN KEEPING up with traditions, IDEX will see the Belarussian company KB Radar offer its discerning client the latest developments in radar, electronic reconnaissance and electronic warfare technologies. The development groundwork and experience embodied in KB Radar's products of will give the user an edge in military confrontations or repelling threats to internal security, i.e. dominance in the radioelectronic spectrum.

RADARS

The radar systems developed and manufactured by KB Radar effectively carry out a wide range of tasks related to the establishment of a radar field for airspace control, air defense, as well as detecting and tracking target when deployed in a combination with electronic warfare systems.

The Voskhod 3D, combining a VHF rangefinder and S-band height finder on a single platform, detects aerial targets, measures their azimuth, range, altitude, and range rate, automatically identifies their class, locks on them for tracking and generates radar data for an integrated C2 system. Its active electronically scanned arrays (AESA) boast high sensitivity and position fixing accuracy without compromising emission security, thus improving the survivability of the system, thanks to the use of wide-band noise-like probing signals.

▶"Groza-S" Counter-UAV EW Station

▶ **Solid-state X-Band Radar "Rodnik"**

The crew needs six to eight minutes to deploy the system or prepare it for travel.

The fixed "Rosa" and mobile Rosa-RBM are derivatives of a robotic radar consists of a remote-control system and up to five radars featuring a non-driven, solid-state annular phased array, providing electronic prob beam scanning, automatic detection, tracking and identification of aerial targets to include low-signature and small ones, flying at low and tree-top altitudes.

The Rodnik small solid-state X-band radar provides automatic identification of target classes, tracking and data dissemination to the user. It can be deployed either on its own or as part of an AD network, as well as mated with SigInt and EW assets to detect and track drones in particular.

R&D efforts are apace to develop a mobile 3D S-band target acquisition digital-array radar, dubbed Nebosklon. Composed of a radar head on a semitrailer and a control post on a self-propelled chassis, the system, boasting a range of up to 470km, is designed to carry out radar reconnaissance missions both as part of SigInt troops and as a self-sustained unit.

EW & SIGINT EQUIPMENT

One of the most complex and urgent tasks facing SigInt and EW is neutralization of threats associated with the increasing use of unmanned aerial vehicles.

Coming in a variety of configurations deployed on different vehicles, the Groza-S EW system detects UAVs, fixes their position by means of a passive direction finder and optical system or active radar of the aforementioned Rodnik class to suppress their control and data links and jam GPS/GLONASS/BeiDou/GALILEO receivers. The station features a deception jammer, a.k.a. Spoofer, which generates false signals, making trespassing drones leave the defended installation to down it in a specific location. The hardware and software developed for Groza-S is used in other systems of the family, designed to protect areas and sensitive installations (Groza-Z), sea vessels (Groza-Z1-Groza-Z7), as well as search and capture on photo- and video-equipment UAV operators, deploying drones in an irresponsible manner or for criminal purposes (Groza-O).

The market currently is replete with various anti-drone guns. KB Radar's Groza-R, Groza-R2 and Groza-R4, suppressing frequencies of control channels, data and navigation links of multicopters, stand out prominently for their reliability, ergonomics, endurance, all while looking good from the price-quality perspective.

Given the network-centric nature of modern conflicts, the company's range of products includes signal intelligence, direction finding and electronic countermeasures stations degrading enemy's fixed-frequency and frequency-hopping ground and aerial communications (Groza, Pourga, Grif), as well as SigInt and jamming systems, based on these stations and command posts (Berezina). These highly mobile, fully autonomous military systems cover all radio frequency bands of tactical, operational and strategic communication and command links.

KB Radar provides growth potential in all its advanced equipment, coming with a sufficient warranty and servicing package, long-term supply of spare parts, and training program to improve skills of the customer's personnel to a high proficiency level. ANR

KB RADAR
RADAR & EW SYSTEMS

JSC "KB Radar" – Managing Company of "Radar Systems" Holding
24 Promyshlennaya St., Minsk, Republic of Belarus, 220075
Postal address: 64a Partizansky Ave., Minsk, Republic of Belarus, 220026
T: +375 17 295-30-71
Fax: +375 17 295-33-14
E-mail: info@kbradar.by
www.kbradar.by

▶ **Rosa-RBM mobile low-flying target detection radar**