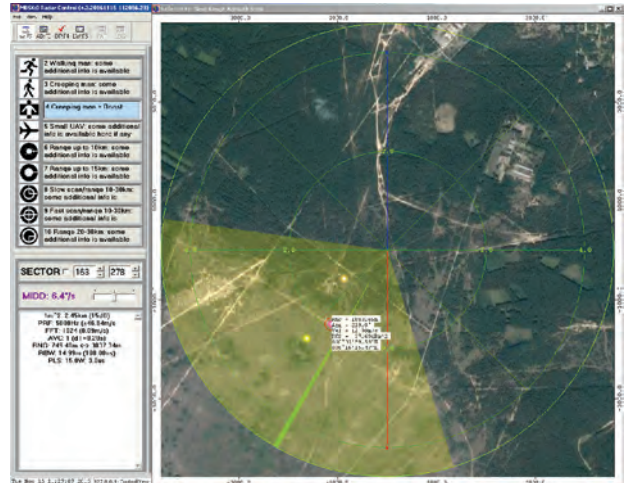


RLS-X1-M OKO PERIMETER SURVEILLANCE RADAR



User interface: data view and radar control

Specification

Instrumental range, km	0.3–30
Antenna type	waveguide slotted
Peak power, W	30 °
Elevation span	20 °
Azimuth scanning	360
Scan rate (max), deg./s	90
Targets coordinates	azimuth-range
Azimuth accuracy	1 °
Range accuracy, m	5
Radial velocity accuracy, m/s	0.1
Min. detectable radial velocity, m/s	0.2
Max. radial velocity, m/s	60
Coordinate system	WGS-84 or polar
Dimensions, m	1.2 × 0.5 × 0.75
Weight, kg	65
Power consumption (max), W	300

Sensitivity

Target with typical RCS	Detection range provided by SNR>15dB, km
UAV, 0.01 sq. m	7
Man, 0.5 sq. m	18
Car, airplane, 1 sq. m	25

Areas of Application

The radar is designed to detect low-speed ground targets in the clutter environment; to detect UAVs with a low radar cross section (RCS) at low heights; to determine 2D coordinates (range, azimuth) of the targets, RCS, radial velocity, and Doppler spectrum moments

Advantages

Capability of detecting small-sized and slowly moving targets in the conditions of strong terrain echo; radar can be mounted on the mobile platform (car, track, trailer etc.)

Stage of Development. Suggestions for Commercialization

IRL8, TRL7
 Manufacture, delivery, warranty service, and staff training, upon request

IPR Protection

IPR1

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