



36D6M

MOBILE 3D AIR SURVEILLANCE
RADAR



UKROBORONPROM

Ukrainian Defence Industry

STATE ENTERPRISE «SCIENTIFIC
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«ISKRA»

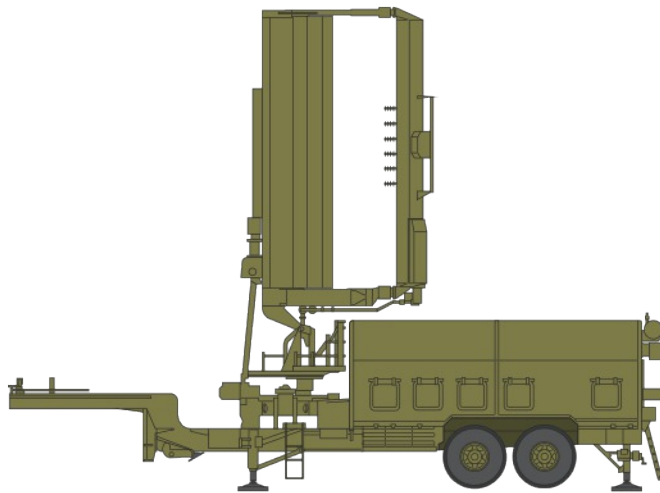
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MOBILE 3D AIR SURVEILLANCE RADAR

Mobile 3D air surveillance radar is intended for detection and target identification at low and medium altitude under active and passive jamming and coordinate and track data output.

Radar is designed to be used as a part of AD up-to-date computer-aided systems and to provide target designation to anti-aircraft missile complexes.

MAIN SPECIFICATIONS



- High probability of detection of small air targets including those moving slowly and tangentially to the radar as well as hovered helicopters.
- High noise immunity.
- Capability of jammer direction finding.
- Automatic identification of echo-signals with return signals of built-in IFF equipment.
- Capability to output radar information and target designation over narrowband communication channels.
- High reliability.
- High mobility.
- Extreme stability of true coherent transmitter.
- Unique doppler system of MTI equipment.

DETECTION RANGE FOR LOW FLYING TARGETS: RCS = 1-2 m²

| | |
|-----------------------------|--------------|
| ■ at flight altitude 100 m | 42 km |
| ■ at flight altitude 1000 m | 110 - 115 km |

DETECTION RANGE FOR LOW FLYING TARGETS: RCS = 0.1 m² (cruise missile)

| | |
|-------------------------|-------|
| at flight altitude 50 m | 27 km |
|-------------------------|-------|

| | |
|------------------------|------------------------------|
| Azimuth coverage | 360° |
| Elevation coverage | 0.5°...30° in two revolution |
| Instrumented range, km | 90, 180, 360 |
| Suppression factor | > 48 dB |
| Track throughput | > 256 |
| MTBF | 800 hours |



Operation band

S



Antenna rotation rate,
rpm

6, 12



Range accuracy, m

100



Azimuth accuracy, min

10...15



Altitude accuracy, m

400
(at range < 70 km)



Deployment/
closing time, min

< 30



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