



80K6K1

3-D AIR SURVEILLANCE RADAR


UKROBORONPROM
Ukrainian Defence Industry

STATE ENTERPRISE «SCIENTIFIC
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«ISKRA»

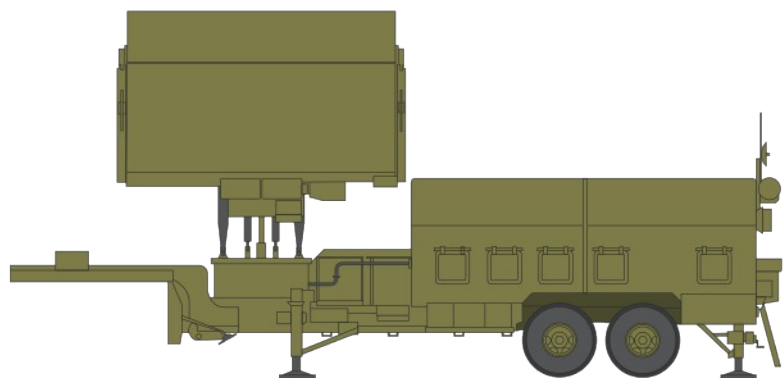
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3-D AIR SURVEILLANCE RADAR

Mobile 3D air surveillance radar for low, medium and high altitudes with increased accuracy of height detection, coordinate and track outputs, operating off-line or as a part of automatic control systems, is designed to be used:

- as a part of anti-aircraft missile troops to provide target designation to anti-aircraft missile complexes;
- as an information link in AF and AD units.

MAIN SPECIFICATIONS



RADAR SYSTEM PROVIDES:

- detecting, tracking and measuring airborne target coordinates and their ground speed including under noise-free conditions, under clutter/active and passive jamming as well as under their combined effect;
- recognition of the aircraft IFF-equipment, the individual and flight information gaining from friendly aircraft, data representation and issuing to users;
- jammer direction finding in elevation and azimuth;
- data output to off-line display facilities and interaction with command posts of regional and national ACP.

MAXIMUM RADAR OPERATION LIMITS:

■ in range, km	400
■ in azimuth, deg	360
■ in elevation, deg	0...35, 0...55
■ in altitude, km	40

Target detection range, RCS=3-5 m² (at P=0,5 F=10⁻⁶), km:

at flight altitude 10 km	200
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Transmitter type	Multibeam klystron
Transmitter peak power, kW	130
Number of beams	12
Clutter suppression, dB	50
Jamming cancelling, dB	20
Track throughput, more than	300
IFF equipment	built-in



Operating frequency range

S



Scanning interval, s

5, 10



Antenna type

PASSIVE PHASED ARRAY



Number of transport units

2



Deployment/closing time, min

30



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