



3D Mobile Medium Range Surveillance Radar N22-N(3D)

The N22-N(3D) Medium Range 3D Surveillance Radar is intended for tactical use. Radar is recommended as AA squadron/battery level sensor or as a mobile system to fill the gaps in radar network coverage.



Advantages:

- capability of detection of low-flying targets
- high mobility
- short time of deployment
- high immunity against clutter and jamming

The radar rotating phased array antenna features multiple stacked beams in elevation plane to determine azimuth, range and height of the target within wide range of elevation angles with short data refreshment time.

The radar can operate in two modes, depending on rotation rate of the antenna. The ECCM means as low antenna sidelobes, jam direction finding and tracking, automatic selection of the less jammed frequency, CFAR. The digitized radiolocation data are supplied by radio.

Detection characteristics	Coverage	Accuracy (RMS)	Resolution
Instrumented range	60/100 km		
Detection range @ fighter		<60 m	120 m
Azimuth	360°	<0,50°	<3°
Height	30 000 m	<600 m	
Elevation	to 50°		

Functional characteristics	
Operating frequency	S band (NATO F)
Antenne rotation rate	12/24 RPM
Antenna:	
– type	phased, 6 beams at reception
– aperture size (m)	3 x 0,9 m
Maximum number of tracks	100
IFF	MARK XA, ready for MARK XIIA and mode S
Output data	3D, IFF, auxilliary data in ASTERIX and/or national format
BITE	Available

