



State Enterprise  
«Scientific and Production Complex  
«ISKRA»



# 80K6M

**MOBILE**  
**3-D AIR**  
**SURVEILLANCE**  
**RADAR**

80K6M  
MOBILE  
3-D AIR  
SURVEILLANCE RADAR



# 80K6M

## MOBILE 3-D AIR SURVEILLANCE RADAR

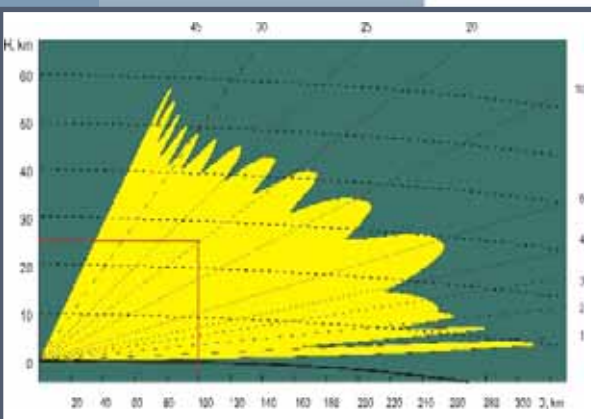
### PURPOSE:

MOBILE RADAR 80K6M DESIGNED TO BE USED AS A PART OF RADIO AND ANTI-AIRCRAFT MISSILE TROOPS, TO ISSUE TARGETING TO THE ANTI-AIRCRAFT MISSILE TROOPS AND TO ENSURE THE FOLLOWING:

- detection, tracking and measurement of the airborne target coordinates and their ground speed calculation;
- recognition of the aircraft IFF equipment;
- calculation of elevation and azimuth bearing at active jamming stations;
- data issuing to the radar workstations and the integrated systems.



### BASIC TECHNICAL DATA



<b>Operation band</b> .....	<b>S</b>
<b>Frequency q-ty</b> .....	<b>6</b>
<b>Indicator range, km</b> .....	<b>400</b>
<b>Q-ty of elevation scanning modes</b> .....	<b>2</b>
<b>Time of mode switch-over, not more, sec</b> .....	<b>0.1</b>
<b>Elevation coverage area, deg</b>	
In mode 1 .....	<b>0...35</b>
In mode 2 .....	<b>0...55</b>
<b>Scanning rate, sec</b> .....	<b>5, 10</b>
<b>Clutter suppression, dB</b> .....	<b>&gt;50</b>
<b>Beam shaping method</b> .....	<b>digital</b>
<b>Q-ty of antenna beams</b> .....	<b>12</b>
<b>Detection range of aircraft with RCS 3-5m<sup>2</sup>, km</b>	
(Probability of true detection P=0.8 and probability of false detection F=10-6)	
At flight altitude 10 km .....	<b>200</b>
At flight altitude 100 m .....	<b>40</b>
<b>Mean square error of coordinate calculation under no man-made jamming:</b>	
• in range, m .....	<b>100</b>
• in azimuth, min .....	<b>20</b>
• in altitude, within range up to 100 km, m	
in mode 1 .....	<b>300</b>
in mode 2 .....	<b>400</b>
<b>MTRR, min</b> .....	<b>30</b>
<b>Deployment time, min</b> .....	<b>6</b>
<b>Band of operating temperature, C</b> .....	<b>-40...+50C</b>
<b>Number of transport units</b> .....	<b>1</b>