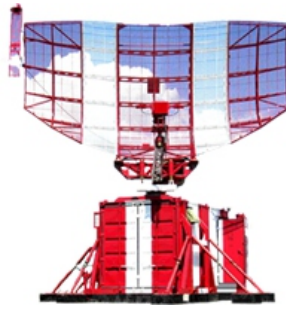




AORL-1AM



AORL-1AC

Airdrome Surveillance Primary and Secondary Radar

AORL-1AS/ AORL-1AM

Primary-secondary airdrome surveillance radars AORL-1AS/1AM featured with transistor-based transmitters are intended for operation in airports with average and small intensity of flights and as a part of automated ATC systems.

Main features:

- entire conformity with ICAO recommendations and international standards;
- high reliability due to solid-state components in principal equipment and placement of facilities with antenna drive inside thermal stable shelter;
- continuous around-the-clock operation with maintaining required equipment parameters;
- transistors-based design of primary and secondary channel transmitters;
- up-to-date methods of information processing using processors and VLSI;
- high resolution capability / high accuracy of coordinate determination;
- detection of small-sized aircraft;
- low power consumption;
- air cooling applied for all equipment;
- efficient remote control and monitoring system (RC&M);
- reduced costs for civil works; "FIRE" and "GUARD" sensors with status broadcast to control tower;
- fast and easy elimination of most hardware failures with LRU replacement;
- antenna rotation drive has two strengthened reduction gears with increased reliability featured with free wheel clutches that allow dismantling and assembling a motor during antenna rotation;
- 100% units and parts down to LRU level in set of spares.

Specifications

Maximum range of detection, km:	
Primary channel	160/100 km
Secondary channel	380 km
Frequency range, Mhz:	
Primary channel	1215-1279 Mhz
Secondary channel	740/1030/1090 Mhz
Resolution by digital output, better (distance/azimuth):	
Primary channel	230 m or 1% of target distance/ 3,5 °
Secondary channel	225 m / 1,1 °