



## ***SELF-CONTAINED GROUND RADAR INTERROGATOR MVRL-K LIRA-VME***

MVRL-K LIRA-VME is intended for getting radar data from air objects, processing and transferring this data to any radars with digital output in case of functioning within secondary surveillance radar systems and radar identification systems (MK-XII).

MVRL-K does ensure the following:

- In an SSR system it ensures defining of coordinates and obtaining of supplementary data (flight data) transmitted by on-board transponders in the modes A and C, and defining identification number of an air object in the mode S;
- In radar identification system of MK-XII it ensures identification of air objects;
- Identification of radar data obtained via secondary radar channels and MK-XII channels;
- Transfer of radar data to any radars with digital output;
- Collecting, processing and transferring of data regarding technical status of MVRL-K equipment and regarding its availability for service to any radars with digital output;
- Control and monitoring of MVRL-K equipment technical status from the remote control console.







## SPECIFICATIONS OF LIRA-VME MSSR-K

Zone of detection at data renewal rate of not more than 10s	
- Maximal range, km	600
- Minimal range, km	1.5
- Maximal elevation angle, deg.	45
- Maximal altitude of detection, km	35
RMS-errors of coordinates measurement, not more than:	
- in range, m	50
- in azimuth, min	6
Resolution, not worse than:	
- in range, m	100
- in azimuth, deg.	0.6
Standing wave ratio of feeder sections, not more than	2.0
Losses in feeder sections, dB, not more than	4.2
Carrier frequency of interrogation signals, MHz	1030 ± 0.01
Time of readiness for operation from the moment of applying primary power supply and giving the command for switching-on, min, not more than	5
Voltage of primary power supply mains	380 V 50 Hz
Power consumption, kW, not more than	15
MTBF, h, not less than	20 000
Mean-Time-to-Recovery, h, not more than	0.5
Life till write-off, h	120 000
Assigned service life, years	15