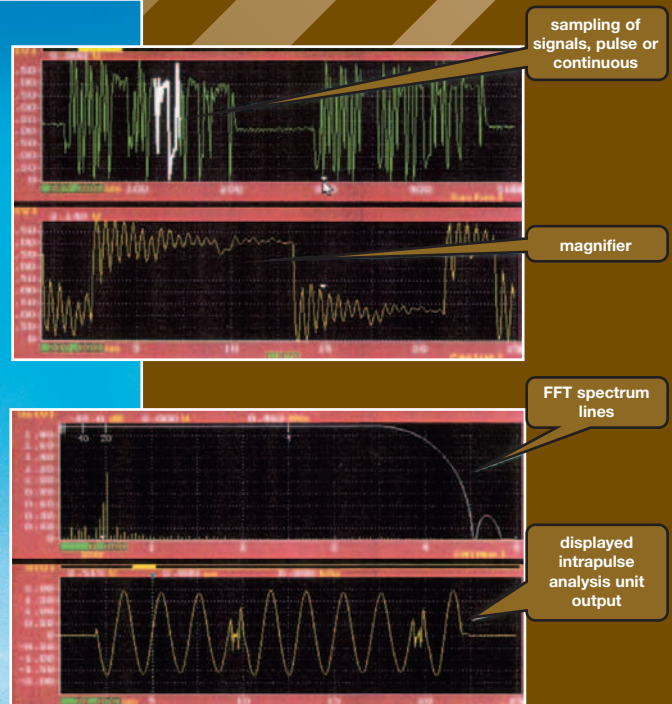
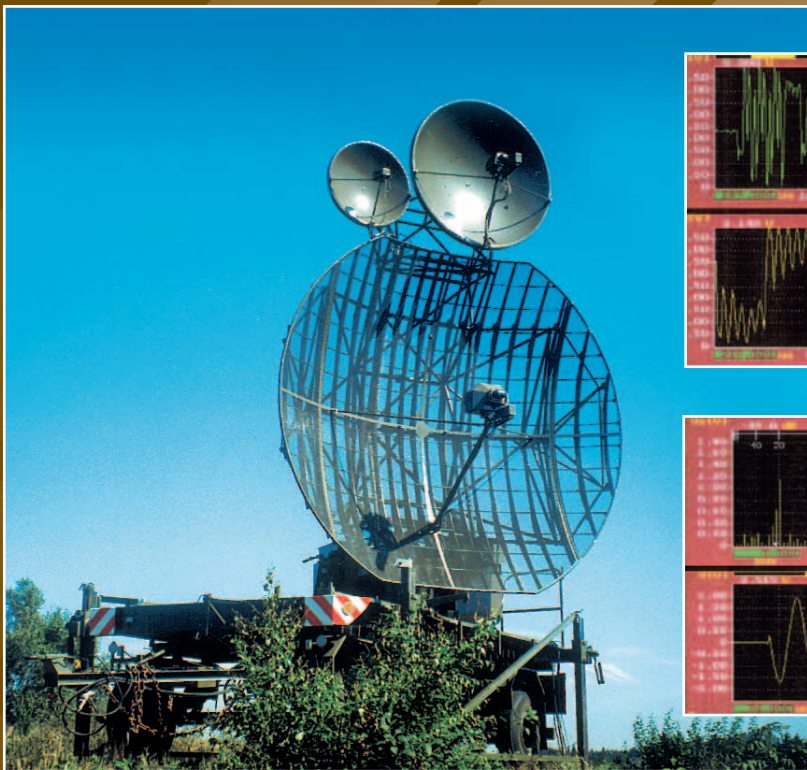


SDD

Long-range Passive Reconnaissance System

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SDD Long-range Passive System for Monitoring of Electronic Signals

The system is based on the passive operation principle and enables automatic detection and monitoring, identification, direction finding and full analysis of electronic signals emitted by all types of ground based and naval surface targets. The exceptional long surveillance range is reached by use of the tropospheric scatter effect. The system consists of two self-contained passive monitoring and direction finding stations. Each station consists of one antenna unit with parabolic antennas and HF receiving devices and one data processing and control unit. The single-station system enables complete evaluation of parameters of received signals including azimuth, two-stations system further enables precise determination of target position coordinates (x, y). The system can be delivered as stationary or mobile field version which is installed in a standard ISO shelter configured for easy truck, rail or plane transport. The modular design of the system enables easy upgrading and modifications. A simulator for advanced operator training and system testing is available.

Main Technical Parameters

Surveillance area up to 700 km (beyond radar horizon)
Azimuth sector 360°
Frequency band Standard 0.8 – 8 GHz Option 0.1 – 18 GHz
Tracking capacity up to 200 targets simultaneously
DF accuracy less than 0.5° (automatic co-ordinate location)
Instantaneous frequency measurement bandwidth 4,000 MHz
Crew (1 station) 1 operator

Types of Processed Signals:

- PRI constant and agile
- pulse Doppler signals
- intrapulse modulation (chirp, phase)
- CW and CW with modulation
- signals of identification and navigation systems
- communication signals (e. g. JTIDS)
- other signals emitted by existing combat systems such as LPI signals

Features:

- automatic azimuth and frequency scanning
- automatic determination of radar type incl. finger printing facility
- built-in test and failure diagnostic capabilities
- NBC protection

Areas of Application:

- SIGINT system from tactical to strategic level
- field intelligence system
- maritime surveillance

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