



TERRA

Strategic Early Warning Dual Band Radar

ELM-2090



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Strategic Early Warning Dual Band Radar System

GENERAL

ELM-2090 TERRA is a unique, field proven, dual band radar system providing effective strategic Early Warning capabilities against long range targets, including ballistic and other missile types and satellites. TERRA integrates the ELM-2090U ULTRA Radar operating in UHF-band and ELM-2090S SPECTRA Radar operating in S-band into a unified system, which can be positioned at a single site, to deliver optimized detection and tracking performance.

The system searches and detects aerial threats in UHF-band at very long ranges. After the threat is verified and tracked, the UHF-band radar automatically hands over the tracking data to the S-band radar for high accuracy tracking and accurate cueing for air defense weapons systems.

MISSION

- Missile Defense Radar
- Long Range Early Warning
- Air Situation Picture
- Satellite and space debris monitoring

FEATURES

- Early warning with high precision tracking of Ballistic Missiles and low RCS targets, including accurate impact and launch point estimation
- Automatic cueing for instant target acquisition and handover
- Optimized resource management and enhanced target load handling
- Interoperability with air defense systems
- Advanced ECCM capabilities
- Extended azimuth coverage up to:
 - Electronic Steering Sector is $\pm 60^\circ$
 - Mechanical Antenna Slewing is $\pm 100^\circ$
- Total coverage up to 320°
- High reliability and maintainability
- Transportable and re-deployable configuration

