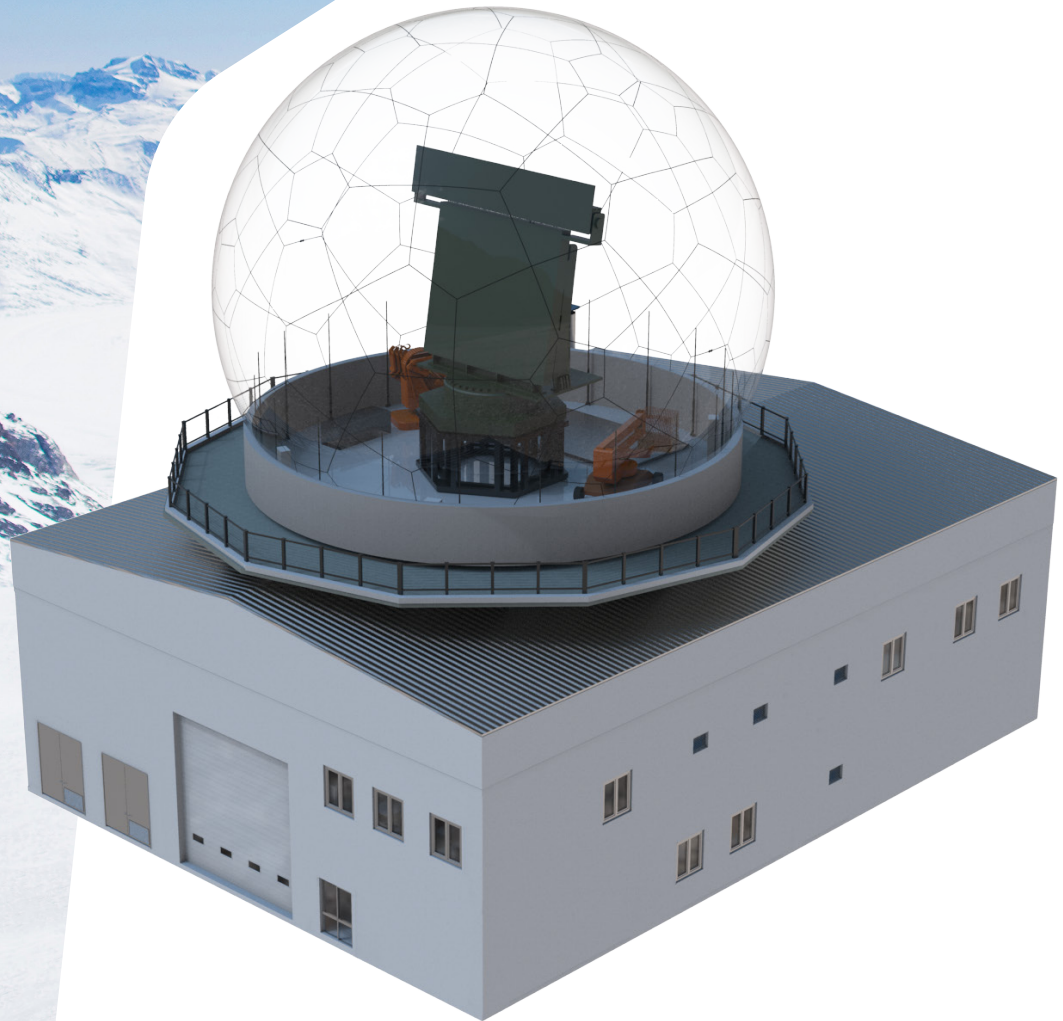




FIXED EARLY WARNING RADAR SYSTEM

#Radar



**aselsan**



## FIXED EARLY WARNING RADAR SYSTEM

ALP 500-G, the longest-range search radar in ASELSAN's scalable S-Band early warning radar family to be installed in a fixed radar site, is a new generation radar with multi-function AESA technology and digital beamforming antenna architecture.

ALP 500-G has the ability to detect, track and classify the air-breathing and stealth/low RCS targets from long ranges.

The system can detect and track anti-radiation missiles and take the necessary countermeasures instantly. In addition, ALP 500-G can be remotely controlled locally or globally.

The system can transfer 3D aerial picture to National and International Command and Control Systems and/or radar networks and share the necessary control and status messages.

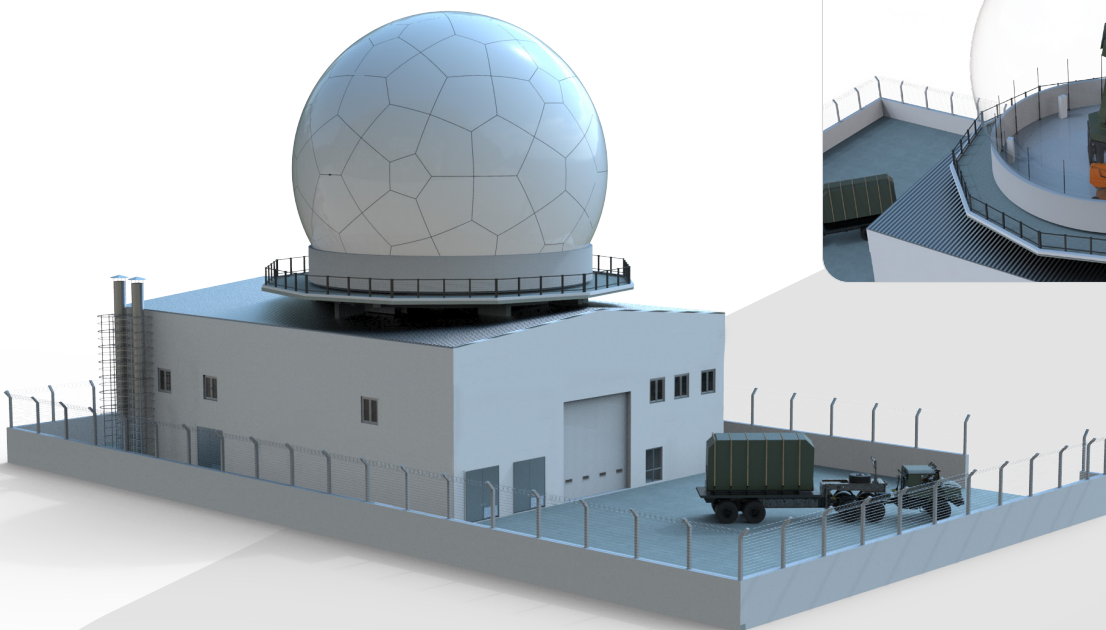
The system also has track fusion and handover capabilities, which are especially critical for ballistic missile defense.

A high-gain IFF antenna with AESA architecture is integrated into ALP 500-G, which has a long-range Mode 5 IFF interrogator system.

ALP 500-G has electronic protection features such as broadband operation, side lobe blanking, low side lobe levels, etc. Without the radome on the radar building, ALP 500-G can operate continuously in extreme weather conditions.

### General Features

- Effectiveness Against a Broad Set of Threats at Long Range
- Broad Coverage with Adjustable Altitude Ceiling Levels
- State of the Art Solid-State Power Amplifier Technology
- Digital Beamforming
- Various Tactical Operation Modes
- Target Classification Capability
- National Mod5/S Long Range IFF System (compatible with NATO; STANAG-4193)
- Local and Remote Radar Control
- Integration into Control Warning Centers, NATO ACCS, Air and Missile Defense Systems
- Compatibility with Tactical Communication Networks
- Advanced Electronic Protection Measures and Cyber Security
- Counter Measures Against Anti-Radiation Missiles
- Portable with Wheeled Cargo and Cargo Aircraft
- 24/7 Operation
- 3000 Hours MTBCF, 99.9% Availability and 30 Minutes MTTR
- Advanced Built-in Test (BIT) Capabilities
- Resistance to Harsh Environmental Conditions (MIL-STG-810G)
- Advanced Algorithms Against Wind Turbines



Specifications are subject to change without any notice. | All tolerances are within  $\pm 10\%$ .

REHIS - ALP 500-G - 12.2024