

KALKAN | 100-G

MULTIFUNCTIONAL MOBILE
SEARCH RADAR

#Radar



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MULTIFUNCTIONAL MOBILE SEARCH RADAR

KALKAN 100-G can operate as the primary search radar in various air defense command and control systems and has the capability to operate independently. KALKAN 100-G provides a 3D air picture and can transmit it to connected systems while receiving commands and parameters from them.

Applications

- Air Defense Weapon Systems
- Protection of Critical Areas
- Integration with Command and Control Systems
- Low-Altitude Air Defense Missile Systems

Target Threats

- Fixed-Wing Aircraft
- Rotary-Wing Aircraft (Helicopters)
- Unmanned Aerial Vehicles (UAVs)
- Air-to-Ground Missiles

Technical Specifications

- Transmission Frequency : X-Band
- Effective Range : 70+ km
- Operating Temperature : -32°C / +44°C
- Antenna Dimensions : (W)1700mm x (D)700mm x (H)1000mm
- Environmental Standards : MIL-STD-810G
- Storage Temperature : -40°C / +63°



Design Features

- Digital Beamforming and Solid-State Transmit/Receive Capability with Advanced Digital Signal Processing (DSP) Architecture
- 3D (Range, Azimuth, and Elevation) Target Positioning and Tracking
- Rapid Detection and Tracking of Low-Altitude Air Targets with Classification as Fixed or Rotary-Wing
- Modular System Structure
- Integrated IFF (Identification Friend or Foe) Antenna
- Multi-Beam Active Phased Array Antenna Architecture
- Multi-Target Tracking
- Electronic Beam Stabilization
- Short Reaction Time
- Definition of Alarm, friendly, and Blackout Zones
- Built-in Test (BIT) Capability
- Data and Log Recording Capability
- CRAM, AKREP 100-G integration



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

REHİS - KALKAN 100-G - 12.2024