

HISAR O 100

MEDIUM RANGE AIR DEFENSE MISSILE SYSTEM

- AIR DEFENSE OF STATIONARY FORCES AND CRITICAL ASSETS
- TARGET INTERCEPTION WITH IIR AND RF MISSILES
- MULTIPLE ENGAGEMENT AND SUCCESSIVE FIRING
- THREAT EVALUATION AND WEAPON ASSIGNMENT
- OPERATION IN DAY, NIGHT AND ADVERSE WEATHER CONDITIONS
- MOBILITY IN TACTICAL AREA



HISAR O⁺

MEDIUM RANGE AIR DEFENSE MISSILE SYSTEM

HISAR O⁺ Medium Range Air Defense Missile System is dedicated to air defense of Stationary Forces and Critical Assets against:

- Fighters
- Helicopters
- UAVs
- Cruise Missiles
- Air to Surface Missiles

HISAR O⁺ performs target detection, classification, identification, tracking, command & control and fire control functions in a distributed and flexible architecture.

One HISAR O⁺ Battery consists of battery level FCC, battery level Radar, Electro-Optical System, TDLCS and Missile Launching Systems. HISAR O⁺ Battery has the capability of target detection, tracking, identification and performing command & control and fire control functions autonomously.

HISAR O⁺ is organized in battalion level and consists of battalion level Fire Control Center (Battalion FCC), battalion level Radar, three HISAR O⁺ Batteries, Tactical Data Link Connection System and Support Vehicles. Battalion FCC produces Integrated Air Picture using track information provided by battalion level Radar and Air Defense Batteries in the Battalion, performs threat evaluation and assignment for Batteries.

HISAR O⁺ Medium Range Air Defense Missile System is state of the art technology and has open HW&SW architecture for utilizing future technology.

Features

- Effective Air Defense Execution with Distributed Architecture and Flexible Deployment
- Air Defense mission planning at battery and battalion level
- Management and distribution of command and control information
- Integrated air picture generation
- Target Interception with IIR and RF Missiles
- 360° Threat Destruction via Vertical Launcher
- Multiple engagement and successive firing
- Data Link for midcourse guidance
- Operation in day, night and adverse weather conditions
- Global positioning system and navigation
- Remote control
- Wired or wireless communication between systems
- Work in coordination with Turkish Air/Naval/Land Forces command and control units using Link 1/Link 11B/Link 16 tactical data links and JREAP
- Automatic target tracking and shooting with using EO sensors
- Identification Friend or Foe (IFF)
- Threat Evaluation and Weapon Assignment
- Multi Target, Multi Radar Fusion
- Embedded Simulation
- Built-in test, Effective ILs and maintenance

Specifications

- System Interception Range : 25 km
- Ready-to-Fire Missile : ≥ 18 (Battery Level)
≥ 54 (Battalion Level)
- Fighter Detection&Track Range : 40-60 km
- Number of Tracks : > 60 targets

