

AN/TPQ-53

Weapons Locating Radar for 360° Protection



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It's About the Soldier

In today's rapidly evolving security landscape of unconventional battlefields, irregular warfare and reemerging linear battlefields, our soldiers need to quickly locate and neutralize rocket, artillery and mortar threats. The AN/TPQ-53 (formerly known as EQ-36) meets this challenge head on.

The AN/TPQ-53 Radar System is a highly mobile radar that detects projectiles in-flight, and determines the firing point location of rockets, artillery and mortars (RAM.) It is deployable, proven and capable of operation in extreme terrain and climatic conditions. The system provides both 90* and 360*azimuth detection coverage against all threats at increased ranges relative to legacy systems, ease of programmability and growth.

The Q-53 is battlefield-proven by the U.S. Army. LM has delivered over 190 Q-53 radar systems and continues to produce for Foreign Military Sales.

Capabilities:

- Detects and Classifies Hostile Indirect Fire; Rockets, Artillery and Mortars
- Reports Launch and Impact Point Locations
- Provides Friendly Fire Registration
- Remote operations via Optic Cable Control up to 1 km
- Links to Shooters (through AFATDS and FAADC2)
- Emplace – 10 Minutes (System Auto-Levels)
- Displace – 5 Minutes



The Q-53 is maneuverable and easily maintained. The system is designed to operate in a wide range of weather conditions.



Mounted on its 5-ton FMTV prime mover, the Q-53 can be rapidly deployed and integrated into the tactical battlefield with heavy, medium and light forces. The Target Acquisition Subsystem contains the radar on a single prime mover and tows the power generator. This package performs all missions of the Q-53 for shorter durations.

A second prime mover carries an operations control shelter, backup power generator, and two additional soldiers to provide a sustained operations capability.

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