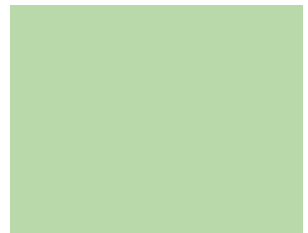


The **LCMR** detects and locates mortar firing positions automatically by detecting and tracking the mortar shell and then backtracking to the weapon position.

Redefining possible ▶



LCMR is the only counter fire radar capable of 360° coverage.

Introduction

The **Lightweight Counter-Mortar Radar (LCMR)** was developed by Syracuse Research Corporation in 2001 for the US SOCOM.

The LCMR detects and locates mortar firing positions automatically by detecting and tracking the mortar shell and then backtracking to the weapon position. The LCMR provides continuous 360° surveillance using an electronically scanned antenna. When a mortar is detected, the LCMR sends a warning message indicating a round is incoming. After sufficient data is collected to enable an accurate weapon location, the weapon's location is reported.

The LCMR system has been designed to be compatible with airborne operations and can be deployed in a door bundle. The system can be assembled and disassembled quickly by two soldiers.

Features

- Total system weight - 120 lb
- 360° continuous surveillance

- Auto mortar location notification
- Digital messaging to AFATDS and FAAD
- 2 man portable
- Air drop compatible
- 20 minute setup/5 minute teardown
- Battery powered operation

Benefits

- Additional capability for fire detection and counterfire targeting
- Only available radar with 360° coverage
- Available quickly for experimentation without the extensive requirement verification process
- Point of origin and predicted point of impact for warning and engagement
- Rapidly available force protection

Combatting the Threat

The LCMR has proven to be exceptionally effective at detecting and locating the mortar threat that is facing our troops today in the Global War on Terror. LCMR is the only counter fire radar capable of 360° coverage, allowing it to detect and track multiple rounds from widely separated locations. This allows U.S. Armed forces to quickly and effectively locate and prosecute enemy mortar launchers. The tripod mounted lightweight antenna, and low prime power consumption have proven the versatility of the LCMR, allowing it to be deployed in locations previously unavailable to traditional counter fire radars, and making it an ideal solution for force protection at Forward Operating Bases (FOBs).



U.S. Troops backtrack enemy weapon location, enabling quick response.

Operating Parameters

- Weapon location coverage
 - Azimuth 360°
 - Elevation 30°
 - Search rate 3 Hz
- Shipping configuration
 - Two reusable shipping containers weighing less than 150 lb each
- Multiple power sources
 - AC (120/220V, 50-400 Hz)
 - HMMWV
 - Batteries

To obtain more information about **LCMR**, contact:

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Examples of weapons located by LCMR.



Enemy preparing to launch mortars (at troops).