

# Sentinel A4

Air Defense Radar for Current and Emerging Threats



# The Lockheed Martin Sentinel A4

## The Army's Premiere Battlefield Radar for the Next 40 Years

A Real, Threat-Based Mission Need. A modern sensor designed to address current and emerging Air, RAM and Cruise Missile threats

Sensor to Evolve with the Operational Environment. Leverages recent advances in radar technology to provide a modular, scalable architecture

Mature, Low-Risk Technology. State of the Art Digital Architecture with Gallium Nitride (GaN) transmitter technology, distributed architecture concepts, and advanced signal processing techniques

### The Environment

- Extreme Temperatures
- Environmental Contaminants
- Complex Terrain
- Extreme Clutter
- Dense Electromagnetic/Frequency Environments
- Difficult Jamming Conditions

### The Soldier

- Crew of 2 Soldiers
- Ease of Operations
- Easily Maintained
- Maximizes Automation

- Replaces Existing Sentinel AN/MPQ-64 Radars for the US Army
- Improves detection/performance against FW/RW/CM/UAS threats
- Provides improved Electronic Protection and Combat Identification for reduced engagement timelines
- Adds the ability to detect Rocket, Artillery, and Mortar (RAM) threats
- Calculates RAM Point of Origin and Point of Impact
- 360 degree Hemispherical Coverage providing Fire Control Quality Track Data
- Rapid-Development: First Five (5) Systems Begin Testing in 2021

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<https://www.lockheedmartin.com/en-us/products/sentinel-a4.html>  
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