

Thermal Radar™ CASE STUDY

25 Cameras Reduced to Just 2 - Without Losing Coverage



Thermal Radar™ Solution

Challenge

A large utility storage and laydown yard required comprehensive perimeter and asset protection. The original third-party design called for 25 fixed-view cameras to achieve full coverage, creating major cost, complexity, and maintenance challenges:

- High Infrastructure Costs → More poles, cabling, and power requirements
- Higher VMS Licensing Fees → Multiple streams increase software costs
- Complicated Installations → Longer deployment timelines
- Larger Maintenance Burden → More devices to service and replace

Solution

Using Thermal Radar's 360° rotating thermal detection technology, we redesigned the solution to achieve complete site coverage with just two cameras.

Results

- Camera Count Reduced, 25 → 2
- Project Cost Reduced \$XXX → \$XX
- VMS Licensing Costs Reduced 90%
- Few Points of Failure
- Improved Situational Awareness with 360° Continuous Coverage

**THERMAL RADAR'S PATENTED ROTATING THERMAL TECHNOLOGY REDUCES
HARDWARE, CUTS COST, & SIMPLIFIES SECURITY**

Securing a Large Utility Laydown Yard with Fewer Cameras



Key Advantages

- 360° Continuous Coverage – One sensor replaces multiple fixed cameras
- Integrated Human, Vehicle & Fire Detection – Intelligent alerts from edge analytics
- Lower Infrastructure Costs – Fewer poles, less trenching, and reduced power needs
- Simplified VMS Licensing – 2 licenses instead of 25
- Rapid Deployment – Less hardware, faster installation

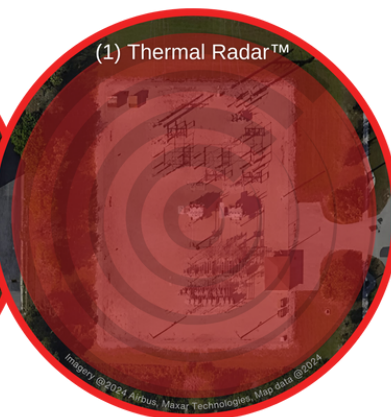
How it Works

Thermal Radar uses a patented rotating thermal sensor to continuously scan in full 360°. This replaces multiple fixed cameras and provides real-time detection of humans, vehicles, and fires — all from a single device.

TRADITIONAL
COVERAGE

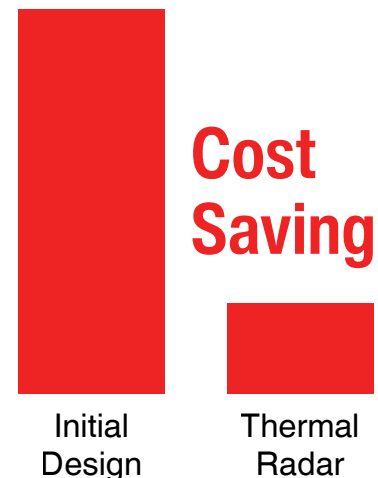


THERMAL RADAR
COVERAGE



- Patented 360° Thermal Scanning
- Edge-Based Analytics: Human, vehicle, and fire detection
- Optional AI-Powered Insights for advanced detection accuracy
- Geospatial Detection Zones for targeted alerts
- Slew-to-Cue PTZ Integration for visual verification
- Adaptive Analytics for reduced false positives

Cost Savings



This project demonstrates how Thermal Radar's patented rotating thermal sensor technology delivers the same, or better, coverage as traditional multi-camera deployments but with a fraction of the hardware and significantly lower total cost of ownership. We're enabling customers to secure critical infrastructure more effectively while proving a clear competitive edge.

Use Case Applications:

