



# THERMAL RADAR™

Visionary Thermal Detection

## Beyond Motion Detection: True 360° Thermal Threat Awareness

Traditional ground-based radar systems detect motion within defined zones, requiring multiple devices to secure large perimeters and relying on camera integration for threat classification. Thermal Radar™ redefines perimeter protection with continuous 360° thermal detection that identifies **intruders, vehicles, and fires from a single passive sensor.**

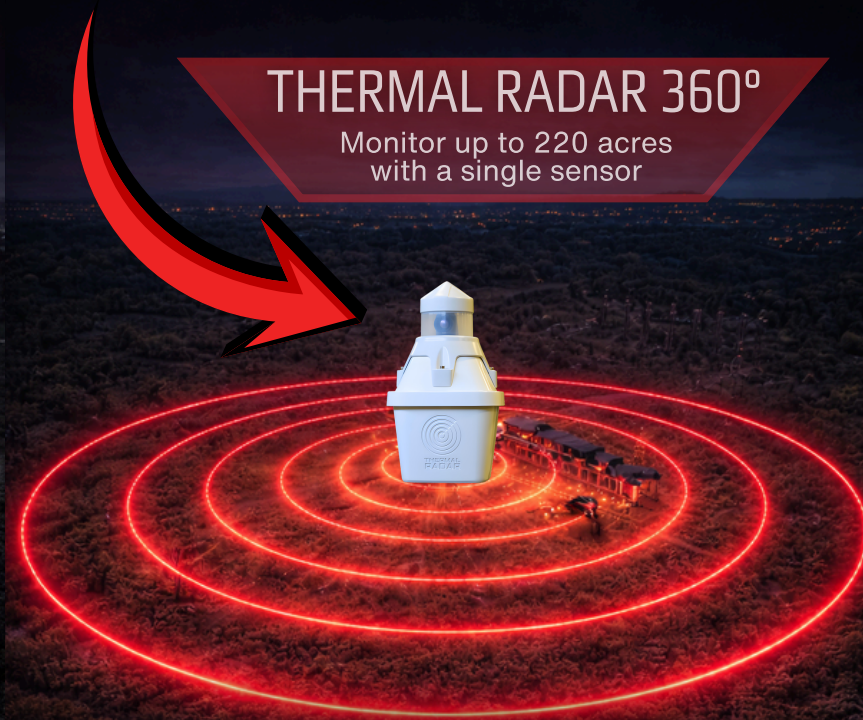
### GROUND RADAR

More devices do not mean more security.  
They mean more complexity.



### THERMAL RADAR 360°

Monitor up to 220 acres  
with a single sensor



## Detect Heat. Identify Threats. Respond Faster.



Continuous 360°  
Coverage



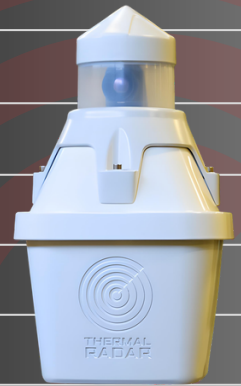
Detect Humans,  
Vehicles, & Fires



Inside-Out  
Threat Detection

# Continuous 360° Thermal Detection with Threat AND Fire Classification

Category	Ground-Based Surveillance Radar Motion Awareness	Thermal Radar™ (Passive 360° Thermal Detection) <b>THREAT</b> Awareness
Sensing Method	✗ Active radar emits radio waves to detect motion	✔ Passive thermal imaging detects heat signatures
Emission Type	✗ Active RF transmission	✔ No radio waves; passive detection
Visual Verification	✗ PTZ required for visual verification	✔ Detection + Video Verification as Standalone
Coverage Pattern	✗ Sector coverage typically ~100°-120° azimuth	✔ Continuous 360° rotating scan
Blind Spots	✗ Multiple sensors required for full coverage	✔ Designed to eliminate perimeter blind spots
Detection Types	✗ Human and Vehicle	✔ Detects humans, vehicles, AND fires
Fire Detection	✗ Not designed for fire detection	✔ Detects temperature anomalies for early fire detection
Target Classification	✗ AI classification via Area Surveillance Software+AI software	✔ Edge analytics and optional added AI classify targets
Detection Range	✗ 150 m to 1,000 m depending on model	✔ Up to ~1000 m (typical use varies)
Coverage Area per Sensor	✗ Up to 6-200+ acres per radar	✔ Replaces multiple cameras with one rotating sensor, up to 220 acres
Infrastructure Needs	✗ Fewer sensors vs cameras but multiple radars needed for 360°	✔ Fewer devices reduce poles, cabling, licenses
Camera Dependency	✗ Typically integrated with PTZ cameras for visual verification	✔ Can operate standalone; integrates with PTZ for additional verification
Primary Detection Model	✗ Motion-based threat awareness	✔ Heat-based threat awareness



Thermal Radar™ delivers true threat awareness.

- Identifies the threat, not just the movement
- Pinpoints exact location with geospatial precision
- Measures heat signatures to reveal risk
- Detects early fires before they escalate
- Provides full-site awareness, not fragmented zones

