



THERMAL RADAR™

Visionary Thermal Detection

Built for the Entire Perimeter: True 360° Thermal Threat Awareness

LiDAR is designed to measure distance, shape, and movement within a scene. In some applications, that can be useful. But for wide-area perimeter protection, Thermal Radar™ provides a different advantage: continuous 360° thermal detection that helps identify intruders, vehicles, AND fires from a single passive sensor.

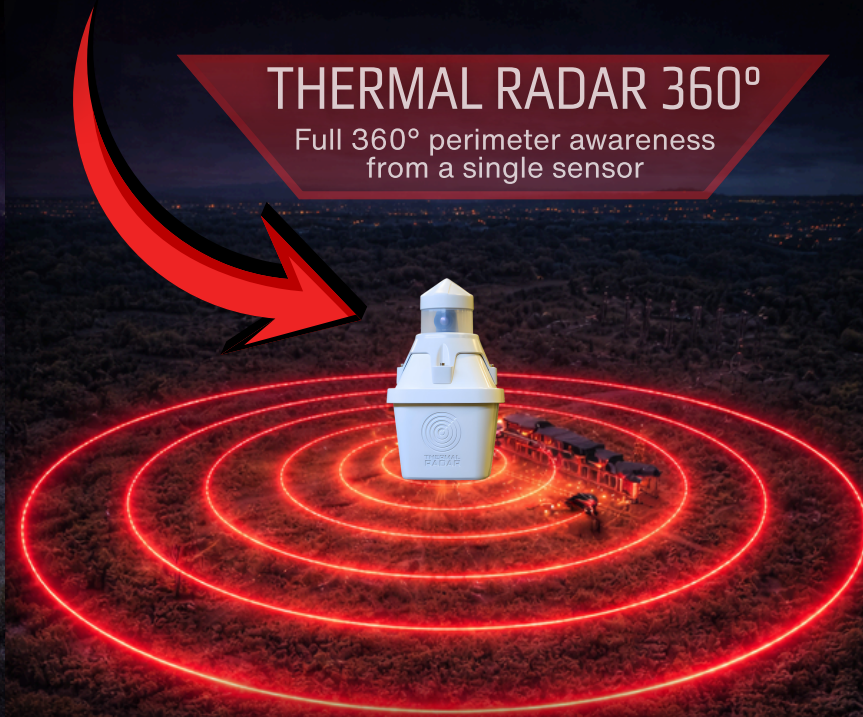
LiDAR

Measures shape, distance, and movement in a defined area



THERMAL RADAR 360°

Full 360° perimeter awareness from a single sensor



Detect Heat. Identify Threats. Respond Faster.



Continuous 360° Coverage



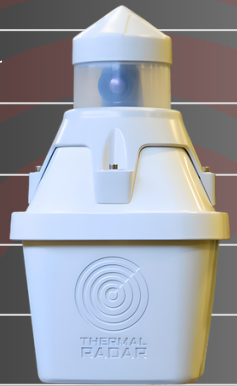
Detect Humans, Vehicles, & Fires



Built for Wide Area Awareness

Continuous 360° Thermal Detection with Threat AND Fire Classification

Category	LiDAR Spatial Awareness	Thermal Radar™ (Passive 360° Thermal Detection) THREAT Awareness
Sensing Method	✘ Active laser sensing measures distance, shape, and movement	✔ Passive thermal imaging detects heat signatures
What It Naturally Sees	✘ Object position, contours, and motion in a viewed area	✔ Heat based activity inside and across the perimeter
Primary Detection Strength	✘ Measures where something is and how it moves	✔ Detects what type of heat based threat is present
Coverage Pattern	✘ Typically watches a defined scene, lane, corridor, or zone	✔ Continuous 360° rotating scan
Surveillance Approach	✘ Looks into an area	✔ Inside Out Surveillance
Perimeter Fit	✘ Best for specific zones and controlled areas	✔ Best for wide area outdoor perimeter awareness
Heat Detection	✘ Does not detect heat	✔ Detects heat signatures
Fire Detection	✘ Not designed for fire detection	✔ Detects temperature anomalies for early fire detection
Detection Types	✘ Detects objects moving through a defined area	✔ Detects humans, vehicles, and fires
Visual Interpretation	✘ Builds spatial awareness of objects in a scene	✔ Provides thermal threat awareness across the full perimeter
Infrastructure Needs	✘ Broader coverage often requires multiple/overlapping devices	✔ 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	✘ Scene based object awareness	✔ Heat-based threat awareness



Thermal Radar™ is built for inside-out perimeter awareness.

- Identifies heat-based threats across the full perimeter
- Detects humans, vehicles, and fires
- Monitors outward in continuous 360° coverage
- Provides early fire detection capability
- Reduces the need for fragmented scene-by-scene coverage
- Delivers wide area awareness from a single passive sensor

