



Thermal Radar™ is a network-based thermal surveillance and detection solution providing constant 360° situational awareness. By rapidly rotating a FLIR Boson thermal sensor and running edge analytics, Thermal Radar™ can be used as a stand-alone detection outpost or the centerpiece of your integrated physical security strategy. The patent-pending Thermal Radar™ GUI integrates with VMS and PSIM platforms by displaying the full 360° detection area, integrated geospatial map, and event alerts.



Cost-Effective 360° Thermal Detection

- Geospatial location-based detection alerts
- Reduces device count, infrastructure, and licensing costs
- No export license required for most international applications
- Proprietary adaptive analytics result in low false-positive alerts
- Edge analytics for human, vehicle, and fire detection
- Provides slew-to-cue functionality to an integrated PTZ
- Passive thermal detection and surveillance solution
- Simultaneous detection of multiple targets
- Patent pending GUI feed displaying full 360° coverage area
- Independent customizable areas of interest/detection zones

Thermal Imager

Type	FLIR Boson™, Uncooled VOx Microbolometer
Frame Rate	9Hz/60Hz
FPA Resolution	320 X 256 pixels
Image Bit Depth	16-bit thermal infrared
Lens Focal Length	9.1mm, 6.3 mm
Configuration	White hot or black hot configurable

Speed and Resolution

Rotation Speed	Between 15 and 60 RPM
Image HFOV	360°
Image VFOV	19.5°, or 27.3°
Image Resolution	320 X 256 per station

Power Requirements

Input Power	IEEE PoE+ (802.3at) – LTPoE++ (90W)
Input Connection	RJ 45
Power Consumption	<16W, 12W typical

Processor and Analytics

Processor	Quad Core 64-bit
Memory	4GB Ram
Embedded Analytics	Security: intrusion and classification, fire detection, temperature monitoring.
Detection Zones	Configurable areas of interest, exclusions, and motion filters

Communication

Ethernet	Autoswitch 100 Mbps–1 Gbps
Network Security	TLS with password protection

Environmental

Operating Temperature Range	-40° to + 60° C
Storage Temperature Range	-40° to + 85° C
Protection Standard	IP67

Physical

Dimensions	5.75" (W) X 7.075" (H) (146 mm X 197mm)
Weight	<7 lbs. (3 Kilos)

General

PTZ Integration	PTZ Slew-To-Cue commands upon detection
VMS Integration	ONVIF compliant RTSP stream, alerts
Warranty	1 Year

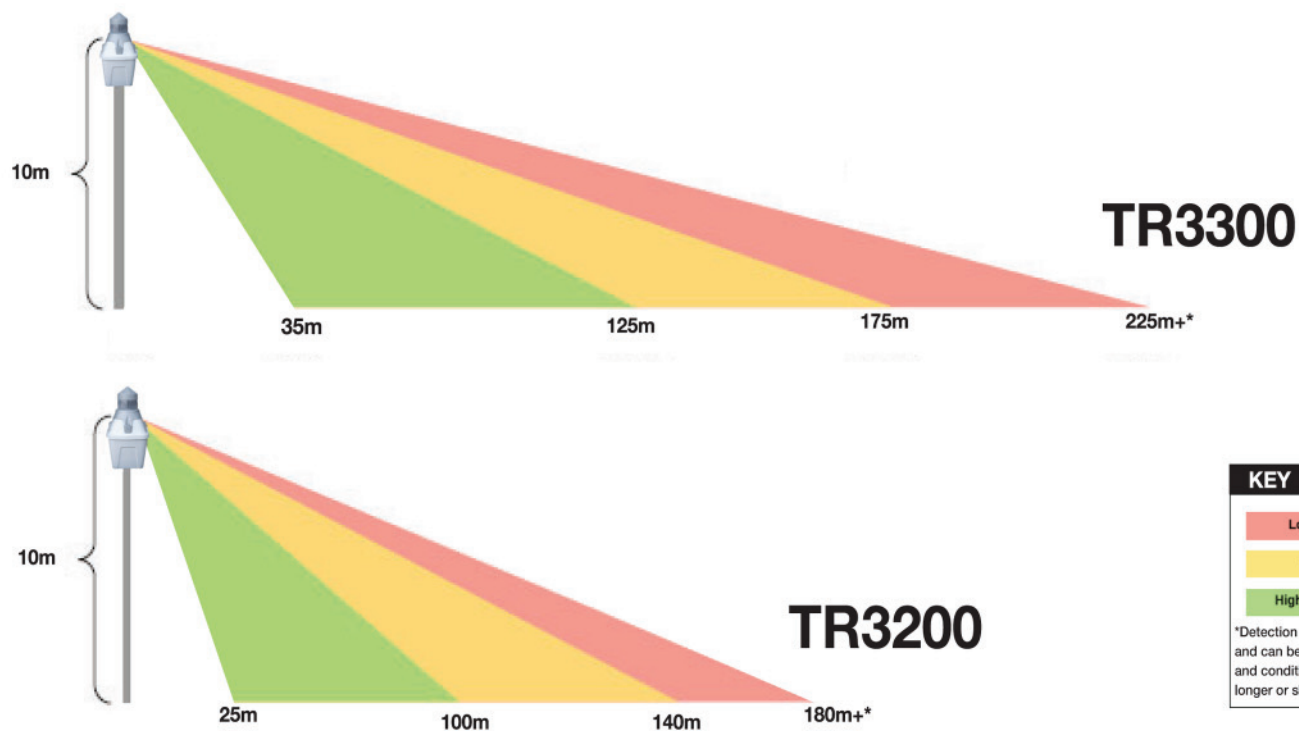
Video

Video Compression and Streaming	H.264
Resolution	1080p
Frame Rate	8 - 15 FPS

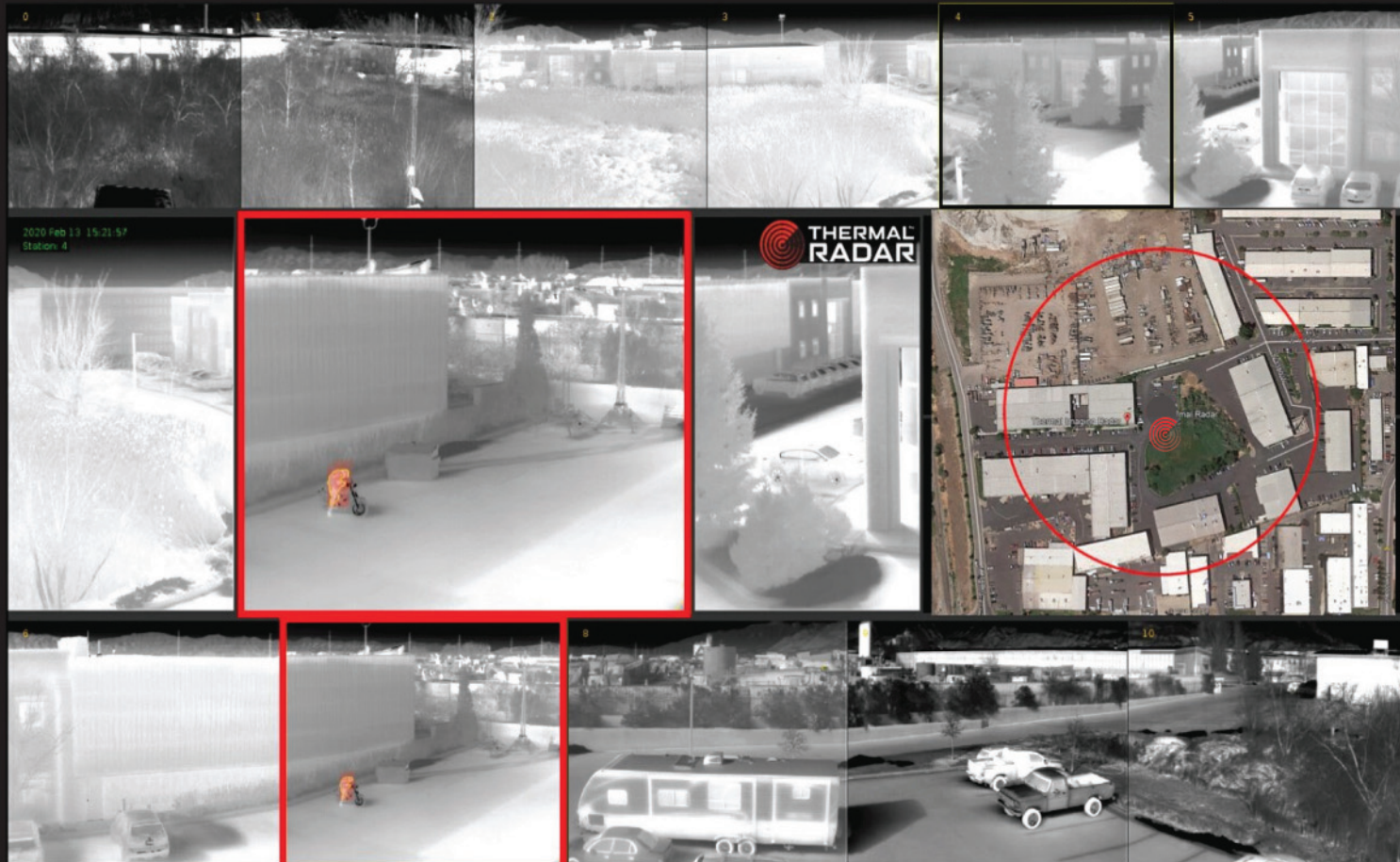
Detection Range (Environmentally Dependent)

Human	Up to 250m
Vehicle	Up to 750m
Fire	Up to 2.5

Thermal Radar™ 3-Series Detection Radius



FULL 360° THERMAL COVERAGE IN ONE VIDEO STREAM (RTSP)



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