ROAMEO™
Rugged Observation Assistance Mobile Electronic Officer
AUTONOMOUS PATROL IS RAD

Detection to Action, Instantly
ROAMEO is the autonomous vehicle redefining real-time security.

AI-Driven Autonomous Patrol

Security teams must protect more space with fewer people. Rising labor costs, staffing shortages, and coverage gaps make traditional patrols hard to justify.

ROAMEO delivers consistent, scalable patrols. Multiple units deploy at a fraction of staffing, widening coverage without risking human safety, fatigue or inconsistency. With built-in analytics, continuous monitoring, and instant escalation, ROAMEO expands patrol presence and raises the standard of response.

The Problem with Human Patrols

Patrols are sequential; incidents aren't. When a guard is tied up, other risks go unchecked. Fatigue, distractions, and shifting priorities make protection inconsistent, creating openings bad actors exploit.

Adding officers raises costs without fixing route limits, missed handoffs, or weather and traffic constraints. No matter the staffing level, coverage gaps remain.

Human patrols weren't built for nonstop, simultaneous demands. Autonomy changes that.

Continuous Coverage in Action

ROAMEO patrols day and night without losing focus. It adapts in real time, reroutes around obstacles, and pauses to observe when needed.

Patrols can be scheduled, randomized, or updated from the dashboard. The unit returns to charge on schedule or at a set battery level, then resumes its route to maintain coverage.

Proven across parking lots, campuses, and industrial sites, ROAMEO verifies threats, alerts your team, and streams live video and audio for rapid response.

The result is continuous monitoring in action. Security that adapts, responds, and reduces missed incidents.

Intelligent Threat Processing

ROAMEO verifies threats on the spot, acting immediately with onboard processing and escalating through the cloud when needed.

360

360° AI Detection Across Every Route

Follows mapped lanes. Reroutes on obstacles. Returns to charge.
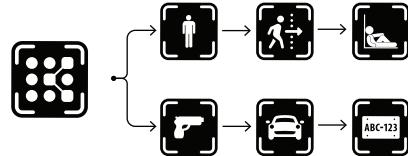
Edge AI Detection Suite:

Human activity
Detects people moving through monitored areas in real time, even in low light.

Perimeter breaches
Flags movement across restricted boundaries to prevent unauthorized access.

Loitering
Detects when someone lingers too long, often a precursor to theft, trespassing, or vandalism.

Firearms
Detects the visible presence of a firearm and triggers immediate alert and escalation.

Vehicles
Detects the presence and movement of vehicles across entry points or sensitive areas.

License plates
Captures and logs license plate data for review and investigation.

Fast to Deploy, Immediate Impact

Deploying ROAMEO is simple. It fits your existing security stack without complex install or heavy IT.

With cloud-based controls and a live dashboard, teams adjust routes, trigger deterrence, send live messages, and view live feeds from RADSOC or mobile devices.

Access is role-based with per-user logins. Permissions can limit live video or allow full control, and every action is logged.

Easy Setup
No major infrastructure changes or costly installation.

Remote Monitoring & Control
Adjust routes, trigger deterrence, and communicate with ROAMEO from anywhere.

Scalable
Works for a single site or enterprise-wide deployment.

Role-Based Access
Individual logins and permissions, with all actions logged for accountability.

ROAMEO: The Smarter Security Investment

Traditional patrols are expensive and inconsistent. ROAMEO delivers predictable, autonomous security that's always on duty.

Lower Cost & Predictable Pricing
Eliminates salaries, training, uniforms, benefits, workers' comp, and overtime. Fixed monthly fee.

Better Coverage
Real-time detection and instant alerts. Faster response.

Continuous Coverage
24/7 patrols with unit rotation. While one unit auto-docks, another continues patrolling.

Safer for Teams
Takes first contact. Keeps staff out of risky interactions.

Simple to Scale
Add units across sites with centralized control and predictable pricing.

Autonomy You Can Trust

Safety is foundational. Redundant sensors, geofenced routes, and safe-stop protocols keep ROAMEO reliable; if it detects an obstacle, unusual behavior, or a system alert, it stops safely and notifies operators.

Onboard analytics with cloud escalation minimize risk and coverage gaps. ROAMEO operates safely around people, vehicles, and property and integrates smoothly with real-world operations.

Scalable for Any Operation

From small facilities to multi-site enterprises, ROAMEO scales with your security program.

Patrols can be scheduled in advance, randomized for unpredictability, or adjusted in real time from the dashboard. Built-in cellular and cloud services make expansion across locations simple and cost-effective.

Built for Modern Security

With GPS, LiDAR, and an IMU, ROAMEO keeps patrols precise even where GPS is weak. It varies routes, pauses at waypoints, and reroutes in real time around people and obstacles.

The ROAMEO Advantage

ROAMEO provides autonomous patrols, continuous monitoring, and deterrence in real time. When escalation is required, SARA steps in to verify the threat and respond instantly.

Autonomy Stack
Five solid-state 3D LiDAR sensors, radar, cameras, GPS, and an Inertial Measurement Unit (IMU) provide 360° awareness and precise positioning even where GPS is weak.

Patrol Behavior
Follows mapped lanes, handles intersections, and reroutes smoothly around people, vehicles, and obstacles. Patrols can be randomized and include waypoints.

Policy Controls
Lane-level speed limits are defined in the HD map and enforced by the planning and control stack.

Auto-Dock
Auto-docks on schedule or at a defined battery level to maintain continuous protection with charging cycles.

Safety Systems
Geofences constrain operation; if a system alert occurs, ROAMEO executes a safe stop and notifies operators.

Operator Visibility
Dashboard shows camera streams, live location, planned path/ETA, and battery status.

Comms & Security
Live video, audio, and alerts stream to RADSOC with encrypted, multi-layer communications.

Fleet-Ready Operations
Manage multiple ROAMEO units across sites with consistent routes, policies, and updates.

Performance at a Glance

- Patrol Range: up to 30 mi/charge.
- Operating Time: up to 16 hr continuous.
- Top Speed: 10 mph; adjustable for pedestrian zones.
- Climbing: slopes to 15°.
- Weight: 970 lb (440 kg).
- Dimensions: L 71.2 in (1.8 m) × W 47.6 in (1.2 m) × H 75.7 in (1.9 m).
- All-Weather: −4°F (-20°C) to 113°F (45°C).

Agentic AI Incident Response

ROAMEO provides autonomous patrols, continuous monitoring, and deterrence in real time.

When escalation is needed, SARA, RAD's Agentic AI operator, verifies alerts, delivers live talk downs, and escalates incidents in real time for faster, more efficient security management.

Team Alerts
Audio notifications, mobile alerts, or direct calls.

Live Engagement
Engages with employees and visitors, providing guidance and assistance.

Instant Deterrence
Real-time verbal warnings and security instructions.

Incident Record
Video, audio, and actions logged on one timeline for review.

SARA Edge Onboard
Included on every ROAMEO and RAD device. Each unit is SARA Agent ready.

Activate SARA Agent
Apply a license to enable live talk downs and operator led escalation. No extra hardware.

SARA Agentic AI
Security Incident Response Orchestration
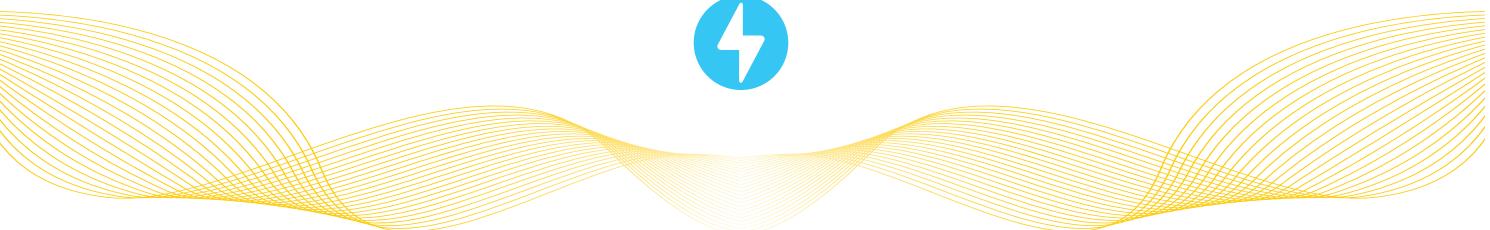
Detection	Verification	Deterrence	Escalation	Response	Resolution
Immediate threat detection, through AI-driven analytics.	SARA Agentic AI verifies alerts in real-time.	Autonomous audio and visual pushback to deter intruders.	SARA Agentic AI escalates incidents to responders.	Responders receive scene updates and direction.	Incident reports are generated instantly.

Full Incident Management

ROAMEO comes standard with AI-driven analytics and pre-loaded deterrence responses.

With optional SARA Agent, ROAMEO gains human-style talk downs, instant escalation, and full incident logging, turning ROAMEO into an autonomous first responder (AFR).

This upgrade requires no added hardware and can be activated on demand.

ROAMEO + SARA Integration

Designed for Handoffs
ROAMEO detects and positions at the scene; SARA verifies, speaks, and escalates in real time.

Onboard + Cloud Intelligence
Perception runs on the robot for speed, while SARA adds cloud AI and human oversight when needed.

Closed-Loop Incidents
Detection, engagement, escalation, and outcomes are logged on a single timeline for review.

Verified Alerts
SARA verifies detections before escalation, reducing noise, wasted dispatches, and operator fatigue.

Autonomous Security That Responds

Whether it's a parking lot, campus, substation, or distribution center, ROAMEO delivers fast, visible action without the cost or complexity of guards.

Smart Security Starts Here

ROAMEO is designed to match your site's needs, whether that's wide-area coverage, tight access points, or budget-conscious deployments.

Security doesn't need to be complex. It just needs to act.

Book a live demo to see ROAMEO + SARA in action.

RAD — **ROBOTIC ASSISTANCE DEVICES**
an AITX company

Robotic Assistance Devices

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