RAD
an **AITX** company

Drive Performance, Slash Costs.

Revolutionizing Security: The AI-Powered Future of

LOGISTICS

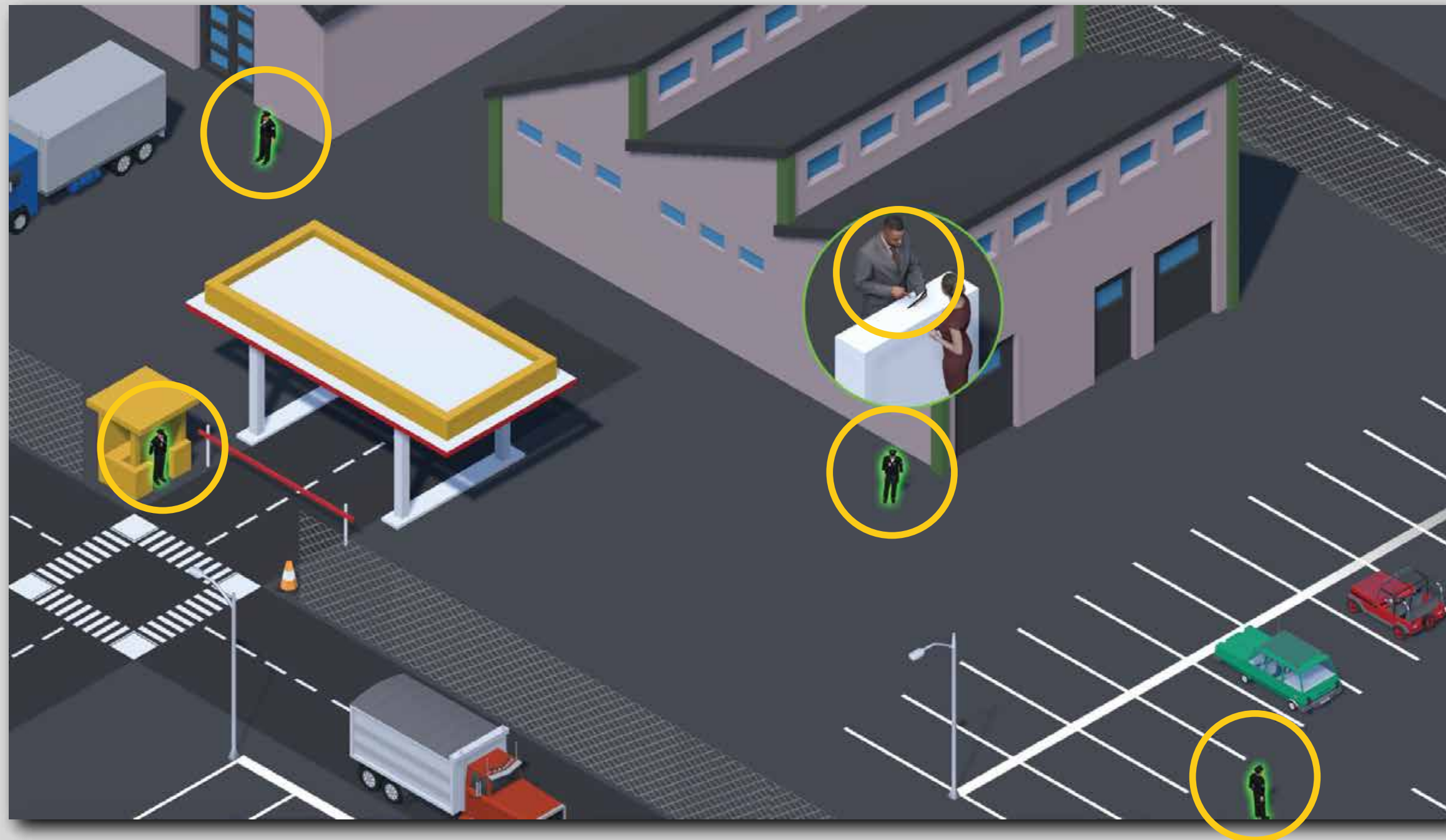Featuring AVA™, RIO™, TOM™, ROSA™, ROSS™, RADDOG™, and ROAMEO™

AVA on post outside an empty guard shack at the gates of a logistics facility.

a wholly-owned subsidiary of

AIT X
Artificial Intelligence Technology Solutions Inc.

Can You Spot the Locations Where Costs Can Be Slashed?

(Hint, we've circled the excessive costs on the left in yellow, the savings are shown on the right highlighted in green)
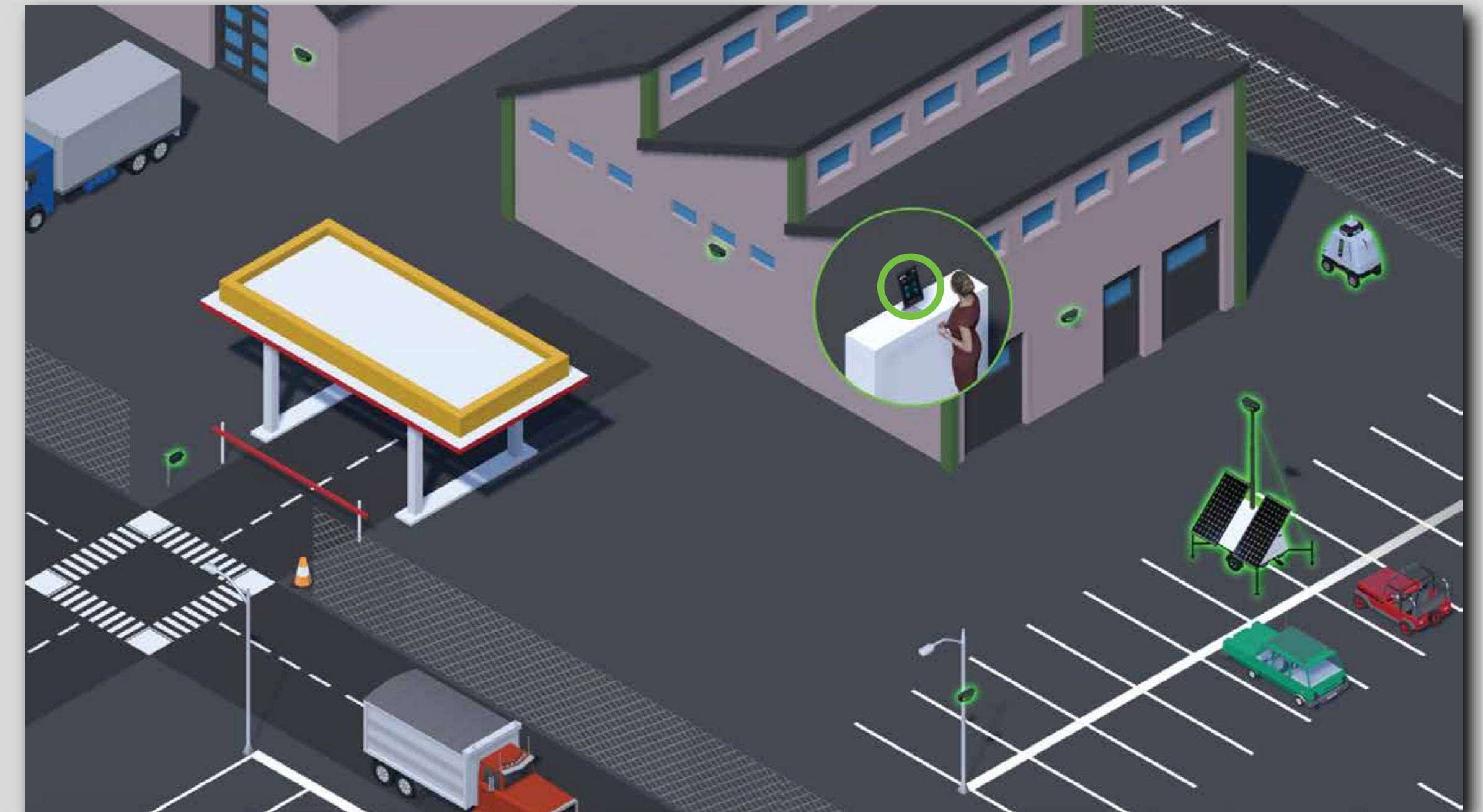

Logistics Without RAD

Logistics With RAD

5 guards performing duties better suited for today's smart robotic devices.
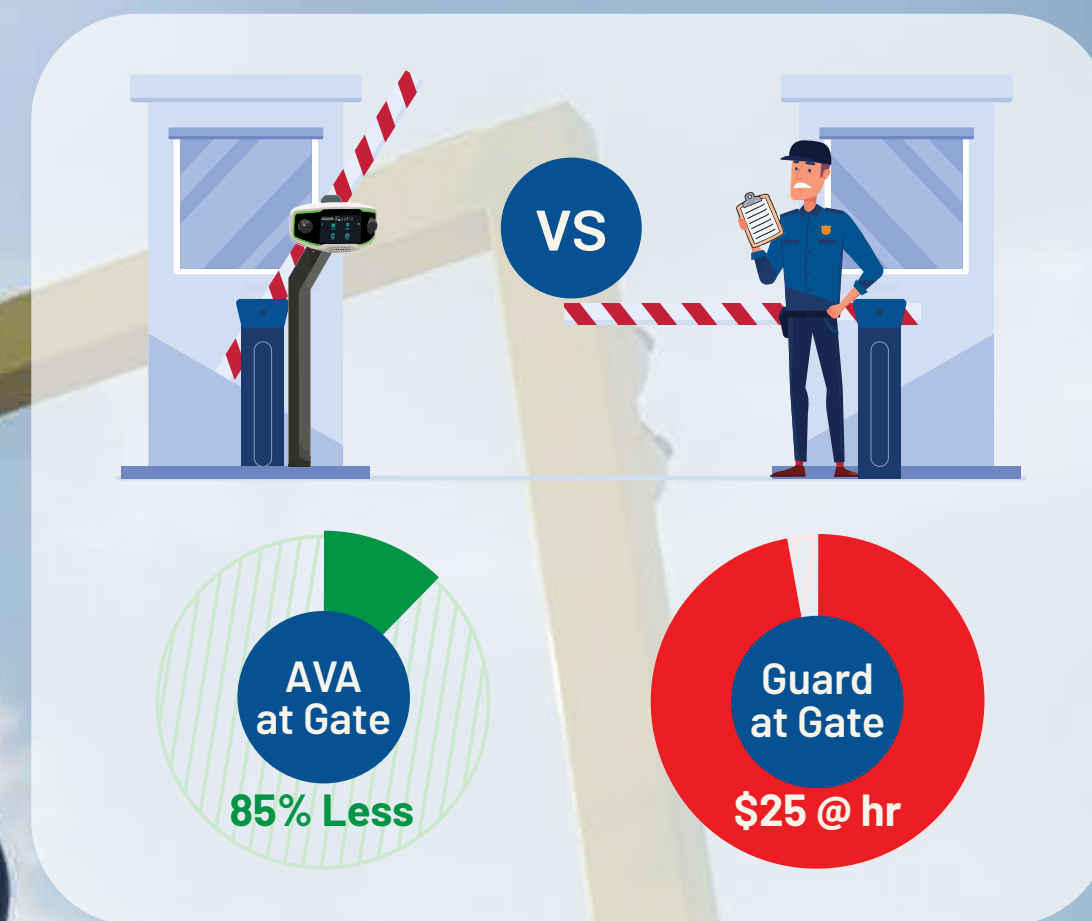
Annualized Cost = $946,400

@ $25 per hour

A fleet of 8 RAD autonomous robotic security robots doing the work 5 guards once did.

Annualized Savings = $802,952

A Savings of 85%

4 ROSAs

1 ROAMEO   1 RIO

1 AVA

1 TOM

AVA at a logistics center gate providing smart and verified access.

VS

AVA at Gate
85% Less

Guard at Gate
$25 @ hr

AVA's prowess was acknowledged at ISC West 2022, where it clinched the SIA New Products and Solutions Award in the Access Control category. Such accolades serve as a testament to AVA's role as a game-changer in logistics security.

AVA (Autonomous Verified Access) The Next Frontier in Logistics Security

In logistics, where the rapid movement of goods is essential, security stands as a critical pillar ensuring seamless operations. Enter AVA (Autonomous Verified Access) - a groundbreaking innovation tailored for this industry. Unlike the conventional security guard armed with just a clipboard, AVA provides an advanced layer of surveillance and access control, harnessing the best of AI and autonomous technology to revolutionize how logistics centers safeguard access at their gates.

The **cost-effectiveness of AVA** is another feather in its cap. No longer do logistics hubs need to invest heavily in human personnel when AVA can perform most routine duties with unmatched precision, and at a fraction of the price.

- **AVA replaces / supplements traditional guards at gates**
- **Access control with precision**
- **Simple and convenient driver operations**
- **Flexible workflow options**
- **Compact, optimized cellular driven (no IT required)**
- **Integrates with dispatch & yard management systems**
- **Anti-tailgating features built in**
- **Multiple monitoring options**
- **Same platform as RAD's ROSA/RIO/TOM for operator ease of use**
- **Compatible with RAD Light My Way™**

View AVA Demonstration Video

AVA, the Smart Guard at the Gate You've Been Waiting For

If you're under stringent security demands and budget pressure, RAD's AVA emerges as the cost-effective solution, capturing data and ensuring authorized access seamlessly. AVA excels at scanning vehicle numbers, license plates, driver's licenses and more.

AVA integrates flawlessly with existing databases and your company processes, with flexible and customizable workflows to align with your specific needs. This tailored approach enhances operational efficiency, reduces security costs, and appeals to security professionals seeking reliability and affordability.

AVA's scalability empowers security professionals to efficiently secure gates and controlled access areas while maintaining uniformity in data capture and workflow integration. It's more than a security solution; it's a strategic investment. AVA delivers enhanced security, seamless integration, and cost savings, giving your company the competitive edge it's looking for.

AVA stands guard at your gates, ensuring the safety and security of your facilities and assets.

Just a Sampling of AVA's Advanced AI-Powered Data Analytics at Work

Actual data captures from an AVA device while processing verified access at a busy logistics facility.

RIO: Portable, Powerful, and Perfect for Your Security Needs

In logistics and distribution, the demand for flexible, portable security solutions continues to grow, as traditional, makeshift devices lag behind today's security challenges. RAD boldly bridges this gap, unveiling its **innovative and affordable RIO** (ROSA Independent Observatory), available in two specialized models: **RIO 180 and RIO 360**.

Central to the RIO's effectiveness is ROSA, the multiple award-winning security marvel celebrated for its autonomous detection capabilities. Whether it's deterring trespassers or responding to other property intrusions, ROSA functions flawlessly without necessitating human intervention. Now, coupled with the **RIO Solar Tower**, ROSA's prowess is set to scale greater heights at logistics centers nationwide.

	Affordable	AI Analytics	Autonomous Responses	EZ Deployment
RIO 360	✅	✅	✅	✅
Legacy Systems	❌	❌	❌	❌
Guards	❌	❌	🎲	❌

View RIO Demonstration Video

- More functionality & less cost vs. competitors
- Autonomous intelligent responses eliminate problems
- Includes range of AI analytics to drive autonomous responses:
    - Human detection (trespassing, loitering, etc.)
    - Vehicle detection (trespassing, wrong parking)
    - Firearm detection
    - PPE detection
    - License plate recognition
- Intelligent messaging allows for smart staff and visitor communications
- Same platform as RAD's ROSA/AVA/TOM for operator ease of use
- Compatible with RAD Light My Way™

Leading Affordability in the Market

RIO 360 with its tandem ROSA configuration protecting a distribution center.

- Manage drivers, visitors & staff access to secure areas
- Integrates with access control systems & electric doors
- Multiple remote human monitoring options
- Easy user interface
- Flexible workflow for drivers, staff, visitors
- Driver's license, employee badge, QR code, bar code reader
- Easy Wi-Fi connectivity
- Same platform as RAD's AVA/RIO/ROSA for operator ease of use
- Cloud-based secure storage of data
- Compatible with RAD Light My Way™

TOM in a logistic company's lobby welcoming visitors and employees.

TOM (The Office Manager): Re-imagining Lobby Management

In any professional environment, the first point of contact often sets the tone for all subsequent interactions. RAD introduces TOM – The Office Manager, **designed to revolutionize your business's first impression**. TOM is not just any tablet; it's a sophisticated tabletop device, expressly crafted for lobbies, ensuring seamless reception and processing of both employees and visitors.

The brilliance of TOM lies in its multifunctional capabilities. Its primary role? Unattended access control, integrating effortlessly with doors, gates, and even printers. But TOM isn't just about access. The device boasts 2-way audio and video communication, empowering visitors with instant connectivity. Its high-definition touch screen interface is both intuitive and user-friendly. Customizable welcome messages add a personal touch, enhancing the visitor experience.

	Affordable	2-Way Remote Audio/Video	Concierge Features	Multiple Check-In Options
TOM	✅	✅	✅	✅
Manned Options	❌	❌	❌❓	✅
Others	❌	❌	❌	❌

Request a TOM Demonstration

ROSA: Security Where and When You Need It.

A single ROSA device keeps watch over a busy transportation center.

- **Autonomous intelligent response is a real deterrent**
- **Includes range of AI analytics to drive autonomous responses:**
  - **Human detection**
  - **Vehicle detection**
  - **Firearm detection**
  - **PPE detection**
  - **License plate recognition**
- **Same platform as RAD's RIO/AVA/TOM for operator ease of use**
- **Compact, optimized cellular driven (no IT required)**
- **Same platform as RAD's ROSA/AVA/TOM for operator ease of use**
- **Compatible with RAD Light My Way™**

ROSA (Responsive Observation Security Agent) Elevating Logistics Security to New Heights

Logistics centers often grapple with incidents like trespassing, loitering, or vagrancy, which can escalate into more severe security breaches. ROSA is designed to recognize and respond to such scenarios dynamically. Its continuously active analytics can be tailored to generate alerts based on specific client needs and even the time of day, providing both adaptability and precision. Should an individual linger suspiciously within ROSA's field of vision, the device can activate visual and audible alarms, drawing attention and potentially deterring unwanted activities. Furthermore, with its seamless integration with on-duty guards or remote monitoring stations, ROSA not only identifies potential threats but also facilitates swift, appropriate responses, making it an indispensable asset for modern logistics security.

	Easily Deployed	Costs Less than $2 @ Hour	An Effective Detterent	On Duty 24/7
ROSA	✓	✓	✓	✓
Guard	✗	✗	✗	✗

View ROSA Demonstration Video

RIO 360 with its tandem ROSA configuration

4 Solar Panels on RIO 360

Which RIO Is Right for You?

For logistics companies with expansive yards, properties and precious assets, tailored security solutions are crucial. **Among RAD's premier offerings are the RIO 360 and RIO 180, both designed specifically for these vast settings.**

Leading the pack, the **RIO 360** comes equipped with **tandem ROSAs** and four solar panels, delivering a comprehensive 360-degree view that ensures complete perimeter surveillance without any blind spots. On the other side, the **RIO 180**, which incorporates a **single ROSA device** and two solar panels, provides a wide 180-degree field of view, perfectly suited for monitoring designated areas or main entrances. The ROSA controlled solar panels ensure uninterrupted operations, even in places with limited sunlight.

	Affordable	AI Analytics	Autonomous Responses	EZ Deployment
RIO 360 RIO 180	✅	✅	✅	✅
Legacy Systems	❌	❌	❌	❌

Request a RIO Demonstration

RIO 180 with its single ROSA configuration

2 Solar Panels on RIO 180

An existing IP security camera now powered with ROSS from RAD.

Unleash New Potential in Your Old Cameras with ROSS

- **From RAD, the trusted leader in AI analytics for security & #proptech**
- **ROSS enables advanced capabilities from your existing cameras**

Advanced Operations

- **Employs customizable, escalating alerts**

Seamless System Integration

- **Connects legacy cameras to an AI-powered intelligence ecosystem**
- **Unlocks new, previously unthinkable tasks for legacy hardware**

Innovative Software Solutions

- **Minimized hardware requirements**
- **Repurpose existing cameras with new, robust applications from RAD**

Revitalize Your Legacy Security Cameras with ROSS™ (RAD Operations System Software)

Unlock unparalleled capabilities with RAD's ROSS (RAD Operations System Software), bridging the technological gap between your existing IP security cameras and the futuristic, data-driven demands of modern surveillance, security, and safety. Traditional security cameras, once constrained to mere observation and recording, can now be integrated into the RAD ecosystem, enabling these passive cameras to now harness the potent power of cutting-edge AI analytics. ROSS empowers your previously deployed cameras with an extensive suite of intelligent features such as advanced object detection, perimeter breach alerts, and loitering detection, thereby not only extending their functional lifespan but also amplifying their operational efficiency and effectiveness in safeguarding your facilities and assets.

Elevate Security Management with Intelligent, Real-time Alerts

Immerse yourself in a world where your legacy security infrastructure changes into a dynamic, smart surveillance network with ROSS. Imagine the immense value in transforming static, observational devices into proactive, intelligent units capable of real-time threat detection and instant notification. ROSS enables your traditional cameras to identify, analyze, and respond to various security scenarios by deploying immediate notifications, SMS alerts, and automated response systems, ensuring that your security personnel are always a step ahead in managing and mitigating potential threats. Moreover, with customizable alerts and responses, your existing cameras can now interactively engage with evolving situational dynamics, providing a scalable, adaptive, and robust security solution that stands the test of time.
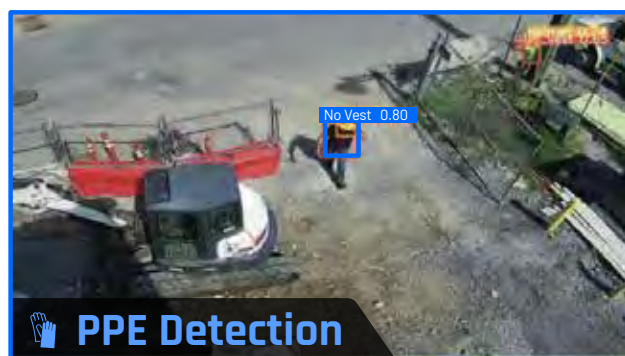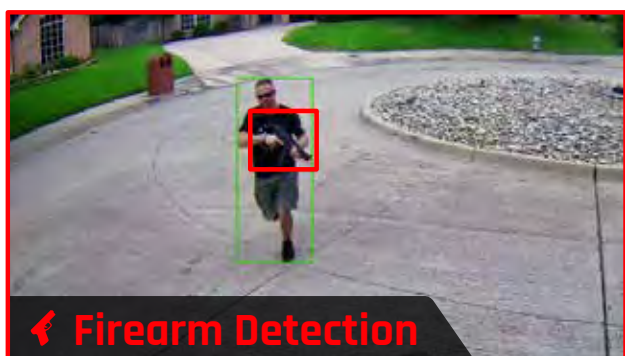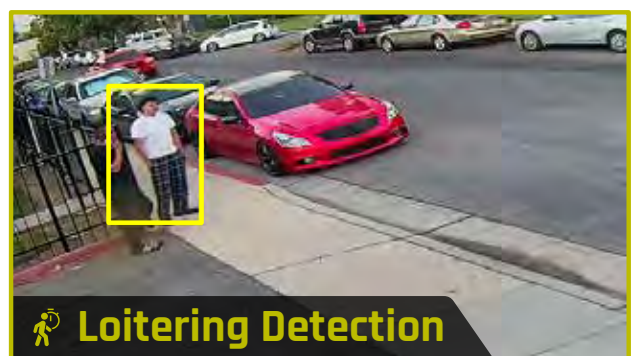

| Human Detection | Firearm Detection | PPE Detection | Vehicle Detection | License Plate Recognition |

Unparalleled Efficiency:
The Cost-Saving Power of Robotic Security

In today's ever-evolving world, the logistics industry stands at the intersection of innovation and necessity. As the backbone of global trade and local deliveries, logistics companies are always on the move, ensuring that goods reach their destinations efficiently and safely. Yet, amidst all these advancements, one aspect has remained challenging: security. Traditional methods, although familiar, come with high costs, recruitment challenges, and the unpredictability of human error.

However, there's a paradigm shift in how we view security today. Gone are the days when the mere mention of robots and AI brought forth images of sci-fi movies. In this modern era, AI-powered autonomous robotic devices are not just concepts of the distant future; they are the present, reshaping industries, including logistics and distribution.

Embracing RAD's autonomous solutions is not only a secure choice, but it's also becoming the industry standard. These cutting-edge devices deliver unparalleled accuracy, steadfast reliability, and streamlined efficiency. In addition to bypassing traditional hurdles tied to employing and retaining human security teams, many companies have reported savings of up to 80% by integrating autonomous robotic devices in place of human guards. These AI-driven robotic solutions guarantee round-the-clock surveillance, preemptive threat identification, and a precision level that human surveillance simply can't achieve.

Human Detection

Vehicle Detection

License Plate Recognition

Loitering Detection

Firearm Detection

PPE Detection

RADDOG 3S on patrol in a large warehouse.

COMING SOON

RAD's stationary ROSA security device interacting with its mobile companion RADDOG 3S.

RADDOG 3S & ROSA:
A Revolutionary Partnership in Security

RADDOG 3S is a game-changer in security services due to its seamless integration and interaction with stationary robotic devices, notably RAD's ROSA. This dynamic duo represents a paradigm shift in how security operations are conducted, especially in expansive logistics facilities.

Imagine a scenario where ROSA, with its superior surveillance capabilities, detects suspicious activity within the premises. Instead of merely sending an alert to a human security team, which may take time to respond, ROSA can now autonomously dispatch RADDOG 3S to the exact location. This robot dog, equipped with state-of-the-art sensors and AI-driven decision-making, can swiftly navigate to the scene and carry out a ground-level investigation. Its agile form allows it to traverse diverse terrain quickly, ensuring that potential threats don't have the luxury of time on their side.

But the capabilities of RADDOG 3S don't stop at investigation. Should the situation demand, this robotic sentinel is adept at detaining suspects, ensuring that security breaches are not just identified but aptly contained until human security personnel arrive. This seamless coordination between ROSA and RADDOG 3S ensures that security responses are not just timely but also effectively targeted.

In the ever-evolving landscape of security threats, the ability to rapidly detect, respond, and contain is invaluable. The partnership between RADDOG 3S and ROSA offers logistics companies an unprecedented edge, merging the vantage of stationary surveillance with the mobility and intervention capabilities of an on-ground robot, creating a holistic, autonomous, and formidable security solution.

View RADDOG Demonstration Video

ROAMEO 3.0
(Rugged Observation Assistance Mobile Electronic Officer)

COMING SOON

Be prepared to step into the future of security with ROAMEO 3.0, where technology and innovation converge to create an impenetrable shield of vigilance over your properties and facilities. Imagine a security officer that never tires, always vigilant, and perpetually enveloped in a halo of high-tech prowess; that's ROAMEO 3.0 in a nutshell. This awe-inspiring automated wonder is not just a mobile robot; it's a symphony of cutting-edge AI analytics, robust video surveillance, and genial interactive communications, all packaged in a sleek, awe-inspiring design that moves gracefully at speeds of up to 12 mph. With a 360-degree field of view, ROAMEO 3.0 does not just see; it observes, analyzes, and acts, providing a security presence that is as empathetic and interactive as it is steadfast and impenetrable.

	Rugged Outdoor Use	Coordinated Patrols w/ other RAD Robots	Traverse Tough Terrain	Able to 'See' Over Vehicles
ROAMEO	✅	✅	✅	✅
Others	❌	❌	❌	❌
	❌	❌	❌	❌

Engage with the future, where ROAMEO 3.0 is not just a security robot; it's your steadfast guardian, efficient concierge, ensuring safety is always in sight.

Request a ROAMEO Presentation

ROAMEO 3.0 on an autonomous patrol.

RADSoC™ - Data at Your Fingertips on Any Platform

real time
visibility

easy device
customization

metrics

mobile
alerts

incident data
analysis and
management

easily initiate
audio 'talk down'
through RAD device

customize
autonomous
response escalation

note: RAD device subscriptions include an unlimited number of user licenses to all software applications

Incident Management - Now Part of RADSoC

compare to SureView™ and Immix™

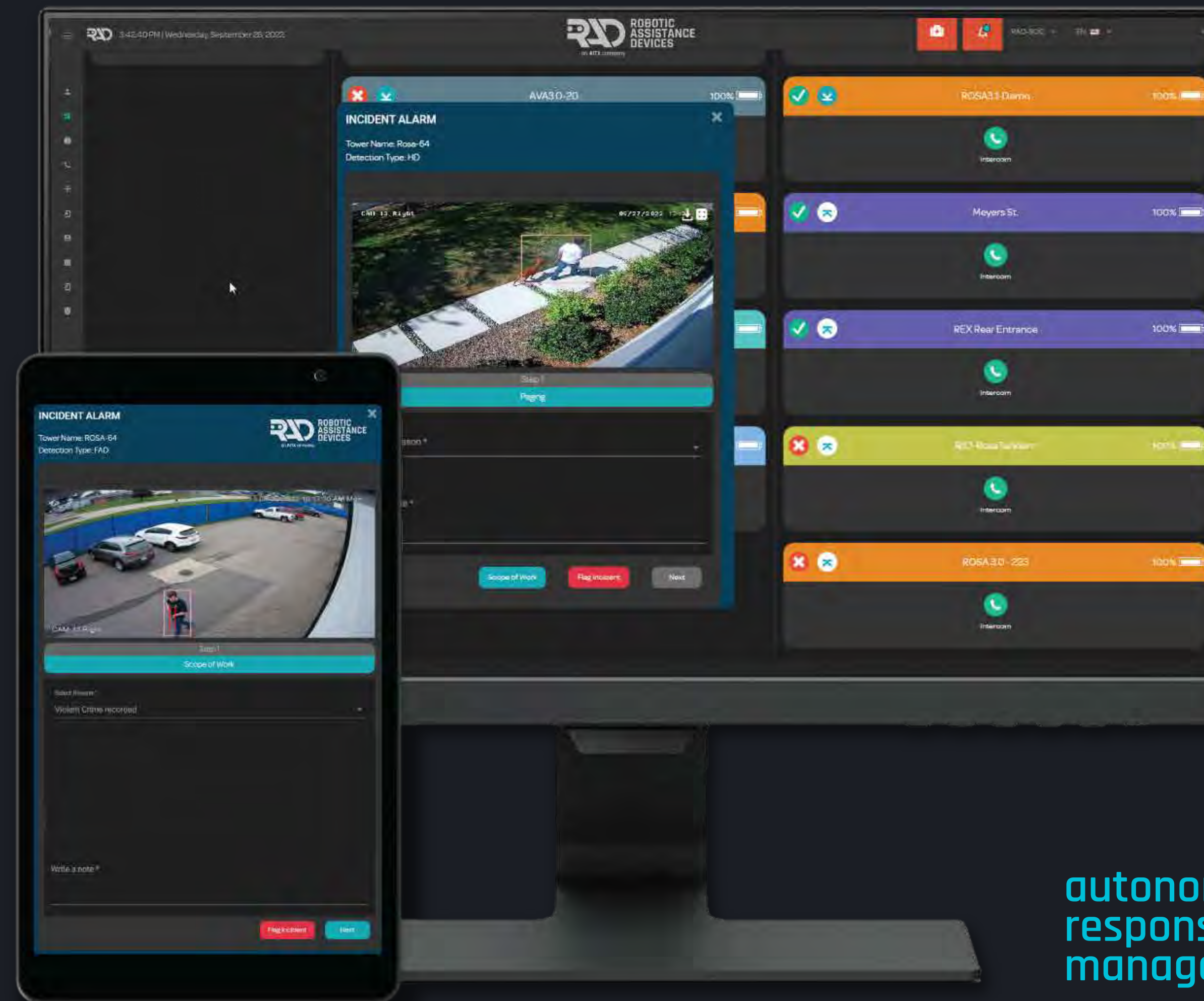full multi-step instructions with timed reactions

central platform to activate accessories (i.e. lockdown procedures)

integrate with existing cameras

central platform to engage suspects

full suite of metrics

autonomous response escalation management

note: RAD device subscriptions include an unlimited number of user licenses to all software applications

RADMobile™ - Situational Awareness While On the Move!

real time
visibility

mobile
alerts

conveniently
initiate audio
'talk down'
through ROSA

note: RAD device subscriptions include an unlimited number of user licenses to all software applications

available from

More security, less expense.
With RAD it's <u>inevitable.</u>

Request a Virtual Demonstration

877-78-ROBOT

info@radsecurity.com • www.radsecurity.com

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