AVA
Autonomous Verified Access

ROBOTIC ASSISTANCE DEVICES
an AITX company

From Guard Booths to AI-Driven Security

Forget the old guard. Autonomous Verified Access (AVA™) is your new gatekeeper, redefining access control with AI-driven innovation.

Stationary yet vigilant, AVA transforms every entrance into a smart, secure gateway, slashing costs while enhancing security. Welcome to the era where your gate autonomously decides who gets in—and who doesn't.

AI That Never Clocks Out

AVA Gen4 operates tirelessly, 24/7, delivering the precision and reliability that only AI-driven technology can provide.

From real-time threat detection to instant verification of credentials, AVA ensures your facility remains secure around the clock—without downtime, fatigue, or human error.

Its relentless vigilance doesn't just match the performance of a guard—it surpasses it, validating entries, detecting tailgating, and responding to security events with unmatched speed and accuracy.

AVA Gen4 doesn't take breaks—it simply gets the job done, every time.

SARA: Taking Response to the Next Level

With SARA™, our AI monitoring service, AVA becomes more than a gatekeeper—it becomes a comprehensive security solution. When deterrence isn't enough, SARA steps in to escalate, delivering real-time alerts, audio announcements, mobile notifications, or even direct calls to security teams.

SARA intelligently communicates, coordinates, and activates enhanced security measures, delivering unmatched performance at a fraction of the cost of traditional remote monitoring.

Together, deterrence and escalation ensure security that's smarter, faster, and always on duty.

No Booth. No Guard. Just AVA with SARA.

Say goodbye to guard booths and hello to 24/7 intelligent security with AVA and SARA.

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The Intelligence Behind AVA Gen4

AVA Gen4 is the most advanced version yet, combining lightning-fast processing, AI-driven decision-making, and seamless 5G connectivity for hassle-free installation. With critical database elements stored directly on the device, AVA delivers uninterrupted performance—even without cloud connectivity—eliminating network headaches.

Unmatched Processing Power
With all-new NVIDIA Jetson hardware and entirely rewritten software, AVA processes access requests and security events in real time with unmatched speed and efficiency.

Optimized for Precision
AVA Gen4 verifies credentials, scans license plates, and detects unauthorized access attempts instantly. Its AI-driven anti-tailgating features—designed to identify pedestrians trailing vehicles or multiple vehicles attempting entry—set a new industry standard for gate security.

AI-Driven Efficiency
AVA's embedded AI engine continuously monitors video feeds, detecting risks like tailgating and unauthorized entry in real time. Its AI-optimized audio ensures crystal-clear communication, even in noisy, high-traffic environments.

Designed for Reliability
AVA Gen4 has been rigorously tested to deliver peak performance. With enhanced durability and redundant power systems, it ensures continuous coverage in any environment, operating seamlessly under a wide range of conditions.

AVA isn't just a security device—it's a next-generation system redefining gate access control. With unmatched processing power, AI-driven analytics, and nonstop reliability, AVA Gen4 delivers faster, smarter, and more proactive security for modern facilities.

Redefining Security, One Gate at a Time

180° Visionary
No blind spots, only clear views. AVA's edge-to-edge field of vision ensures nothing slips by.

AI Autonomy
Smart access control that never takes a break. AVA verifies entries using AI, from PINs to QR codes, eliminating human error and ensuring secure, seamless access for residents and visitors.

Plug & Protect
Installation is simple and fast. AVA requires only power and can be mounted on standard gooseneck pedestals, eliminating the need for network cabling.

Cost Crusher
Why pay for guards when AVA does the job better? AVA slashes costs while delivering smarter, AI-driven security.

Always Alert
With cellular and Wi-Fi options, AVA's vigilance never sleeps, ensuring reliable security even in remote locations or during power outages. The latest version features an onboard database, enabling offline operations and ensuring seamless performance with greater reliability, no matter the circumstances.

Built for the Future of Security

AVA Gen4 isn't just designed for today—it's built to anticipate and adapt to the evolving demands of tomorrow. From cutting-edge hardware to intelligent design, it sets a new standard for what access control can achieve:

Effortless Maintenance: Advanced diagnostics with HMI controls and Grafana logs make it easy to identify and resolve issues remotely, ensuring maximum uptime with minimal effort.

Customizable Presence: Sleek RGB ribbon lights provide visibility and style, adapting seamlessly to any environment while enhancing operational aesthetics.

Streamlined Design: The all-in-one auxiliary box eliminates the need for bulky external components, simplifying installation and reducing infrastructure complexity.

Relentless Innovation: Every component of AVA Gen4 has been rigorously engineered and tested to deliver peak performance, offering unmatched reliability under any conditions.

With AVA Gen4, security isn't just smarter—it's prepared for whatever the future holds.

RAD
ROBOTIC ASSISTANCE DEVICES
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The Intelligence Behind AVA Gen4

AVA Gen4 combines innovative hardware with powerful software to create a security solution that transforms how facilities manage gate access and respond to incidents.

Intuitive Control at Your Fingertips

The RADGuard™ touchscreen interface is the first point of contact for employees and visitors. Integrated directly into AVA, RADGuard enables seamless interaction at the gate, offering features such as:

- Secure PIN and QR code entry.

- Clear two-way communication with AVA's DSP and AI enhanced audio system.

- Real-time updates on access status and system alerts.

Command and Control Simplified

Managing AVA has never been easier. RADSOC, RAD's centralized software platform, gives security teams the ability to:

- Monitor and respond to incidents across all RAD devices in real time.

- Analyze historical data to improve security protocols and incident response.

- Consolidate device management into a single, intuitive dashboard.

SARA: The AI Operator at Work

At the core of AVA and RADSOC is SARA, your new AI Operator, replacing the need for human security operators.

SARA is always on duty, actively monitoring AVA's advanced analytics, including:

Firearm Detection: Alerts triggered the moment a weapon is detected.

Tailgating Prevention: Ensures only authorized individuals gain entry.

Unauthorized Access Alerts: Responds to breaches in real time.

When an incident occurs, SARA takes immediate action:

- Notifies security teams through audio alerts, mobile notifications, or direct calls.

- Assists in guiding on-site visitors or employees with clear, authoritative communication.

The Dynamic Duo: AVA and SARA

Together, AVA and SARA redefine security. AVA handles the physical interactions, verifying access, monitoring the area, and logging activity, while SARA delivers the intelligence and responsiveness of an AI-powered security operator.

It's a partnership designed to replace traditional guard booths and human guards, offering unmatched efficiency and reliability.

RADPack Gen2: The brain of the operation.

Enhanced with NVIDIA ORIN NX, this compute and control unit processes AI at lightning speed, making AVA Gen4 smarter.

5G or WIFI Connectivity

Customizable Ribbon Lights

2 x 5MP PTZ Cameras

Two-Way Audio

Bar Code Scanner

AVA Gen4 Technical Specifications

Model	AVA Gen4
Imagers	2 x 5MP PTZ Cameras, 2MP Front Camera with WDR
Credential & ID Scanner	Driver License Parsing, Barcodes, and QR Codes

Environmental

Operating Temperature	-4° F to 135° F (-20°C to +57°C)
Ingress Protection (IP) rating	IP56 (Dust Protection, Water Resistance)

Audio Communications

Output	100W Moisture-Resistant Speaker
Input	AI-Optimized Noise-Canceling Mic Array with DSP

Mechanical

Weight	21.2 lbs (9.6 kg)
Dimensions	19.4x12.1x10.3 in (493x307x263 mm)

Display

Panel	10" LCD High-Definition Touch Screen
Ribbon Lights	RGB Neopixel Lights (Daylight Viewable)

Electrical

Operating Voltage	120 VAC @ 50/60Hz - Regulated Inside
Battery	LiFePO4 12.8V 3Ah Backup Battery

System

Main Processing Unit	RADPack™ Gen2 Processing Unit
Video Processing Unit	NVIDIA Jetson, ORIN NX, 16GB
Storage	2TB SSD

Connectivity

Type	4G/5G LTE/Wi-Fi
Remote Updates	Over-the-Air Updates and Remote Monitoring
Off-line Operations	Edge-Based Processing for Full Functionality

Delivering Security That's Smarter, Faster, And Always On Duty.

Available From

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