Physical Security

INDUSTRY CONTEXT

Physical security teams protect people, property, and critical assets across corporate campuses, industrial facilities, public venues, and infrastructure sites. Growing risks—unauthorized access, tailgating, perimeter breaches, vandalism, and delayed response—have exposed the limits of traditional security approaches that rely on passive cameras, static signs, and human monitoring.

Modern physical security requires automated detection, immediate awareness, and visible on-site communication that deters threats and guides behavior in real time—without waiting for a guard or operator to intervene.

Scenario

A facility experiences repeated unauthorized access attempts near restricted areas such as loading docks, secured corridors, parking structures, and fenced perimeters. Cameras record activity, but static signage is ignored and alerts often arrive after the intrusion has already occurred.

BotIQ Systems Solution

BotIQ delivers a proactive physical security layer by combining sensing, automation, and communication:
- Precision Sensing LiDAR detects motion, presence, and boundary crossings in defined security zones.
- AI cameras analyze behavior such as tailgating, loitering, or restricted-area entry.
- The LiDAR Controller evaluates events and triggers automated responses.

- Dynamic Digital Displays issue immediate, high-visibility warnings that deter unauthorized behavior.
- Optional audio alerts reinforce instructions in outdoor or high-traffic environments.
- Solar power and cellular connectivity enable deployment at perimeters, parking areas, and remote locations without infrastructure.
- This shifts physical security from reactive monitoring to automated deterrence and real-time response.

PHYSICAL SECURITY USE CASES

Use Case 1: Restricted Area & Perimeter Intrusion Deterrence

Description
Prevent unauthorized access to secured zones such as loading docks, substations, server rooms, fenced perimeters, or controlled corridors.

Example Display Messages
- "RESTRICTED AREA — AUTHORIZED PERSONNEL ONLY"
- "SECURITY ALERT — DO NOT ENTER"
- "ACCESS DENIED — SECURITY NOTIFIED"
- "NO TRESPASSING — AREA MONITORED"

Value
- Immediate visual deterrence
- Faster intrusion awareness
- Reduced reliance on guards for routine enforcement

Use Case 2: Tailgating & Unauthorized Entry Prevention

Description
Detect and discourage individuals attempting to follow authorized personnel into secured areas.

Example Display Messages

- "STOP — BADGE REQUIRED FOR ENTRY"
- "PLEASE AUTHENTICATE BEFORE PROCEEDING"
- "UNAUTHORIZED ENTRY DETECTED"
- "SECURITY MONITORING ACTIVE"

Value

- Improved access control compliance
- Reduced insider and tailgating risk
- Automated enforcement without confrontation

Use Case 3: Loitering, Theft & Vandalism Deterrence

Description

Discourage prolonged presence, theft, or vandalism in parking structures, entrances, and high-value areas.

Example Display Messages

- "SECURITY ZONE — NO LOITERING"
- "AREA UNDER ACTIVE MONITORING"
- "PLEASE MOVE ALONG"
- "SECURITY RESPONSE IN PROGRESS"

Value

- Reduced theft and vandalism
- Improved perception of safety
- Lower incident rates without escalation

Use Case 4: Incident Response & Emergency Security Messaging

Description

Provide immediate, authoritative instructions during security incidents, lockdowns, or evacuations.

Example Display Messages
- "LOCKDOWN IN EFFECT — REMAIN IN PLACE"
- "SECURITY INCIDENT — FOLLOW INSTRUCTIONS"
- "EVACUATE IMMEDIATELY — USE NEAREST EXIT"
- "SHELTER IN PLACE — DO NOT ENTER HALLWAYS"

Value
- Clear, consistent guidance during emergencies
- Reduced confusion and panic
- Faster, coordinated response

Use Case 5: Visitor & Contractor Security Compliance

Description
Guide visitors and contractors through required security procedures without slowing operations.

Example Display Messages
- "ALL VISITORS MUST CHECK IN AT SECURITY"
- "BADGE REQUIRED BEYOND THIS POINT"
- "DELIVERIES → DOCK B"
- "ESCORT REQUIRED FOR VISITOR ACCESS"

Value
- Smoother visitor flow
- Improved compliance with security policies
- Reduced staff interruptions

OPTIONAL ENHANCEMENTS FOR PHYSICAL SECURITY

- AI Cameras: Behavioral detection, tailgating, loitering, anomaly recognition
- Audio Alerts: Audible deterrence and emergency instructions
- Solar Power: Off-grid deployment for perimeters and parking areas
- Cellular Connectivity: Remote updates without local networks

WHY BOTIQ SYSTEMS FOR PHYSICAL SECURITY

- Automates detection, deterrence, and communication
- Integrates with existing security infrastructure
- Reduces manual monitoring workload
- Enhances both safety and operational efficiency