



INTERAPT

|| *Transforming security through intelligent automation—
where innovation meets protection.*

Powered by Advanced Computer Vision

AI-Powered Security for Convenience Stores

Comprehensive AI monitoring solutions that protect your assets,
ensure compliance, and optimize operations 24/7



Security



Monitoring



Automation

9+

AI Solutions

24/7

Real-Time

40%

Loss Reduction

100%

Coverage

Theft Prevention

Employee Safety

Compliance Monitoring

Threat Detection

The Challenge

Convenience stores face unique security and operational challenges that impact profitability, safety, and compliance. Traditional surveillance systems fall short in addressing modern threats and operational inefficiencies.

Problems

-  **Annual Shrinkage Losses**
Retail theft costs \$112.1B annually, with c-stores particularly vulnerable
-  **Safety & Security Risks**
Violence, weapons, and suspicious activities require immediate detection
-  **Employee Management**
Monitoring productivity, safety compliance, and preventing unauthorized behaviors
-  **Regulatory Compliance**
Food safety, hygiene standards, and regulations require constant vigilance

Our Solution

Interapt's AI-powered surveillance platform delivers comprehensive security, operational intelligence, and compliance monitoring specifically designed for convenience store environments.



Key Capabilities

- **AI-Powered Detection:** Real-time identification of theft, violence, weapons, and suspicious activities
- **Operational Intelligence:** Employee efficiency monitoring, mobile usage tracking, and productivity analytics
- **Compliance Automation:** Food safety monitoring, hygiene verification, and regulatory adherence
- **Safety Monitoring:** Fall detection, restricted area alerts, and emergency response triggers

65%

Reduction in Theft

40%

Faster Response

85%

Compliance Increase

30%

Cost Savings



Employee Efficiency & Mobile Use Monitoring

Leverage privacy-first person ReID to monitor shifts, task times, and breaks—unlocking insights to boost employee efficiency and productivity. Track mobile device usage during work hours to ensure staff focus and customer service quality.

Key Features

- Privacy-first person ReID
- Shift & task time tracking
- Break duration monitoring
- Mobile device usage detection

Business Impact

- 25% productivity increase
- Improved task completion
- Enhanced customer service
- Data-driven scheduling

Privacy Note: All monitoring uses anonymous ReID technology - no personal data is stored



Food Safety & Hygiene Monitoring

AI detects safety gear like gloves, hairnets, and helmets in real time, ensuring SOP compliance and hygiene in QSRs and production kitchens. Automated monitoring of food handling procedures to meet health department standards.

Detection Capabilities

- Glove detection & compliance
- Hairnet/headgear verification
- Safety helmet monitoring
- Hand washing compliance

Compliance Benefits

- 100% SOP compliance tracking
- Health department readiness
- Automated violation alerts
- Audit trail documentation

Regulatory Compliance

FDA
Standards

OSHA
Compliant

Local
Health Dept



Fall Detection

YOLO computer vision model recognizes people and estimates their body position. If a person is seen falling and remains on the ground without getting up for a short time, the system triggers an alert so staff can respond quickly. Test accuracy: 80%, GPU latency: 20ms.



Technical Specs

- YOLO model for body position
- GPU: 700MB, latency: 20ms
- Test accuracy: 80%
- Continuous model updates

Response Protocol

- 1 Instant staff notification
- 2 Location pinpointing
- 3 Emergency services alert



Restricted Area Detection

YOLO model identifies people in camera footage. If the foot point of a person intersects with a restricted area polygon (Region of Interest), an alarm is triggered for entering the restricted area. Test accuracy: 85%, GPU consumption: 700MB, GPU latency: 20ms.



Technical Specs

- YOLO person detection
- Customizable ROI polygons
- Test accuracy: 85%
- Periodic training updates

Foot point intersection triggers alarms for restricted area entry.

Future: ROI updates for camera angle changes



Open Door Detection

CV2 – an AI tool that checks if doors are open. If a door in a sensitive or restricted area is left open, the system notifies staff so it can be closed quickly. Test accuracy: 82%.



Model & Logic

- CV2 AI tool
- Monitors sensitive areas
- Immediate notifications
- Test accuracy: 82%

Applications

- Cooler/freezer doors
- Loading dock doors
- Entry/exit monitoring
- Emergency exits

Future: ROI updates for camera angle/door location changes



Unattended Baggage Detection

YOLO AI model identifies people and objects combined with MiDas for distance measurement. The system checks if a bag is left behind without an owner nearby. If the bag remains unattended for a short duration, an alert is sent. Test accuracy: 75%.



Technical Details

- YOLO + MiDas distance
- GPU: 3GB total
- Latency: 100ms combined
- Test accuracy: 75%

Response Actions

- Staff investigation alert
- Owner proximity tracking
- Security notification
- Regular detection updates

Security Priority: Critical for high-traffic & high-value areas