

TMA Physical Security and Safety Solutions



Mobility & Traffic

- Vehicle Detection
- Road Damage Detection
- Driver Safety Solution
- Remote Container Monitoring System



Perimeter & Boundaries

- Security camera
- Parking lot detection



Internal Safety

- Personal Protective Equipment (PPE) detection
- Staff safety solution
- Staff tracking
- Emergency Notification Monitoring



Access Points

- Employee access control
- Visitor access control
- Smart Locker





Access Points

Employee Access Control

A solution that supports access control for industrial parks, factories, production areas, warehouses, technical rooms, and employee rooms using facial recognition

KEY FEATURES

- Identify employees via QR codes, facial recognition, or magnetic access cards
- Automatically unlock doors upon successful verification
- Check mask and body temperature



BENEFITS

- Enhanced security
- Reduced administrative workload
- Faster check-in/check-out
- Reduced costs
- Improved working hour tracking accuracy

APPLICATIONS

Building

Office

Supermarkets, gyms, etc.



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Visitor Access Control

A solution to support registering and tracking guests entering the factories/warehouses using different methods

KEY FEATURES

- Multiple registration methods: QR code, face recognition, digital registration form
- Allow check-in and check-out via tablet and mobile phone
- Send notifications to hosts when guests arrive
- Provide analytic reports to explore visitor trends

BENEFITS

- Enhanced security
- Reduced administrative workload
- Real-time host notifications
- Faster check-in/check-out
- Reduced costs

APPLICATIONS

Factory entrances & exits

Warehouses

Offices



Smart Locker

A solution that supports personal belongings storage at supermarket, industrial parks, warehouses, production areas, and offices using face recognition technology

KEY FEATURES

- Face ID "Drop off" and "Pick up" item at lockers
- View the history of "Drop off" and "Pick up" on the device
- Allow administrators to configure device settings, check/open all lockers

BENEFITS

- Enhanced security
- Reduced administrative workload
- Faster & more convenient service
- Reduced costs

APPLICATIONS

Shopping mall, supermarket

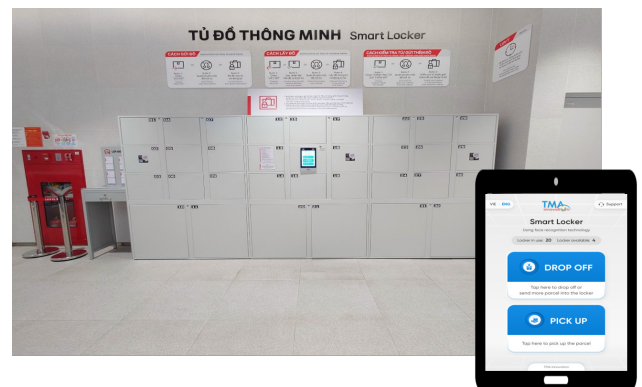
Gym center, spa

Factory/ Industrial park

Swimming pool

Amusement park

Other public areas





Internal Safety

Personal Protective Equipment (PPE) Detection

A solution to automatically identify and alert on violations of personal protective equipment (PPE) requirements during working

KEY FEATURES

- Real-Time PPE violation alerts
- Edge AI for on-site processing
- Smart reporting & insights

BENEFITS

- Improved operational efficiency
- Real-time incident report
- Improved coordination
- Reduced costs

APPLICATIONS

Hospitals and Healthcare Facilities

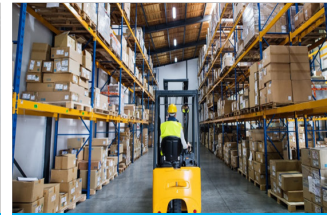
Construction Sites

Warehouse

Factories



In factory



In warehouse

Staff Safety Solution

A solution that uses safety devices and a platform to detect, analyze, and manage emergency cases, supporting safety, protection, connection, and escalation

KEY FEATURES

- Emergency alert & auto escalation
- Voice & walkie-talkie communication
- Fall/threat detection
- Welfare check & check-in
- Team coordination tools

BENEFITS

- Improved operational efficiency
- Real-time incident report
- Improved coordination
- Reduced costs

APPLICATIONS

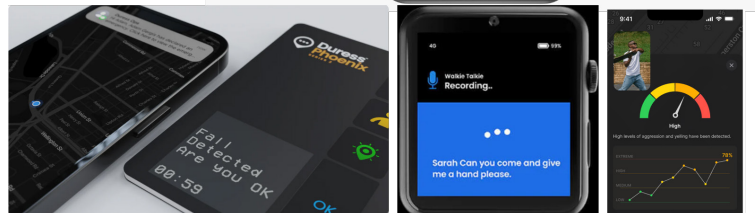
Hospitals

Public areas

Factories/industrial parks

Office buildings

- Emergency
- Check In
- Fall Detection
- 24/7 Monitoring



Staff Tracking

Support task assignment and track/monitor activities of guard, janitor (schedule management, location, etc.) helping to optimize working and administrative processes

KEY FEATURES

- Face recognition check-in/out
- Mobile task assignment
- Live location tracking
- Emergency SOS alerts
- Shift & patrol supervision
- Mistake detection & warnings

BENEFITS

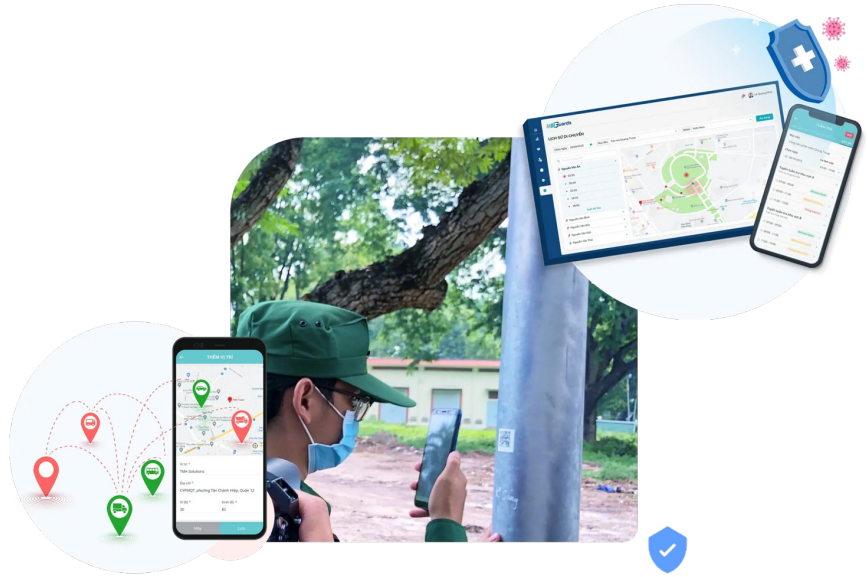
- Improved operational efficiency
- Real-time incident response
- Real-time monitoring & supervision
- Digital records & reporting

APPLICATIONS

Security management solution

Service management solution

Vehicle management and coordination solution



Emergency Notification Monitoring

Real-time emergency alerts with instant signal transmission, smart device tracking, and centralized control

KEY FEATURES

- Instant signal transceiver device via 4G, WiFi, LoRa
- Devices monitoring & management with digital and 3D maps
- Immediate alerts and alarm sounds

BENEFITS

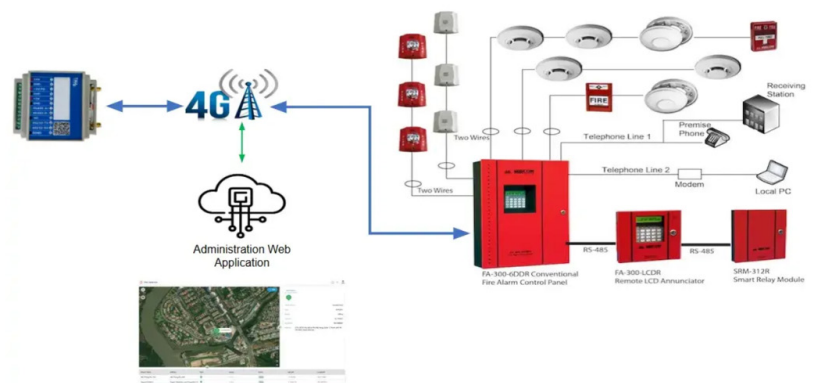
- Fast emergency responses
- Remote & centralized
- Reduced manual labor

APPLICATIONS

Security management solution

Service management solution

Vehicle management and coordination solution





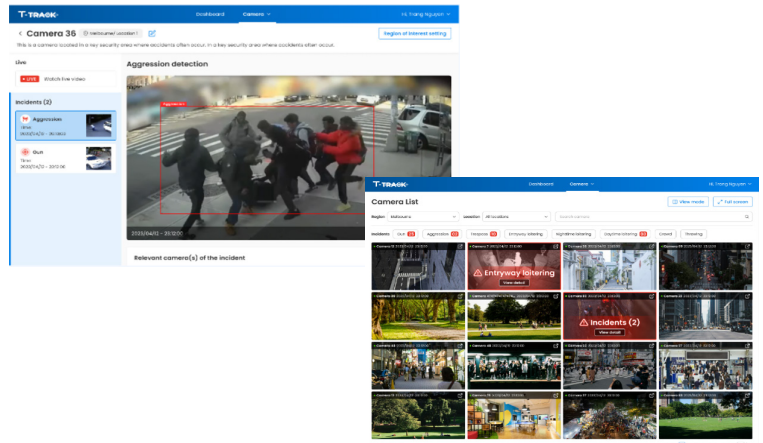
Perimeter & Boundaries

Security Camera

An AI-powered surveillance solution designed to enhance safety and situational awareness by detecting and alerting unusual or dangerous behavior in real time.

KEY FEATURES

- License plate recognition
- Loitering detection
- Crowd detection
- Nighttime unusual activity detection
- Aggression detection
- Vandalism & object throwing detection



BENEFITS

- Theft & Fraud Prevention
- Enhanced safety
- Reduced costs

APPLICATIONS

Smart City

Offices

Public Areas

Commercial Buildings

Factories/ Industrial Parks

Parking Lot Detection

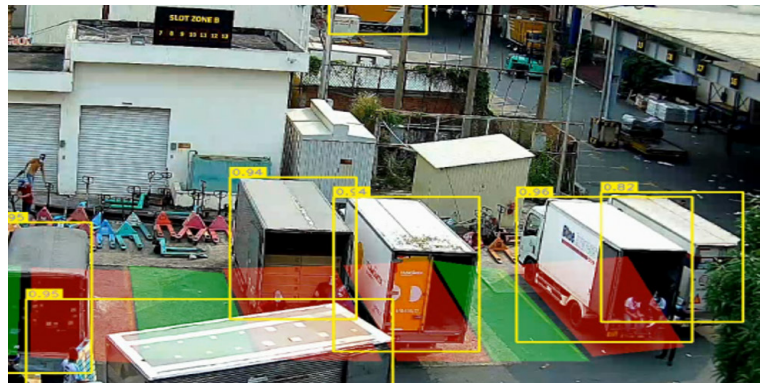
A solution to detect empty spots in parking lots

KEY FEATURES

- Track available and occupied parking slots in real time
- Provide instant warnings when slots are occupied by vehicles or goods

BENEFITS

- Accident prevention
- Enhanced operational safety
- Improved efficiency & productivity



APPLICATIONS

Residential Complexes

Logistics and Industrial Facilities

Commercial Parking Lots

Office Buildings and Business Parks

Airports and Train Stations



Mobility & Traffic

Vehicle Detection

A solution for recognizing license plates and different types of vehicles, including motorcycles, cars, trucks, and containers

KEY FEATURES

- Truck detection
- Load status detection
- Movement direction analysis

BENEFITS

- Accident prevention
- Enhanced road safety
- Improved efficiency & productivity
- Improved traffic safety



APPLICATIONS

Logistics and Supply Chain

Commercial and Retail

Traffic Management

Parking Management

Security and Surveillance

Road Damage Detection

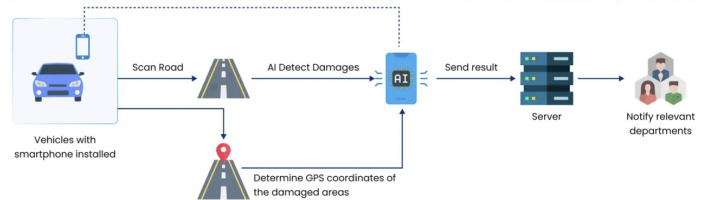
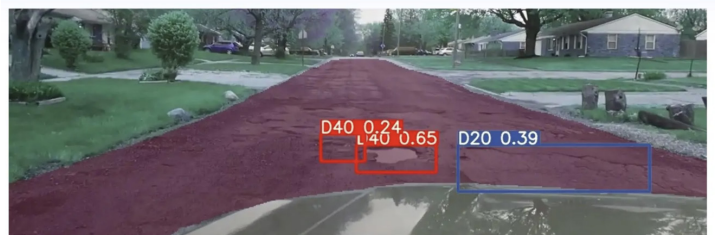
AI-powered road damage detection system that instantly identify and classify various types of road damage, including potholes, cracks, and surface wear.

KEY FEATURES

- Real-time road damage detection
- Map location marking
- Drivable area segmentation

BENEFITS

- Real-time detection and reporting
- Efficient resource allocation
- High accuracy rate



APPLICATIONS

Logistics and Supply Chain

Commercial and Retail

Traffic Management

Parking Management

Security and Surveillance

Driver Safety Solution

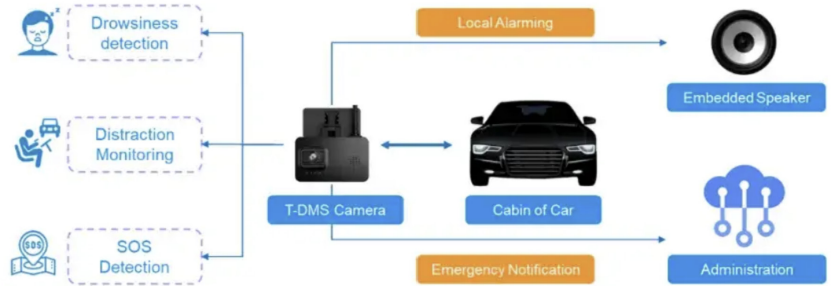
An AI-driven solution that enhances driver safety by detecting risky behaviors such as drowsiness, distraction, SOS signals, and triggering timely emergency responses

KEY FEATURES

- Monitor & alert drowsiness & distraction
- SOS signal detection & alert system

BENEFITS

- Significant accident reduction
- Rapid & easy integration
- Cost-effective advanced safety



APPLICATIONS

Logistics and Supply Chain

Commercial and Retail

Traffic Management

Parking Management

Security and Surveillance

Remote Container Monitoring System

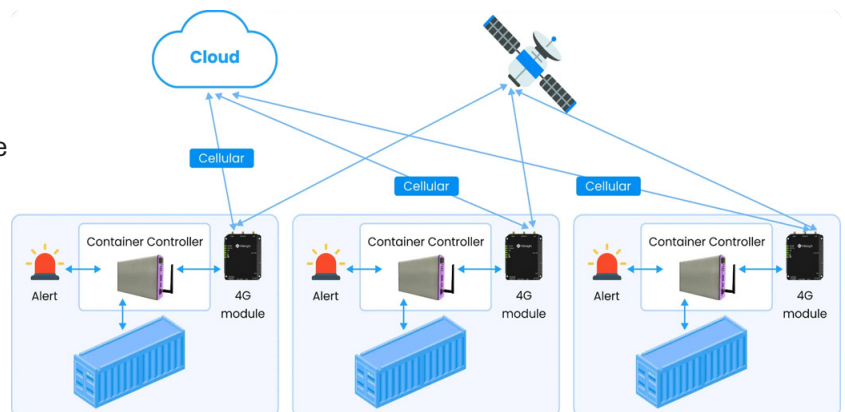
The solution uses IoT and 4G connectivity to track container conditions in real-time to help logistics teams monitor temperature, humidity, and location from anywhere

KEY FEATURES

- Smart IoT monitoring system
- Centralized dashboard with digital map
- End-to-end monitoring system architecture

BENEFITS

- Effective remote monitoring
- Automatic alerts
- Reduced risk of damage
- Full visibility & control
- Cost Efficiency



APPLICATIONS

Cold Chain Logistics

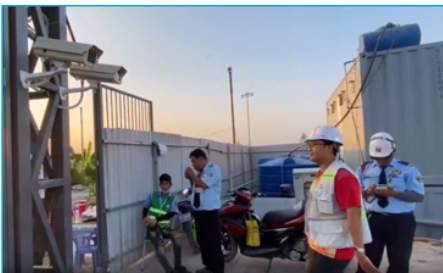
Global Shipping & Freight

Warehouse & Distribution

Agriculture & Food Export



Case Studies



Tan Son Nhat Air Cargo Terminal
Ho Chi Minh City



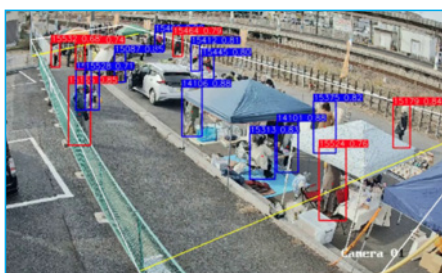
Friesland Campina Factory
Binh Duong



Vung Tau Beachrock
Vung Tau



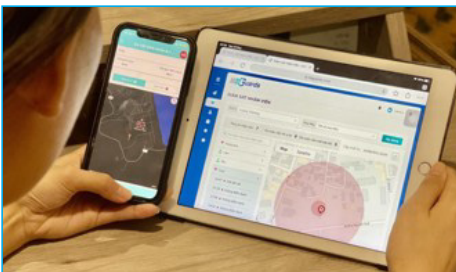
Indochina Plaza Building
Hanoi



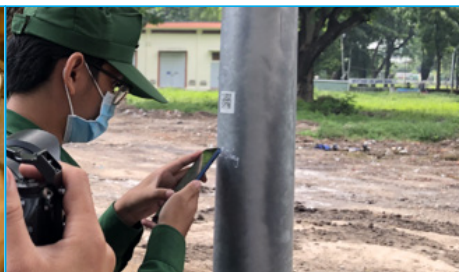
Moto Yawata Station
Chiba/ Japan



Tan Son Nhat Airport
Ho Chi Minh City



Quang Trung Software Company
Ho Chi Minh City



SAMCO Corporation
Ho Chi Minh City



Phu My Hung Building
Ho Chi Minh City



Concentrix Vietnam
Ho Chi Minh City



QTSC Office
Ho Chi Minh City





Case Studies



Lotte Mart Westlake
Hanoi



Emart Sala Thu Thiem
Ho Chi Minh City



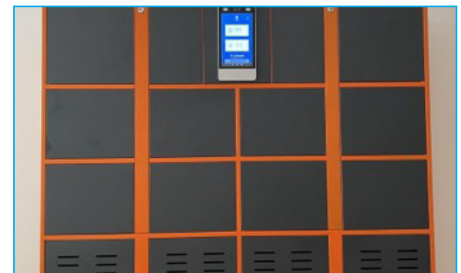
Lotte Mart Hanoi Center
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Lotte Mart Westlake
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