

# BOM PLATFORM

Intelligent Image Analysis Integration Platform



Smart City



Face-based Access



Elevator Safety



Industrial Safety



Vehicle & Traffic



Factory AI-Vision



Drone



Crime & Terrorism  
 Problems due to limitation of  
 visual inspection and control  
 workforce due to increase in  
 CCTV

Selection for identification and tracking for AI-based citizen safety

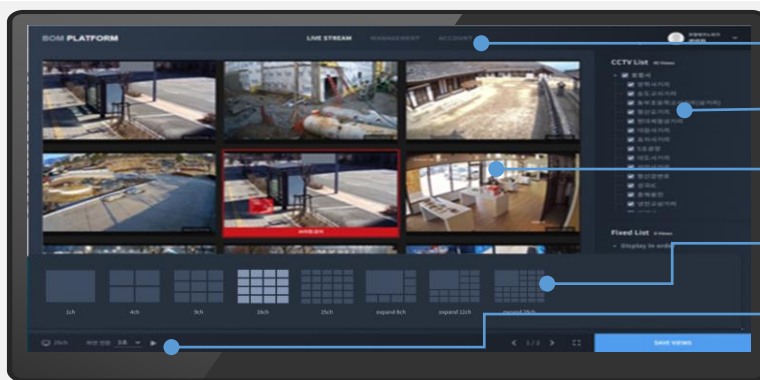
# BOM Surveillance

Awareness of abnormal behaviors for the civil safety  
 Tracking to find lost children, elderly people with dementia, etc.

## BOM Surveillance Implements AI-Based Civil Safety Management

It is an intelligent solution that recognizes abnormal behavior (intrusion, collapse, fight, wandering, garbage dumping, etc.) and dangerous situations (fire, smoke, etc.). It is also possible to quickly find people in danger from nearby CCTVs.

### Safety Surveillance System



- Menu** Detailed screen view and environment setting
- CCTV Management** Registration CCTV check, CCTV management
- Video Display** Live CCTV view
- Split Screen** 1, 4, 9, 16, 25 split screen settings
- Preferences** Setting the screen environment for monitoring



Abnormal behavior recognition    Event storage    find a missing child    Tracking from multiple CCTV    Analysis and reporting

### Example of system operation



- Abnormal behavior and risk analysis
- Find and track people linked with nearby CCTV
- Save event



Selection for Traffic Flow Analysis and Violation Recognition

# BOM Traffic

## Classify vehicle types and recognize traffic flow Violation and license plate recognition

### BOM Traffic's AI-based vehicle flow analysis and law violation detection

It is a traffic control solution that analyzes traffic flow by classifying vehicle types (bus, truck, passenger car, motorcycle, etc.) on the road and detects violations of laws (speeding, reverse driving, lane violation, illegal parking, etc.) .

#### Intelligent traffic surveillance system



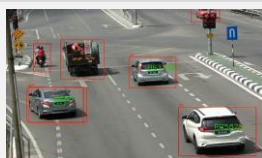
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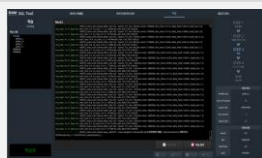
Settings for analysis



Vehicle and Signal Recognition



license plate recognition



Semi-supervised learning tool



Results analysis and reporting

#### Example of system operation



**Workplace invasion**

설정된 작업영역에 차량 침범시



**Lane change**

차량이동 급격할 경우



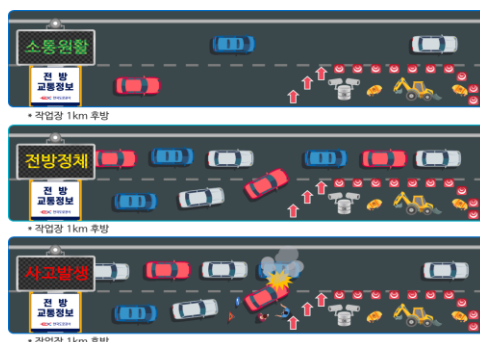
**Lean Driving**

정상 주행구간을 벗어나 1초 이상 주행시



**Zig zag driving**

주행경로에서 좌우변화가 심하게 발생시



- Flow analysis and VMS-linked notifications
- Save event
- Event replay
- Own operation

Selection for AI-based product defect inspection

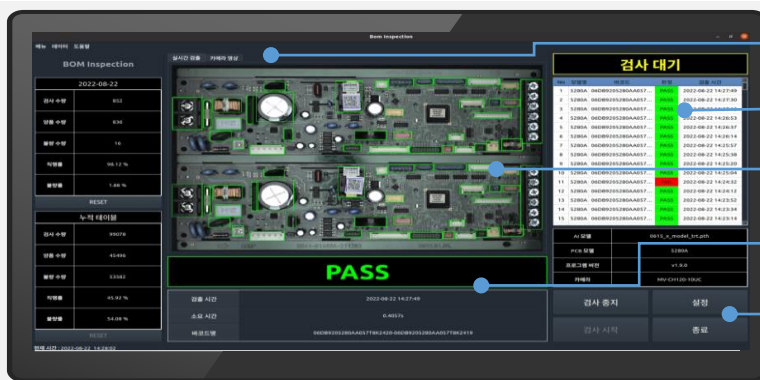
# BOM Inspection

## Real-time inspection of multi-item, complex defects Performance enhancement by own operation

Inspector replacement, production status analysis and quality stabilization

It is an intelligent vision inspection function that detects defects in the appearance of products. We provide solutions that can be applied to manufacturing environments that produce multi-items.

### Defect Inspection System

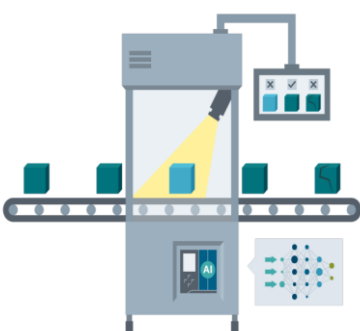


- Menu** Selection of the real screen and the optimized screen
- Inspection record** Inspected data review
- Image display** Retention result video
- Check the result** Inspection results, detailed status view
- Start/stop Preference** Start and stop Preferences



LED module inspection Steel Defect Inspection Register a new model Semi-supervised learning Analysis and reporting

### Example of system operation



- Real-time fault recognition
- Notifications
- Save event
- Event replay



Selection for a safe industrial site

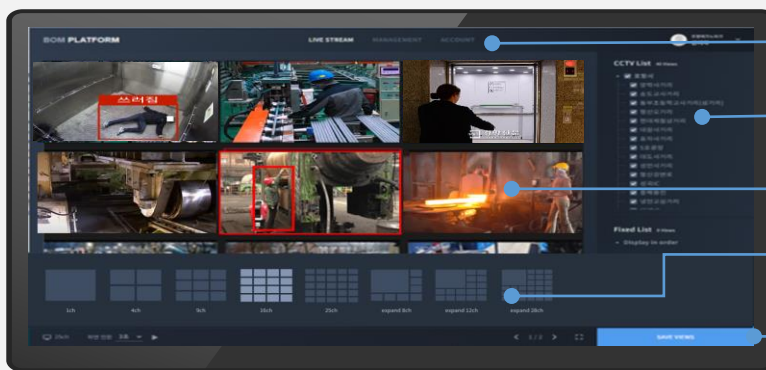
# BOM Safety

## Detection of not wearing helmet and abnormal behavior Hazardous area intrusion, fire/smoke detection

### Helmet not worn, fall, intrusion and fire/smoke recognition system

It is an intelligent video analysis function that detects accidents such as not wearing a helmet, falling, and abnormal behavior. When a dangerous situation occurs in a specific area, a warning sound (announcement) is automatically played.

### Safety Surveillance System

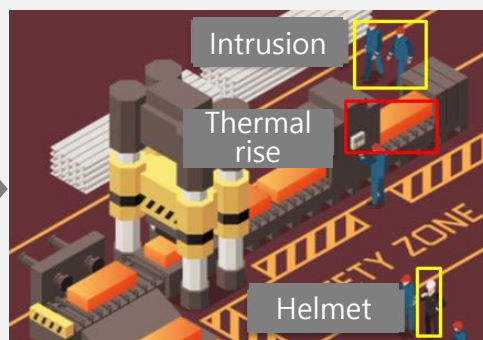


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Features and camera settings    Event analysis    Check worker access    Thermal image analysis    System Management, Reporting

### Example of system operation



- Real-time intelligent recognition
- Notifications
- Save event
- Event replay
- Apply optional features

Air surveillance using drones

# BOM Drone Inspection

Detection of objects and dangerous situations in aerial images  
Real-time recognition by linking drone and analysis system

## Aerial image shooting and real-time analysis system

It is a system that transmits images captured using drones to the analysis system in real time, and supports checking the results on site through intelligent analysis of the transmitted images. It can be used for detecting various objects (people, vehicles, bridges, etc.) and recognizing risks (fire, chemical leakage, risk of collapse, etc.).

### Drone surveillance system



- Menu** Detailed screen view and environment setting
- Drone** Drone for aerial photography
- SW** Surveillance SW
- Camera** Cameras (RGB, thermal imaging) mounted on drones
- Controller** Device for drone control



Surveillance solution



Fire/Smoke Detection



Risk (crack, hole, etc.)

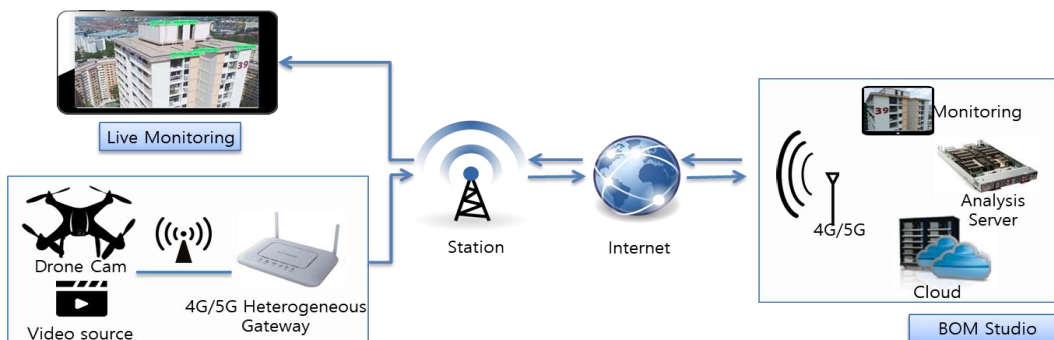


Person tracking



Data management

### Example of system operation



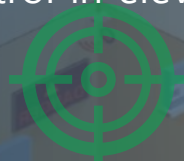
- Real-time intelligent recognition
- Check the result at the same time as filming on site
- Save event
- Event replay



Selection for abnormal behavior and risk control in elevators

# BOM Elevator

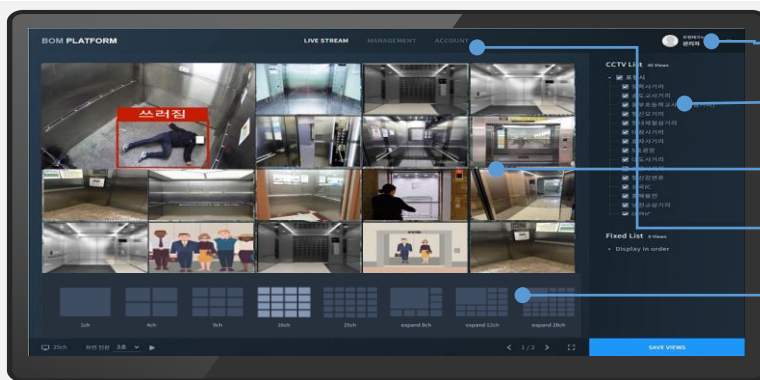
## Recognition of dangerous situations in elevators Notification of the status of related organizations



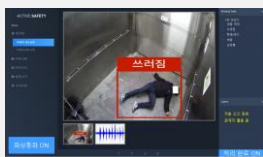
### BOM Elevator's occupant risk awareness system

It is an intelligent solution that recognizes abnormal behavior(violence etc.) and dangerous situations (fire etc.) that occur in elevator. By recognizing a dangerous situation, it is communicated to the relevant authorities, and video calls with passengers.

### Elevator safety control system



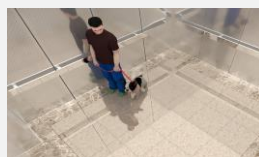
- User** user information
- CCTV Management** Registration CCTV check, CCTV management
- Image Display** Live CCTV view
- Menu** Detailed screen view and environment setting
- Split Screen** 1, 4, 9, 16, 25 split screen settings



Edge-based recognition



Fight awareness



Pet recognition



System registration



Analysis and reporting

### Example of system operation



Selection for unmanned access control



# BOM Entrance

## Identification of entry and exit using facial recognition Real-time automatic registration

### Identity registration and verification, interlocking door opening systems

It is an intelligent AI image analysis function that detects the identity of a person in an access control facility with facial recognition. It provides options such as preventing unregistered people from coming in, tracking the movement of people.

#### Face recognition system



- User** user information
- CCTV Management** Registration CCTV check, CCTV management
- Image Display** Live CCTV view
- Menu** Detailed screen view and environment setting
- Split Screen** 1, 4, 9, 16, 25 split screen settings



Approval, registration    Visitor management    Control level management    System registration    Analysis and reporting

#### Example of system operation



Enter after identification



Use without further confirmation



Recognition of simultaneous access by two people

- Real-time intelligent recognition
- Notifications
- Save event
- Event replay
- Apply optional features





**BigData 5G AI CloudComputing**