

Overview

SMART Lock-Up is a versatile video surveillance solution for lock-up environments. It includes intelligent elements of advanced video analytics in a flexible architecture. The solution is capable of detecting suspicious or violation activities based on the movement and behaviour of the object in the lock-up cell and perimeter of the lock-up during day and night.

Features

SMART Lock-Up comprises intelligent video analytics and video analytics management server features:

• Cell-Based Video Analytics

- a. Climbing Detection detects climbing activity in a
- b. Loitering in Toilet Area Detection detects object presence in a toilet for a fixed long duration.
- Aggressive Detection detects fast movement or aggressive activity in a cell such as pushing and punching.
- d. Tampering Detection detects any attempt to move or distort a camera's position or view.

Perimeter-Based Video Analytics

- a. Restricted Region Detection detects an object's presence at a location with limited access.
- In/Out Detection detects ins and outs of an object's movement in any location of a lock-up.

- Entering/Leaving Detection detects the entering and leaving of an object's movement in a monitoring area.
- d. Crowd Density Detection detects the presence of high occupancy of people.
- e. Object Left Detection detects objects left by people.
- Object Removed Detection detects the removal of objects from a scene.
- g. Counting counts the number of people in two directions.
- Event Metadata Display and Management
 Event metadata is displayed and managed by a Smart
 Client or by third party clients (event metadata is
 accessible through provided socket connection libraries
 and HTTP POST (JSON)).

Smart Client

Smart client comprises:

- a. Real-time camera view for live monitoring
- b. Real-time event alerts (video and audio)
- Real-time display camera view in high resolution with event alerts
- d. Event list management
- e. Location-based 3D event indicator
- f. Event video search and retrieval for forensic applications
- g. Dynamic masking for privacy preservation
- h. Comprehensive and integrated viewer



Applications

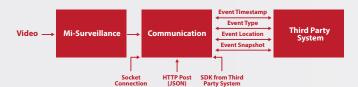
Enterprise, Government, Public Safety

Technology Benefits

The main impacts of SMART Lock-Up are:

- Real-Time Monitoring and Alert of Human Behaviour SMART Lock-Up can be applied for both automated human behaviour monitoring and alert the security personnel in real-time.
- Event-Driven Surveillance

The surveillance events are detected based on specific events and can be categorised. Forensics can be conducted based on various search criteria.



Event metadata interfaces



Perimeter-based video analytics

Increased Operational Efficiency
Video monitoring and analysis potentially increases daily work efficiency by providing situational awareness to

users through various event fusion and analysis.

Open Innovation Platform

The platform is camera agnostic and can be customised and integrated to a third party system, for example a video management system.

 Patented Algorithm/Technology
MIMOS' in-house algorithms to provide high accuracy and low false alarm rate.



Cell-based video analytics



Smart Client





