

Advanced Image Analytics

Behaviour Detection Solution

NEC's highly efficient Image Analytics can automatically detect abnormal behavior such as intrusion, loitering and object abandonment from camera's live video feeds for a safer environment.



Benefit

Limited Manual Monitoring

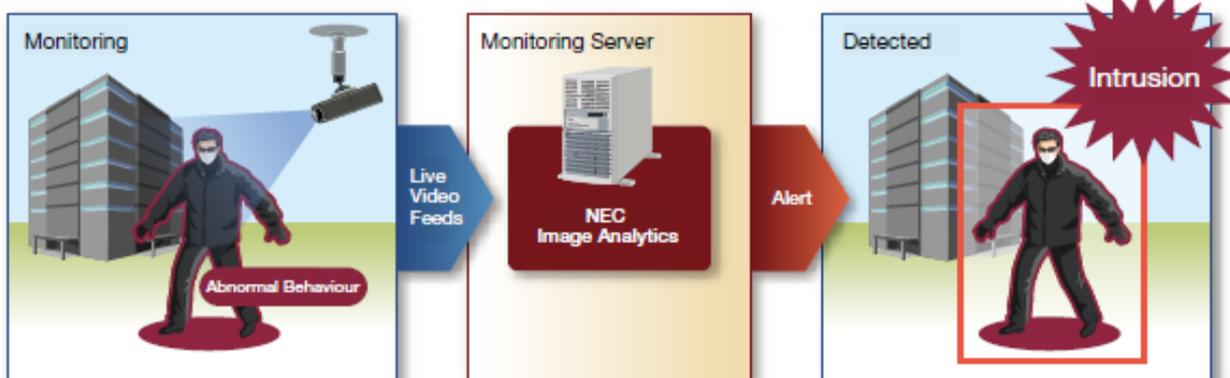
- ❖ **Manpower Cost**
Number of required manpower usually increases with the number of installed cameras for manual monitoring. Also there is a limit of how many one can monitor at the same time
- ❖ **Higher Risk**
Decline in concentration due to fatigue and carelessness in manual monitoring can lead to misses in detecting abnormal acts or person of interest

Improved Monitoring

- ❖ **Cost Effectiveness**
Smarter way to manage cost. Associate cost to higher security with increasing amount of cameras instead of bigger back-end operations that also requires bigger operational room
- ❖ **Raises Security**
Automate detection and flagging of abnormal acts or person of interest from large amount of video in real-time. Effectively raises security & reduces misses or errors by human

Characteristics

Detect moving objects in real time. Automatically recognize person, vehicle or other object and track them to detect any abnormal behavior



Supports 3rd party cameras. Existing cameras can be used to enhance monitoring.

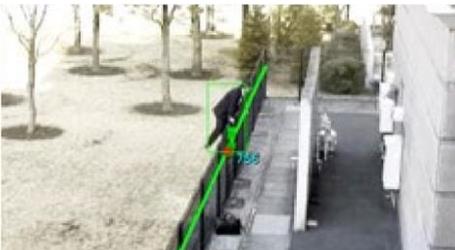
No special hardware required. ONVIF® compliant.

Alert notification by GUI or sound. Image at the time of detection is recorded by further investigation.

Improve monitoring process with various behaviour detection technology

Early detection of problems and prevention of oversights can be realized effectively by monitoring places where abnormalities may occur.

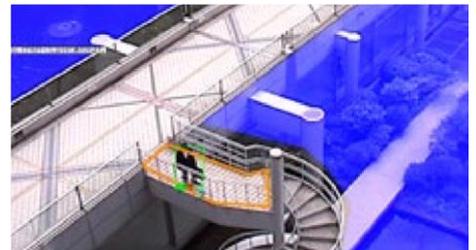
Behaviour Detection Technology



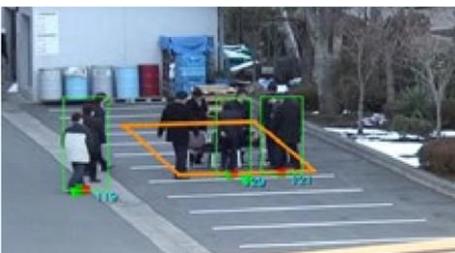
● Intrusion



● Left Object



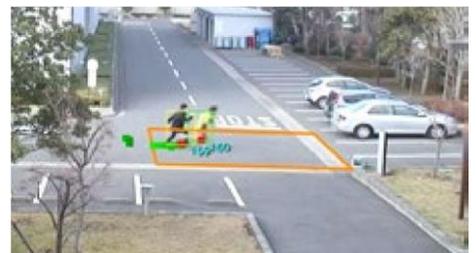
● Loitering



● Crowd



● Fallen Person



● Sudden Running

● Other applications include people or vehicle counting, speed detection, etc.

Scenario analysis made possible with combination of several detection

Use Cases

- Critical infrastructure protection
- Railway track intrusion
- Snatch theft prevention
- Illegal parking in restricted zone
- Loitering outside bank
- Illegal object removal
- Illegal entry into hazardous zone
- Overcrowding

Graphical User Interface

Easy to define rules, scenarios and regions

