Ventionex

Unified Intelligent Security & Control

Services

Consultation

Solutions

Product Brochure

Intelligent Video Analytics

2019

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About Us

Ventionex specializes in offering turnkey physical and cyber security solutions for critical infrastructure, with more than 15 years of combined experience in the Public, Transportation and Energy sector, for both onshore and offshore projects.

We understand that each of these projects has its own definite and precise requirements.

Vision & Mission

With its core strength in software integration, development and cyber security, Ventionex will continue to embrace new and emerging technology, as well as innovative business practices, to allow our clients to be at the forefront of technological advancement all the time.

Quality Policy

To develop long term mutual beneficial and profitable relationship with Clients, through meeting Clients' requirement, while seeking to improve our products, solutions and services with latest technology and innovative business practices.

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Fire Detection

Fire Detection can improve incident response time and enhance safety at the hazard and dangerous places.

Smoke Detection

Smoke Detection is critical for the early detection of a fire could mean the difference between life and death.

Intrusion Detection

Human intruder surveillance system is very useful to security authority to recognize and monitor threats.

Line-Crossing Detection

Line Crossing Detection surveillance system can be used to help security authority guard a critical infrastructure's perimeter and the border security.

Violence Detection

Violence and bullying can be prevented by using this feature. The authority will get inform immediately and respond accordingly.
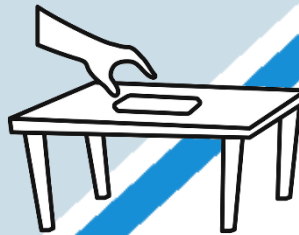
People Counting

If objects are removed from a pre-defined region, such as exhibits on display, it will automatically detect the event.

Abandoned Object Detection

This feature detection is important to avoid any unwanted object dumped at the private or public infrastructures.
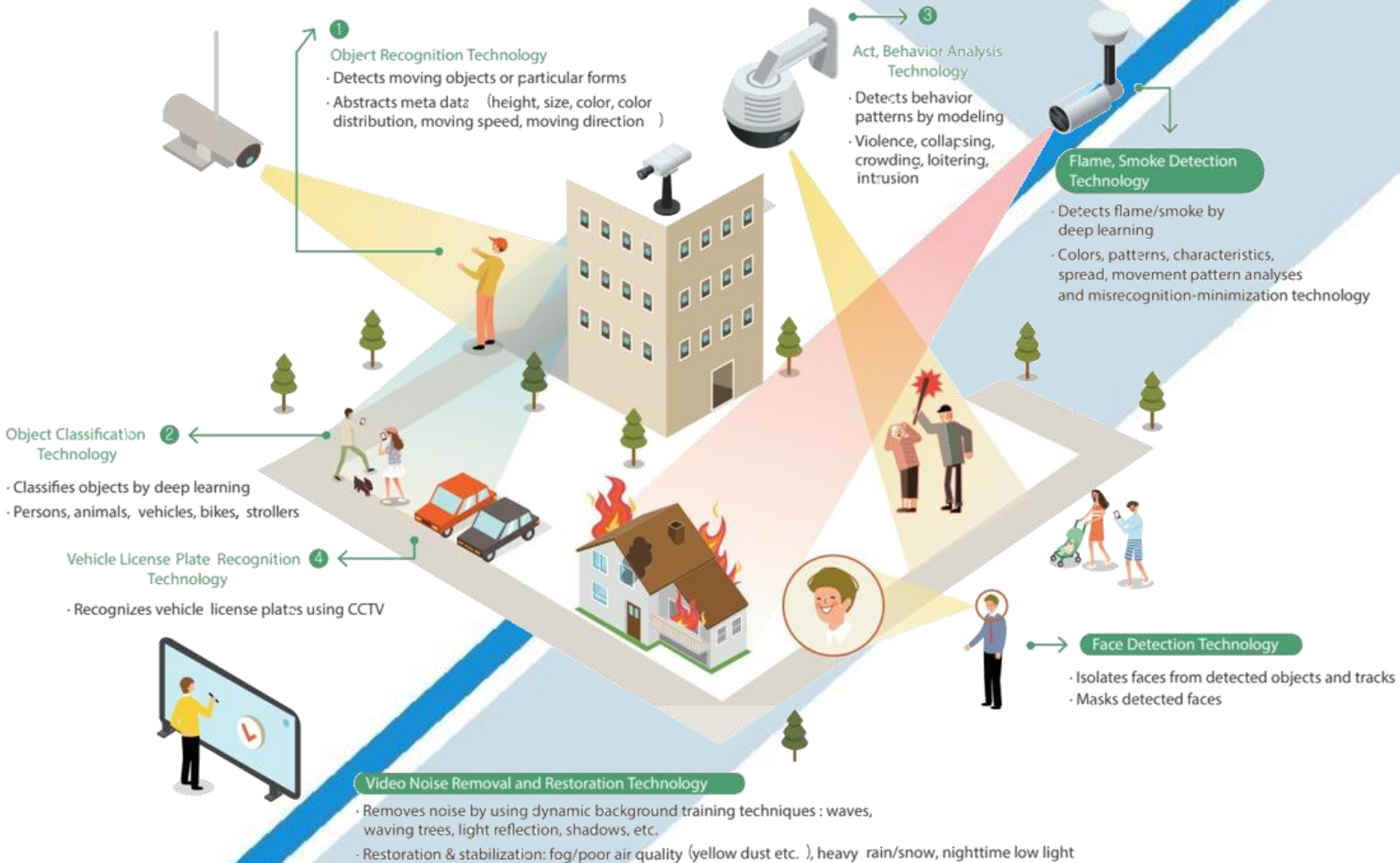
Removal Object Detection

If objects are removed from a pre-defined region, such as exhibits on display, it will automatically detect the event.

Loitering Detection

Our experience extends to equipping major oil and gas operators

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Object Recognition Technology
- Detects moving objects or particular forms
- Abstracts meta data (height, size, color, color distribution, moving speed, moving direction)

Act, Behavior Analysis Technology
- Detects behavior patterns by modeling
- Violence, collapsing, crowding, loitering, intrusion

Flame, Smoke Detection Technology
- Detects flame/smoke by deep learning
- Colors, patterns, characteristics, spread, movement pattern analyses and misrecognition-minimization technology

Object Classification Technology
- Classifies objects by deep learning
- Persons, animals, vehicles, bikes, strollers

Vehicle License Plate Recognition Technology
- Recognizes vehicle license plates using CCTV

Face Detection Technology
- Isolates faces from detected objects and tracks
- Masks detected faces

Video Noise Removal and Restoration Technology
- Removes noise by using dynamic background training techniques : waves, waving trees, light reflection, shadows, etc.
- Restoration & stabilization: fog/poor air quality (yellow dust etc.), heavy rain/snow, nighttime low light

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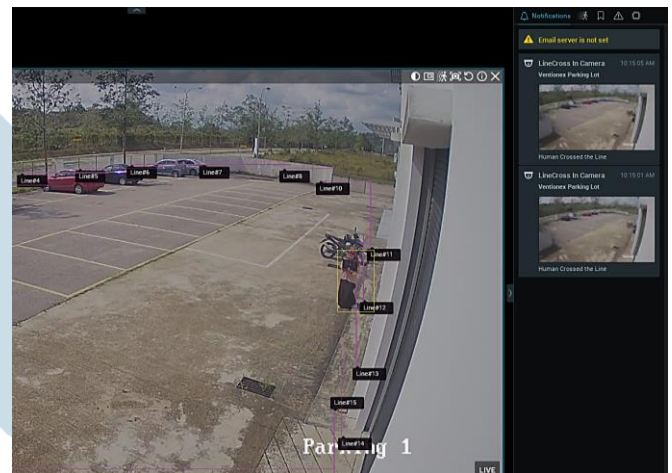
INTRUDER DETECTION

Description

Intrusion detection monitors an area by detecting and surveying movement to capture events. The Intrusion feature is an intuitive Smart Detection method that is used to record break-ins or other criminal activity for prosecution. With proper configuration, Intrusion detection is applicable for almost any scenario. It can be used for supervising a power plant, government, warehouse, bank, retail store, or just watching entries and exits to even covering windows.
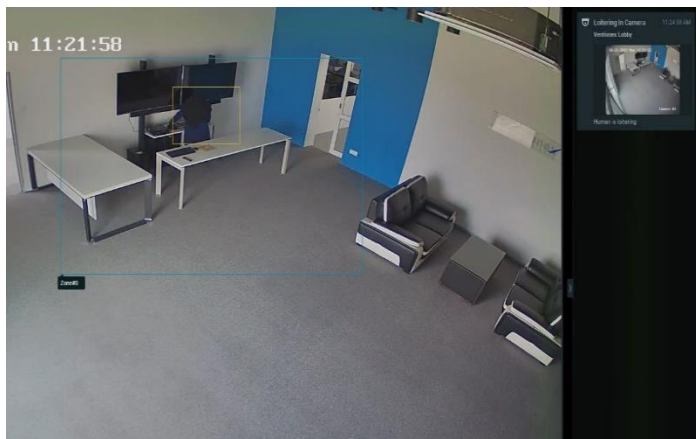

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

LINE-CROSSING DETECTION

Description

Line-Crossing detection occurs when anything (such as person, object or animals) crosses a pre-defined virtual line within the scene taken by a camera, the software will automatically detect the event and can trigger alarms or recording if pre-configured to do so. The algorithm is also able to control the crossing of virtual lines in the two directions and generate diversified notifications for each of them. The crossing lines can be designed on the image like a chain in order to adapt them perfectly to the area that you want control.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Protecting any area by drawing lines at any places and any time.
- The size of the area is unlimited.

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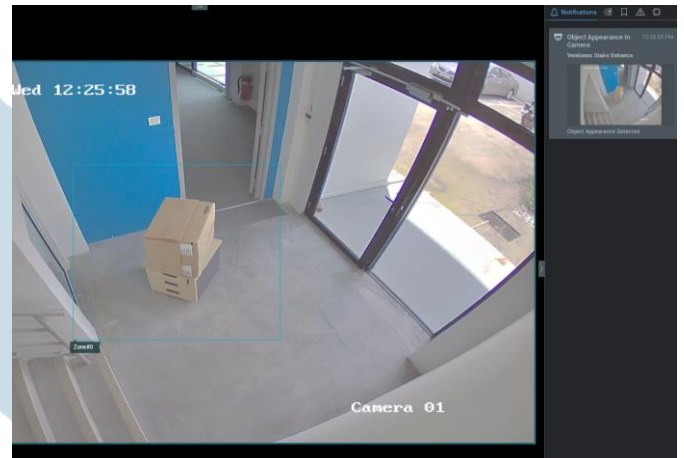
LOITERING DETECTION

Description

Loitering detection monitors a defined area and will trigger a loitering event if an object lingers longer than the configured dwell time. This behavior is effective in real-time notification of suspicious behavior around power plant, oil and gas, banks, narcotic dispensaries and other locations. It is also suitable to monitor the disciplines of the staffs and employees (such as avoid staff to linger in the restricted and dangerous areas in the workplace).

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

ABANDONED OBJECT DETECTION

Description

It is an automated video surveillance system for the detection of suspicious activities that might endanger public safety, especially in crowded places like airports, railway stations, shopping malls, movie theatres and more. An abandoned object is defined as one that has been lying stationary at a certain place with no apparent human attendance for an extended period. It is a crucial task for public security, particularly for identifying suspicious items/objects.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

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REMOVAL OBJECT DETECTION

Description

Removable object detection is important in order to protect the valuable goods. Alert will be generated once the objects within the protected zone are removed or relocate. There are suitable in area or workplace that need to keep their goods safe such as museum, warehouses, power plants, bank, vault, exhibitions and much more.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

PEOPLE COUNTING

Description

People counting data generate from video analyses software which is provide valuable information. It supports multi-direction counting for different objects or groups of objects. It can count from overhead and side of the objects. The efficiency of the advertisement within the shopping mall will be reflected by the number of people counted within the advertise area.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Multidirectional counting for people.
- Overhead and Side view counting are available.

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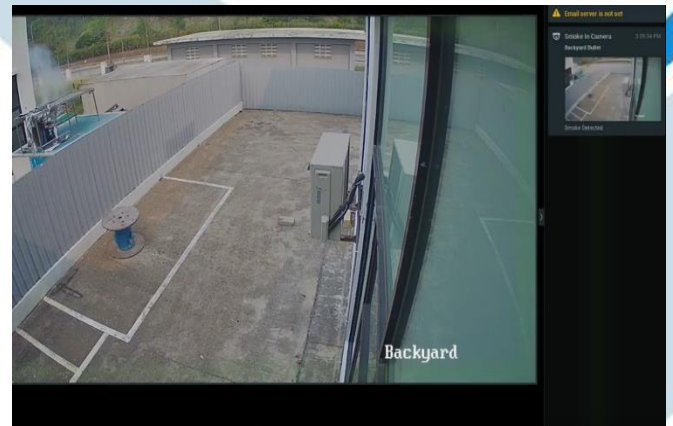
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FIRE DETECTION

Description

Video analytics fire detection systems, which use analytics embedded in cameras to detect fire, present themselves as alternatives to traditional sensors and stand out for their advantage in early warning fire detection and give alert or notifications to the authority in charged. Installation and configuration are straightforward, and it is suitable for indoor and outdoor applications.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

SMOKE DETECTION

Description

Smoke detection make it possible to detect smoke in critical environments in an early stage. It will Identifies and analyses smoke at the start of a fire. This enables users, located on site or remotely, to raise the alert and take appropriate action early. This facilitates a reliable and early detection of fire even under difficult environmental conditions. Installation and configuration are straightforward, and it is suitable for indoor and outdoor applications.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

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VIOLENCE DETECTION

Description

It is very important to automatically detect violent behaviors in video surveillance scenarios, for instance, railway stations, gymnasiums, psychiatric centers, workplace, schools, military and more. This feature function might be helpful to decrease the numbers of bullying in school. The alerts generated when there is violence detected in a situation.

Main Features:

- Bookmarked in the timeline when event detected.
- Integrated with video management software
- Adjustable algorithm sensitivity levels for site-specific optimization
- Adjustable detection parameters for different events.

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