Security

VIDEO SURVEILLANCE

1. Solution Overview

   AlleyeZ system provides two solutions to suit various video surveillance environments: AlleyeZ VMS(build-type solution) and AlleyeZ VSaas(cloud-based solution);

● Scalability

· Designed for reliable scalability, regardless of number of camera channels

● Support various DBMS

· Allow use of different database system to meet client requirements(e.g., MariaDB, MSSQL, MySQL, Oracle, etc.)

● ONVIF complicance

· Offer immediate integration with ONVIF-compliant cameras and support various functions such as streaming, camera control, event detection, firmware updates, and SD card backup

● Windows/Linux support

· Support both Windows Windows and Linux platforms, enabling flexible adaptation to different camera licensing policies

● Latest Codec support

· Support a variety of codecs, including MPEG4, H.264, and H.265

TELCOWARE

2. AlleyeZ VMS

System Chart

- ● Integrated Surveillance with a single UI

  · Operate with a single interface

  · Integrate interface with minimal customization

- ● Seamless interworking with 3ʳᵈ party solution

  · Interwork with various IoT sensor

  · Interwork with external solution through SDK

- ● Compatibility with Standard/Non-standard camera

  · Connect with non-standard camera and video server, including ONIVF-compliant camera

  · Provide customization based on client's environment

VMS Integrated UI

Supports efficient Surveillance activities by displaying a variety of information on single and multiple monitor environments.
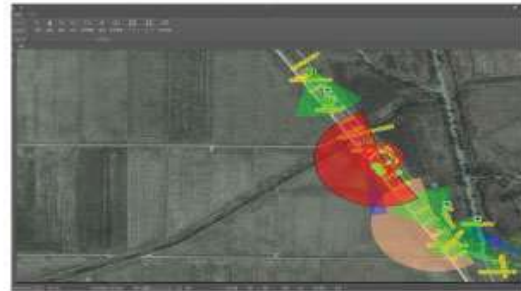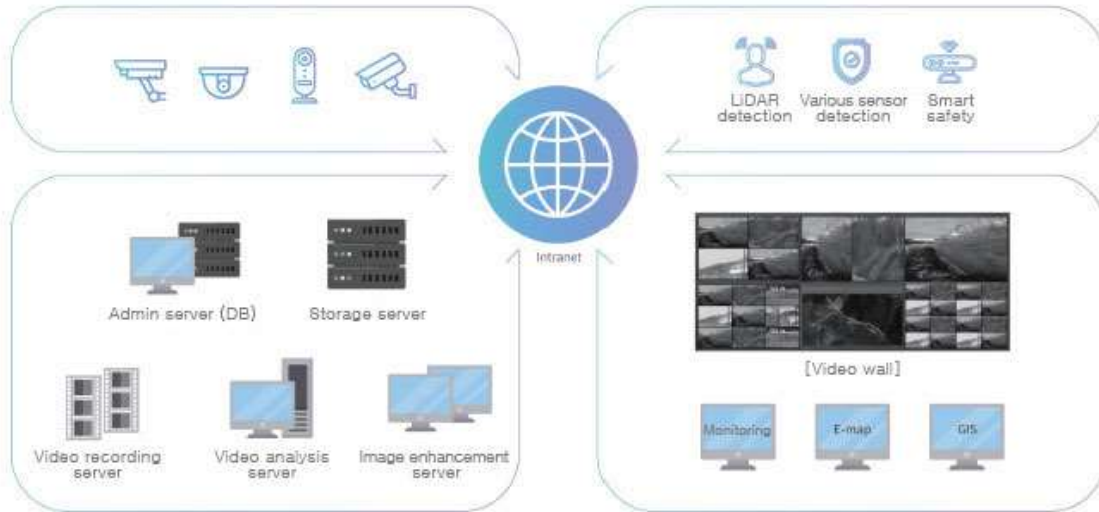

[Video monitoring screen]

[E-map screen]

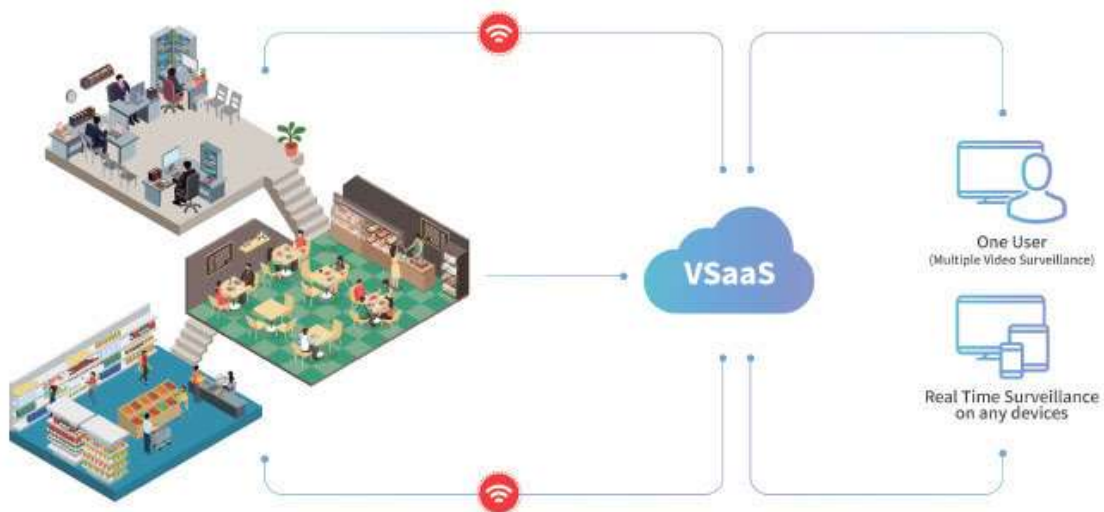[Admin. setting screen]

[GIS screen]

VMS System Components

Provides all the functions of VMS, including security and reliability built on the user's closed network.

LiDAR detection   Various sensor detection   Smart safety

Intranet

Admin server (DB)   Storage server

Video recording server   Video analysis server   Image enhancement server

[Video wall]

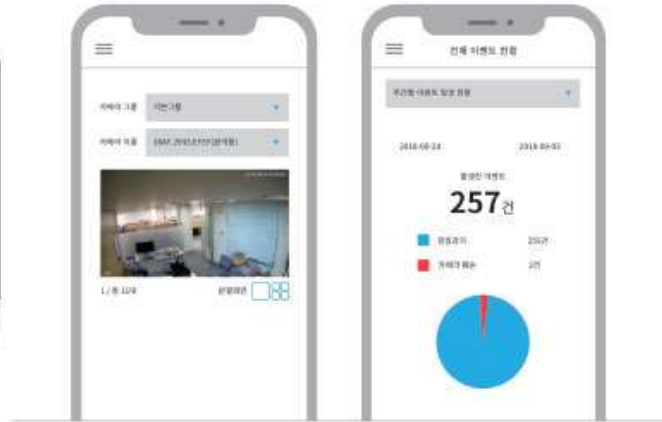Monitoring   E-map   GIS

3. AlleyeZ VSaaS

System Chart

● Easy installation and convenient video surveillance

· Simply purchase and install camera

· Access video from anywhere, anytime

· Offer continuous, event-based, and scheduled recording

· Provide 1~64x speed playback

● Flexible scalability and reliable service

· Easily scale system to match your business needs(Support On-Premise and Public Cloud)

· Implement redundancy and backup system

· Ensure stable management of recorded video

● Upgradable intelligent service

· Effortlessly launch intelligent product(simply apply for desired service)

· Enjoy continuous service upgrade benefits

VSaaS UI Components

Provides a PC web or phone/tablet app to ensure simple and easy access to the monitoring screen anytime anywhere.
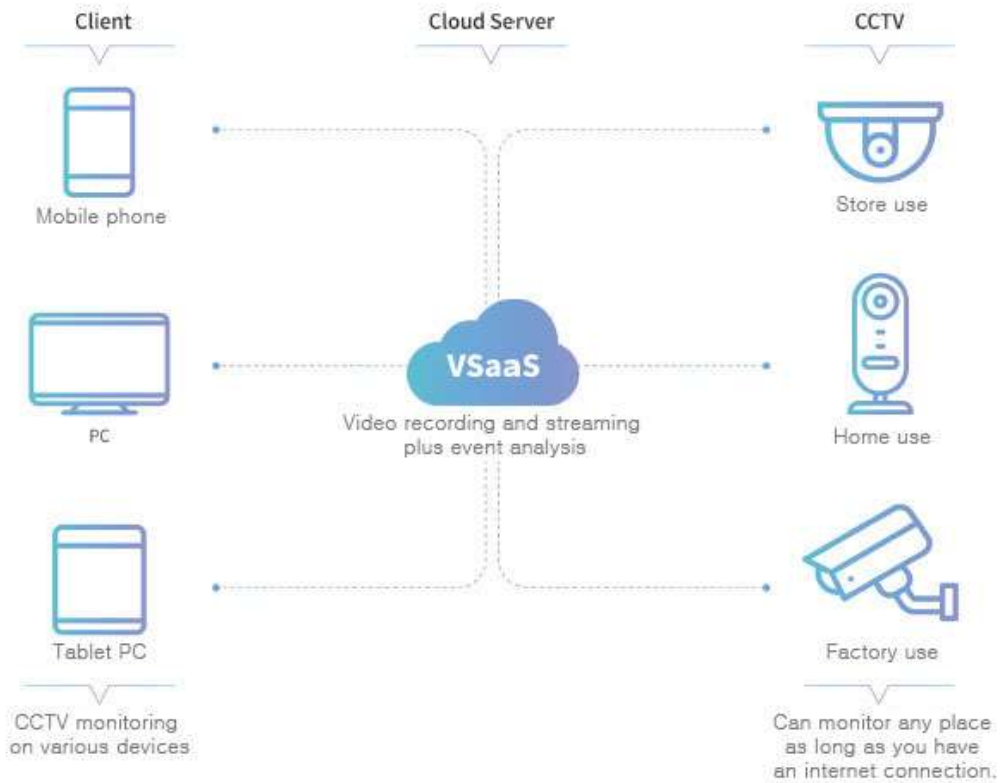

[PC Web screen]

[Mobile App screen]

VSaaS System Structure

All systems are installed on the cloud, meaning users can make use of the service simply by installing cameras and connecting to the Internet.
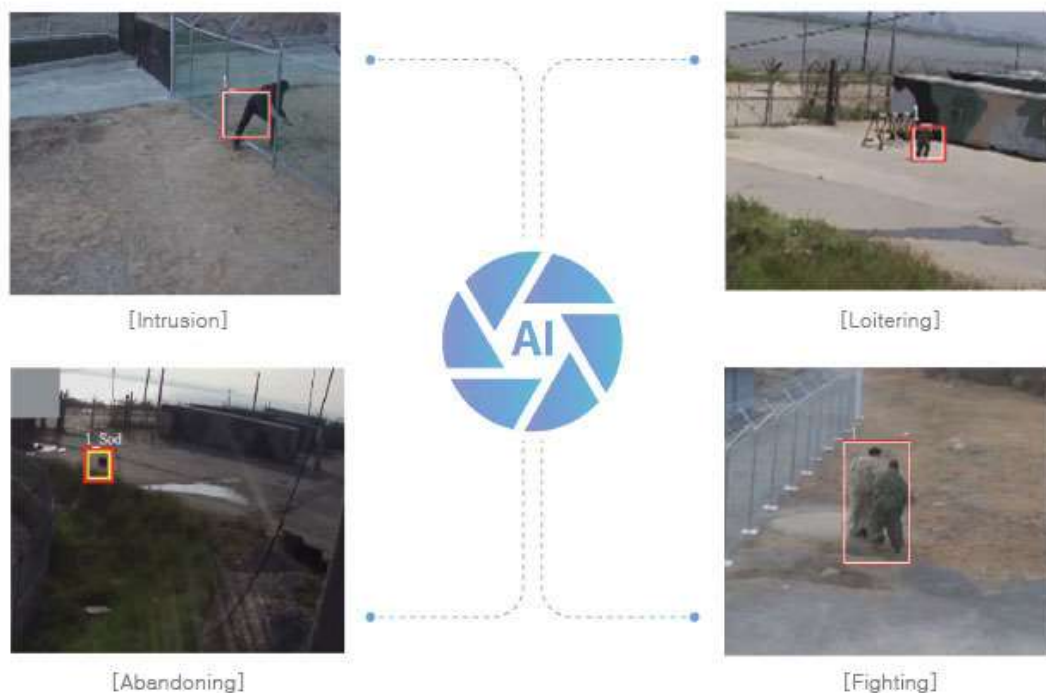

Client	Cloud Server	CCTV
Mobile phone		Store use
PC	VSaaS — Video recording and streaming plus event analysis	Home use
Tablet PC		Factory use
CCTV monitoring on various devices		Can monitor any place as long as you have an internet connection.

INTELLIGENT VIDEO ANALYSIS
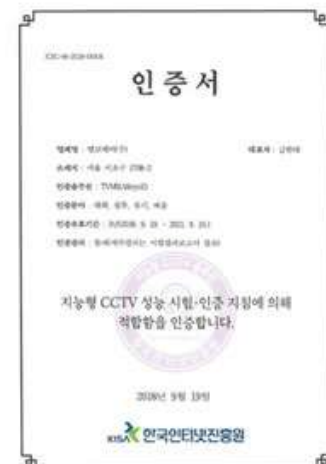
1. Solution Overview

Intelligent video analysis is a technology that recognizes embedded features in video and extracts pattern. It encompasses various functions, including object recognition (face, text, object, etc.), situation detection, motion analysis, and image quality enhancement.

2. Intelligent Video Analysis

Intelligent video analysis analyzes camera-captured movement to detect abnormal activity such as intrusion and criminal act, as well as situation like fire, triggering alarm as needed.

[Intrusion]

[Loitering]

[Abandoning]

[Fighting]

● Analyze video for sign of unusual behavior related to suspicious object, including intrusion, loitering, abandonment, and fight

● Automatically generate alert upon recognizing various situation like fire or explosion

● Include function for efficient video analysis, such as setting detection and exclusion area for each camera

3. Image Enhancement and Correction

Image enhancement is a technology that improves image quality affected by various factor like adverse weather, low light, or noise. It achieves high recognition rates through realistic color reproduction and improved contrast.

[Original image]　　　　　[Enhanced image]

● Bad weather image enhancement

・ Correct or restore image impacted by bad weather condition like fog, sea fog, yellow dust, rain, or snow

● Low light image enhancement

・ Enhance image in low-light condition using technique like night-time screen overlay

● Video noise reduction

・ Reduce noise in video data