ACTi
Connecting Vision

ACTi
Government Surveillance Solutions

Government: Overview

ACTi's government surveillance solutions are designed for solving security and operation management related challenges.

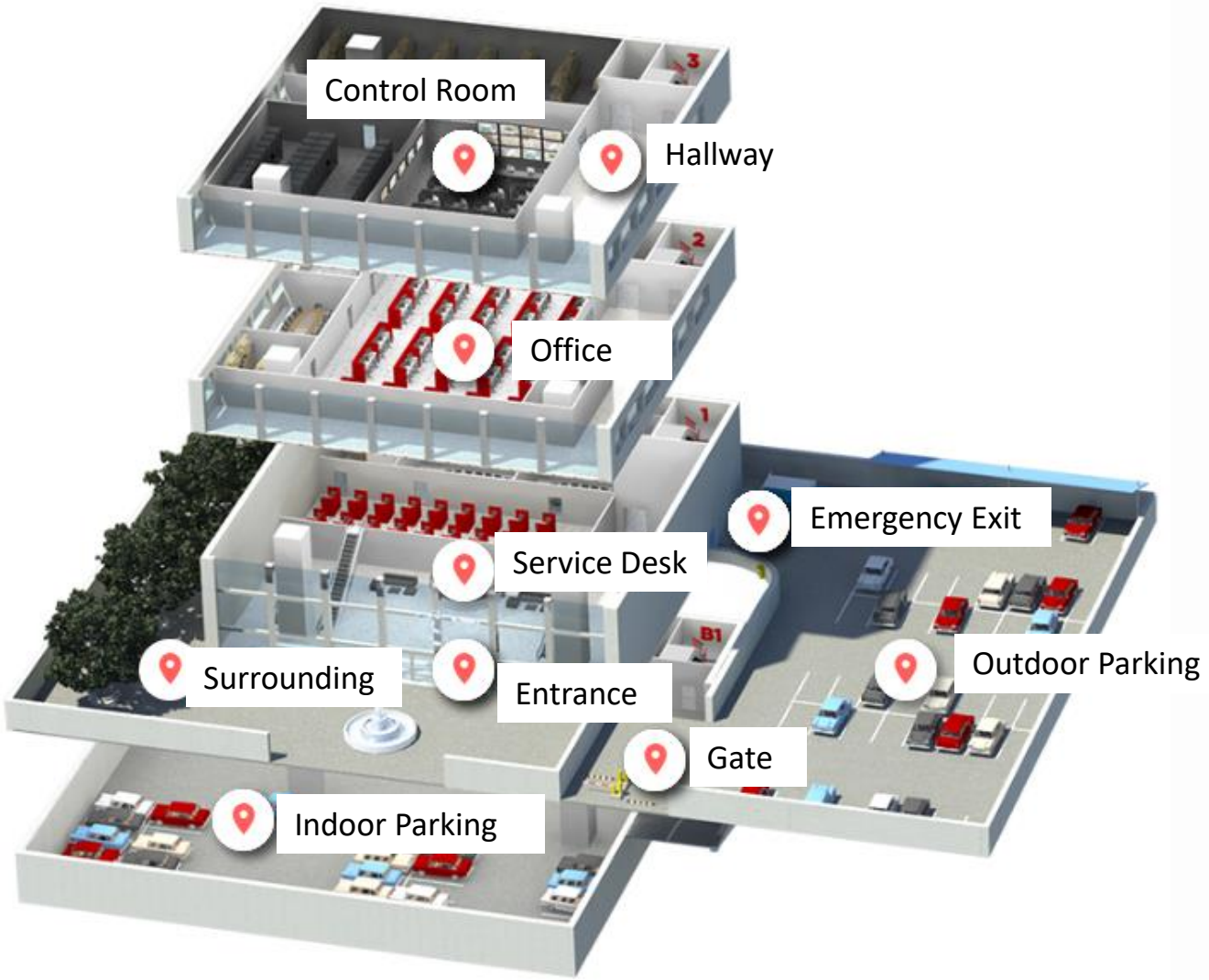
The solutions consist of IP cameras, video management system, video analytics and the integration of access control, intercom, alarm, and digital signage systems.

ACTi offers an end-to-end IP video surveillance solution for three different scopes of government:

1. Local government
2. State government
3. Country government

The security or business management related challenges and solution requirements vary for each government type. The major security related challenges include illegal access or any type of conflicts.

Government: Map



Government: Applications vs Locations

	Entrance	Gate	Control Room	Office	Service Desk	Corridor	Parking	Surrounding
Unauthorized Access Detection	Y	Y	Y	Y				
Tailgating Detection	Y		Y	Y				
Real-time Suspect Tracking	Y	Y	Y	Y	Y	Y	Y	Y
Vehicle Access Control		Y					Y	
Intercom Service	Y	Y			Y		Y	
Human Body Temperature Detection	Y				Y			
Suspicious Items Detection						Y		
On-the-Go Surveillance	Y	Y	Y	Y	Y	Y	Y	Y
Safety Assurance	Y	Y	Y	Y	Y	Y	Y	Y
Video Evidence Push to NVR by Mobile Phone	Y	Y	Y	Y	Y	Y	Y	Y

Government: Applications

Unauthorized Access Detection

Detect the intrusion attempts using video analytics and notify the security personnel.

Tailgating Detection

Detect tailgating at the entrance of restricted area by comparing the detected head count with number of presented access credentials.

Real-time Suspect Tracking

Track the suspect seamlessly by switching between video channels using transparent video overlay buttons in video management system.

Vehicle Access Control

The access control at the gate can be done conveniently using ALPR technology.

Intercom Service

Interact with other individuals by local voice-based communication system.

Government: Applications

Human Body Temperature Detection

Detect abnormal human body temperature by using a high accuracy thermal camera together with built-in face detection AI.

Suspicious Items Detection

Detect the items that are left unattended to prevent serious security and safety hazards.

On-the-Go Surveillance

Monitor the views from surveillance cameras using a mobile device while walking around the premises, to respond to incidents instantly.

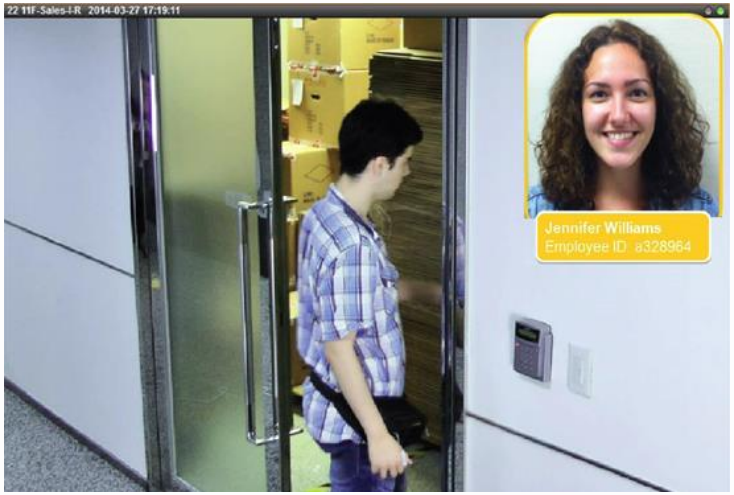
Safety Assurance

Ensure safety of people using video surveillance system.

Video Evidence Push to NVR by Mobile Phone

Use the built-in camera of the mobile phone to stream the video evidence of the incident to NVR.

Government: Applications



Unauthorized Access Detection

Detect the intrusion attempts using video analytics and notify the security personnel.

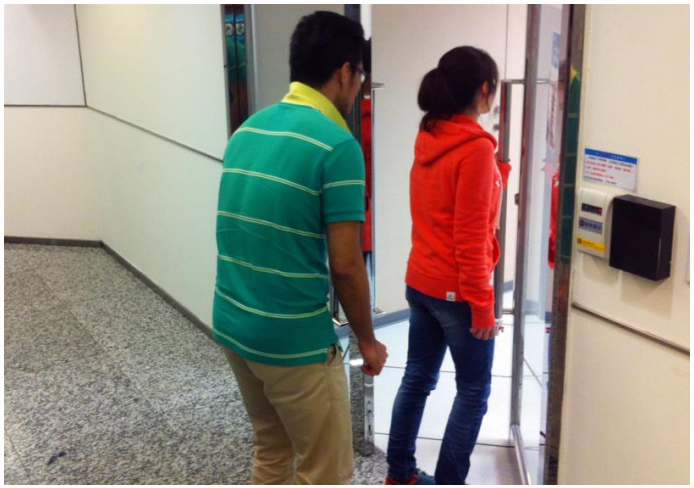
Without surveillance videos, it is hard to be sure if the identity shown in the entry log matches the accessing person. Access control integrated with the surveillance system can remarkably prevent the crises and loss resulted from unauthorized access.

This is based on the **Face Recognition** analytics in ACTi's Door Stations.

Solutions

Access Control Solution (SF20) *Read*

Government: Applications



Tailgating Detection

Detect tailgating at the entrance of restricted area by comparing the detected head count with number of presented access credentials.

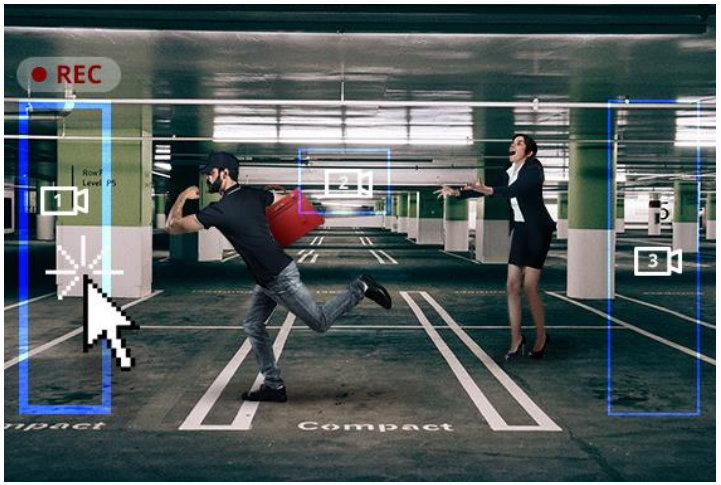
Whenever the RFID card is swiped, the system will count the number of the actual entries. When mismatched, the system will create the alarm. This prevents both tailgating and piggybacking.

This is based on the **People Counting** analytics and **RFID** technology. Read More.

Solutions

Access Control Solution (SF20) *Read*

Government: Applications



Real-Time Suspect Tracking

Track the suspect seamlessly by switching between video channels using transparent video overlay buttons in video management system.

Track the suspect using the video management system interface by using the convenient feature of switching the views with 1 click on the video which opens up the next view of the area the suspect is moving towards to. This method works for both live view and playback. By this method it is possible to instantly find out where the suspect is going and dispatch officers to handle the situation immediately.

This is based on the unique **Visual Tracking** feature of ACTi's **NVR 3 and CMS 2**.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Government: Applications

Vehicle Access Control

The access control at the gate can be done conveniently using ALPR technology.

Except for the highest security facilities, most locations can benefit from the automatic gate control without requiring the gate officer to be present all the time. Only the white-listed vehicles can enter the premises. Furthermore, it is possible to set up a blacklist which alerts the security officers instantly when the blacklisted vehicle appears.
This is based on the **ALPR** analytics inside ACTi cameras. Read More.

Solutions

Access Control Solution (SF20) *Read*

Government: Applications

Intercom Service

Interact with other individuals by local voice-based communication system.

There will be voice access points as intercoms in various locations across the Government, such as gates and entrances, loading area, parking lot and others. The employees and the visitors can talk to the security staff immediately using that feature.

This is based on the **NVR 3 or CMS 2** along with intercom devices such as **Q950**.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Government: Applications

Human Body Temperature Detection

Detect abnormal human body temperature by using a high accuracy thermal camera together with built-in face detection AI.

To prevent the spread of diseases, there are smart surveillance devices that can detect high body temperature from the distance using specially designed high precision thermal imagers. These cameras will first detect human faces using its deep learning AI and then analyze each face using the thermal image and get the exact temperature reading of the face. The temperature above the threshold will trigger an event.

This is based on the **Temperature Detection** analytics inside ACTi thermal cameras, such as VMGB-370, VMGB-371.

Solutions

Windows-Based NVR Solution (SF11) *Read*

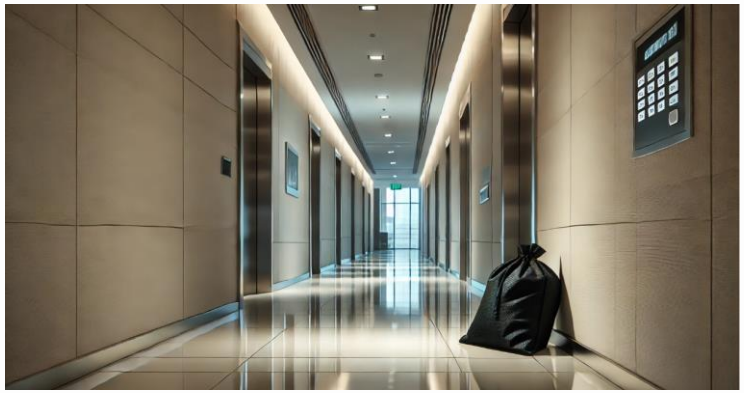
Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Third Party Application Integrated Solution (SF22) *Read*

Third Party VMS Integrated Solution (SF23) *Read*

Government: Applications



Suspicious Items Detection

Detect the items that are left unattended to prevent serious security and safety hazards.

The unattended objects, such as bags, boxes, suitcases, strollers, carts, are considered risk items that should be handled quickly. Those objects can sometimes be accidentally forgotten there. An early detection saves them from being stolen. Rarely, these items could also pose threats as being malicious. They could disguise explosives or other dangerous substances.

This is based on the **Unattended Object Detection** analytics inside ACTi cameras. Read More.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Third Party Application Integrated Solution (SF22) *Read*

Government: Applications

On-the-Go Surveillance

Monitor the views from surveillance cameras using a mobile device while walking around the premises, in order to respond to incidents instantly.

Universal mobile application designed to remotely access NVR, CMS or camera for video playback and management.
Features: Live view and playback, Search video recordings by events, PTZ Control, Google Maps, Activate Digital Output, Playback from camera's memory card

This is based on the **ACTi Mobile Client,** both for Android and iOS. It is free.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Government: Applications

Safety Assurance

Ensure safety of people using video surveillance system.

ACTi provides surveillance solution for ensuring the safety with both overview and details monitoring. By installing a camera with wide viewing angle at the center or the corner of the store, the whole area can be perfectly covered. Meanwhile, the faces of people entering the premises can be captured by the covert camera discreetly installed into the height strip at the entrance.

For large scale projects, ACTi TV Wall enables multiple views to be displayed on different monitors at the same time. Get the complete overview to improve situational awareness and operational efficiency.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Cloud-Based NVR Solution (SF13) *Read*

Third Party Application Integrated Solution (SF22) *Read*

Third Party VMS Integrated Solution (SF23) *Read*

Government: Applications

Video Evidence Push to NVR by Mobile Phone

Use the built-in camera of the mobile phone to stream the video evidence of the incident to NVR.

The patrolling security guard can now use his smartphone with ACTi Mobile Client to capture live video and "push" it through wireless network to NVR 3 in real time. Moreover, the recording can be reviewed later during incident investigation using advanced features that apply to surveillance cameras including synchronized playback, bookmarks, timeline search, and more.

This is based on the **ACTi Mobile Client,** both for Android and iOS. It is a free app.

Solutions

Windows-Based NVR Solution (SF11) *Read*

Windows-Based NVR and Control Center Solution (SF12) *Read*

Recommended Products vs Locations

	Entrance	Gate	Control Room	Office	Service Desk	Corridor	Parking	Surrounding
Thermal Cameras (VMGB-370, VMGB-371)	Y	Y			Y			
Intercom (Q950)	Y	Y			Y		Y	
ALPR Bullet Camera (A426)		Y					Y	
Access Control Door Station (R1- R7- series readers/controllers)	Y	Y	Y	Y				
People Counter for Tailgating prevention (Q963)	Y	Y	Y	Y				
General Surveillance Bullets (3xx, 4xx series)	Y	Y			Y		Y	Y
General Surveillance Domes (91x, 7xx, 8xx series)	Y	Y	Y	Y	Y	Y	Y	Y

Products vs Management Servers

	Windows NVR (NVR 3)	Access Control Smart Server
Thermal Cameras (VMGB-370, VMGB-371)	Y	Y
Intercom (Q950)	Y	
ALPR Bullet Camera (A426)	Y	Y
Access Control Door Station (R1- R7- series readers/controllers)		Y
People Counter for Tailgating prevention (Q963)	Y	Y
General Surveillance Bullets (3xx, 4xx series)	Y	Y
General Surveillance Domes (91x, 7xx, 8xx series)	Y	Y

Windows NVR (NVR 3)

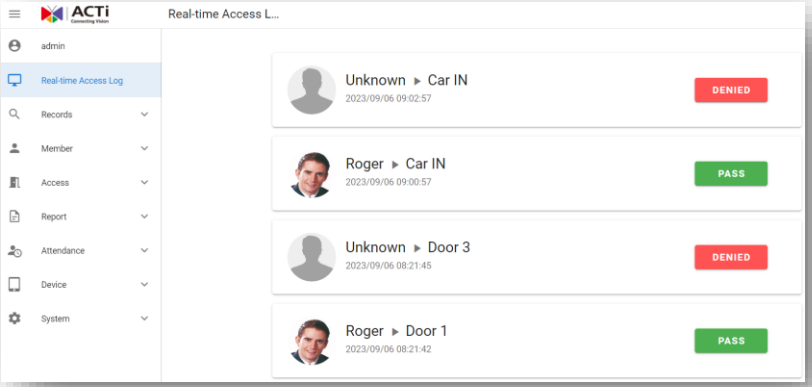
NVR 3 is one of the most famous ACTi products – it is a professional and elegant network video recorder platform with wide range of features and extremely reliable performance, available in two editions (read more).

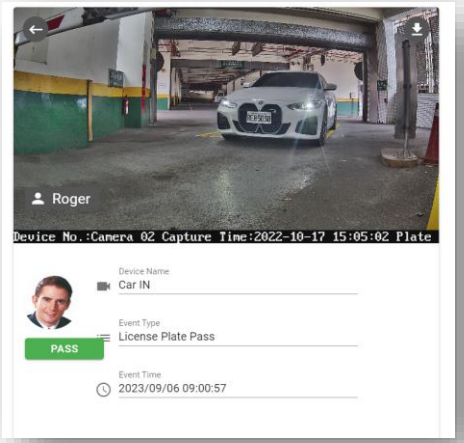
Feature	NVR 3 Business	NVR 3 Corporate
Maximum Number of Channels	100	200 (Standalone NVR 256)
Free ACTi Camera Channels Included	32	1
Free 3rd Party Camera Channels Included	1	1
CMS Support	No	Yes
POS, Access Control, Network IO Support	No	Yes
eMap	Yes	Yes
Google Map	No	Yes
Embedded Websites within Display	No	Yes
PTZ Control	Yes	Yes
Redundancy Support (N+1, N-to-N)	Yes	Yes
Workstation, Web Client, Mobile Client	Yes	Yes
Display Layouts (maximum grid size)	225	225

Access Control Smart Server

Access Control Smart Server (ACSS) is an easy-to-use access control software for managing **employees and visitors access** through the doors and gates as well as managing **employee attendance**. (read more)

Core Function
Access Control Management Doors, gates, locks, identification of face*, card, ALPR*, tailgating* detection
Attendance Management Work shifts, clock-in, clock-out, late, absent
Visitor management Visitor enrollment for temporary access
Construction site management Temporary sites management
Food ordering management Conveniently manage the employee services
Conference room management Book the available meeting rooms in your company
Customer arrival management Track when the customers arrive to the appointments





ACTi Deep Learning AI Camera Product Line

Deep learning is a method in artificial intelligence (AI) that teaches computers to process data in a way that is inspired by the human brain. Deep learning models can recognize complex patterns in pictures, text, sounds, and other data to produce accurate insights and predictions.

Model	A426	A826	A952	A956	Q83
Photo					
Type	Zoom Bullet	Zoom Dome	Speed Dome	Speed Dome	Multi-Imager
Resolution	5MP	5MP	8MP	2MP	20MP
Lens	4.4x Zoom	4.4x Zoom	22x Zoom	40x Zoom	4 zoom lenses
Built-in Vehicle Related Analytics	Vehicle Counting, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Incorrect Direction Detection, Vehicle Loitering Detection, Vehicle Tracking, Stopped vehicle detection, License Plate Detection, Automatic License Plate Recognition				

A426 Government Installation

PMAX-0534

Pole Mount with Junction Box, supports 3.25" to 7.0" Poles

A426

5MP Zoom Bullet with D/N, Adaptive IR, Extreme WDR, SLLS, 4.4x Zoom Lens, **Deep Learning AI**

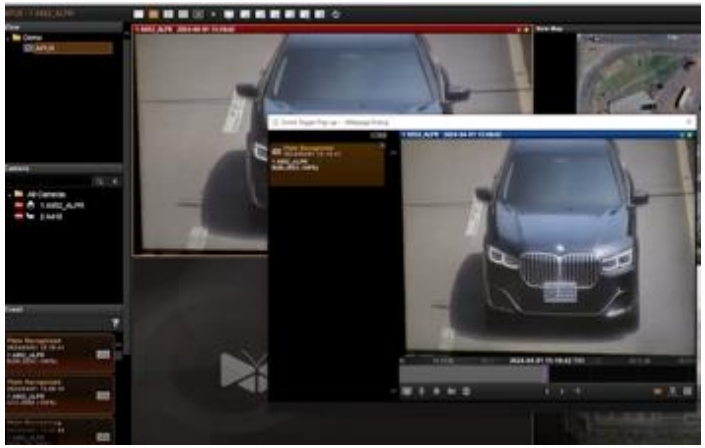
ALPR Camera (A426)

https://www.acti.com/video/v2902

The AI camera can recognize multiple license plates across multiple lanes at the same time.

WATCH THE VIDEO

ALPR Camera + NVR 3

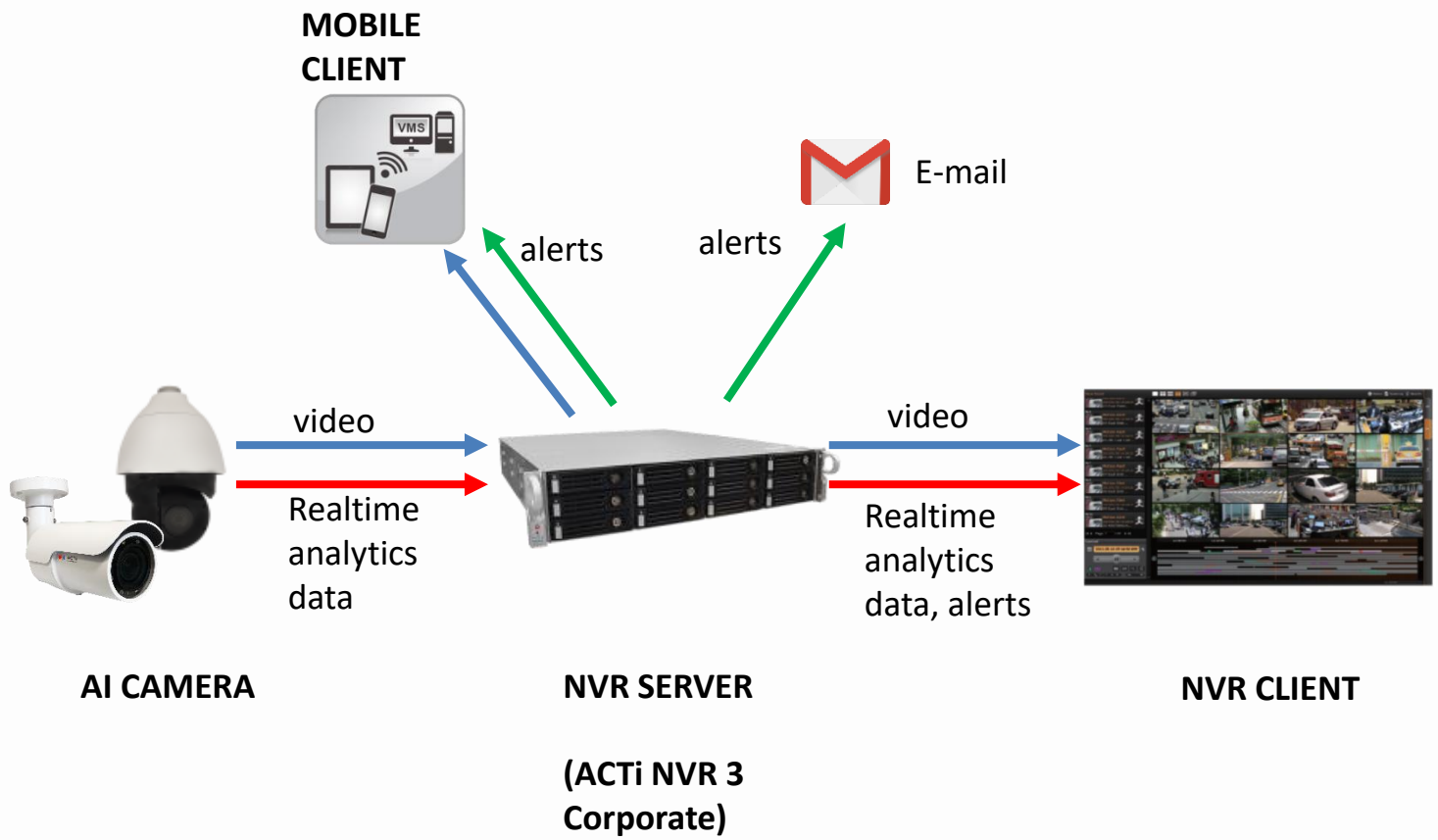


https://www.acti.com/video/v2904

ACTi NVR 3 supports the deep learning AI events and metadata. When the blacklisted vehicle is detected, the NVR will display instant alert.

WATCH THE VIDEO

ACTi AI Solution Architecture



ACTi Advantages compared to Server-Based AI Providers

- Hundreds of channels with deep learning analytics can be managed by a single VMS server, using just a common server hardware configuration. The Server-based AI solutions have limited number of channels and require very expensive hardware.

- VMS video recording functionality is much better secured when the VMS does not have the burden of running the analytics that may consume the server resource to its limits.

- Faster response to the events – AI cameras can control the other nearby PTZ cameras for instant response, to get better video coverage of the scene. The analyses that are processed on the VMS side will be too slow for proper response.

- Since the AI features are inside the camera, there are no Analytics related licenses required on the server side. Therefore, the cost of VMS in some cases is up to 10 times lower than the server-side AI solutions.

NVR and CMS Features

ACTi NVR 3 Corporate (and CMS 2) manages the analytics events from the cameras as follows:

1. Set up the analytic rules and thresholds – for example, how big is the crowd, how long time is considered loitering.

2. Receive real-time analytic events from all the cameras and respond by the pre-defined actions, such as send e-mail, instant pop-up of the video channel on the VMS screen and more.

3. Automatically push video to the mobile app of the patrolling security guards.

4. Search by the specific filter rules, bookmarks, thumbnails.

Where to Buy

Via Authorized Resellers

https://www.acti.com/Corporate/WhereToBuy

From ACTi Corporation Directly

E-Mail: sales@acti.com

Tel (US): +1-866-410-2284 (Toll Free)

Tel (Non-US): +886-2-2656-2588

Support & Services

Technical Support

- Online Customer Helpdesk - https://www.acti.com/chd
- Phone support

  US: +1-866-410-2284 (Toll Free)

  Other Regions: +886-2-2656-5200

RMA Services

- Warranty
- Repair services

Training

- Self-learning