

HIKVISION[®]

**ARC Solution
Introduction**



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What is ARC?

2

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Product Showcase

WHAT IS ARC?

Alarm Receiving Center

Basic Features:

- Professional alarm monitoring 24h x 7d
- Alarm verification by CCTV / Call
- Alarm response

Advanced Features:

- Virtual guard
- Remote Services/Concierge
- Tracking & Tracing Good / Truck / Car / Person
- Stolen Vehicle Tracking



WHAT IS ARC?

ALARM MONITORING



CCTV SURVEILLANCE



REMOTE ACCESS CONTROL



ASSET & VEHICLE MONITORING



LONE WORKER



RAPID DEPLOYMENT SURVEILLANCE



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HIKVISION ARC INTEGRATIONS

ARC software and their supported integration methods

	SDK Integration	Hik-ProConnect	Hik-ProConnect + IP Receive Pro	HCP ARC gateway plugin
	Direct Connection	Cloud Integration Solution	Cloud Solution with an Intermediate Software	HCP Solution for pure Hikvision system
Sentinel	✓	✓	✓	<i>In Progress</i>
Immix	✓	<i>In Progress</i>		
bold	✓			
Patriot	✓			
manitou	✓		✓	✓
Transpeye	✓	✓		
Webeye	✓			
Mastermind			✓	
SOFTGUARD			✓	
OWNER			✓	
SBN			✓	
HYBRID			✓	
MicroKey			✓	
Insocam				✓



HIKVISION ARC INTEGRATIONS

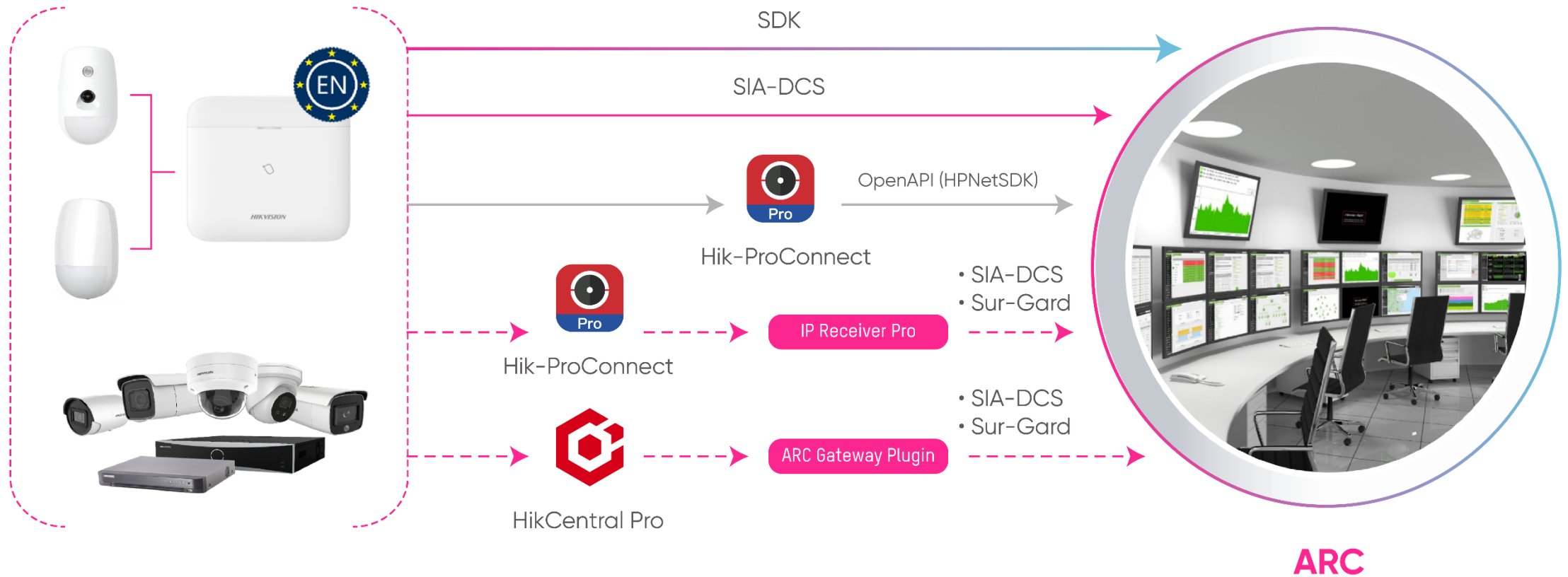
Integration Methods:

SDK

Hik-ProConnect

IP Receive Pro

HCP ARC Gateway Plugin



HIKVISION ARC INTEGRATIONS

The screenshot shows the Hikvision Configuration page with the 'Email' tab selected. The configuration fields are as follows:

- Sender: monitor@test.com
- Sender's Address: monitor@test.com
- SMTP Server: [Redacted]
- SMTP Port: 8026
- E-mail Encryption: None
- Attached Image:
- Interval: 3
- Authentication:
- User Name: [Redacted]
- Password: [Redacted]
- Confirm: [Redacted]

Below the fields is a 'Receiver' table with 3 rows:

No.	Receiver	Receiver's Address	Test
1	[Redacted]	[Redacted]	Test
2	[Redacted]	[Redacted]	Test
3	[Redacted]	[Redacted]	Test

A 'Save' button is located at the bottom of the configuration area.

The screenshot shows the Monitor Computer Systems Demo Portal. The page includes a header with the 'MONITOR' logo, the text 'Monitor Computer Systems Demo Portal', and navigation links for 'Options', 'Help', and 'Logout'. The user is identified as 'Peter Ma' with a 'Session Status: Active'.

The main content area features a welcome message: 'Welcome to the Monitor Computer Systems Ltd. Demo Portal' and a prompt to 'Please select the service below you wish to connect to.' A support email address, support@monitorsoft.com, is provided for reporting issues.

Below the text are four tabs: 'All Bookmarks', 'File Transfer', 'Remote Desktop', and 'URL Links'. The 'File Transfer' tab is active, displaying a list of services:

- File Transfer (File Transfer)
- Sentinel Plus - Demo (ActiveX) (Sentinel Plus - Demo)
- Sentinel Plus - Demo (Java) (Sentinel Plus - Demo Java)
- Sentinel Plus - Dev (ActiveX) (Sentinel Plus - Dev)
- Sentinel Plus - Dev (Java) (Sentinel Plus - Dev (Java))
- Sentinel Web - Demo (Sentinel Web - Demo)

SDK Integration

Direct integration between Hikvision security devices and AMS. The customer can just login Hikvision standard DVR/NVR/IP camera to configure email, once the event/alarm is triggered, the notification as well as 3 photos can be uploaded to the arc platform directly, and the customer can do some actions accordingly.

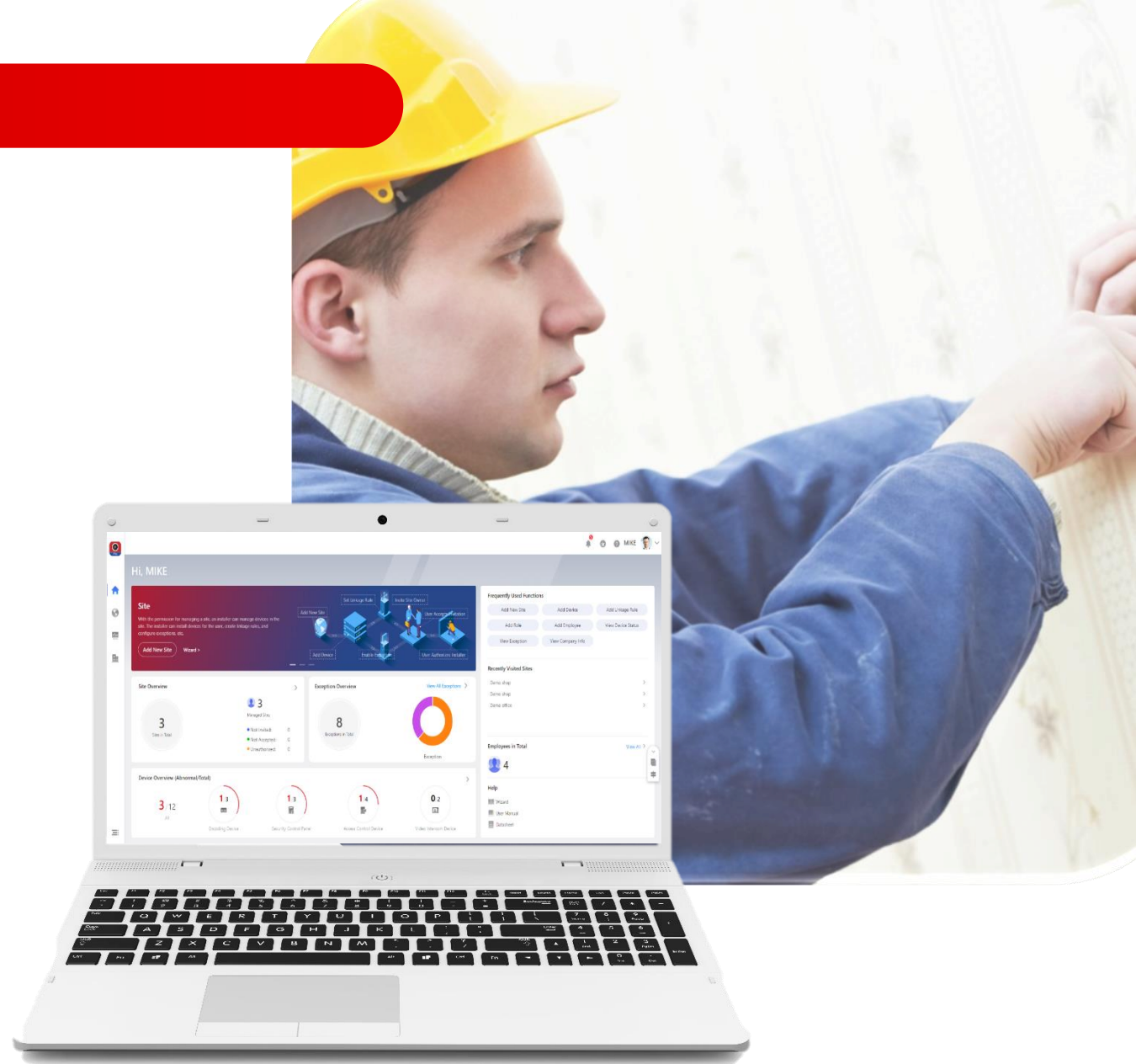
HIKVISION ARC INTEGRATIONS

Hik-ProConnect

Hik-ProConnect is an online device & service management platform for installers. It supports remote installation of alarm devices and other Hikvision devices from anywhere in the world.

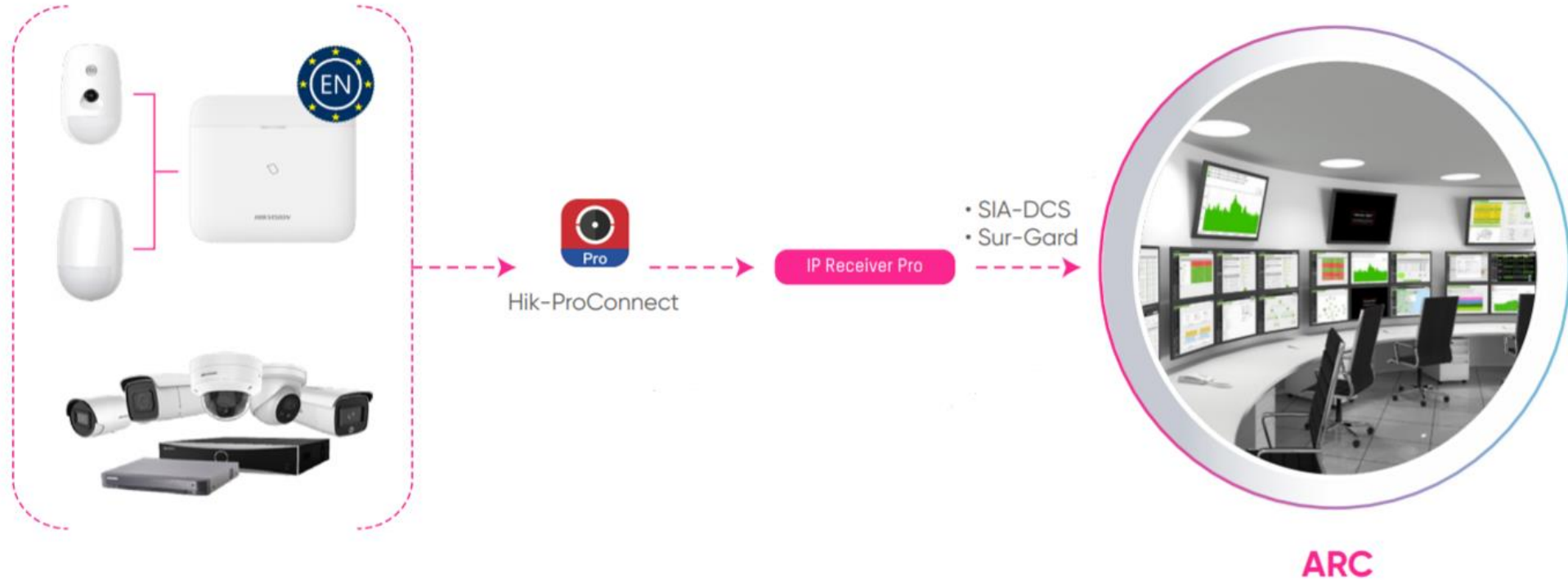
In order to achieve more advanced features, Hik-ProConnect provides OpenAPI for ARC integration. Using this method, all Hik-ProConnect-compatible devices are supported by the integrated AMS, and device features are automatically inherited for further processing.

AX PRO alarm notification as well as video verification from the PIR camera or CCTV images can be sent to ARC centre.



Highly Professional & Secure

HIKVISION ARC INTEGRATIONS

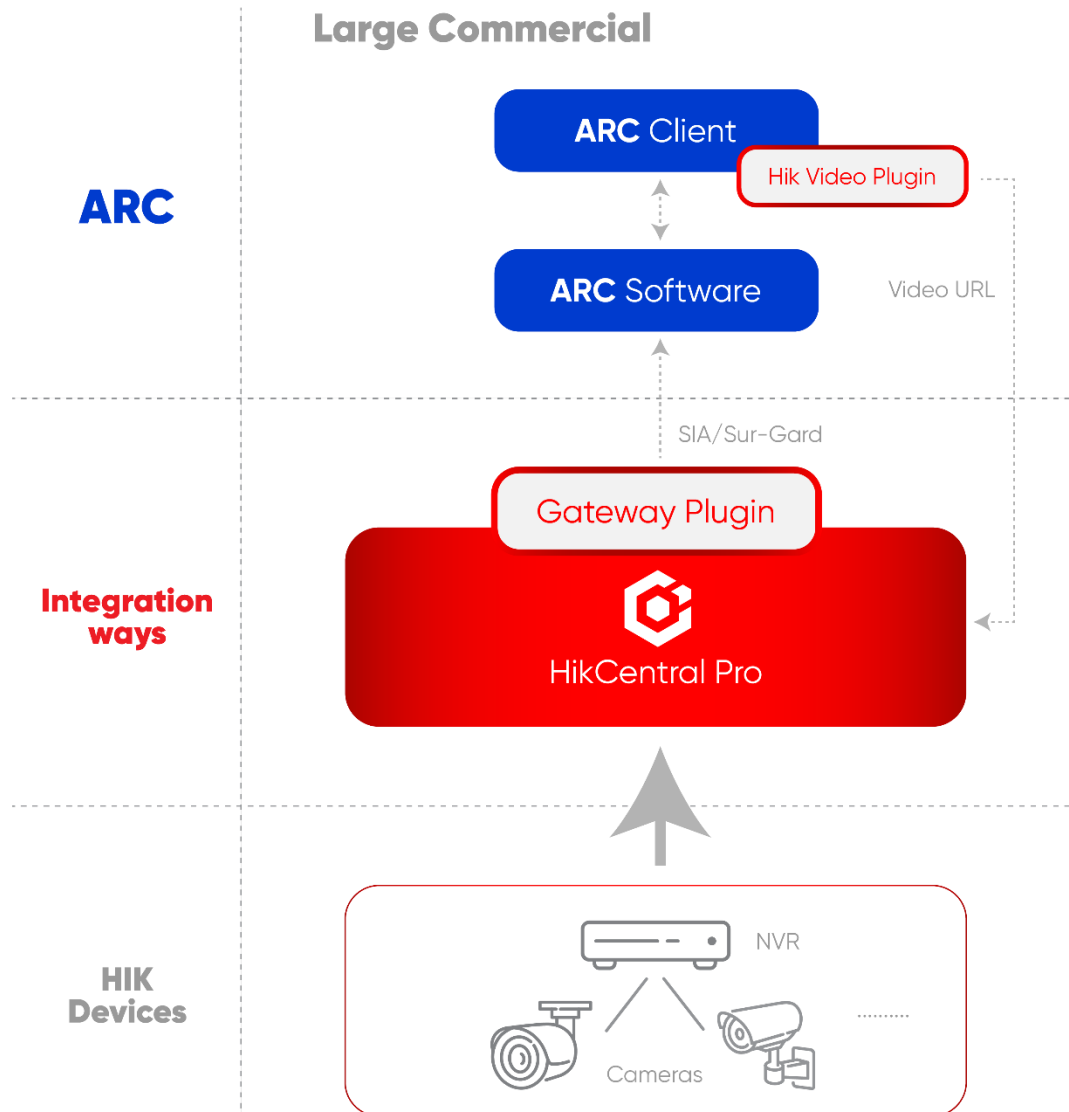


IP Receive Pro

IP Receive Pro is an intermediate software to connect Hik-ProConnect security systems to ARC software, in case that the ARC software cannot directly integrate with Hik-ProConnect.

It supports the same functions as the Hik-ProConnect integration, so the IP Receive Pro will send alarm photo verifications with the alarm alert when AX PRO system gets triggered.

HIKVISION ARC INTEGRATIONS



HCP ARC Gateway Plugin

For the customers who have selected Hikvision as their main/only manufacture, HikCentral ARC Gateway Plugin Solution would be a good choice.

Once the development between the gateway plugin and the AMS is done, it would be a Plug & Play ways for ARC, with a few configurations.

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Hikvision ARC Relevant Solutions

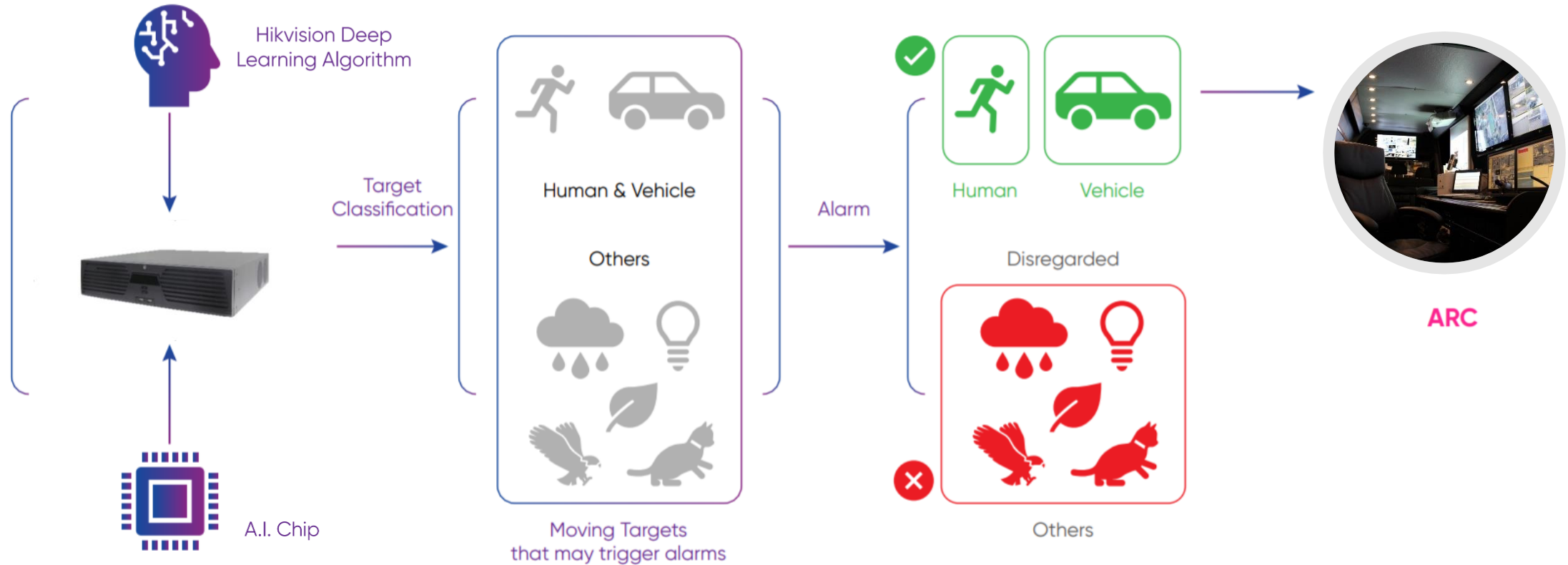
DeepinMind NVR | HeatPro Thermal Camera | 4G Solar Kit | AX Pro Series | HCP ARC Gateway Plugin
| HCP ARC Module



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Product Showcase

HIKVISION ARC RELEVANT SOLUTIONS



DeepinMind NVR: Accurate alarm through Deep Learning algorithm

Based on deep learning algorithms, the DeepinMind NVR detects targets and classifies them into human, vehicle and others. Only the human/vehicle related alarm will be sent to the ARC centre. It helps to reduce false alarms for users up to 90%.

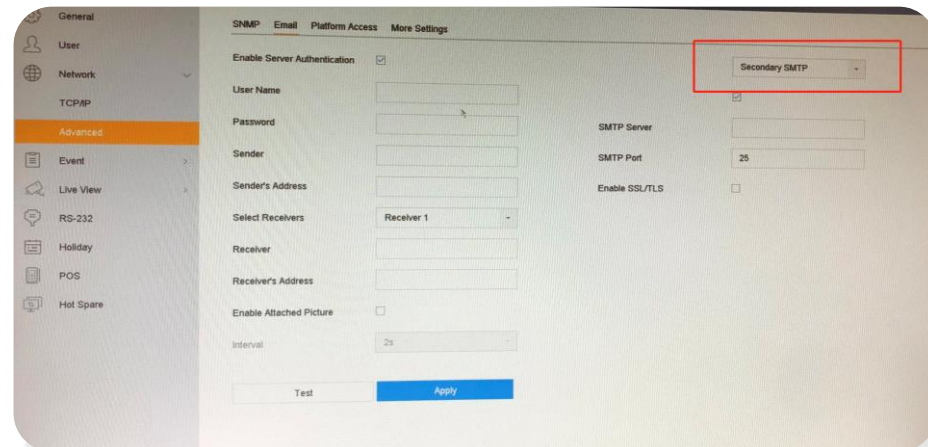
HIKVISION ARC RELEVANT SOLUTIONS

DeepinMind NVR: Features for ARC solution

- 3 snapshots sent to ARC: Target bounding box; 1080p; Time interval 2,3,4,5s configurable.



- Dual SMTP backup: Spare SMTP server starts to work when main SMTP server fails, ensuring the connection between DeepinMind and ARC.

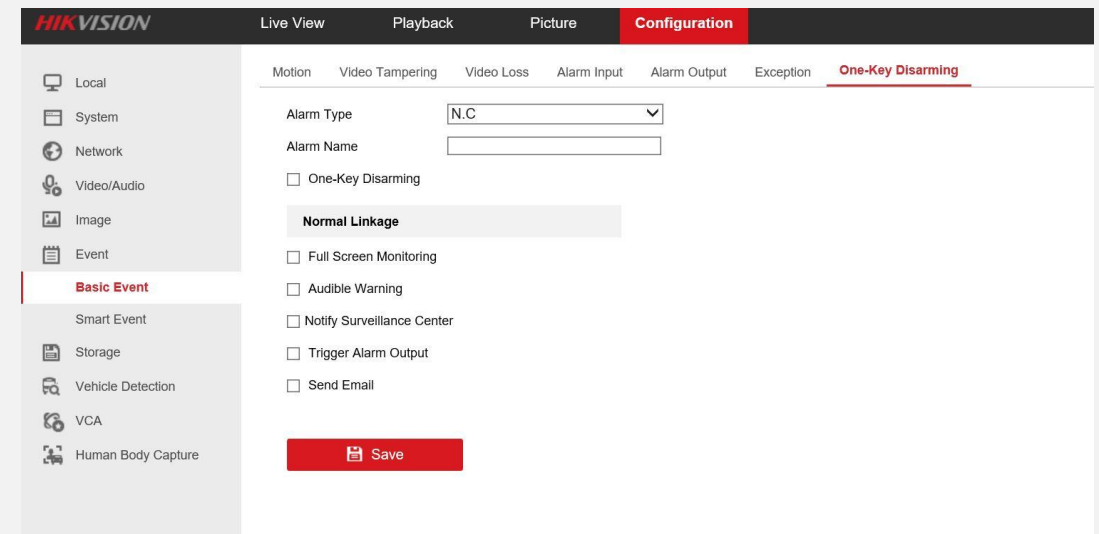


HIKVISION ARC RELEVANT SOLUTIONS

DeepinMind NVR: Features for ARC solution

DS1901I

Alarm Expansion Module



- Compatible with alarm expansion module:
Supports more alarm in/out.

- Remote Arm/Disarm: Use webpage OR local alarm input 1 to arm/disarm the system.

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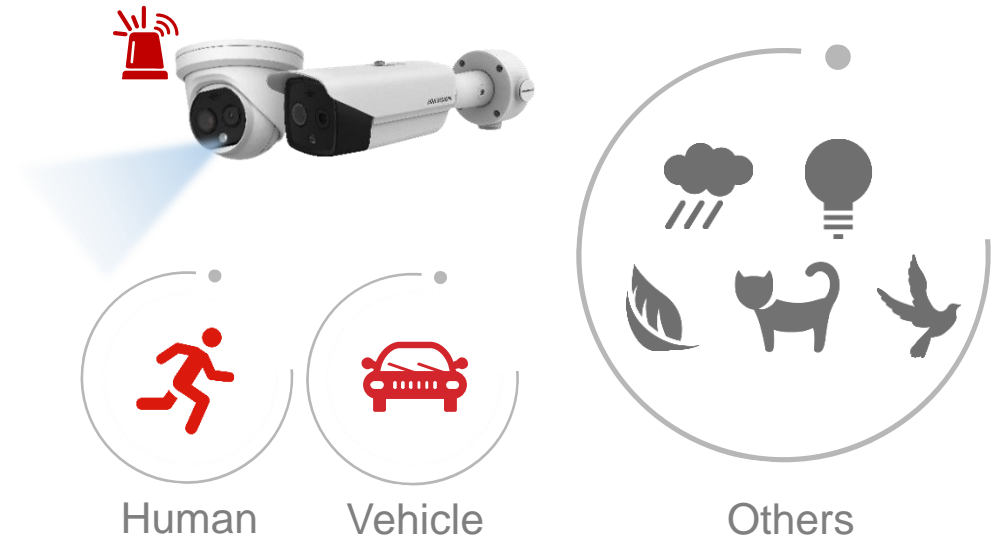
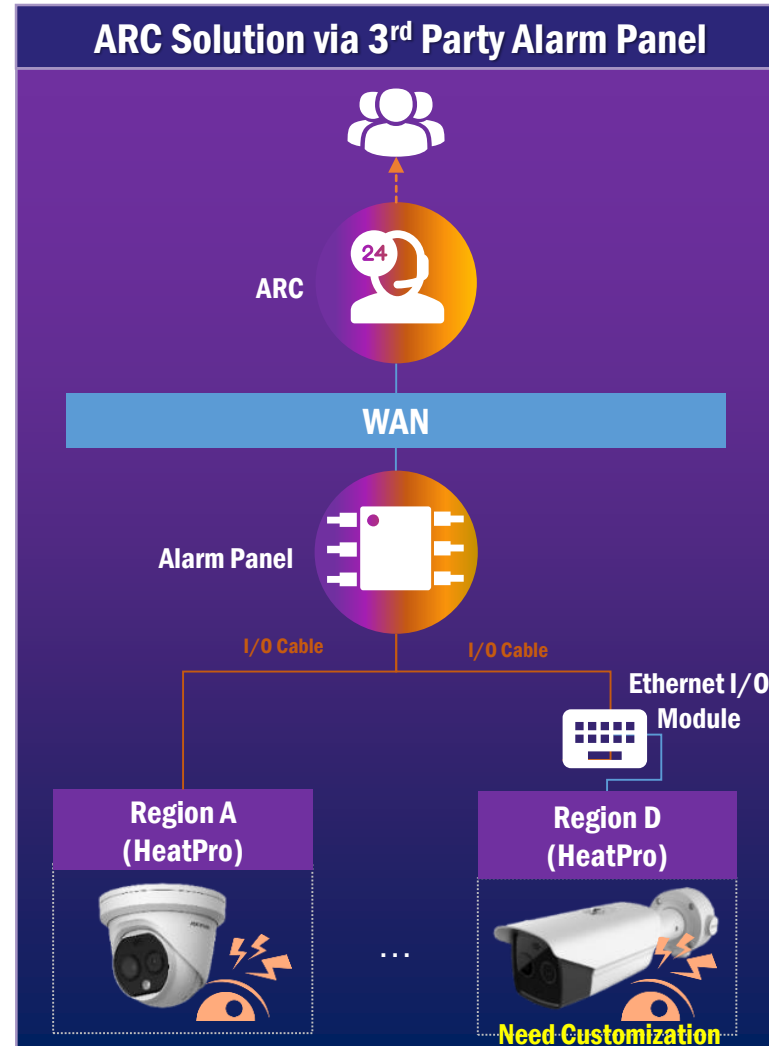
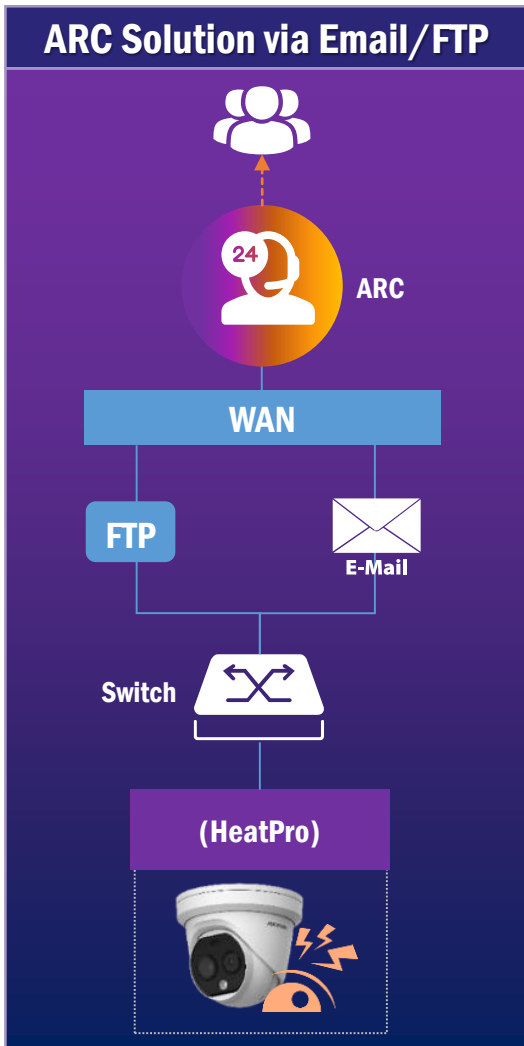


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Product Showcase

HIKVISION ARC RELEVANT SOLUTIONS

HeatPro Thermal Camera: Affordable thermal solution, for both Perimeter & Fire Prevention



- ✓ Human and Vehicle Classification
- ✓ Bi-spectrum video verification with 4MP optical lens.
- ✓ Can send thermal images only for privacy protection
- ✓ Instant warning with built-in strobe light and siren

HIKVISION ARC RELEVANT SOLUTIONS

Alarm accuracy improved compared to conventional optical cameras

■ Superior environmental adaptability

Thermal cameras rely on objects' thermal radiation, which are capable of capturing images all day and night, regardless of environmental factors such as darkness, lowlight, strong backlight, etc.



■ Better vision and concealment

Thermal camera can easily discover objects and potential risks that hardly visible to conventional cameras. It does not have to actively radiate IR light, resulting in a good concealment.



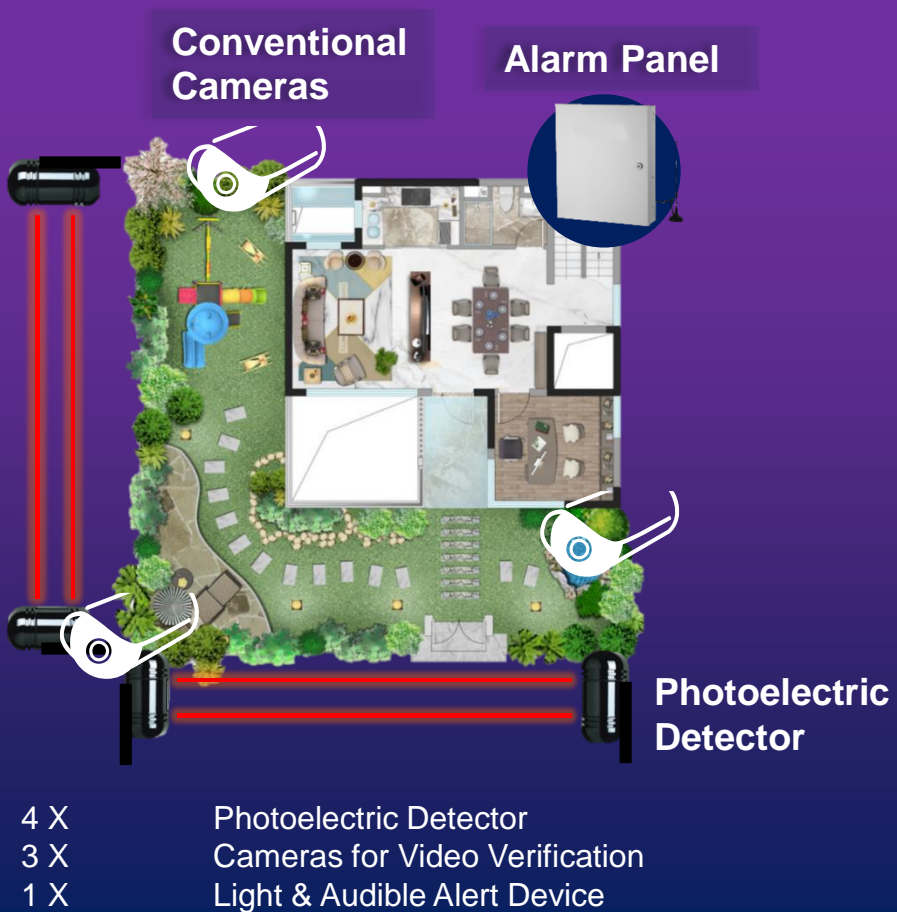
■ More accurate alarms

Powerful perimeter protection analysis is based on **deep learning algorithm**, which can classify human/vehicle, providing high alarm accuracy and reduces false alarms.



HIKVISION ARC RELEVANT SOLUTIONS

HeatPro Thermal Solution - A New Outdoor Detector for the Alarm System



HeatPro

2mm Turret, 90° covered, up to 16 meters

Less Site
Low Labor Cost

ARC High VCA accuracy
Low Labor Cost

First Choice for Residential Scenarios

This section highlights the benefits of the HeatPro solution. It includes the HeatPro logo, a photograph of the camera, and three key advantages: a 2mm turret lens providing 90-degree coverage up to 16 meters; reduced site requirements and lower labor costs; and ARC (Advanced Radar Clutter Rejection) technology for high VCA accuracy and low labor costs. The final point is that it is the first choice for residential scenarios.

HIKVISION ARC RELEVANT SOLUTIONS

HeatPro Thermal Solution - Mobile Monitoring Trailer for Construction Site

Pain Points



Risk of Human Safety



No Light during Night



High-Value
Property Lost



Schedule Delay



Hard for Wiring &
Construction



Mobile Monitoring trailer

- Flexible installation
- Accurate VCA with human/vehicle classification
- Temperature exception, on solution for perimeter and fire prevention
- No need for extra light supplement

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HCP ARC Module



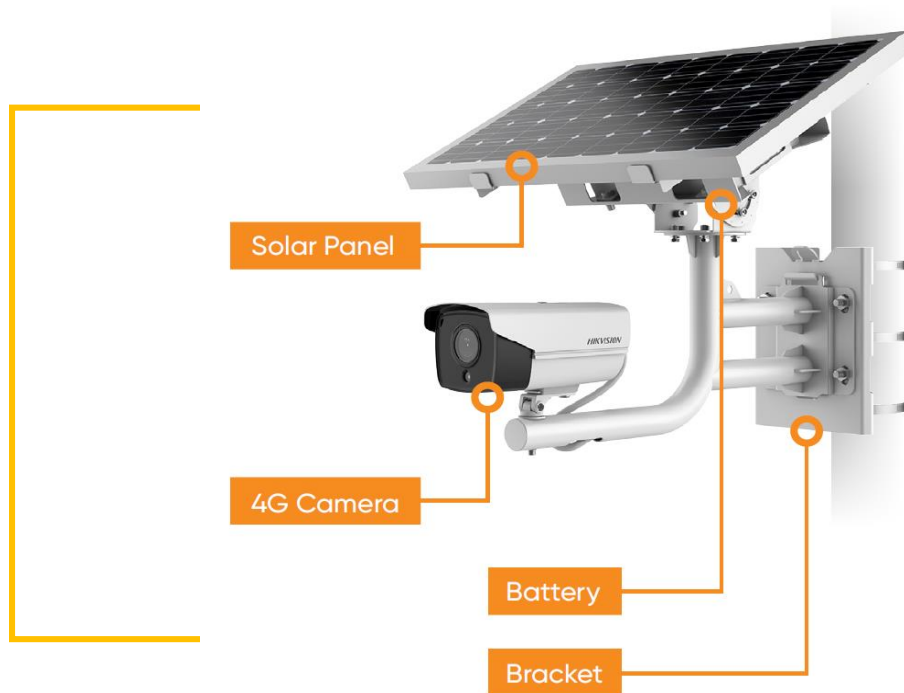
4

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HIKVISION ARC RELEVANT SOLUTIONS

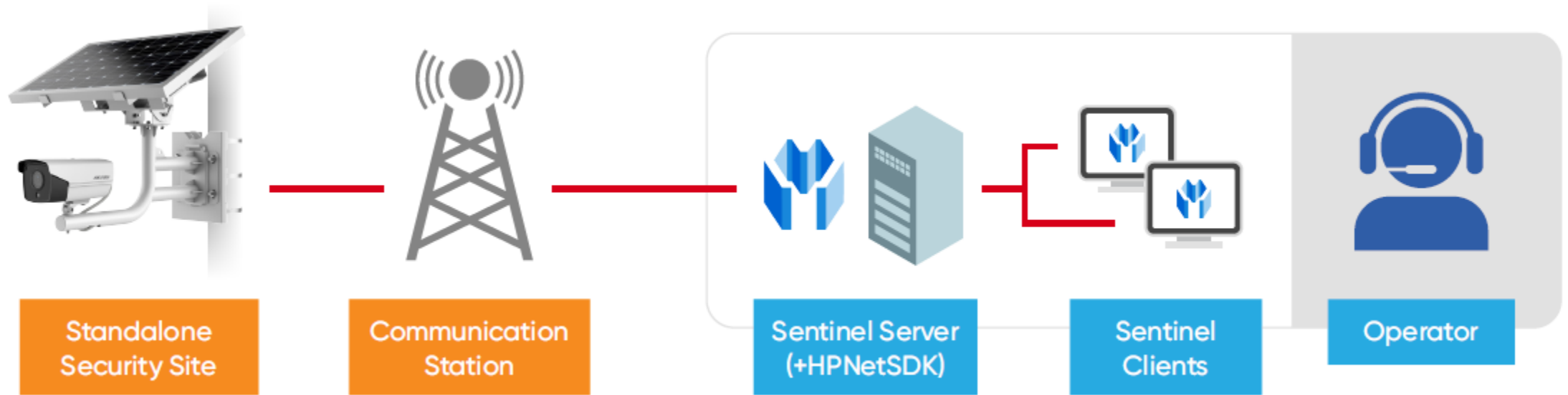
4G Solar Kit: Innovative remote site monitoring

Hikvision standalone security site can realize one-stop monitoring in the remote environment without power and network, such as a temporary monitoring of construction sites.



- It is powered by **solar energy**, which transmits video to surveillance center through **4G**. It is a good choice in the environment without electricity and network.
- In order to ensure long endurance, standalone security site can detect the power and automatically adjust to **power-saving mode** when the power is low.

HIKVISION ARC RELEVANT SOLUTIONS



Fully compatibility with Sentinel

- The 4G Solar Camera is fully compatible with Sentinel platform now, supported functions:
Live view | **Playback** | **Event Alarm**
- 3 event pictures are sent to Sentinel platform via 4G, for quick event verification with low data consumption.
- Quick and easy connection to a site with Sentinel.

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HIKVISION ARC RELEVANT SOLUTIONS

AX PRO: Accurate alarm from the detectors and double checked by the alarm panel

Passive Infrared Sensor: Detect the temperature difference between human body and background objects.

Microwave Sensor: Using 24Ghz (K-band) Doppler effect to detect speed of movement, distance and motion.

Other Technology like: Dual Tech Detector, Digital Temperature Compensation, IFT Technology etc.



Prevent false alarm through Professional intruder features, giving more reliability, and enhanced security.
e.g. Cross Zone, Double Knock.

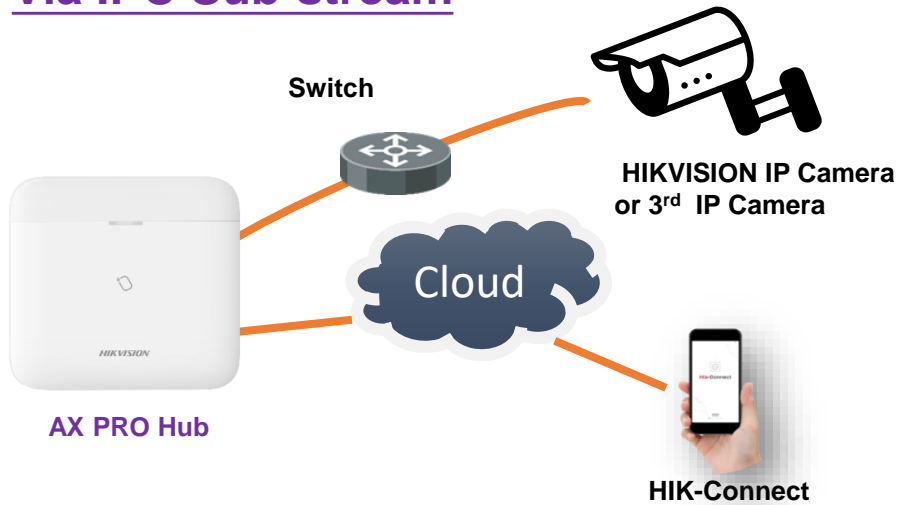
Double Knock: the zone will send alert to Panel if it's triggered twice within set time.

Cross Zone: could link with another zone, only when both of the two zones are triggered simultaneously, it will send alert to Control Panel.

HIKVISION ARC RELEVANT SOLUTIONS

Snapshot/Video clips for verification

Via IPC Sub-stream



Onboard video clips for verification

Supports both Hikvision IPC & other 3rd party IPC.

For customers with their private cloud and APP, we can also provide open API for integration.

- **Up to 4** IPC connect directly with panel.
- **7** Seconds video delivery to the mail or Hik-Connect.

Via PIRCAM

(PIR detector with a photo camera to verify alarms)



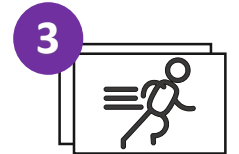
- View snapshots of activations to verify alarms with our PIRCAM.
- Alert you even before the intruders realize that they're exposed.
- A series of photos will be sent to your Hik-Connect app and to the ARC.



Motion detected

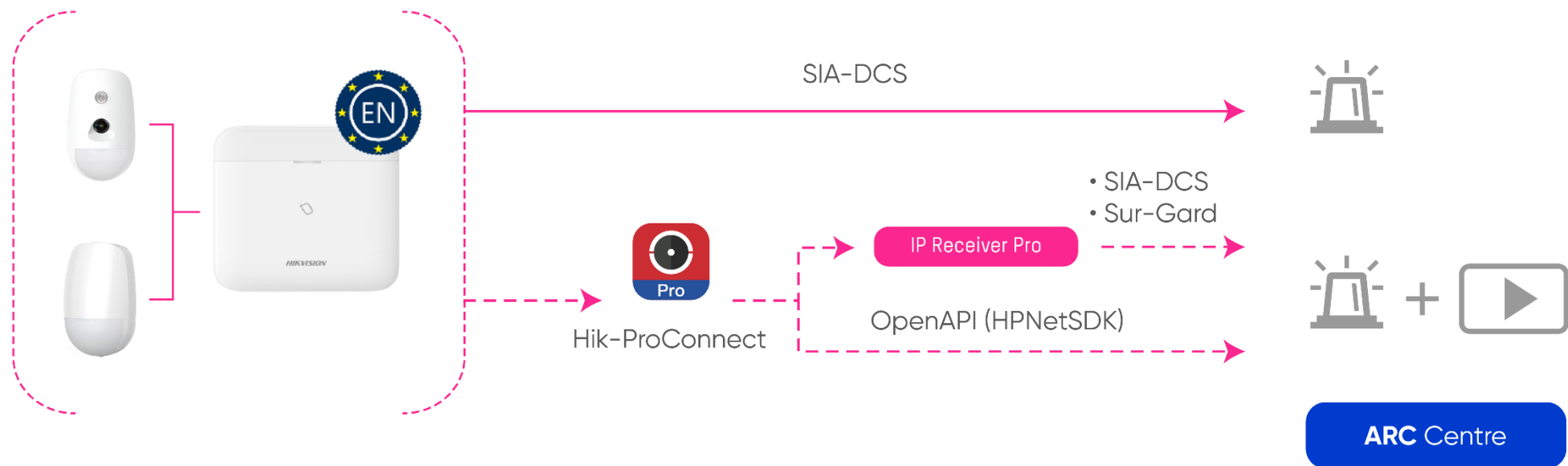


Alarm Triggered



Motion captured

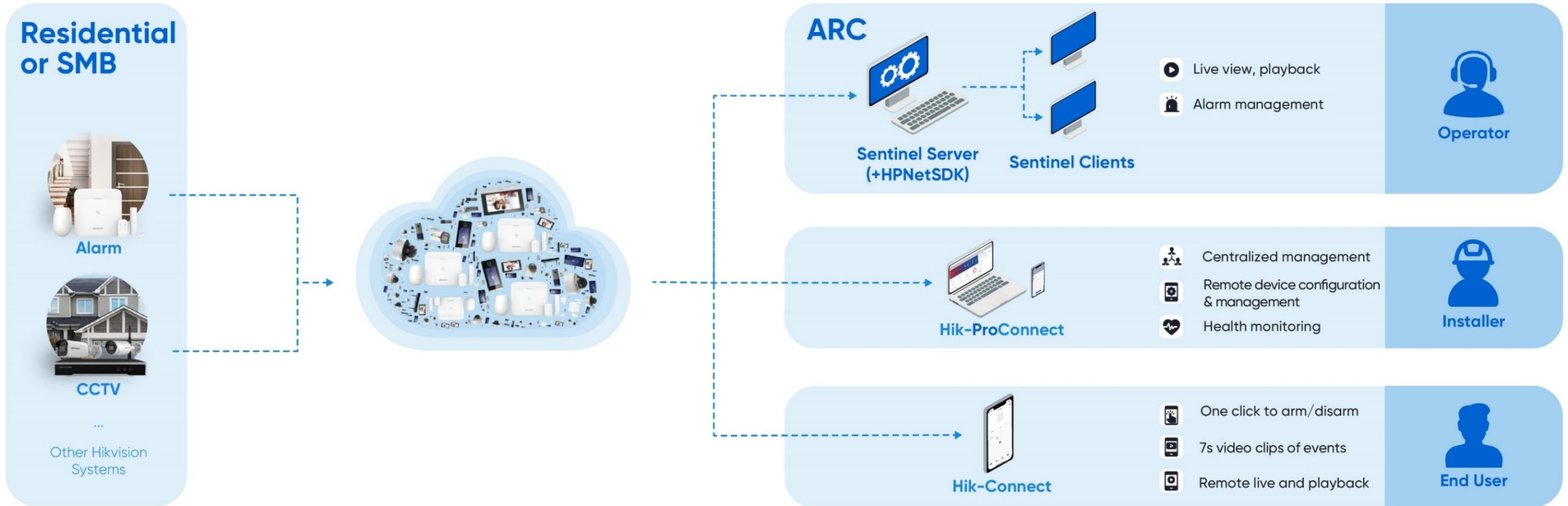
HIKVISION ARC RELEVANT SOLUTIONS



Direct Linkage: SIA DC09. Only alarm signals sent to the ARC centre.

Hik-ProConnect: Alarm visual verification sent as well for more reliable accurate security system.

HIKVISION ARC RELEVANT SOLUTIONS



Successful Case

Monitor Computer Systems Ltd. has integrated its Sentinel Software with the Hik-ProConnect, providing a convenient way for ARCs and systems integrators to install and operate Hikvision security devices in Sentinel systems.

We have many ARC companies already registered and gave a mandate to Hik-ProConnect. Listed on Hik-ProConnect, their brand awareness can be promoted.

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HIKVISION ARC RELEVANT SOLUTIONS



- This solution could extend to more Hikvision devices, like Access Control, Intercom etc.



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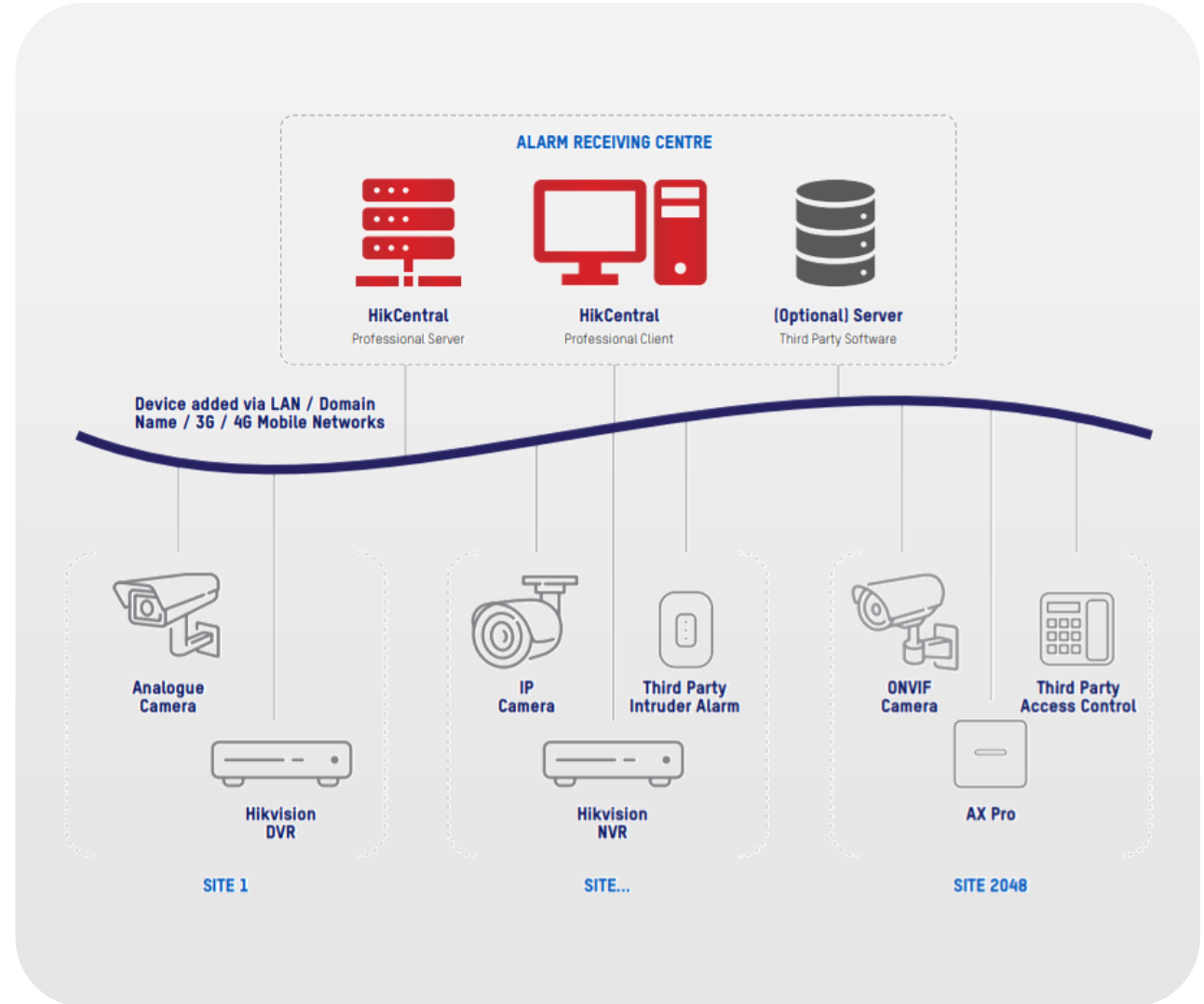
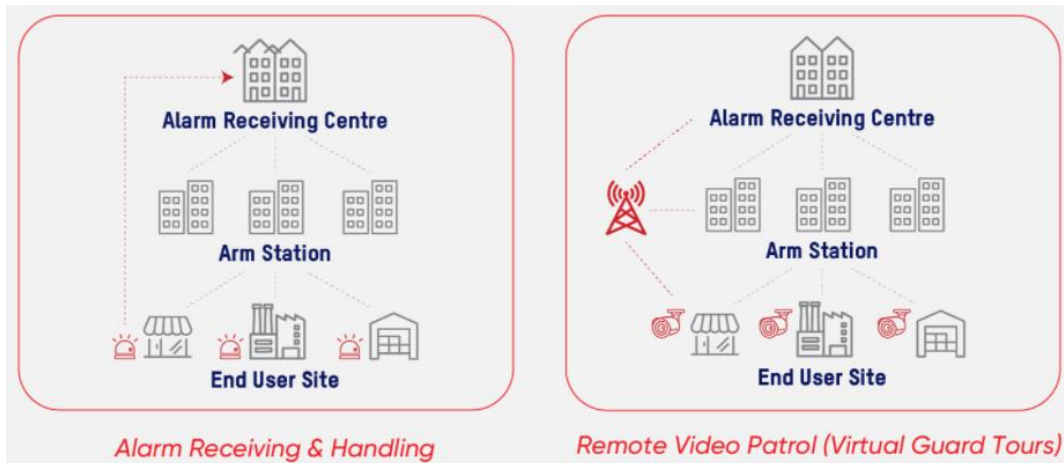
Product Showcase

HIKVISION ARC RELEVANT SOLUTIONS

HCP ARC Module

HikCentral Professional provides a dedicated ARC solution for customers according to their project requirements and service agreements with end users.

The solution is primarily comprised of two parts which are dependent on their relevant software license level: Alarm Receiving & Handling; and Remote Video Patrol (also known as virtual guard tours).



HIKVISION ARC RELEVANT SOLUTIONS

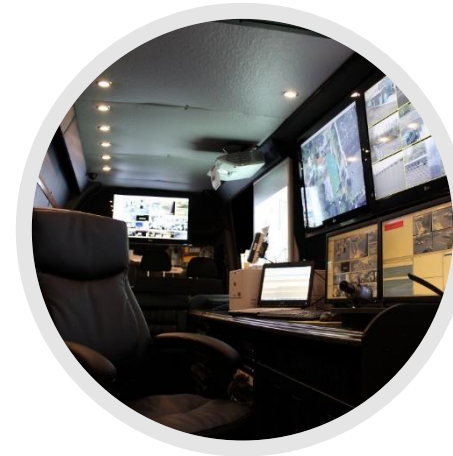
HCP ARC Module: Alarm Receiving & Handling

- **Easy Device Connection and Viewing**

Multiple device adding methods: ISUP by 3G/4G mobile networks; Domain name by DDNS; LAN IP address.

Low/unstable bandwidth support: Frame Extracting Playback; Transcoding Playback; Smooth Stream.

HikCentral with **static IP**

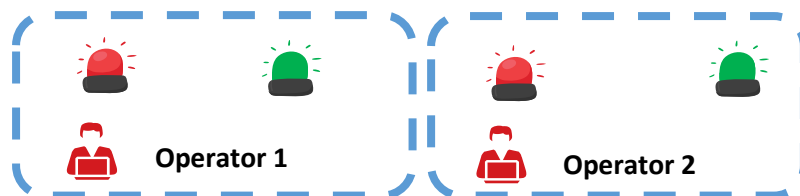


Devices without Static IP



- **Multiple Alarm Distribution Modes**

Average Distribution Mode



According to the alarm triggering time shown above, alarms averagely distributed to each operator so they handle the same number of alarms.

Site Pre-empt Mode



When handling the first alarm from Site A, the operator 1 will receive all following alarms from the same site. Meanwhile, the site will be temporarily locked so that only the current operator can handle the alarms.

HIKVISION ARC RELEVANT SOLUTIONS

HCP ARC Module: Alarm Receiving & Handling

Alarm View and Aggregation

Alarm View: automatically displaying the alarm related video and showing the number of the same alarm repeatedly triggered during pre-configured duration.

Alarm Aggregation: display number of alarm repeatedly triggered during pre-configured duration, as well as video and map of alarm.

Alarm Information

Queue-Motion Detection

Alarm Status: Stop, Unacknowledged

Alarm Priority: High

Alarm Category: To Be Verified

Remark:

SOP_Area One

'Second': Call 1234567

Confirm Info: admin 'Called'

Save

Previous Next

Picture

08/23/2018 Thu 01:00:40

Region1:1
Region2:3

Camera 01

Previous Next Alarm Forward Acknowledge

Alarm Receiver Center Unacknowledged: 4

Alarm Name	Alarm...	Alarm Time (Clic...	Source	Region	Triggering Event/Alarm	Alarm St...	Count	Operation
Camera 01_1c	High	2021/01/27 14:05:20	Camera 01_10.19.8...	10.19.82.62	Video Tampering Detecti...	Stop	1	
Camera 01_1c	High	2021/01/27 11:22:01	Camera 01_10.19.8...	10.19.82.62	Video Tampering Detecti...	Stop	2	
Camera 01_1c	High	2021/01/27 11:18:55	Camera 01_10.19.8...	10.19.82.62	Video Tampering Detecti...	Stop	1	
Camera 01_1c	High	2021/01/27 11:14:00	Camera 01_10.19.8...	10.19.82.62	Video Tampering Detecti...	Stop	4	

Related Video & Picture

Map

Paperless Alarm Handling SOP and Forwarding

Alarm SOP: supervisor designs flexible SOP according to end user sites characteristics.

Operator handles alarms step by step.

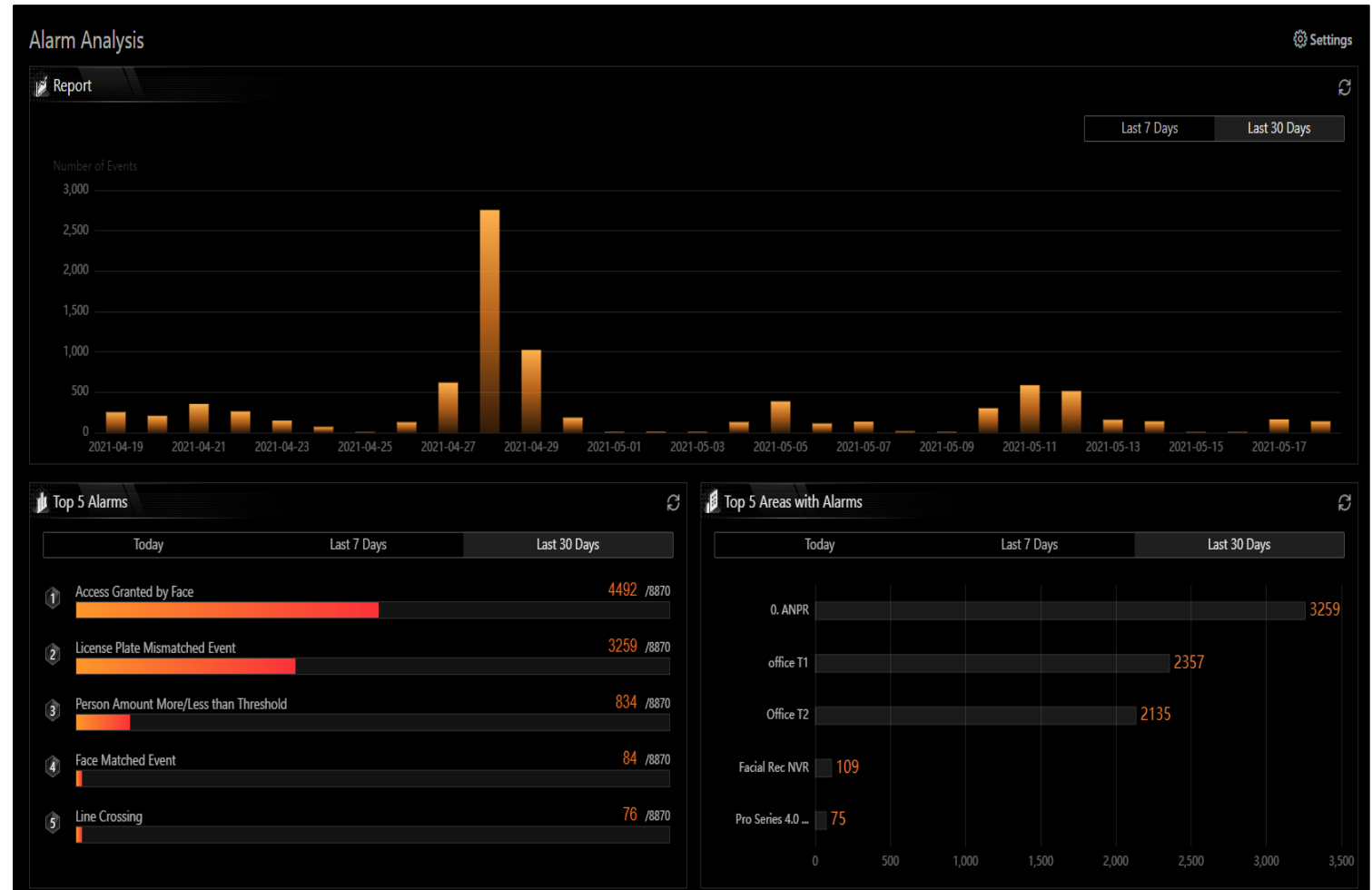
Full audit trail of alarm handling process.

Alarm can be forwarded to other online users for further processing.

HIKVISION ARC RELEVANT SOLUTIONS

HCP ARC Module: Alarm Receiving & Handling

- **Operator Working Efficiency Statistics**
 - Average Acknowledgement Time Report.
 - Different Alarm User Report.
- **Alarm Type & Status Statistics for Each Site**
 - Alarm Type Ratio Report.
 - Different Alarm Type Report.
- **Alarm Analysis Overview**
 - Total number of alarm sent to ARC during last 7 days or 30 days;
 - Top 5 alarm types occurred today or during last 7 or 30 days;
 - Top 5 sites with alarms triggered today or during last 7 or 30 days.



HIKVISION ARC RELEVANT SOLUTIONS

HCP ARC Module: Remote Video Patrol

- **Customized Patrol SOP for Different Sites**

Support configuring site name, address, contact information and hyperlink of other system/CRM for operator viewing.

- **Patrol Task Configuration & Allocation**

Mandatory Mode which requires operator to view each camera for a certain time (preconfigured by minimum patrol time on each camera) before finishing the task

Sweeping Mode which allows the operator finish the task after having a sweeping glance of all cameras.

- **Patrol Task List**

Patrol task automatically displayed on Control Client for operator when it's in the patrol time.

The screenshot shows the HIKCentral Professional Web Client interface. On the left, there is a sidebar with 'Patrol Site' and 'Patrol Task' sections. The main area is titled 'Patrol SOP' and contains a table with columns for 'Sequence', 'Name', and 'Operation'. The table lists three sequences: 1 (Open), 2 (Close), and 3 (Leave). To the right of the table, there are filter options for 'User Name' (set to 'bb'), 'Time Range' (2021-01-15 00:00:00 to 2021-01-15 23:59:59), and 'Patrol Result' (set to 'All'). Below the filters is a table of results with columns for 'User Name', 'Handling Time', 'Patrol Result', and 'Details'. The results table shows several entries for user 'bb' with various handling times and results, including 'Normal' and 'Abnormal'.

The screenshot shows the Remote Video Patrols-Surveillance interface. The main area is titled 'Patrol Task List' and contains a table with columns for 'Task Name', 'Site Name', 'Patrol Time', and 'Task Status'. The table lists various tasks such as 'task5555', 'task38', 'task31', 'task32', 'task34', 'task35', 'task36', 'task37', 'task31', 'task32', 'task34', 'task35', 'task36', 'task37', 'task31', 'task32', 'task34', 'task35', 'task36', 'task37', 'task31', 'task32', 'task34'. The 'Task Status' column shows icons for each task, with one icon (a padlock) highlighted by a red box.

HIKVISION ARC RELEVANT SOLUTIONS

HCP ARC Module: Remote Video Patrol

Task in Mandatory Mode

Progress bar available on top when put cursor on the image, so as to indicate the current patrol status for each camera.

Mark the patrol result for each camera by simply clicking green icon for **Normal** or red icon for **Abnormal**.

Task in Sweeping Mode

Not requiring minimum patrol time for each camera.

Finish button automatically turns to clickable only after all cameras have been viewed.

The screenshot shows the 'Patrol Task Detail' window for 'task5555'. On the left, a sidebar contains the task description, SOP (Open, Close, Leave), contact information (Xiong Max, Shen Yang), and a remark field. The main area displays a 3D map of the patrol route and a grid of camera feeds. A progress bar at the top indicates 100% completion. A red box highlights a camera feed showing a person at a desk with a green checkmark icon, indicating a normal patrol result. A 'Finish' button is visible at the bottom left.

The screenshot shows the 'Patrol Task Detail' window for 'task32'. The sidebar contains the task description, SOP (Open, Close, Leave, rtrr), contact information (Xiong Max, Shen Yang), and a remark field. The main area displays a 3D map of the patrol route and a grid of camera feeds. A 'Finish' button is visible at the bottom left, and a 'Comment' button is visible at the bottom center. A red box highlights the 'Comment' button. A '1/4' indicator is visible at the bottom right.

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PRODUCT SHOWCASE

Hikvision DeepinMind NVR

NVS



iDS-6716NXI-I/S(C)

NVR



iDS-77xxNXI-I4/16P/X(C)
iDS-96xxNXI-I8/X(C)

Super NVR



iDS-96064NXI-I16(C)
iDS-96128NXI-I16(C)
iDS-96128NXI-I24(C)

HeatPro Thermal Camera

Turret



DS-2TD1217-2/3/6 PA

Bullet



DS-2TD2617-3/6/10 PA

4G Solar Kit



DS-2XS6A87G1-L/C32S80



DS-2FSC30

PRODUCT SHOWCASE

AX PRO Alarm Series

AX PRO Hub



DS-PWA64-L-WE
DS-PWA96-M-WE

PIR Detector



DS-PDPC12P-EG2-WE

Other Peripherals



PIR Detector



Smoke
Detector



Temperature &
Humidity Detector



Smart Plug



Relay



Repeater

PRODUCT SHOWCASE

HCP ARC Module

Software: HikCentral Professional *(based on v2.0.1)*

- Flexible, scalable, reliable and powerful central surveillance system.
- Supports live view, playback, access control, video intercom, visitor management, vehicle entrance and exit management, alarm management, personnel identification, BI dashboard, people counting report.
- Third Party system integration via OpenAPI or Optimus, a middleware product from Hikvision.
- **VSaaS plugin** dedicated for alarm receiving and handling
- **Remote Video Patrol plugin** dedicated for virtual guard tour



License 1: HikCentral-P-ARC-VSaaS-Module

- **For alarm receiving and handling scenarios**
- Enhanced alarm center with SOP, alarm reports, alarm escalation, diverse alarm distribution modes to multiple operators, dedicated alarm view window to display alarm video

License 2: HikCentral-P-RemoteVideoPatrols-Module

- **For remote video patrol scenarios**
- Scheduled remote security patrol via cameras, with patrol SOP, records, etc.

Note: Other license might be also required according to specific project requirements, such as channel license, smart wall, Optimus license, etc.

THANK YOU!