

2018

Alarm Product Operation

PRESENTED BY **HIKVISION** ALARM DEPARTMENT



Training Objectives

- Get familiar with wiring of Alarm Product
- Get familiar with configuration of Alarm Product

Product



AX HUB

Video verification, Delivering Change



Security Radar

All weather monitoring, superb linkage and tracking



Emergency Alarm

Quick Response to Security needs

PART

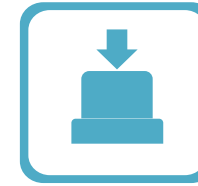
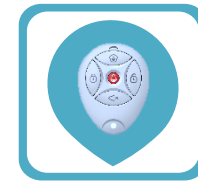
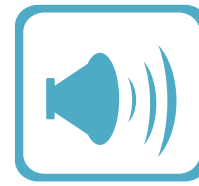
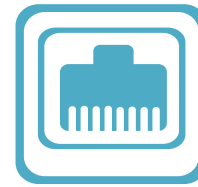
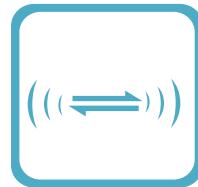
1

AX HUB

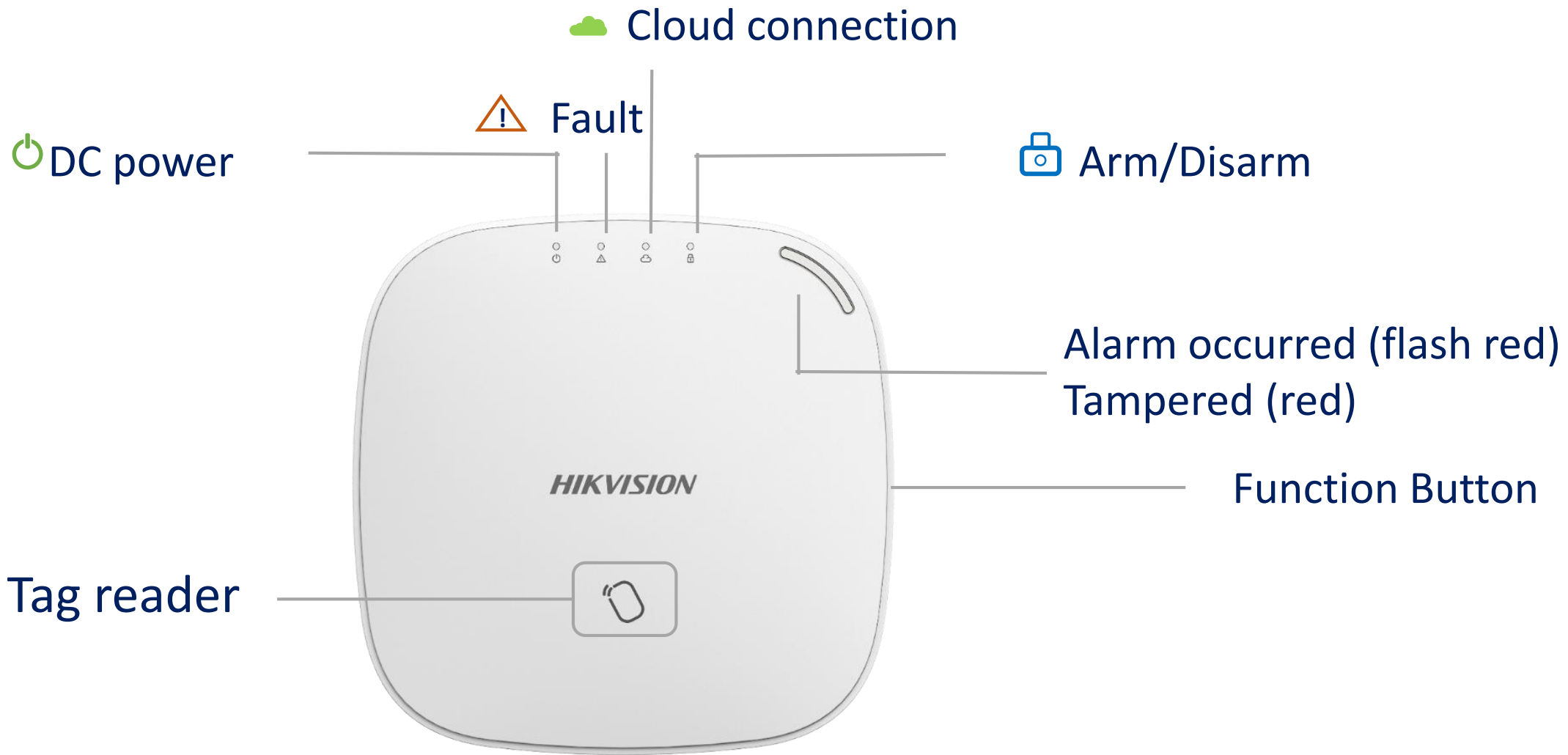


AX HUB

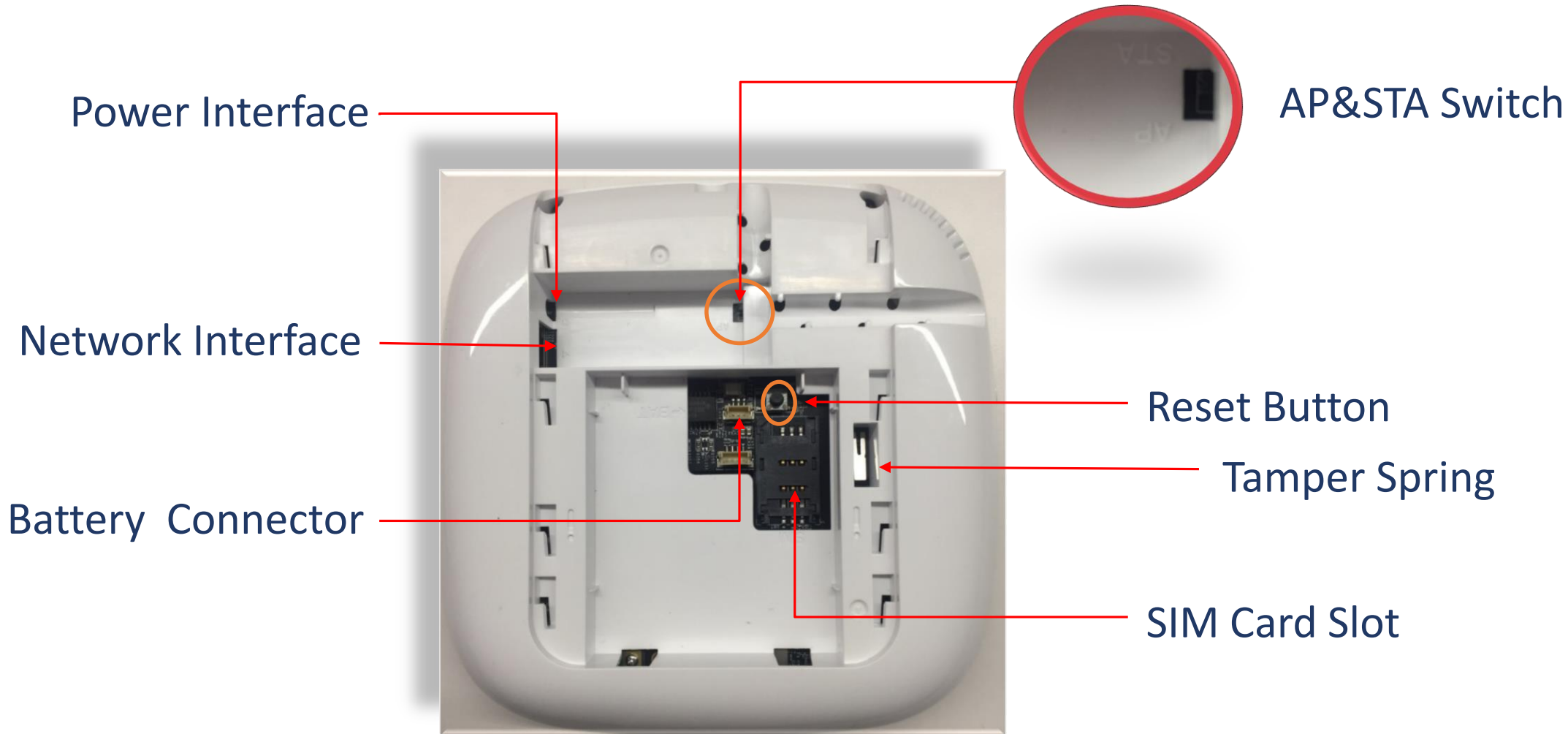
INTERNAL USE ONLY



Product Showcase



Product Showcase

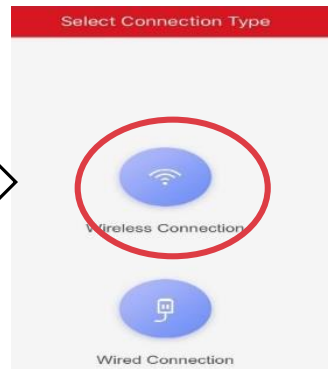
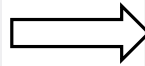
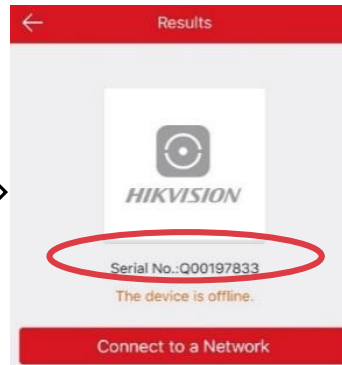


Configuration Via APP

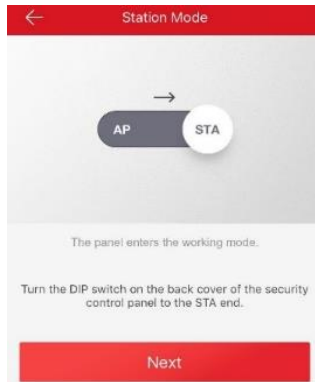
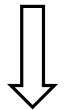
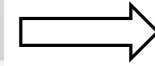
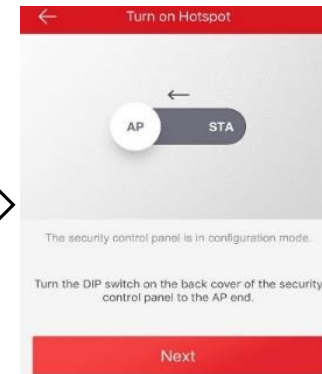


Hik-Connect

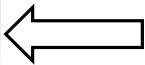
Scan QR



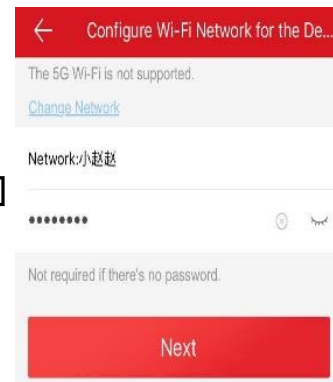
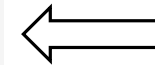
AP Mode



STA Mode



Device Wifi



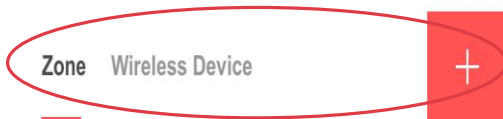
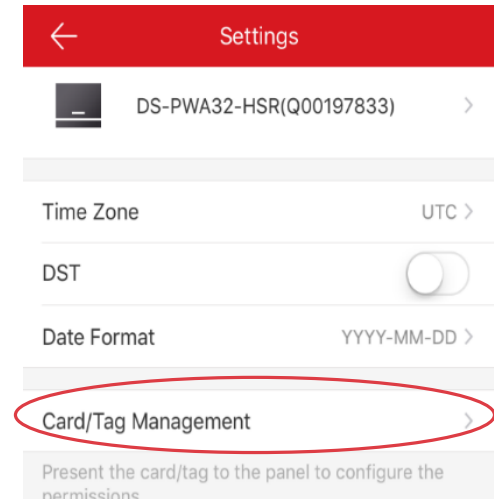
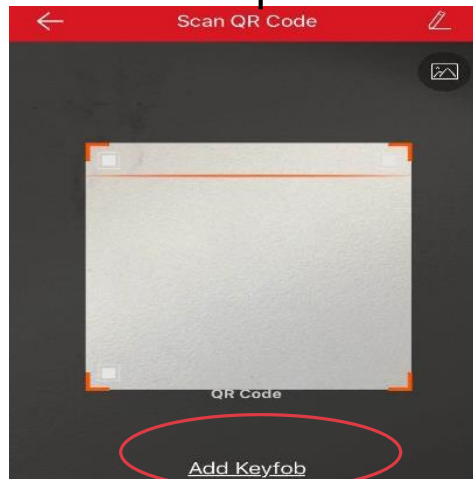
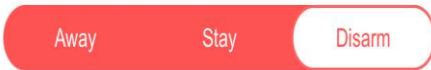
Add device via APP



Detector

Keyfob

Card



See Far, Go Further



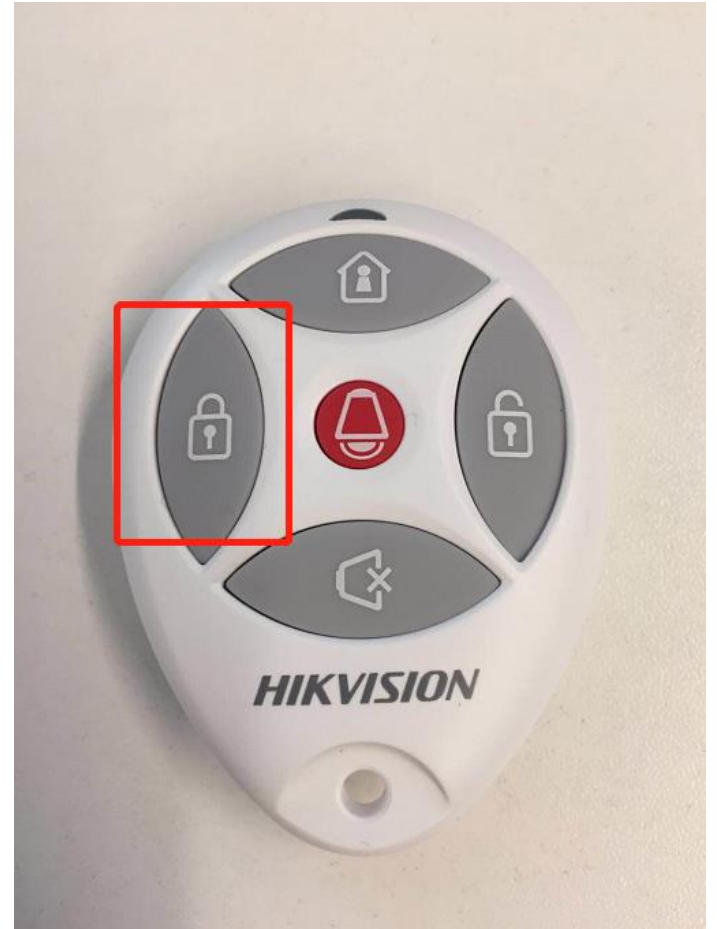
Add Detector & Signal Detection



Function Button

Adding Detector Mode : Once click
Signal Detection Mode : Double click
Green light---signal ok
Red light---signal bad

Detector Reset



Web Interface



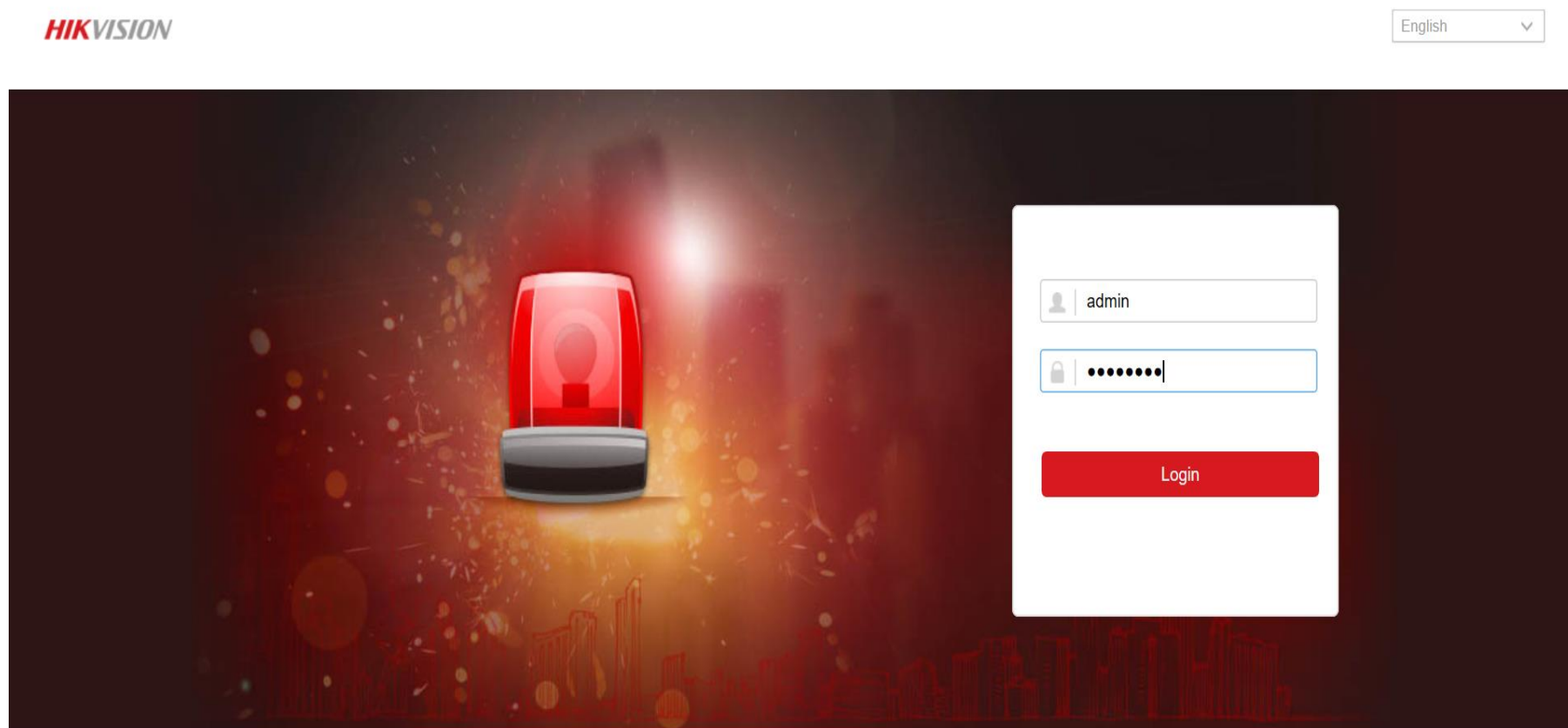
Default: 192.0.0.64

Connect to PC default address:

Station Mode: 192.0.0.64

AP Mode: 192.168.8.1

Account: admin



User management

Include User, Keyfob, Card add interface (Depending on the device model)

*input device SN.Number manually
*push any key in the keyfob or swipe the card

The screenshot shows the HIKVISION user management interface. On the left is a navigation menu with options: User Management (User, Keyfob, Card), System, Wireless Devices, Communication Parameters, Video & Audio, and Status. The 'Card' option is selected. The main area is titled 'Card Management' and contains a table with two rows of card data. Above the table are '+ Add' and 'Delete' buttons. The table has columns for 'No.', 'Serial No.', 'Name', and 'Operation'. Each row has a checkbox in the first column and edit/delete icons in the last column.


<input type="checkbox"/>	No.	Serial No.	Name	Operation
<input type="checkbox"/>	1	3262799581	www	
<input type="checkbox"/>	2	592484976	1	

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Device information



Version



- User Management
- System
- Device Information**
- System Options
- Security
- System Maintenance
- Log
- Date and Time
- Schedule & Timer
- Network Camera
- Wireless Devices
- Communication Parameters
- Video & Audio
- Status

Device Information About

Device Model:	DS-PWA32-HSR
Device Serial No:	DS-PWA32-HSR20181016AAWRQ00306751WU
Device Firmware Version:	V1.0.1 build 181229
Web Version:	V4.21.1 build 181229

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Option

- 1.Installer Access Allowed
- 2.Wireless Supervision
- 3.Arming with Fault
- 4.System Faults
- 5.Disable Function Key
- 6.Detect Network Camera Disconnection
- 7.Battery Supervision
- 8.Volume

The screenshot shows the Hikvision System Options Management interface. On the left is a navigation menu with categories like User Management, System, Security, and System Maintenance. The 'System Options' section is highlighted. The main area displays a list of options with toggle switches and a volume slider.

Option	Status
Installer Access Allowed	Enabled
Wireless Supervision	Enabled
Arming with Fault	Disabled
System Faults	Enabled
Disable Function Key	Disabled
Detect Network Camera Disconnection	Enabled
Battery supervision	Enabled
System Volume	Slider (Value: 4, Range: 0 to 10)

Save

System management

User Management

System

Device Information

System Options

Security

System Maintenance

Log

Date and Time

Schedule & Timer

Network Camera

Wireless Devices

Communication Parameters

Video & Audio

Status

Upgrade and Maintenance

System Management

Reboot

Reboot

Restore Default Settings

Partly Restore

Restore All

Import Configuration File

View

Import

Export Configuration File

Export

Remote Upgrade

Upgrade File

View

Firmware upgrade

Upgrade

- 1.Reboot
- 2.Restore All
- 3.Configuration File Import & Export
- 4.Firmware upgrade

Device Time



Synchronization time and **select Time zone**

The screenshot displays the Hikvision web interface for Time Management. The sidebar on the left contains the following menu items: User Management, System, Device Information, System Options, Security, System Maintenance, Log, **Date and Time** (highlighted), Schedule & Timer, Network Camera, Wireless Devices, Communication Parameters, Video & Audio, and Status. The main content area shows the 'Time Management' page with a breadcrumb trail: **Time Management** > DST Management. The configuration fields are as follows:

- Time Zone:** A button labeled 'Select Time Zone' is highlighted with a red box. The dropdown menu shows '(GMT+08:00) Beijing, Urumqi, Singapore'.
- Manual Time Sync:** A button labeled 'PC Sync' is highlighted with a red box.
- Date and Time:** A text input field shows '2019-01-24 10:29:11'.
- Sync With Computer Time:** A checkbox labeled 'Sync. With Computer Time' is present, with a calendar icon next to the time field '2019-01-24 10:29:10'.
- Save:** A red 'Save' button is located at the bottom right of the configuration area.

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Time table

Late to Disarm: Enable the function and set the time. If the system is disarmed after the configured time, the person will be considered as late.

Alarm Duration: From 1~3600s

The screenshot shows the HIKVISION web interface for 'Schedule & Timer Management'. On the left is a navigation menu with categories: User Management, System, Security, System Maintenance, Log, Date and Time, Network Camera, Wireless Devices, Communication Parameters, Video & Audio, and Status. The 'Security' category is expanded, showing 'Schedule & Timer' as the active sub-menu. The main content area is titled 'Schedule & Timer Management' and contains the following settings:

- Entry Delay 1: 30 s
- Entry Delay 2: 60 s
- Exit Delay: 60 s
- Enable auto Arming:
- Time: 00:00
- Enable auto Disarming:
- Time: 00:00
- Late to Disarm:
- Time: 00:00
- Weekend Exception:
- Siren Delay Time (Peri...): 60 s
- Alarm Duration: 60 s

A red 'Save' button is located at the bottom right of the settings area.

Network Camera

Add camera: support Hikvision camera or standard ONVIF camera

The screenshot shows the Hikvision Network Camera Management interface. On the left is a navigation menu with categories: User Management, System, Device Information, Option, Security Settings, System Maintenance, Local Log Search, Device Time, Time Table, Network Camera (highlighted with a red arrow), Wireless Devices, Communication Parameters, Status, and Video & Audio. The main area is titled 'Network Camera Management' and contains a table with columns: No., Network Camera IP Address, Channel No., Network Camera Port No., and Network Camera Connection Status. Above the table are buttons for '+ Add', 'Edit', and 'Delete'. A red arrow points to the '+ Add' button. An 'Add Network Camera' dialog box is open, showing the following fields: 'Adding' (dropdown menu set to 'IP'), 'IP Address' (text box with '10.22.102.66' and a green checkmark), 'Protocol Type' (dropdown menu set to 'HIKVISION'), 'Port No.' (text box with '8000'), 'User Name' (text box with 'admin' and a green checkmark), and 'Password' (password field with dots and a green checkmark). At the bottom of the dialog are 'OK' and 'Cancel' buttons. The footer of the interface reads '©2018 Hikvision Digital Technology Co., Ltd. All Rights Reserved.'

Wireless Devices

You can set Zone type like Instant Zone or Delayed Zone, and change zone name

Set Stay Arming Bypass, Doorbell, or Mute(No Alarm, but have log) if you need

Control Panel Channel No:
Link the zone to the camera

The screenshot shows a 'Zone Settings' dialog box with the following fields and values:

- Zone: 1
- Name: Wireless zone 1
- Type: Delayed (with an 'Entry Delay 1' dropdown)
- Detector Type: Panic Button
- Stay Arming Bypass: Off
- Chime: Off
- Silent Alarm: Off
- Enroll Wireless Detector: On
- Serial No.: Q00288335
- Panel Video Channel No.: 1

Buttons: OK (red), Cancel (grey)

Wi-Fi Parameters

Wi-Fi Parameters

Current Mode: Station Mode

Wi-Fi Working Mode: Station Mode

Wi-Fi Parameters

Wi-Fi Name: RZS

Wi-Fi Password:

Network List

Name	Channel No.	Signal Strength	Encryption Mode	Operation
RZS	11	100	WPA2-personal	Disconnect
HIK-Office	6	100	WPA2-personal	Connect
TP-LINK_3C3B30	9	96	WPA2-personal	Connect
gaoke_3E64E0	13	96	WPA2-personal	Connect
shenjian	6	76	WPA2-personal	Connect
linksys_test	5	76	WPA2-personal	Connect

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Wi-Fi configuration:
Pay attention to the
Wi-Fi Working Mode is
Station mode

Wi-Fi Operation shows
Disconnect means
connect well

Cellular Data Network Setting

Most of time Cellular Data Network connect automatically.

If not, you need configure **manually.**
(Setting depend on SIM operator)

The screenshot shows a 'Configuration' menu with several categories. The 'Cellular Data Network' category is highlighted in red. The categories listed are: User Management, System, Wireless Devices, Communication Parameters, Ethernet, Wi-Fi, Cellular Data Network (highlighted), Alarm central station, Event Communications, Cloud Registration, Video Verification Events, Video & Audio, and Status.

The screenshot shows the 'Cellular Data Network Settings' page. The settings are as follows:

- Enable GPRS/3G/4G:
- Phone Number:
- User Name:
- Access Password:
- APN:
- PIN Code:
- Data Usage Limit:
- Data Used This Month: M
- Data Limited per Month: M

A red box highlights the 'User Name', 'Access Password', 'APN', and 'PIN Code' fields. A red 'Save' button is located at the bottom right.

Alarm Center Parameters

HIKVISION

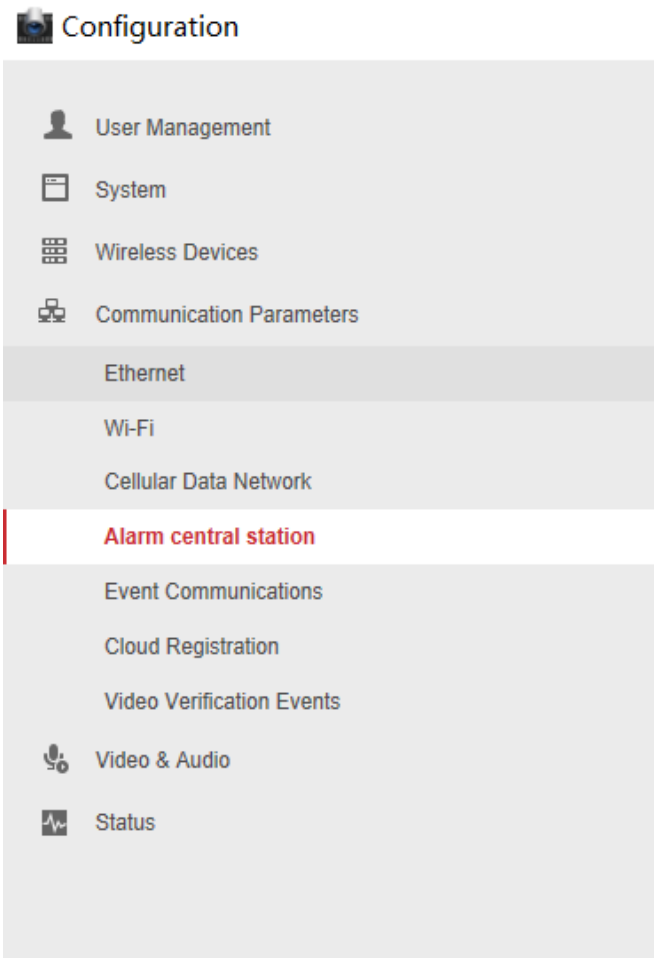
Select a protocol type from the drop-down list

Select a server address type from the drop-down list

Set the server address

Port No.

User name(Account).



The screenshot shows a 'Configuration' window with a sidebar menu. The menu items are: User Management, System, Wireless Devices, Communication Parameters, Ethernet, Wi-Fi, Cellular Data Network, **Alarm central station** (highlighted with a red line), Event Communications, Cloud Registration, Video Verification Events, Video & Audio, and Status.

Alarm central station Settings

Enable	<input checked="" type="checkbox"/>
Protocol Type	ADM-CID
Alarm Receiver Type	IP
Alarm Receiver IP Addr...	10.9.96.32 ✓
Port No.	1962 ✓
Account Code	3333 ✓

Save

Message Notification

- 1. Alarm and Tampering Event Notification
- 2. Safety Event Notification
- 3. System Status Notification
- 4. Operation Event Notification

The screenshot shows the HIKVISION iVMS-4200 web interface. The top navigation bar includes the HIKVISION logo and the device name 'iVMS-4200'. Below the navigation bar, there are tabs for 'Alarm Receiver Center', 'Cloud', and 'Mobile Phone'. The left sidebar contains a menu with the following items: User Management, System, Wireless Device, Communication Parameters (with sub-items: Wired Network Parameters, Wi-Fi Parameters, Cellular Data Network Parameters, Alarm Center Parameters), Message Notification (highlighted in red), Hik-Connect Registration Parameters, Event Video Transfer via Email, Video & Audio, and Status. The main content area displays the 'Message Notification' settings for the 'Alarm Receiver Center' tab. It features four toggle switches, all of which are turned on (green): 'Alarm and Tampering Event Notification', 'Safety Event Notification', 'System Status Notification', and 'Operation Event Notification'. A red 'Save' button is located at the bottom right of the settings area.

Alarm and Tampering Event Notification

The device will push notifications when the zone alarm is triggered or the device tamper alarm is triggered or restored.

Safety Event Notification

The device will push notifications when fire alarm, gas alarm, or medical alarm is triggered.

System Status Notification

The device will push notifications when any status in the system is changed.

Operation Event Notification

The device will push notifications when the user operate the device.

Message Notification

**You can select use SMS or Phone call or all use.
Support 6 phone number.**

The screenshot shows the HIKVISION web interface with the 'Mobile Phone' settings page. The left sidebar contains a navigation menu with the following items: User Management, System, Wireless Devices, Communication Parameters (with sub-items: Wired Network Parameters, Wi-Fi Parameters, Cellular Data Network Parameters, Alarm Center Parameters), **Message Notification** (highlighted), Hik-Connect Adding Parameters, Event Video Email, Status, and Video & Audio. The main content area has a top navigation bar with 'Control Client', 'Alarm Center', 'Cloud', and 'Mobile Phone' (highlighted with a red arrow). Below this, the settings are as follows:

- Mobile Phone Index: 1 (dropdown menu)
- SIM Card No.: 13867433059 (text input)
- Notification Type: SMS Phone Call
- Alarm and Tampering Event Notification:
- Safety Event Notification:
- System Status Notification:
- Operation Event Notification:

A red 'Save' button is located at the bottom right of the settings area.

Hik-Connect Statuses



Configuration

- User Management
- System
- Wireless Devices
- Communication Parameters
 - Ethernet
 - Wi-Fi
 - Cellular Data Network
 - Alarm central station
 - Event Communications

Cloud Registration

- Video Verification Events
 - Video & Audio
 - Status

Cloud Registration Settings

Register to Cloud

Cloud Status

Online

Custom Server Address



Alarm Receiver IP Addr...

dev.sgp.hik-connect.com

Communication Mode

Wired Network Priority

Verification Code

QEODVJ



The code should contain 6 to 12 characters (it is recommended to be more than 8 characters and the combination of numeric and letter) .

Save

Online means Hik-Connect statuses OK

Verification Code

See Far, Go Further

Event Video Email

Email configuration:
need to pay attention to the:

SMTP server
SMTP Port and
Encryption Type

Configuration

- User Management
- System
- Wireless Devices
- Communication Parameters
 - Ethernet
 - Wi-Fi
 - Cellular Data Network
 - Alarm central station
 - Event Communications
 - Cloud Registration
- Video Verification Events**
- Video & Audio
- Status

Video Verification Email Setting

Video Verification Events

Sender Name

Sender

SMTP Server address

SMTP Port No.

Encryption Type

Server Authentication

User Name

Password

Confirm Password

Receiver Name

Receiver

Event Video Email

	User Name/ Password	Sender	SMTP Server address	SMTP Port	Encryption Type
Gmail	XXXX Password	XXXX@gmail.com	smtp.gmail.com	587	TLS/STARTTLS(TLS)
OUTLOOK	XXXX@outlook.com Password	XXXX@outlook.com	smtp.office365.com	587	STARTTLS(TLS)
hotmail	XXXX@hotmail.com Password	XXXX@hotmail.com	smtp.office365.com	587	STARTTLS(TLS)
Yahoo	XXXX Password	XXXX@yahoo.com	smtp.mail.yahoo.co m	587	STARTTLS(TLSV1.2)
126	XXXX Password	XXXX@126.com	smtp.126.com	465	SSL/TLS
Sina	XXXX Password	XXXX@sina.com	smtp.sina.com	25/465/58 7	SSL/TLS/STARTTLS(SSL/TLS)

Check Communication Status

You can check
Wired Network,
Wi-Fi signal,
GPRS Network & Cellular
Data Network Signal
Strength,
Cloud connection Status

Communication Status	
Wired Network	Normal
Wi-Fi:	Disconnected
Wi-Fi Signal Strength:	None
(GPRS/3G/4G)Network:	Normal
Cellular Data Network Signal Strength	Medium
Used Data:	0.1 M
Cloud Connection Status	Normal

Refresh

Video Management

The screenshot shows a web browser window with the URL `192.168.1.121/doc/page/config.asp`. The page title is "Configuration" and the user is logged in as "admin". The left sidebar contains a navigation menu with items like "User Management", "System", "Wireless Device", "Communication Parameters", "Wired Network Parameters", "Wi-Fi Parameters", "Cellular Data Network Parameters", "Alarm Center Parameters", "Message Notification", "Hik-Connect Registration Parameters", "Event Video Transfer via Email", "Video & Audio", and "Status". The "Wi-Fi Parameters" section is active, showing "Current Mode" as "Station Mode" (highlighted with a yellow circle). Below this, the "Wi-Fi Parameters" section includes fields for "Wi-Fi Name" (TP-LINK_2.4G), "Wi-Fi Password", and "Encryption Mode" (WPA2-personal). A "Network List" table is also present, showing three networks: TP-LINK_2.4G, HIK-Office, and TPGuest017B, all with a signal strength of 100 and encryption mode of WPA2-personal.

Name	Channel No.	Signal Strength	Encryption Mode	Opera
TP-LINK_2.4G	1	100	WPA2-personal	Discon
HIK-Office	1	100	WPA2-personal	Conn
TPGuest017B	1	100	WPA2-personal	Conn
		75	WPA2-personal	Conn

Confirm panel is in Station Mode.

1. When configure the detector zone type, can't save?

Reason: Most time the reason is **not exit the one-click Add mode** after adding detectors or **not exit signal detection mode** (Double click function key).Or the Hub is in **Arm Status**.

Solution : Click the function key on the Hub to exit one-click Add mode or signal detection mode or Disarm the Hub.

2. During the test process , after configure the detector, the Hub can't Arm.

Reason: 1.The Detector is triggered, or tamper triggered.

2:Hub is in one-click Add mode or signal detection mode.

Solution: Check the Zone mode in website or Hik-connect, Then check the hub is out of Add mode or signal detection mode

3. Panel fault light always been on, but Panel Arm/Disarm is normal, what's the reason?

Reason: Panel have system failure, System failure does not affect Arm/Disarm. Common events are as follows:

DC Power Fault

Low Battery

4G,3G or GPRS Network Fault

Wired Network Fault

Wi-Fi Communication Fault

RF Signal Fault

4. When the Hub insert SIM card, you can see the phone signal but can't connect the HIK-Connect.

The Hub need restart after inserting the SIM card.

Reason: Most time the reason is SIM card has **no phone bill** or **does not open network function**, and some Sim card may be required to configure the APN.

Troubleshooting methods:

1. First check the SIM card inside have enough phone bill, the card has opened the network function
(You can test by your mobile phone)
2. Search the SIM card's APN by Google , the Hub default dialing includes most SIM card APN but not all, so if the network is not connected, you need to set up the SIM card APN manually and then restart it.

PART

2

Security Radar



All-weather operation



4 PTZ dome linkage



IP67 Rating



IK09 Approved



20KG Pet-Immunity



Up to 32 Target tracking



PoE Supported

HIKVISION Security Radar



INTERNAL USE ONLY



Product Introduction



Radar Principle

24GHz Electromagnetic wave



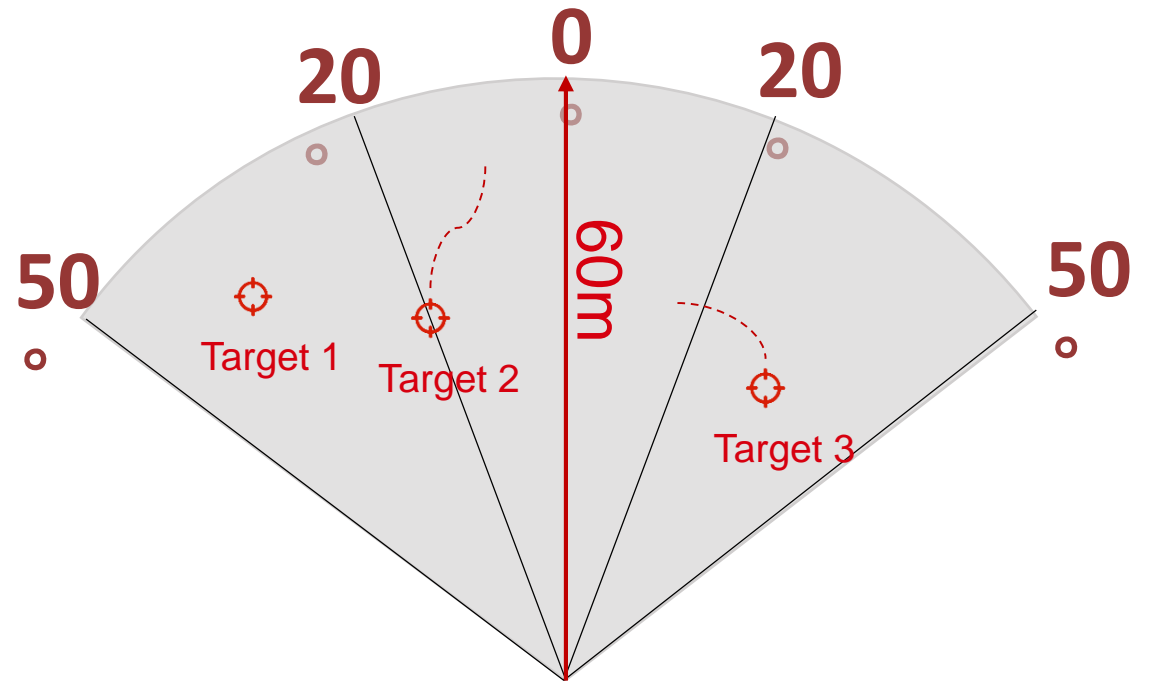
Emit electromagnetic wave



Receive the reflected wave and analyze

See Far, Go Further

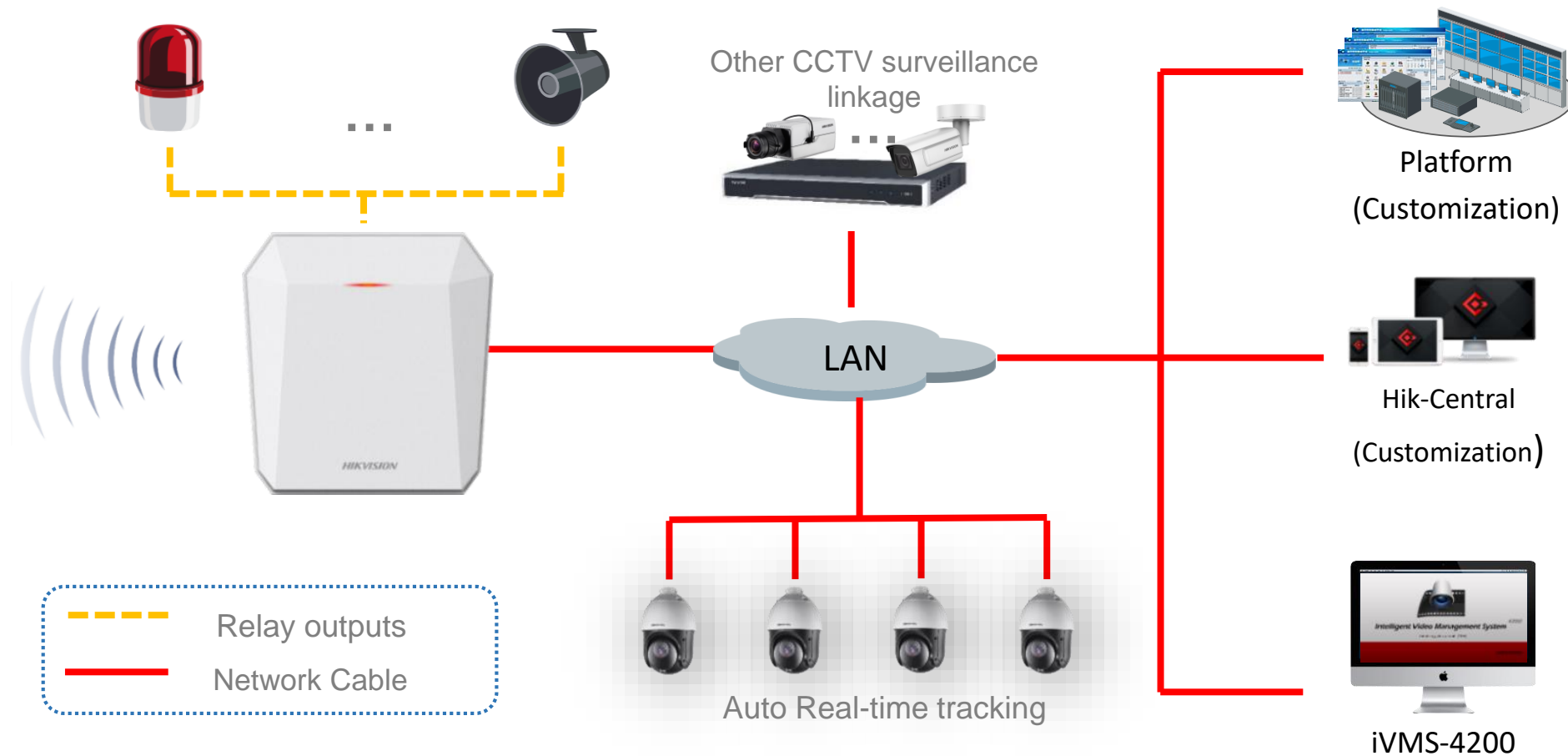
Adopting digital beam forming technology and intelligent analysis algorithm, we pinpoint the exact location and motion trail of potential intruders, besides, we can also link up to 4 PTZ cameras for tracking automatically.



Product Introduction



Radar-CCTV linkage Architecture



Note : Radar supports 6 series and above PTZ camera.

Security Radar –Spec

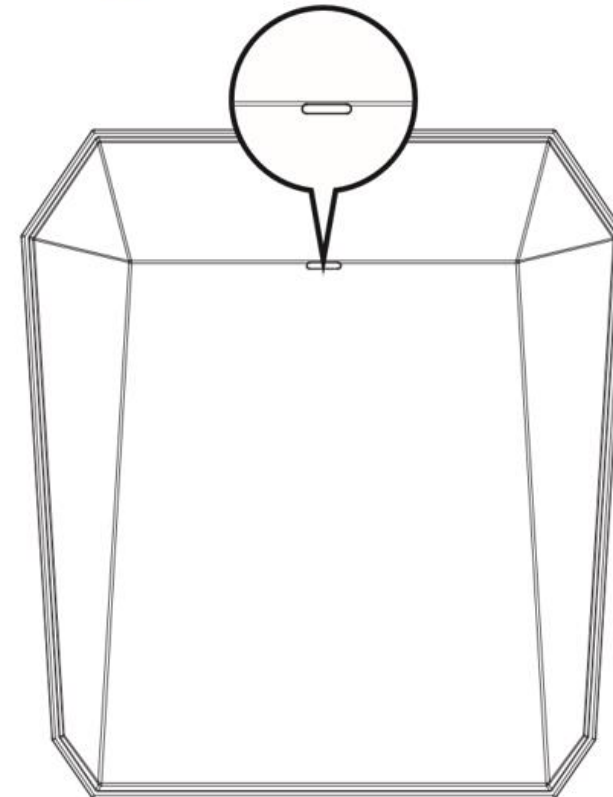
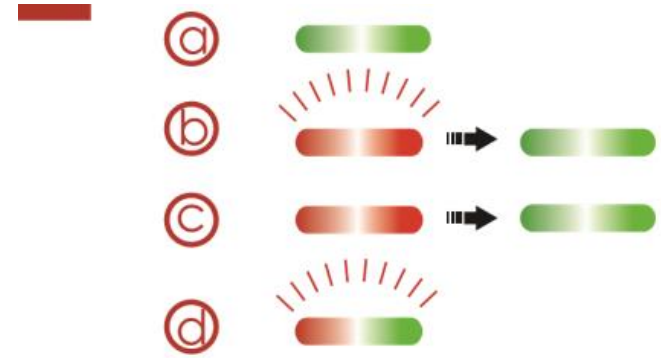
Model	DS-PR1-60	Netowrk Interface	1 RJ45 10M/100M self-adaptive, supports POE
Detection Range	60 m	Communication Protocol	Standard ISAPI protocol, NAL2300 protocol HTTP, DNS, NTP, TCP, UDP, DHCP, ARP, and SSH
Horizontal Angle	100°	Exception Detection	Cover and Wall tamper-proof, and blocking alarm
Detection Area	About 3000 m ²	Power Interface	802.3at standard POE or 12 VDC The supplied power adapter is for 12 VDC power input.
Max. Target Number	32	Operation Temperature	-40 C° to 65 C°
Velocity Range	-8.7 to 8.7 m/s	Operation Humidity	10% to 90%
Range Measurement Accuracy	±0.75 m	Dimension(W x H x D)	206*228*61 mm
Velocity Measurement Accuracy	±0.1 m/s	IP Level	IP67
Angle Measurement Accuracy	±1°	Weight	1.84 kg
Zone	8	Installation	Bracket installation, Installation Height:1.2 m to 4 m recommended height range: 2.5 m
Alarm Output	3-ch weak current output: 0.5 A/125 VAC,breakdown voltage: 1 KV 1-ch strong current output: 10 A/240 VAC,breakdown voltage: 2.5 KV		

Security Radar –light Indicator

HIKVISION®

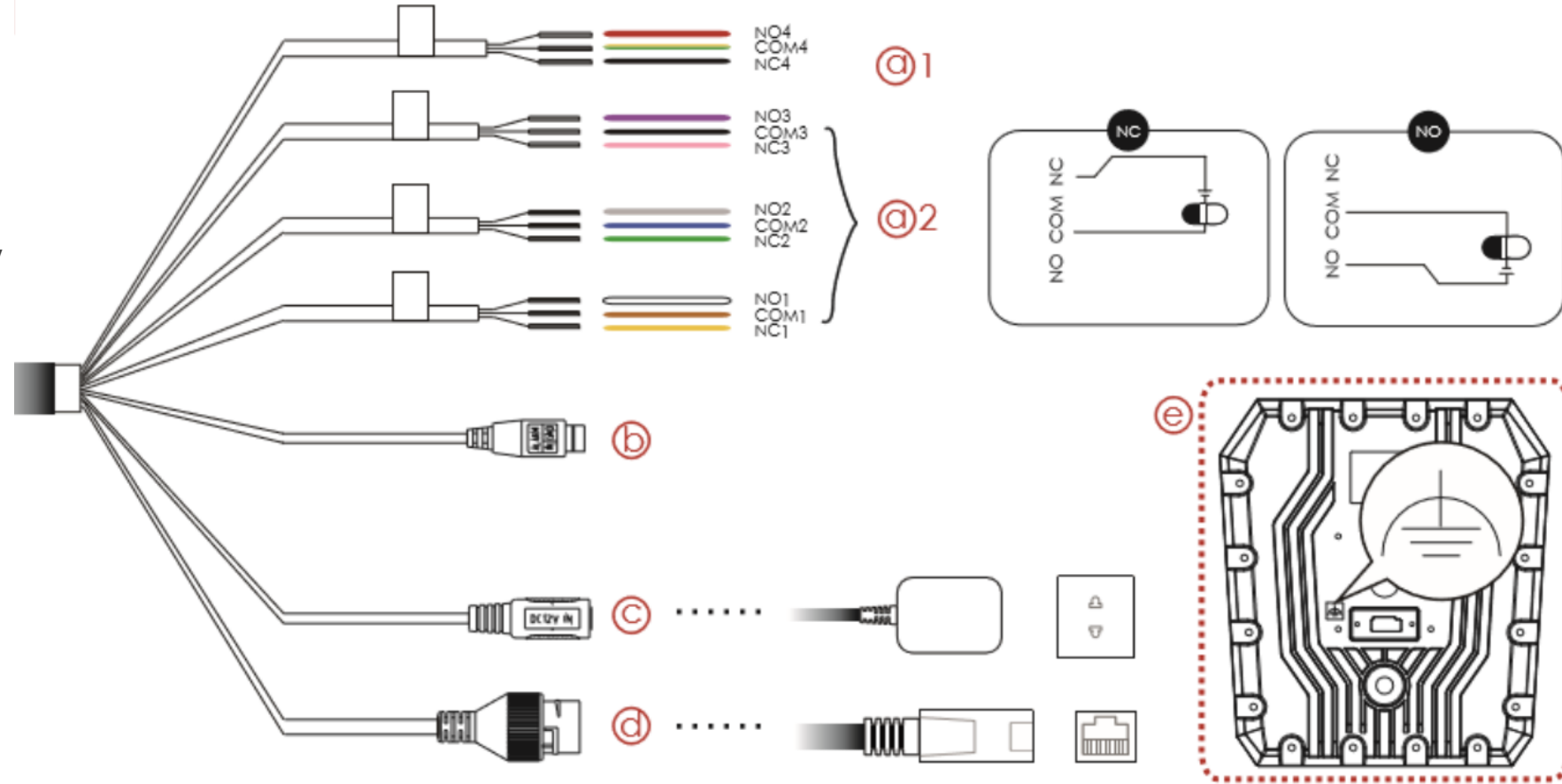
Relay Settings

- a. Power Supply Indicator
 - Solid **Green**: Radar Power on
- b. Fault Alarm Indicator
 - Flashing **Red**: Fault Alarm Occurred,
 - Solid **Green**: Alarm Restored
- c. Zone Alarm Indicator
 - Solid **Red**: Zone Alarm Occurred,
 - Solid **Green**: Alarm Restored
- d. Formatting Indicator
 - Flashing **Green & Red**: Formatting Successfully



Security Radar –Line Connection

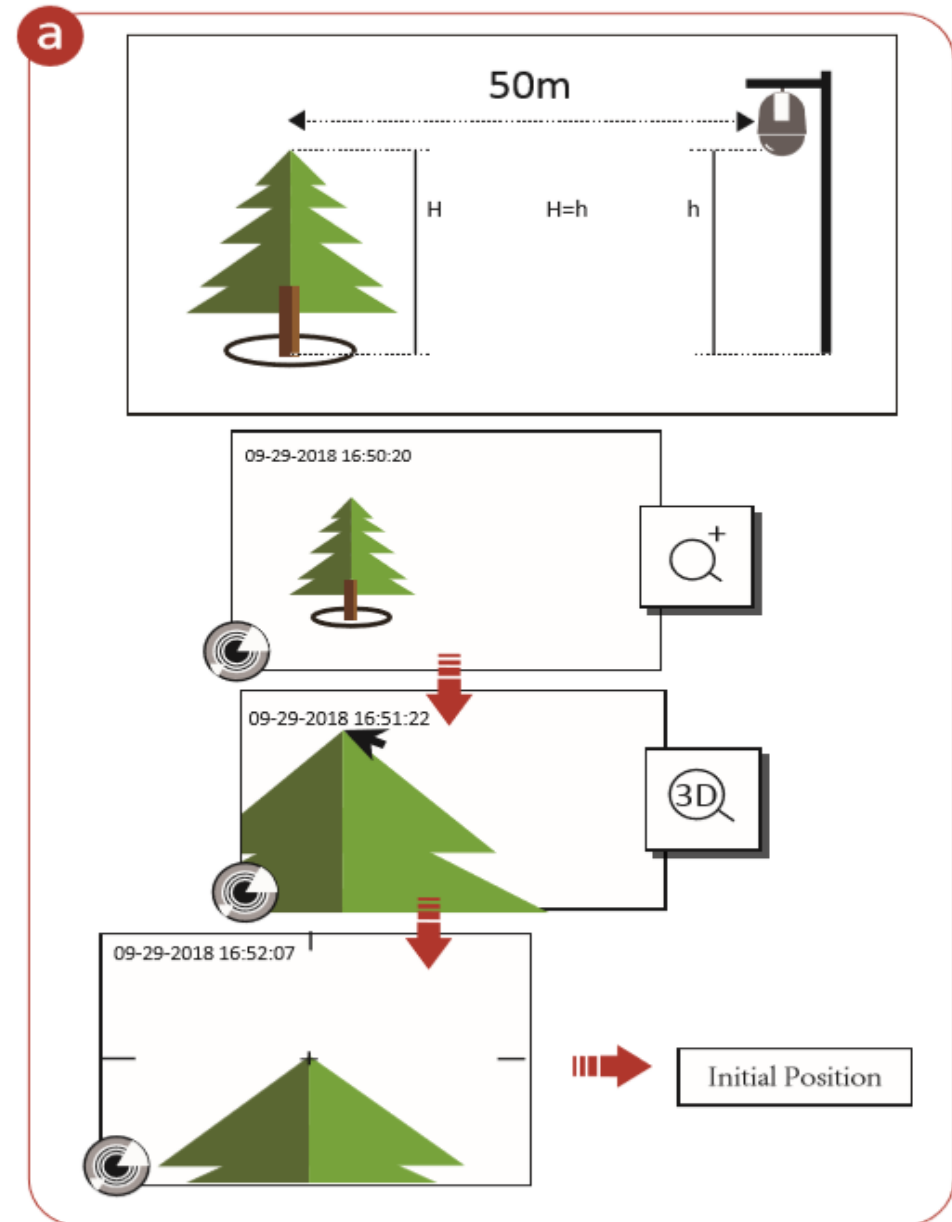
- a. Alarm Output Wiring(Dry Contact Output)
a1: One Strong Current Output
a2: Three Weak Current Output Rely Module
- b. Alarm Input Wiring(Reserved)
- c. Power Supply Wiring
- d. Network Wiring (supports PoE)
- e. Grounding



Security Radar –Initial Position

Set Initial Position

- 1. Select a reference object about 50m away from the speed dome, and select a point (on the reference object) whose altitude is the same as the speed dome's.
- 2. Enter the IP address of the speed dome in the web browser to enter the web client. Adjust the PTZ in the live view page to make the point displayed in the frame. Click 3D Zoom to middle the point in the frame.
- 3. Enter Configuration-PTZ-Initial Position, and click Set to set the initial position.

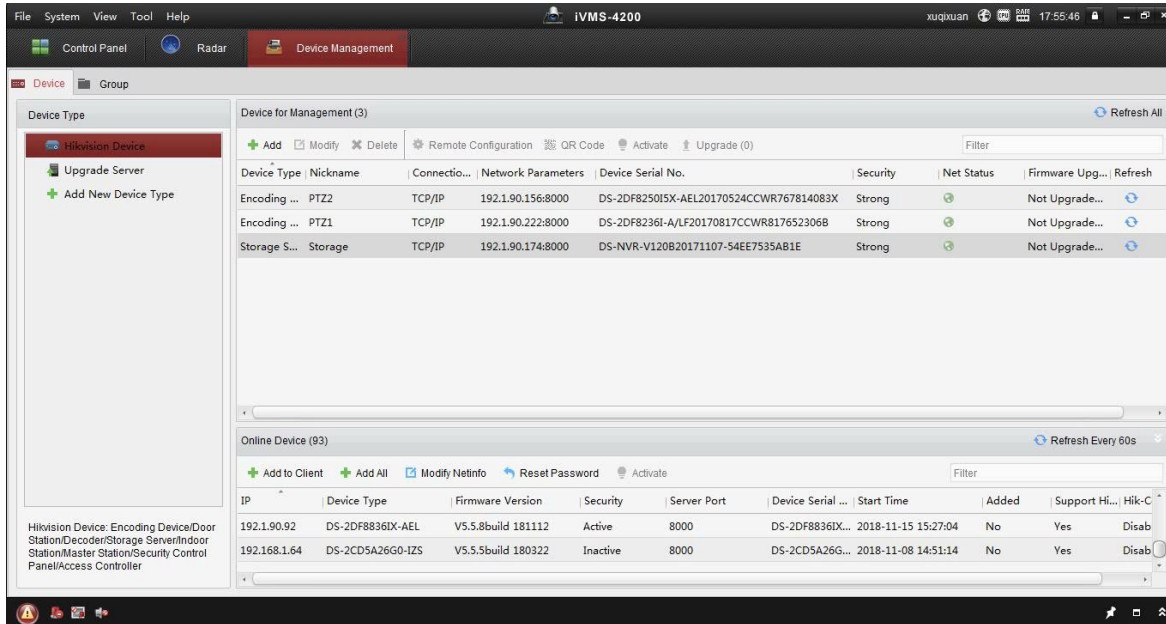


Security Radar –Initial Position

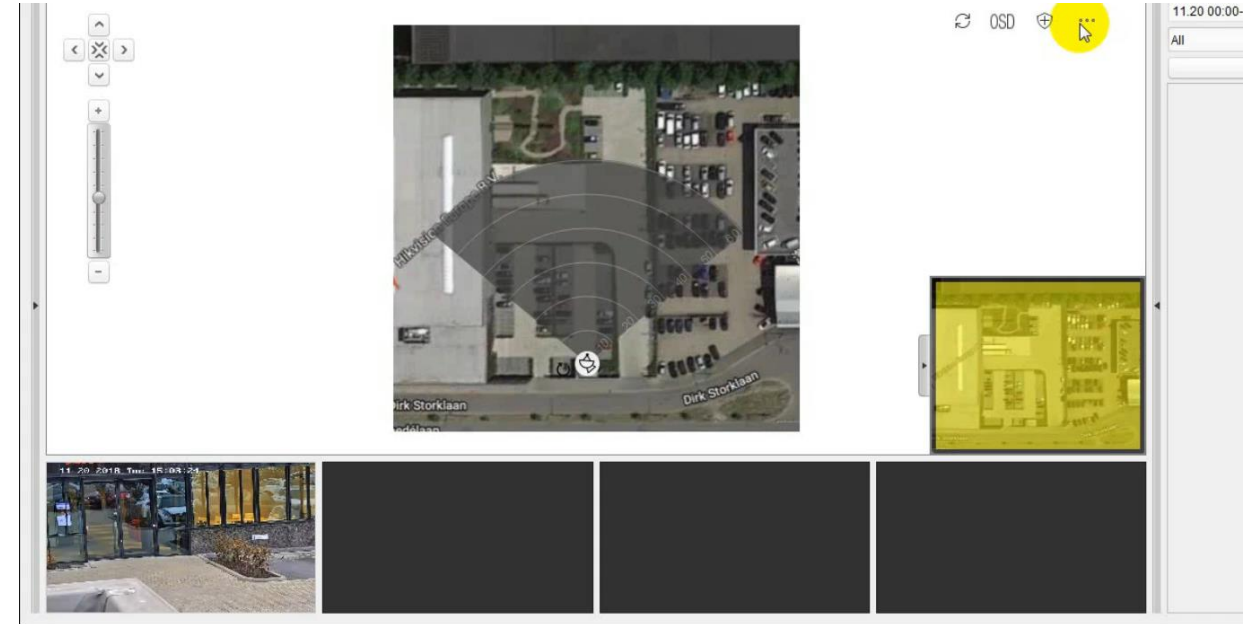
- Allow PTZ Max.Tilt-angle
- Adjust the PTZ in the live view page to make the point displayed in the frame,.
- Set the Initial Position.

The screenshot shows the 'Configuration' window for a PTZ camera. The 'Initial Position' tab is selected, showing a live video feed of a building facade. A red box highlights a vertical pole in the video. Below the video are three buttons: 'Set', 'Clear', and 'Call'. A red arrow points to the 'Set' button. To the right of the video is a control panel with a zoom slider set to 4 and a list of 8 presets.

Configuration—iVMS-4200

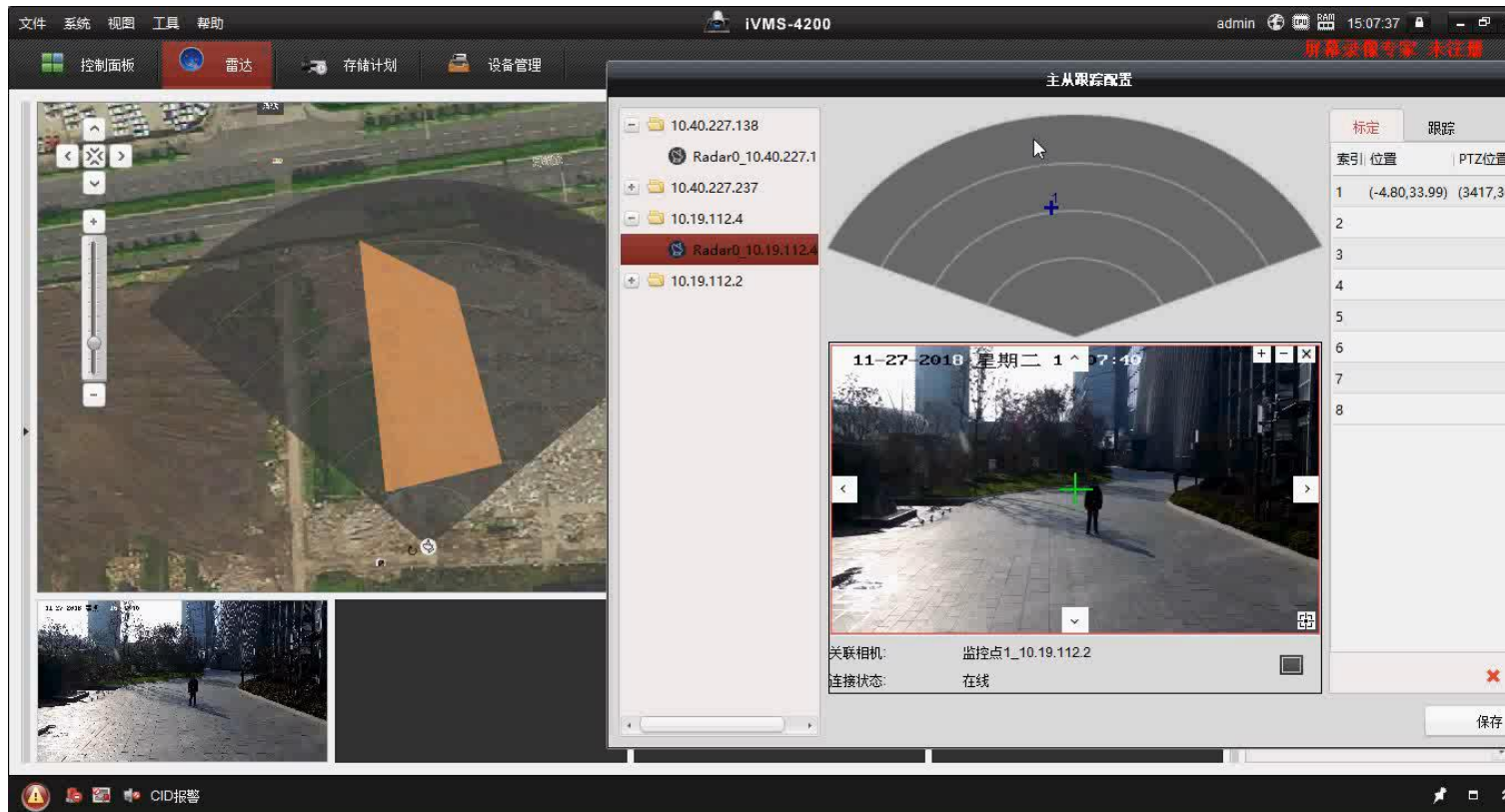


How to add radar



How to add zone

Configuration—Calibration



Document for reference :



Calibrate Radar.pdf

Security Radar –Zone Management

Zone Type

- **Early Warning Zone:** If the zone is triggered, there will be alarm but no record of trajectory.
- **Warning Zone:** With zone armed, if the zone is triggered, the CID will receive the alarm immediately. The storage of trajectory and video of PTZ can be recorded.
- **Disabled Zone:** If the zone is triggered, there will be no alarm and no record of trajectory neither.

The screenshot displays the 'Configuration' window with a sidebar menu on the left containing 'System', 'Alarm Module Parameters', 'Zone', 'Relay', 'Communication Parameters', 'Smart Rule Settings', and 'Radar Settings'. The main area is titled 'Zone Management' and features a table with the following data:

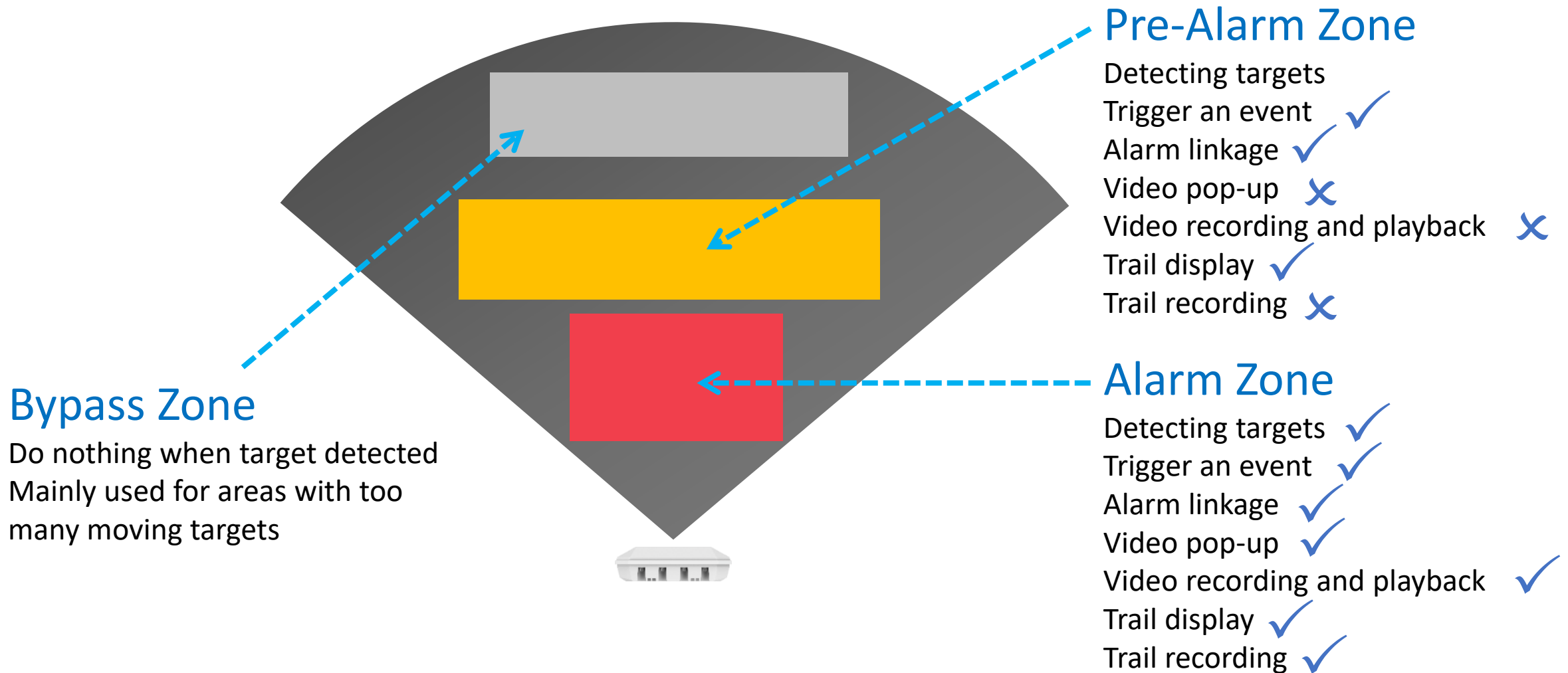
Zone	Zone Name	Zone Type	Configuration
1	1	Warning Zone	

A 'Zone Settings' dialog box is overlaid on the table, containing the following fields:

- Zone Name:
- Zone Type:

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Security Radar –Zone Management



Security Radar –Camera Linkage

Linkage

- Link the camera to Radar.
- Link the Camera to the zone

Configuration

- System
- Alarm Module Parameters
- Communication Parameters
- Smart Rule Settings
- Video Record Strategy Settings
- Camera Linkage Settings**
- Arming/Disarming Schedule
- Radar Settings

Camera Linkage Settings

Link the camera to the zone to make the camera triggered when zone alarm occurs.

Camera IP Address List	Status		Zone Linkage
10.19.112.9	Online	+ ✎ 🗑	<input checked="" type="checkbox"/> Full Radar Field
			<input checked="" type="checkbox"/> Zone1
			<input checked="" type="checkbox"/> Zone2
			<input checked="" type="checkbox"/> Zone3
			<input checked="" type="checkbox"/> Zone4
			<input checked="" type="checkbox"/> Zone5
			<input checked="" type="checkbox"/> Zone6
			<input checked="" type="checkbox"/> Zone7
			<input checked="" type="checkbox"/> Zone8

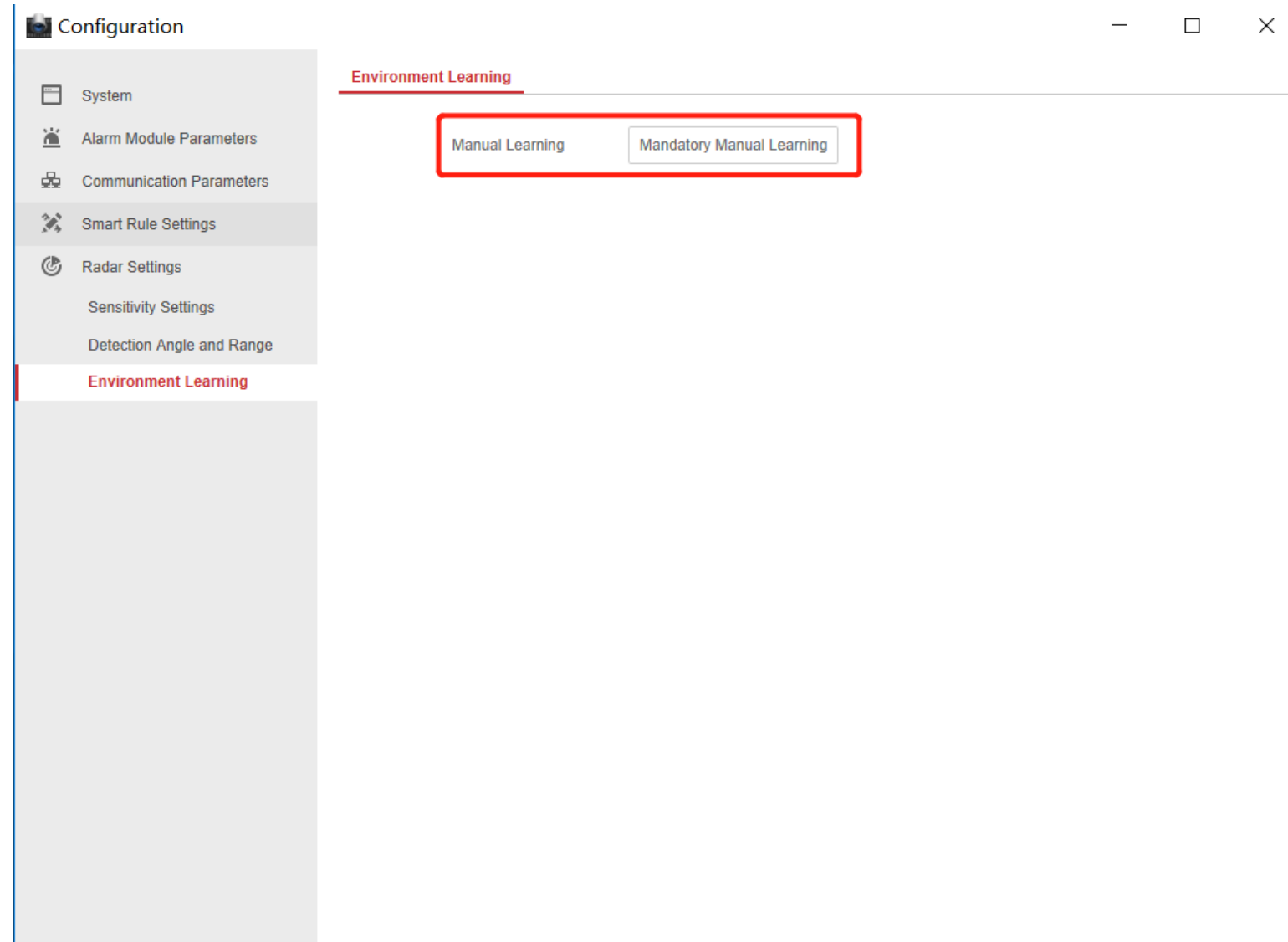
Save

完成

Security Radar –Environment Learning

To ensure the accuracy of radar detection, if there are large objects in the detection area, you need to remove the objects and make the radar complete the environment learning

- 1. Select the radar and click Remote Configuration in iVMS-4200, or Enter the radar IP address in the address bar of the web browser. Click Radar Settings → Environment Learning to enter the page
- 2. Click Mandatory Manual Learning to complete



Security Radar – Tracking Strategy

➤ **Time Priority**

Record the target that intrude the zone first

➤ **Range Priority**

Record the target that has the shortest distance apart from the radar

➤ **Multi-Target Auto Switch**

Switch the target automatically when there are multiple targets in the zone

The screenshot shows a web-based configuration interface for a Security Radar system. The title bar reads "Configuration" and includes standard window controls (minimize, maximize, close). On the left is a vertical navigation menu with the following items: "System", "Alarm Module Parameters", "Communication Parameters", "Smart Rule Settings", "Video Record Strategy Settings" (highlighted in red), "Camera Linkage Settings", "Arming/Disarming Schedule", and "Radar Settings". The main content area is titled "Video Record Strategy Settings" and contains two configuration fields: "Record Strategy" is a dropdown menu set to "Multi-Target Auto Switch", and "Switch Interval" is a text input field containing the number "5" with a green checkmark and a small "s" indicating seconds. A red "Save" button is positioned below these fields. At the bottom left of the interface, the Chinese characters "完成" (Complete) are visible.

Security Radar – Scene Mode and Sensitivity

➤ Open Mode

There are no large objects in the radar detection area

➤ Shrub Mode

There are shrubs and other objects that are likely to swing in the radar detection area.
The shrub mode can also be used to decrease the interference of rainstorm

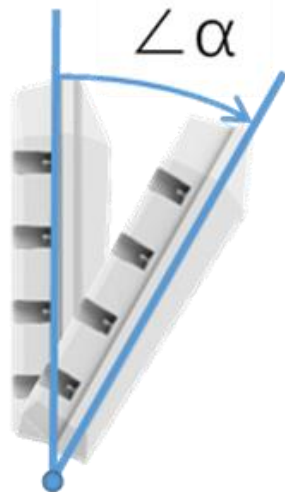
➤ Expert Mode

You can set tracking sensitivity, swing sensitivity, and signal sensitivity according to actual scenario requirements.

The screenshot displays the 'Configuration' window of the HIKVISION Security Radar system. The left sidebar contains a menu with the following items: System, Alarm Module Parameters, Communication Parameters, Smart Rule Settings, and Radar Settings. The 'Sensitivity Settings' section is currently selected and expanded, showing sub-options: Detection Angle and Range and Environment Learning. The main content area is titled 'Sensitivity Settings' and features a 'Scene Mode' dropdown menu. The dropdown is open, showing three options: 'Open Mode' (which is highlighted in red), 'Expert Mode', and 'Shrub Mode'. Below the dropdown is a red 'Save' button. The window title bar includes standard minimize, maximize, and close icons.

Installation

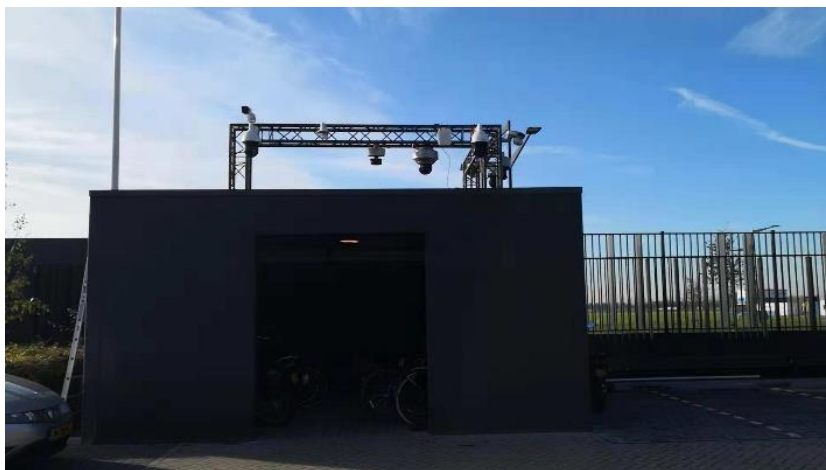
Reference of installation height and adjusting angle of radar.



radar installation height(m)	$\angle \alpha=(\quad)$	Max. detecting distance: walking away from radar(m)	Max. detecting distance: walking towards radar(m)	Min. detecting distance: walking away from radar(m)	Min. detecting distance: walking towards radar(m)
1.5	0	59.5	59	5	1.91
1.5	3	59.54	59.2	3.38	1.98
1.5	6	59.74	59.4	3.66	1.87
1.5	9	58.7	52	3.82	2.3
1.5	12	53	32	5.6	2.24
2	0	59.41	59.4	5.47	1.8
2	3	58.9	59.4	4.39	2.19
2	6	58.7	59	4.34	1.72
2	9	58	59.62	5.1	2.2
2	12	50.12	39.1	4.47	2
3	0	59	58.4	6.74	4.62
3	3	59.4	59.6	6.08	4.21
3	6	59	59.51	6.7	3.42
3	9	59.3	58	5.8	2.9
3	12	59.51	47.6	5.2	3.1
3.5	0	59	57.17	10.08	5.5
3.5	3	59.3	59.5	8.75	3.9
3.5	6	59.6	58.51	7.1	3.86
3.5	9	58	56.25	7.9	3.8
3.5	12	53.53	46	6.92	3.45
4	0	59	58	11.68	7.36
4	3	59.2	59.4	10.3	5.7
4	6	58.3	58.5	9.89	5.6
4	9	58.5	59.79	9.3	4.4
4	12	58	53	8.86	4.63
5	3	58.66	58.6	13.1	9.6
5	6	58.6	59.7	12	7.62

Real Performance – Testing Environment 1

HIKVISION



See Far, Go Further

Real Performance—Device Installation 1

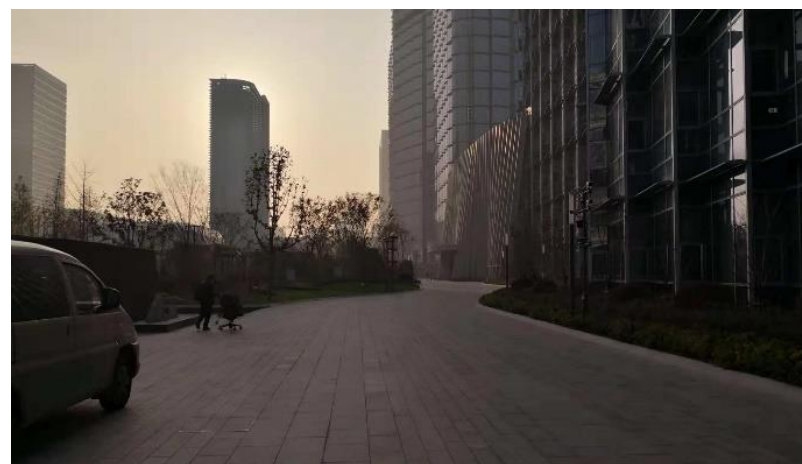
HIKVISION®



See Far, Go Further

Real Performance—Testing Environment 2

HIKVISION



See Far, Go Further

Real Performance—Device Installation 2

HIKVISION®



See Far, Go Further

Real Performance—Highlights(Based on test)

HIKVISION®

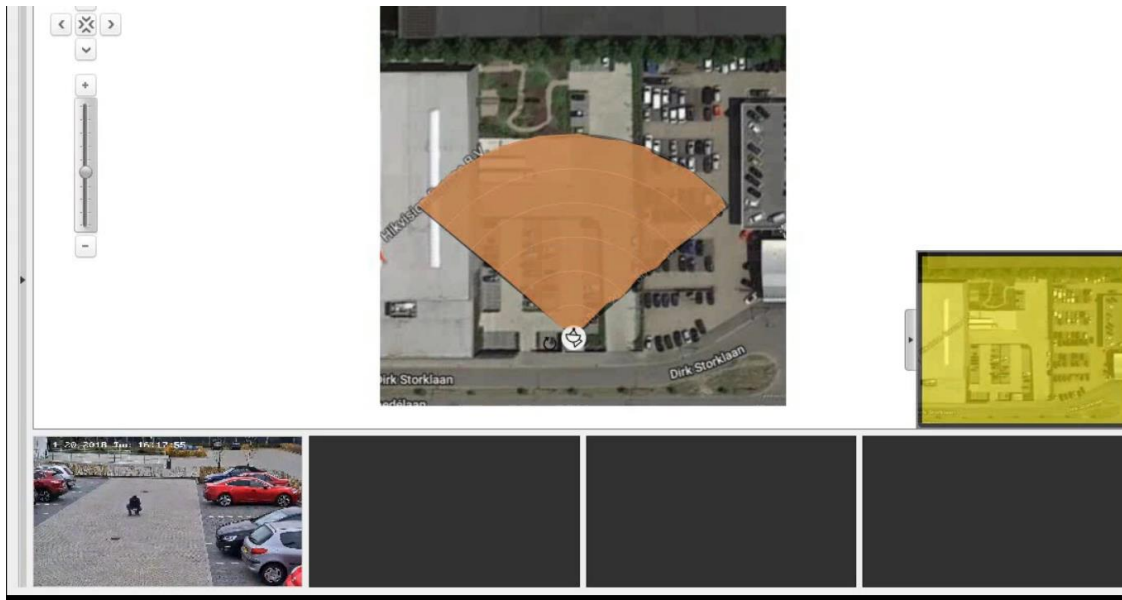
Highlights

- 1. Multi-Motion Detection & Accurate Tracking**
 - People: Crouching、 Crawling、 Walking、 Running
 - Cars: Low speed Cars
 - OSD of speed & distance
- 2. High Compatibility of Environment**
 - Cold & Rainy days
- 3. Easy Installation & Configuration**
 - Multi installation method
 - Draw zone manually & automatically
- 4. Sensitivity & Video Record Strategy Adjustable**
 - Shrub Mode/Open area mode/Expert mode
 - Time Priority/Range Priority/Multi-Target Auto Switch
- 5. Searching Trajectory with Video Record**

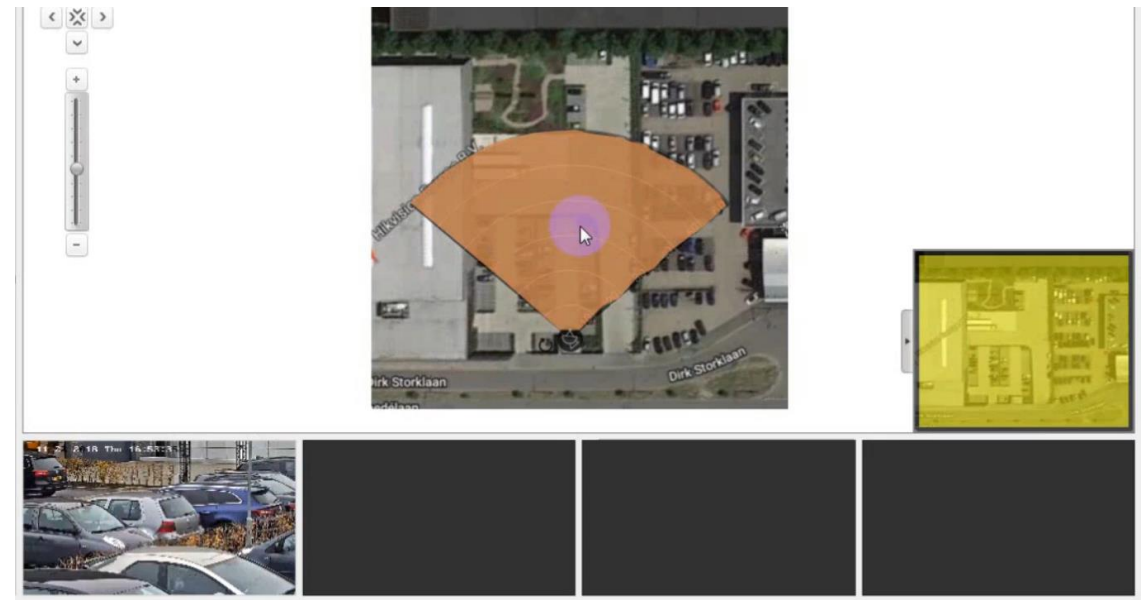


Real Performance—Multi-Motion Detection

Multi-Motion Detection



Crouching
(0.5-2m/s)

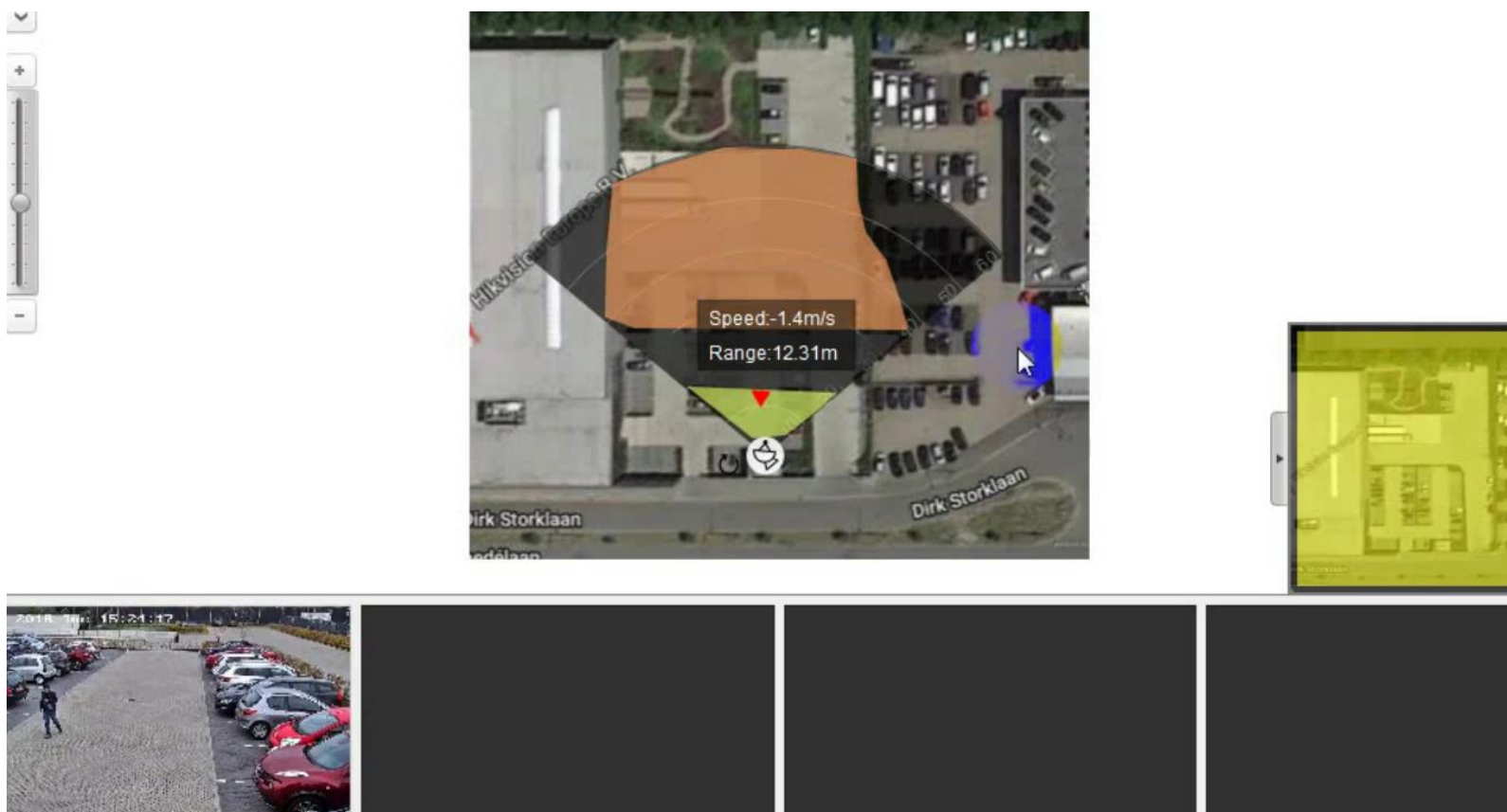


Crawling
(0.3-0.5m/s)

Speed range : 0.3m/s ~ 8.7m/s

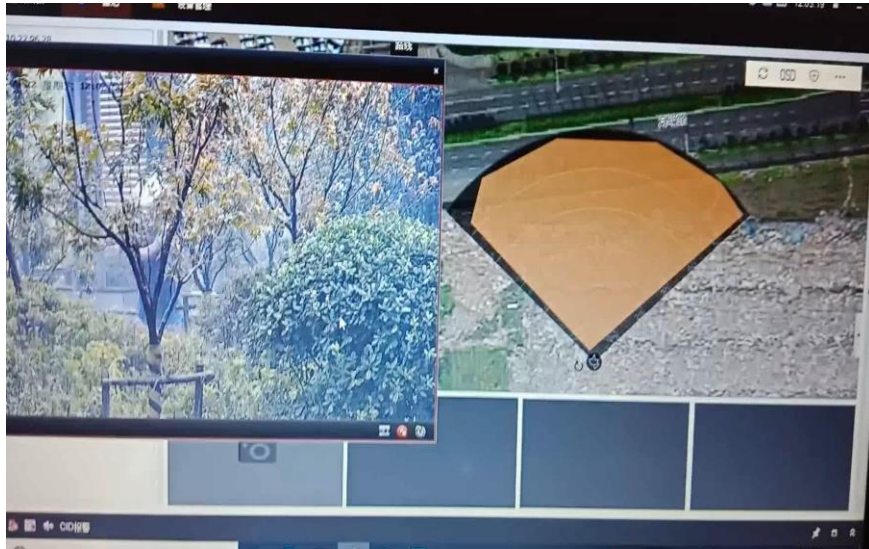
Real Performance---OSD

OSD of Speed & Distance

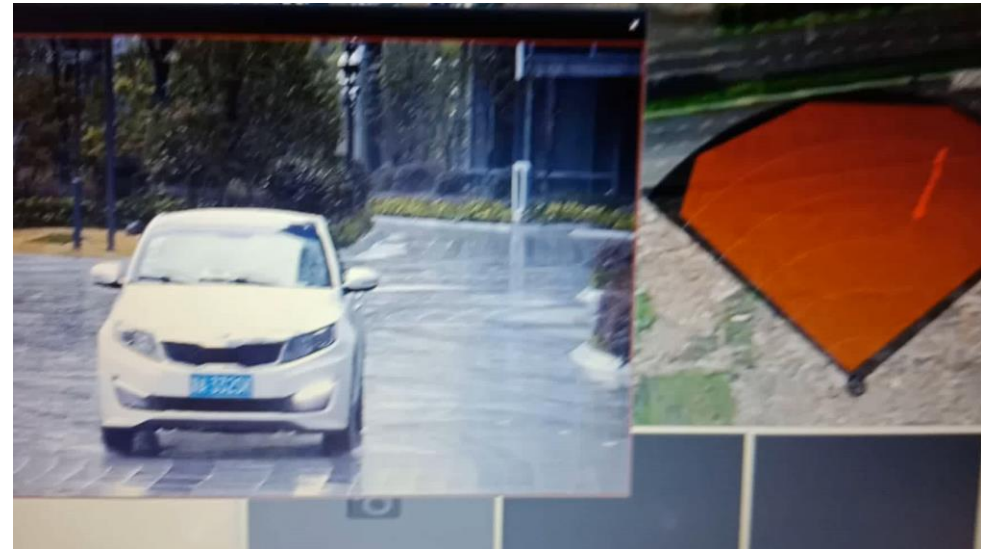


Real Performance—High Compatibility of Environment ^{HIKVISION}

Radar Performance in Severe Weather



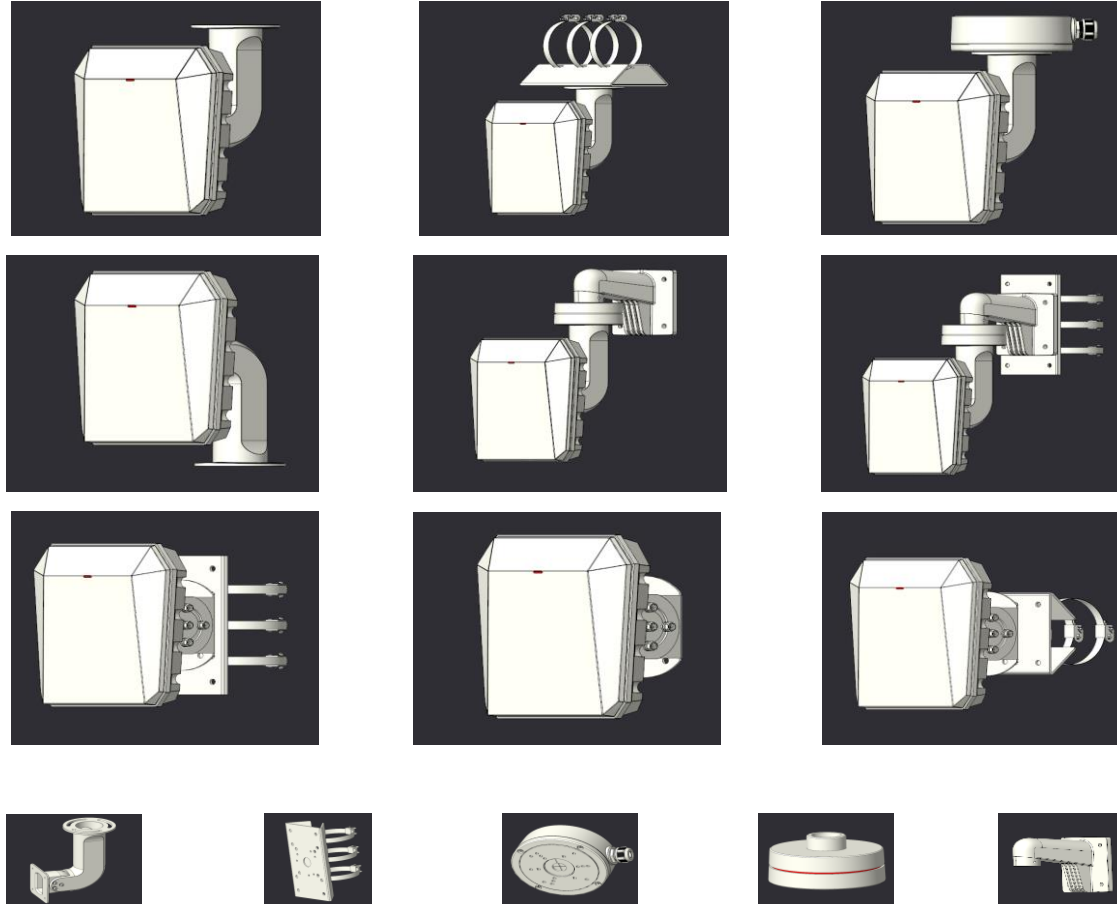
People in Heavy rain



Vehicle in Heavy rain

Real Performance—Easy Installation & Configuration **HIKVISION**

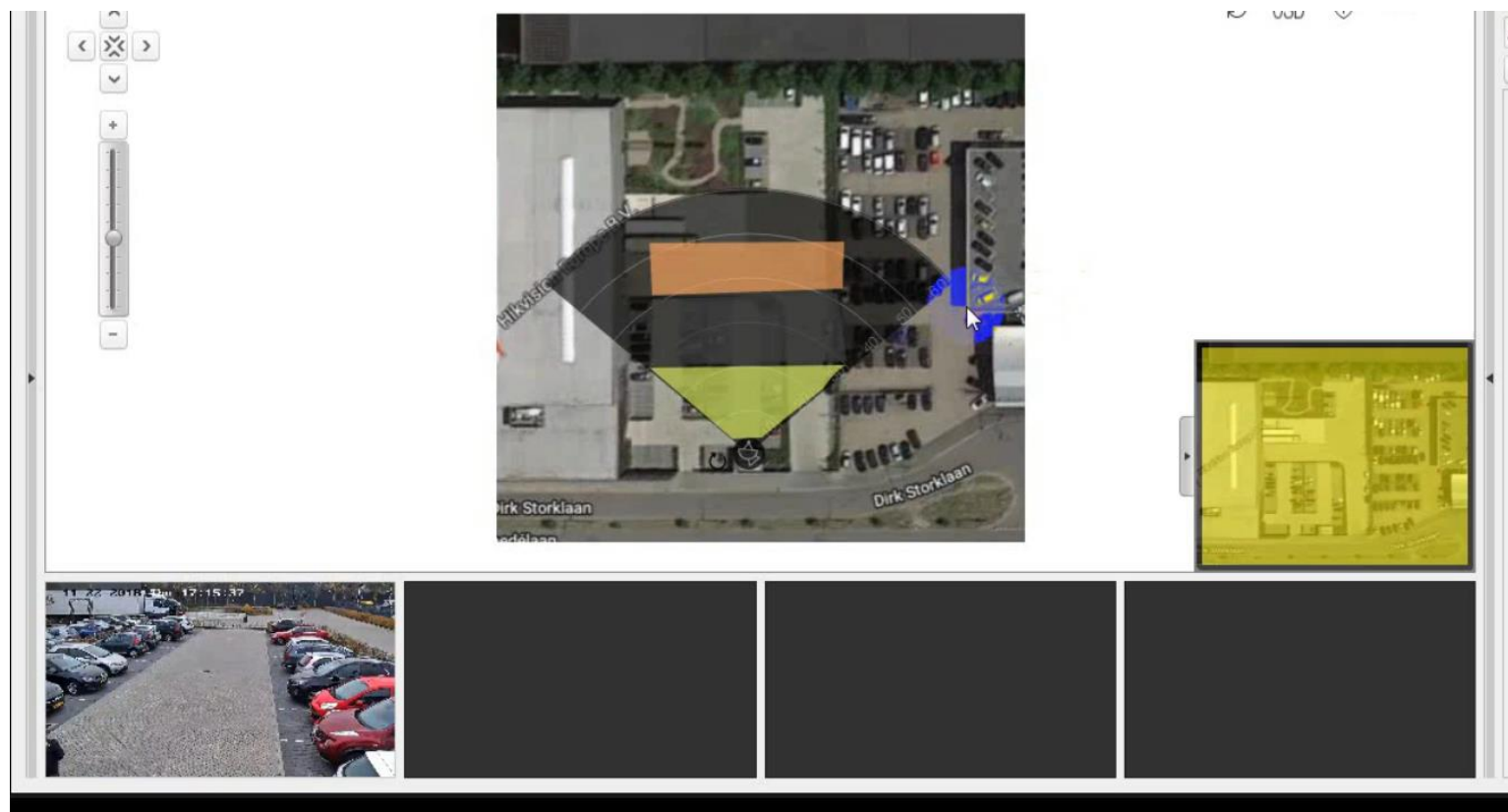
Multi Installation Method



See Far, Go Further

Real Performance---Multi-Target Auto Switch

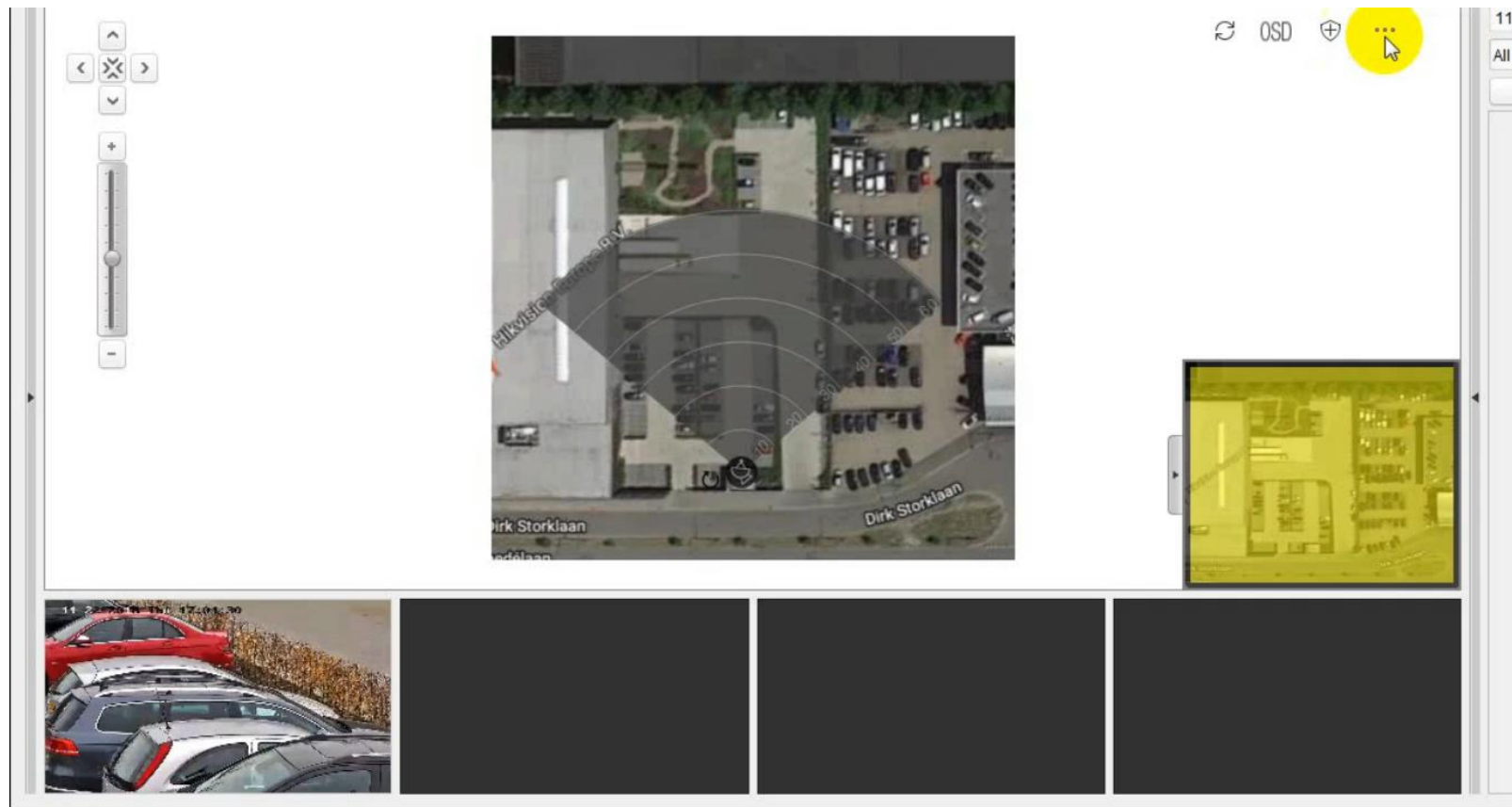
Multi-Target Auto Switch Mode



Real Performance—Draw zone Automatically

HIKVISION

Draw Zone Automatically



See Far, Go Further

Real Performance—Searching Trajectory with Video Record

Searching Trajectory with Video Record



Real Performance—False Alarm

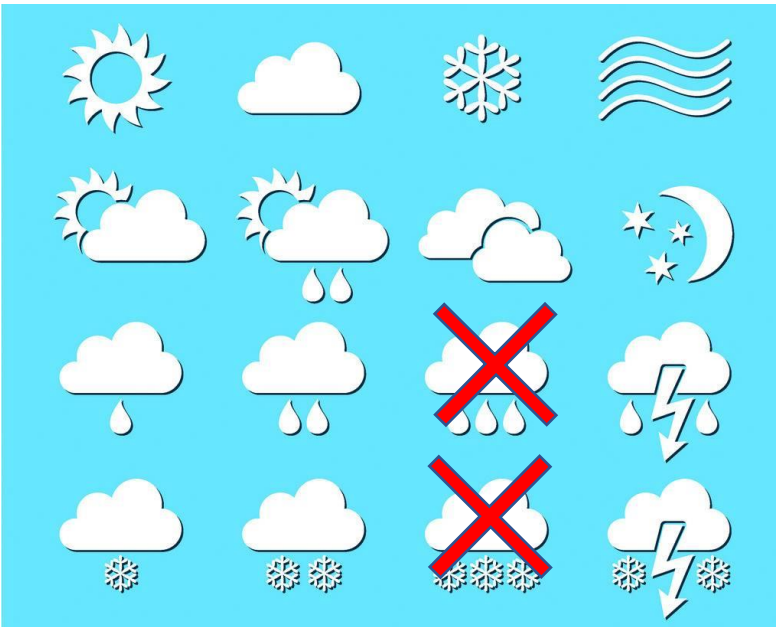
False Alarm Explanation

Wide range of trees or shrubs in strong winds could cause false alarm.



Can be filtered by shrub mode

Extreme weather like downpour could lead to false alarm.

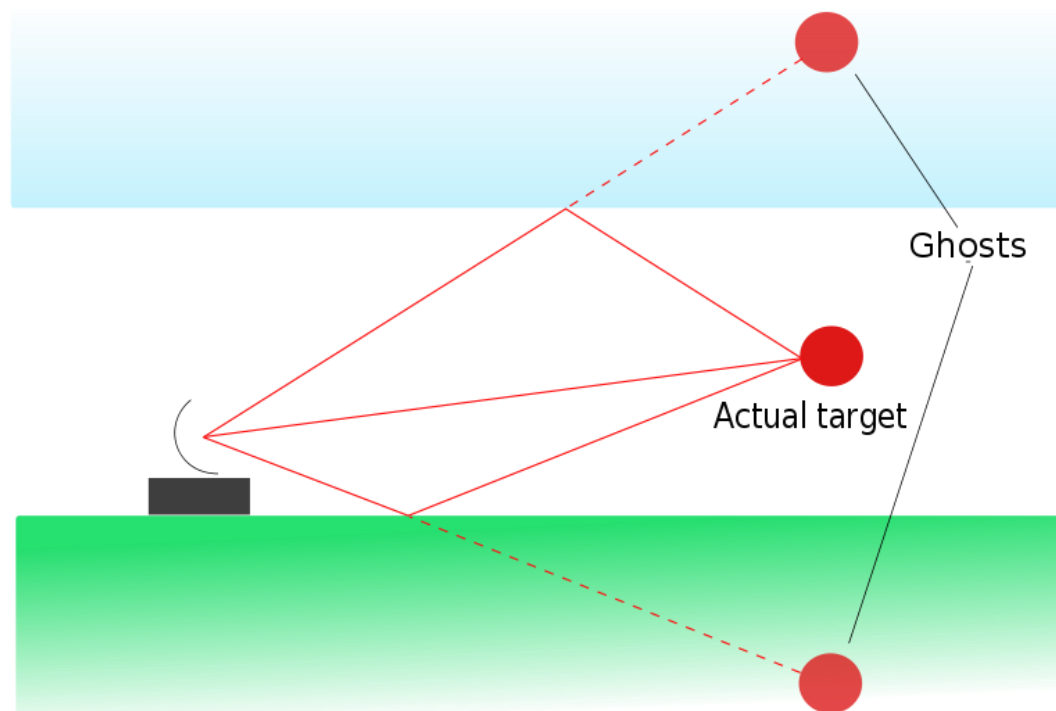


Can not be filtered currently

Indoor scene: Large-sized glasses, walls and metals lead to false alarm



False Alarm Explanation



- Except for straight reflected wave and ground reflected wave, the electromagnetic radiation has many scattered waves due to influence of other obstacles.
- These scattered waves will be received by radar and result in multipath propagation.
- In radar processing, multipath causes ghost targets to appear, deceiving the radar receiving.

PART

3

Emergency Alarm

Product List



DS-PEA1-21



DS-PEA1-N1

Panic Alarm Station



Panic Master Station

DS-PEA4L-7

DS-PEA1-21



DS-PEA2-21

Box Panic Alarm Station



Pole Panic Alarm Station

DS-PEA3M-21 DS-PEA3M-21H

Background



Main Board

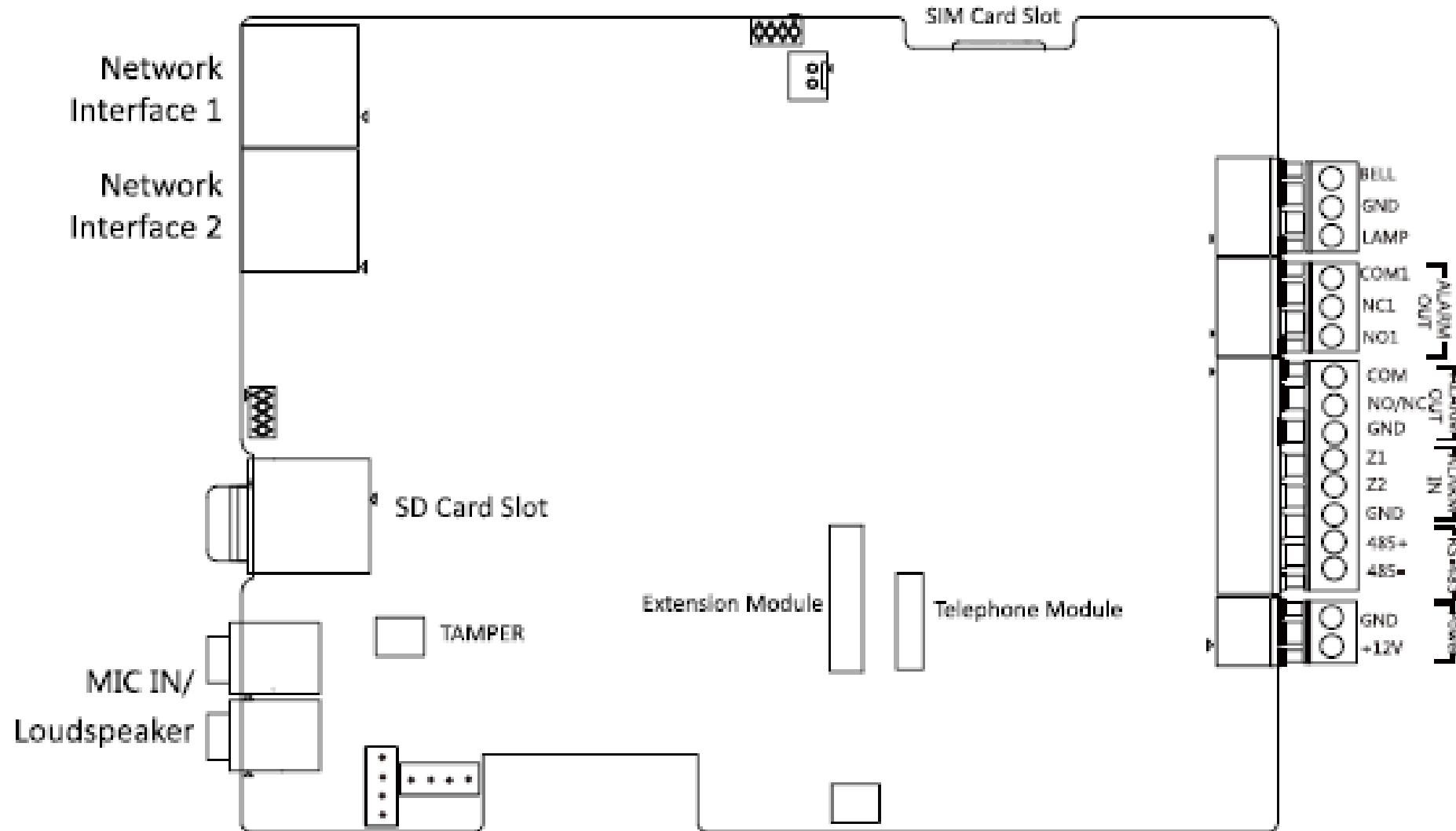
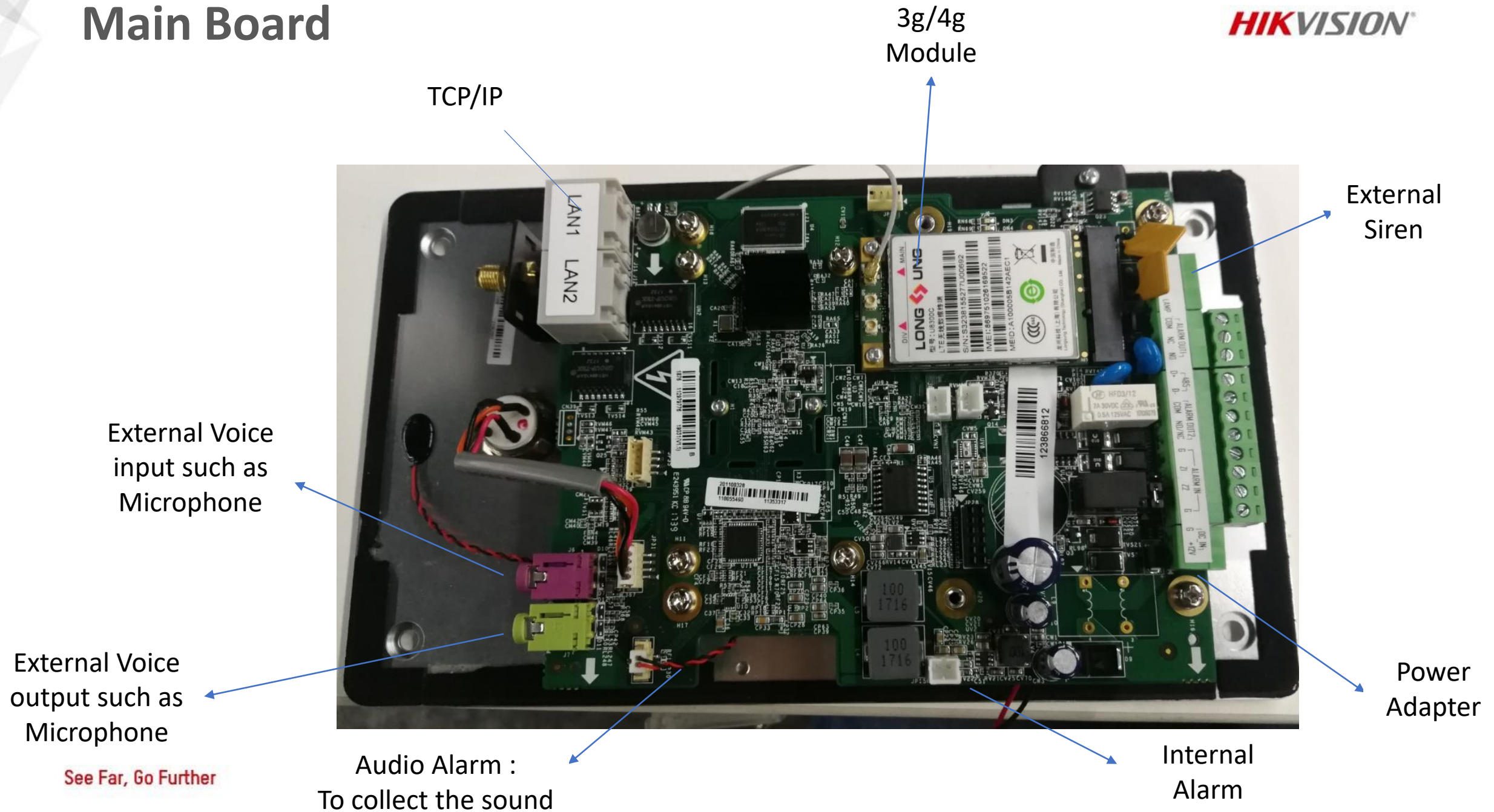


Figure 2-1 Mainboard of panic alarm station

Main Board

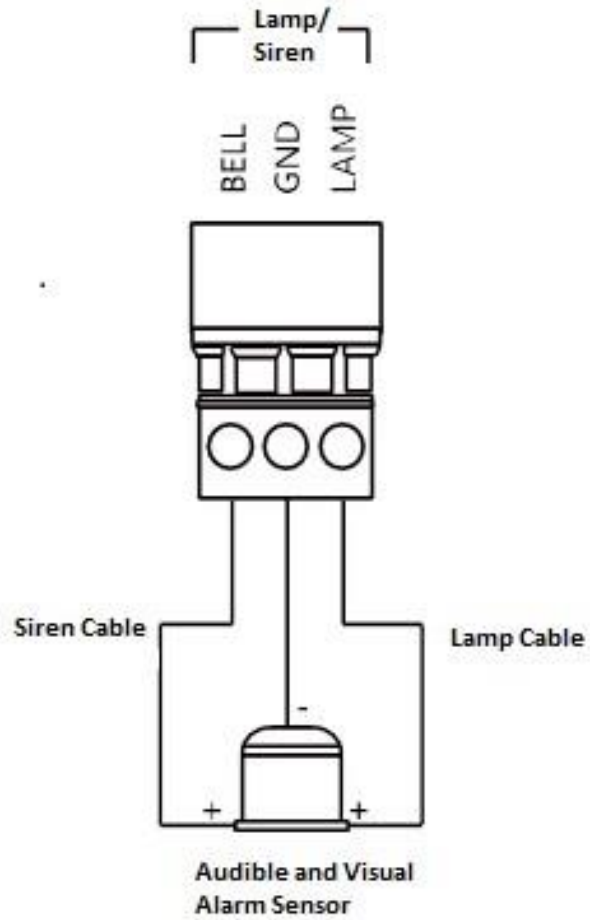


See Far, Go Further

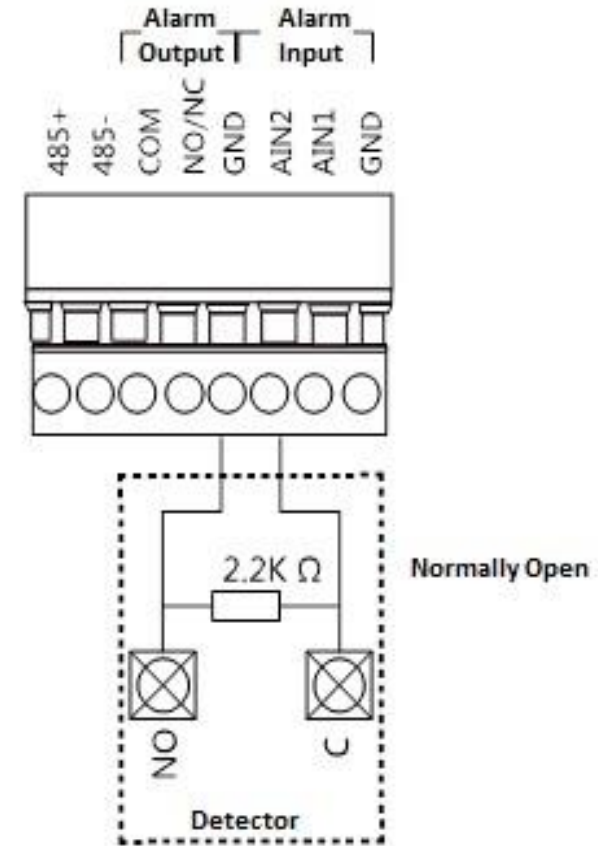
Audio Alarm :
To collect the sound

Internal
Alarm

Siren And Alarm Input Wiring

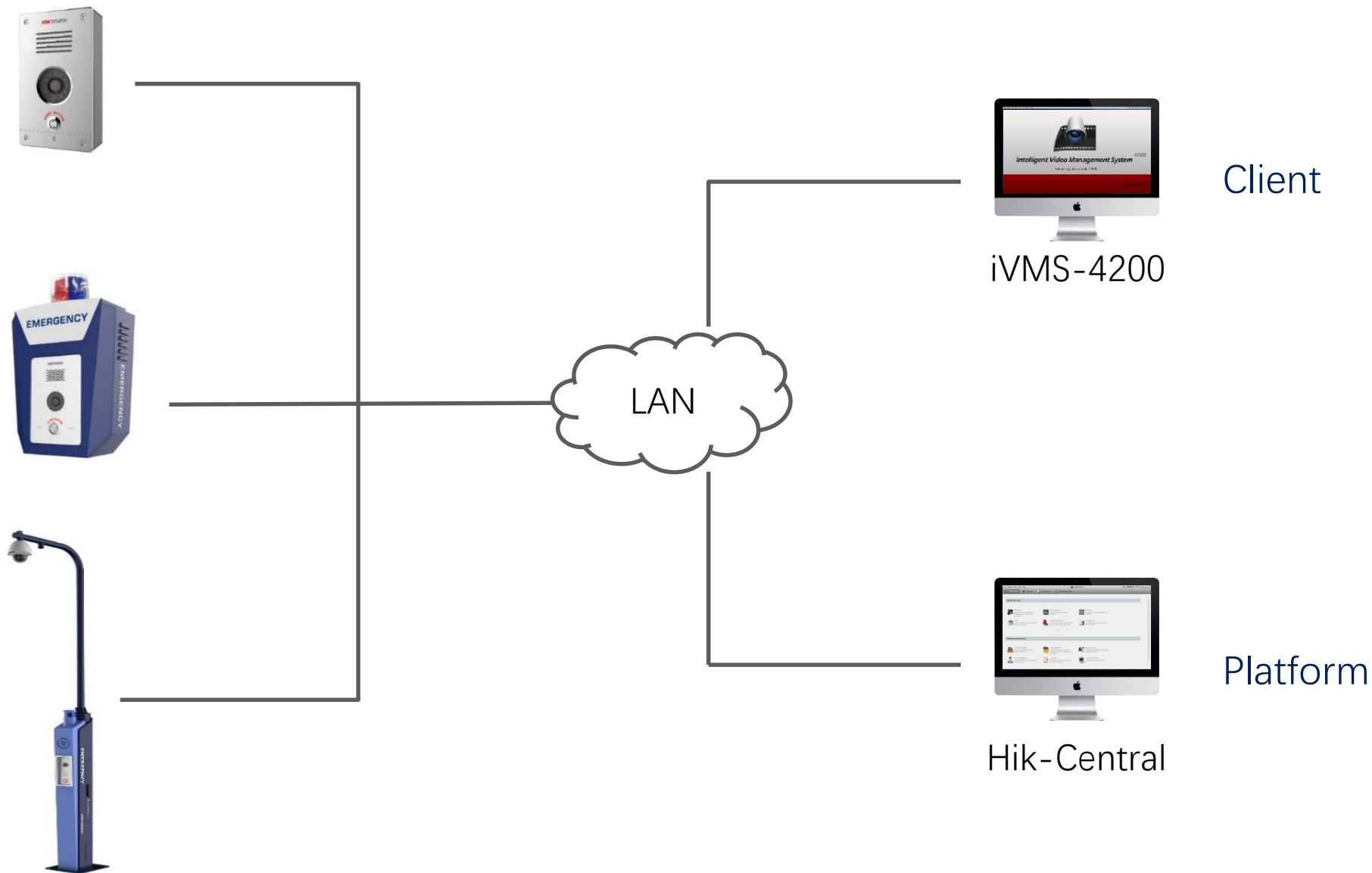


Audible and Visual Alarm Wiring



Audible and Visual Alarm Wiring

System Topology



System Topology



Demonstration

1.Configuration and demonstration with IVMS4200.

- ① Connect the device to 4200
- ② Show the basic device information
- ③ Demonstrate the Linkage Function between the Panic button with 4200
- ④ Show the meaning of the parameter in Wafting interface

2.Connect the devices with Alarm Master station

- ① Connect the Alarm Master station to 4200, set SIP server address (Alarm Master station address)
- ② Set Panic Alarm Station address and setup needs to connect the SIP server address.
- ③ Click on the panic button, and Alarm master station reply it.

3.Connect the devices with HikCentral

- ① Connect the Alarm Master station to HikCentral
- ② Configure logical View and Event & Alarm.
- ③ Configure Pop-up windows, related camera and map.

Device information

- **Device Serial NO**
- **Firmware Version**
- **Hardware Version**

The screenshot shows the 'Remote Configuration' window with the 'Device Information' section selected in the left sidebar. The main content area is titled 'Displaying the Device Information' and is divided into two sections: 'Basic Information' and 'Version Information'. The 'Basic Information' section contains several fields: Device Type (DS-PEA1-21), Local Zone Number (3), Siren Number (1), Network User Number (1), Number of Alarm La... (1), Local Trigger Number (2), and Analog Camera Nu... (1). The 'Version Information' section contains two fields: Firmware Version (V2.0.2 build 180705) and Hardware Version (0x901). The 'Firmware Version' and 'Hardware Version' fields are highlighted with a red border.

Basic Information	
Device Type:	DS-PEA1-21
Local Zone Number:	3
Siren Number:	1
Network User Number:	1
Number of Alarm La...:	1
Local Trigger Number:	2
Analog Camera Nu...:	1
Device Serial No.:	017AAWRC60872891C

Version Information	
Firmware Version:	V2.0.2 build 180705
Hardware Version:	0x901

SIP Setting

- Server IP/Server Domain
- Server Port
- Number
- Display Name
- Registration Period

Remote Configuration

Configuring the SIP Parameters

Enabled

Registration Status: Unregistered

Server IP Address:

Server Domain:

Server Port:

Number:

Display Name:

Registration Period: Minute(s)

Save

Device Information

System

Network

- General
- DNS
- SIP Settings**
- Cloud P2P Settings
- Platform Access

Input Settings

Output Settings

Storage

Image

Event

Alarm Management

Status

CCD

Zone Parameters

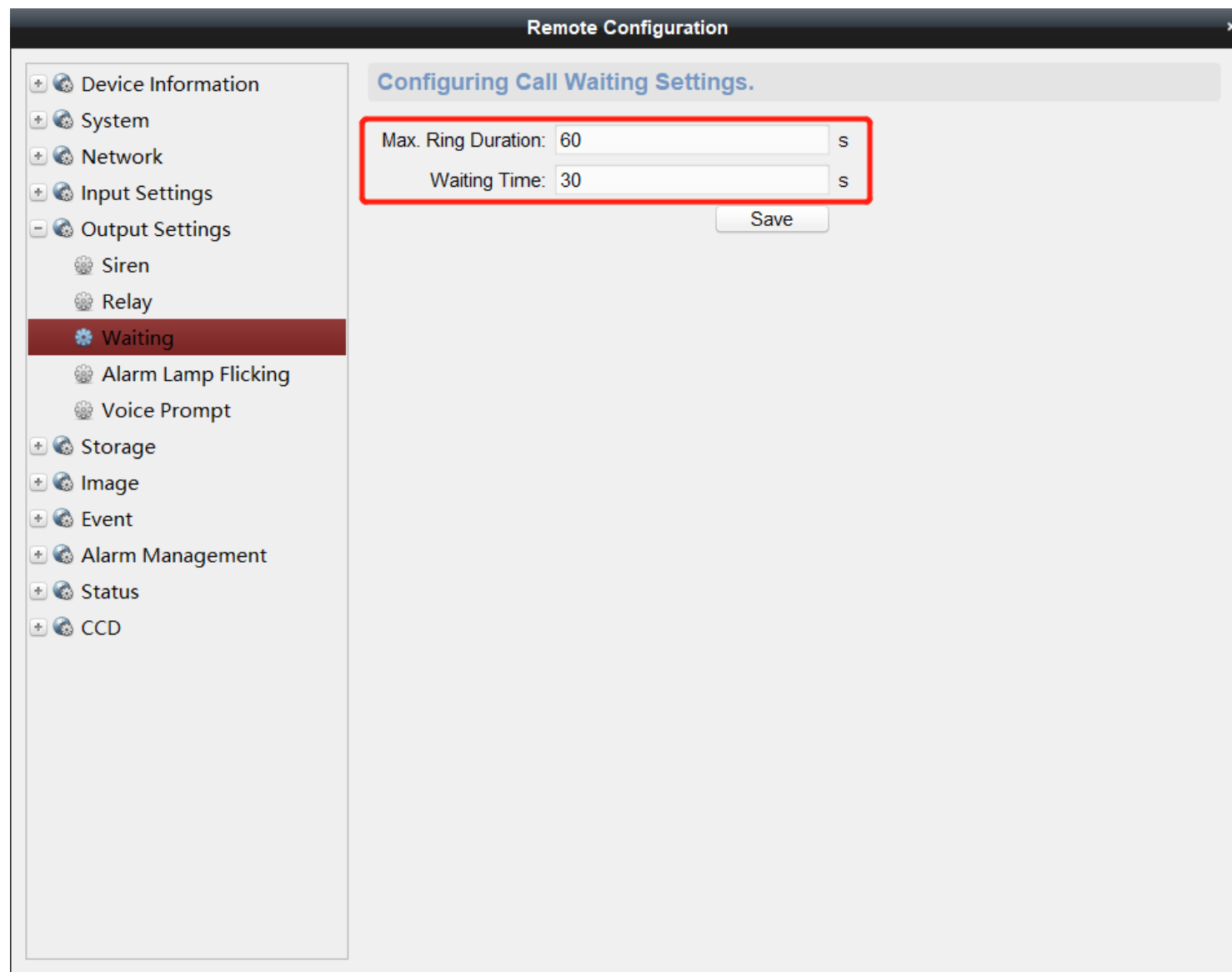
- **Two Alarm in (Backup)**
- **Zone 3 is Emergency button Alarm in**

The screenshot shows the 'Remote Configuration' window with the 'Zone' menu item selected in the left sidebar. The main area is titled 'Configuring the Zone Parameters' and contains a 'Basic Settings' tab with a table of zone configurations.

Zone	Name	Zone Type	Sensitivity	Siren Output	Settings
1	Alarm In	Shield Zone	500ms	Close	
2	Alarm In	Shield Zone	500ms	Close	
3	Emergency...	Shield Zone	500ms	Close	

Call Waiting Setting

- Max. Ring Duration(40~80s)
- Waiting Time(10~60s)



Video & Audio configuration

➤ Video Format Setting

The screenshot shows the 'Remote Configuration' window with the 'Video & Audio' section selected in the left-hand navigation menu. The main panel is titled 'Configuring the Image Quality, Resolution and Other Parameters of the Camera'. The 'Camera' dropdown is set to 'Camera1'. Under the 'Video' section, the following settings are visible:

- Stream Type: Main Stream
- Video Type: Video & Audio
- Bitrate Type: Constant
- Bitrate: 3072 Kbps
- Video Quality: Medium
- Resolution: 1080P(1920*1080)
- Frame Rate: Full Frame
- I Frame Interval: 25
- Audio Encoding: G711_U
- Video Encoding: STD_H264
- SVC: Close
- File Size Per Day: 31.0G

At the bottom of the configuration area, there are two buttons: 'Copy to...' and 'Save'.

Recording Schedule

- If you need recording the Video when someone trigger the Emergency button, you need select **Local Recording** and select **Recording Schedule**
- Zone 3:Emergency Call help also need select **Recording Linkage**

The screenshot displays the 'Remote Configuration' interface. On the left, a navigation tree shows 'Zone' selected under 'Input Settings'. The main area is titled 'Configuring the Zone Parameters' and contains a table with the following data:

Zone	Name	Zone Type
1	Alarm In	Shield Zone
2	Alarm In	Shield Zone
3	Emergency...	Shield Zone

A 'Zone Settings' dialog box is open for Zone 3. The 'Name' field is set to 'Emergency Call Help'. The 'Detector Type' is 'Emergency Switch', 'Zone Type' is 'Panic Alarm Zone', 'Sensitivity' is '500ms', and 'Tampering Type' is 'Disable'. The 'Audio Files' dropdown is set to 'Ringtone 2'. There is a checked option for 'Upload Alarm Rec...'. Below these fields, there are tabs for 'Linked S...', 'Alarm Lamp Link...', 'Linked Tri...', and 'Other'. The 'Other' tab is active, showing a list with two checked items: 'Select All' and 'Recording Linkage'. Red arrows point to these two items. At the bottom of the dialog are 'Copy To...', 'Save', and 'Cancel' buttons.

HikCentral Configuration



Browser address bar: http://127.0.0.1/#/home | 10.9.96.15 | Web Client

HikCentral Web Client | Site Map | Hi,admin

Configuration

This section offers functions used to configure the system.

- Remote Site Management
- Physical View
- Logical View
- Event & Alarm
- Access Level
- Time & Attendance
- Person
- Vehicle
- Security
- System

Applications

This section offers various applications to help security professionals.

- Live View
- Playback
- Local Configuration

Wizard

- Basic Settings Wizard

Help

- Web Client Video Tutorial
- Web Client User Manual

Maintenance

- Back Up and Restore System Data
- Export Configuration Data

License

- License Details
- License Expiry Date: 2019-05-01(Trial Period)
- Update License >
- Deactivate License >

Download Software

- HikCentral Control Client(V1.3.0)

HikCentral Configuration

Browser address bar: <http://127.0.0.1/#/home> | 10.9.96.15 | Web Client

HikCentral Web Client | Site Map | Hi,admin

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License

- License Details
- License Expiry Date: 2019-05-01(Trial Period)
- Update License >
- Deactivate License >

Download Software

- HikCentral Control Client(V1.3.0)

HikCentral Configuration

HIKVISION

➤ DS-PEA How to configure in HikCentral



DS-PEA How to configure in HikCentral.p

Thanks!