HIKVISION
First Choice for Security Professionals

Thermal Network PTZ Camera

V5.5.111 build240926

Release Note

(2024-10-17)

HIKVISION
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1. Basic Information

Firmware Version	V5.5.111 build240926
SDK Version	V6.1.9.30 build20220610
Play Lib	V7.4.1.48
iVMS-4200	V3.7.4.3 build20220630
Web Component/Plugin Version	V4.0.1.2 build240905/3.8.0.26
Temperature Measurement Algorithm Version	V2.1.9 build20230928
Perimeter Protection Algorithm Version	V1.9.4 build20240525
Ship Detection Algorithm Version	V2.0.4 build20210729
Smoke Detection Algorithm Version	V2.3.0 build20230614
Fire Source Detection Algorithm Version	V6.2.6 build20240304
Vehicle Detection Algorithm Version	V2.0.3 build20210121
AI Open Platform Algorithm Version	V1.2.205 build20220621
Smart Target Enhancement Algorithm Version	V1.0.0 build240412

2. New Features and Optimization Functions

2.1 Smart Function

2.1.1 Fire and Smoke Detection

A. Area Recognition

In real scenario of fire and smoke detection, there may be some false alarms from houses and chimneys, which users can draw shield regions to avoid, but it will take huge time to draw the shield region manually.

With Area Recognition function, camera will automatically identify the houses and chimneys, and then create the shield regions automatically. After one round scanning, the camera can automatically identify the houses and chimneys and filter out these false alarms.

Tips: After the scanning, users need to turn off the area recognition manually.

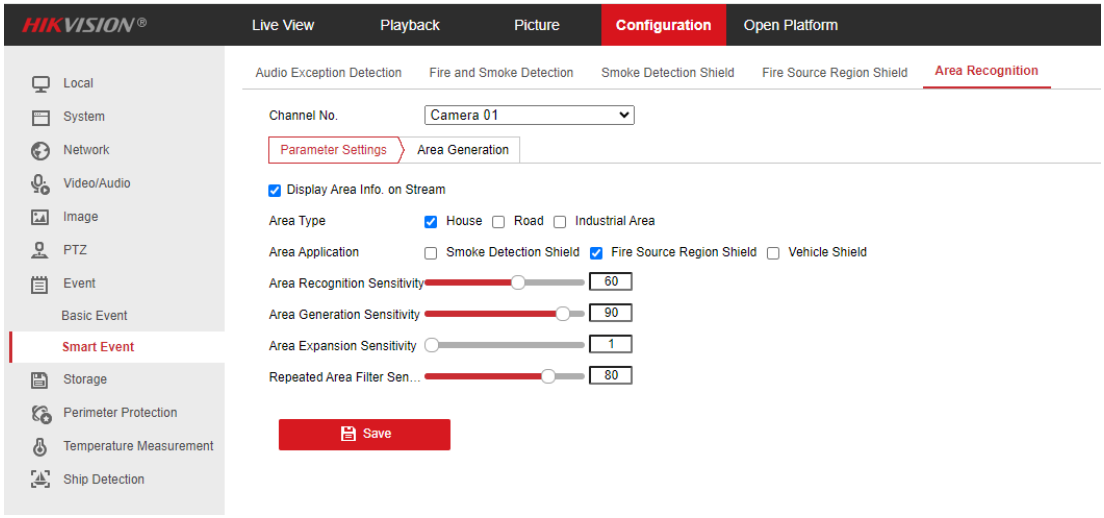


Figure 1

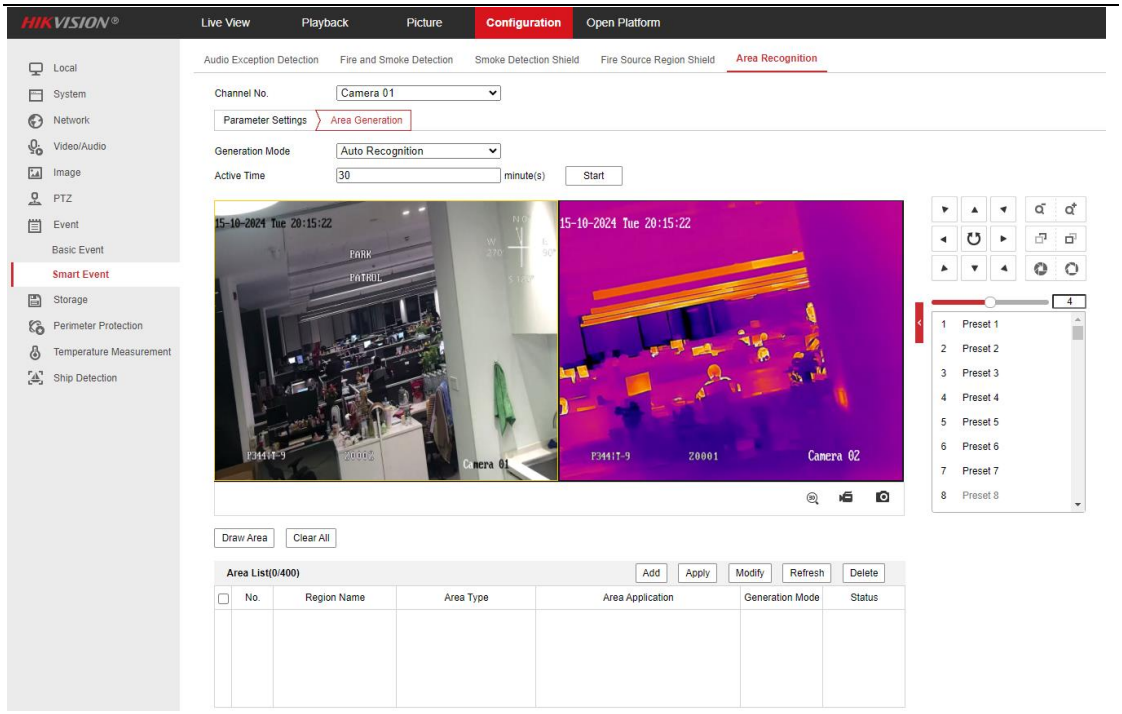


Figure 2

B. Self-Adaptive Scene Mode

In fire and smoke detection, camera supports Self-Adaptive Scene Mode. If users turn of this function, camera algorithm will identify different scenarios, and use recommended algorithm automatically.

When turn on the self-adaptive scene mode, the algorithm will identify different application scenarios by thermal view, including: forest, city, etc.

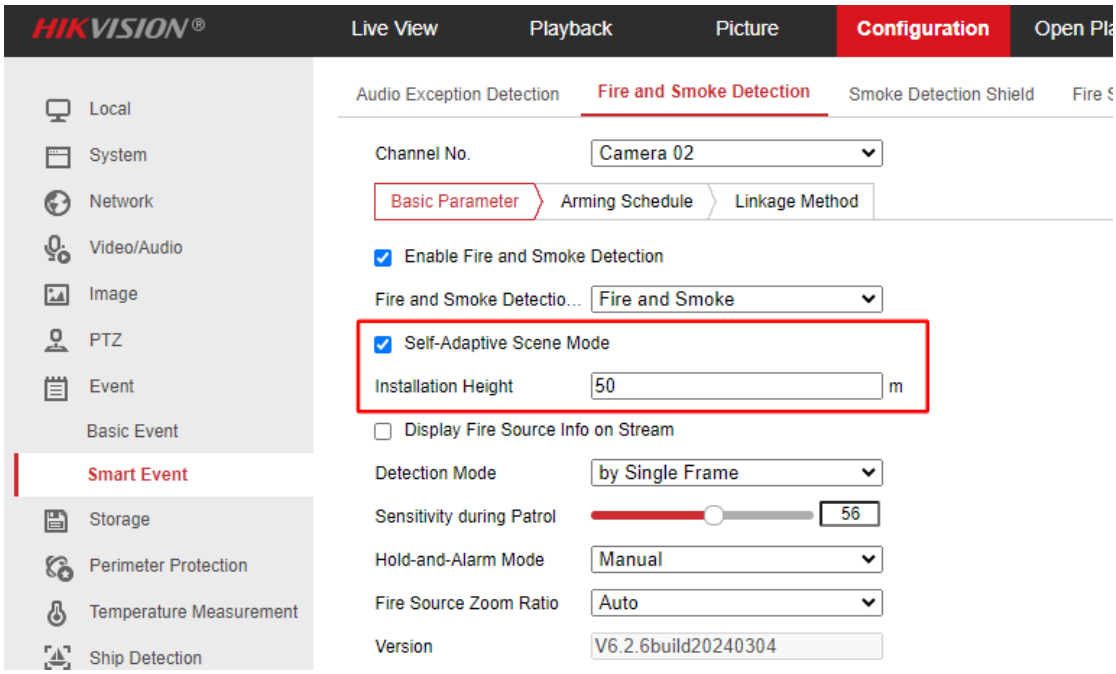


Figure 3

C. Smoke Color Classification

Our thermal cameras have ability to detect black smoke in some scenarios. Camera algorithm supports to classify the color of smoke, and upload the smoke color field to third-party platform, so that users can have some filters, to avoid some unconcerned alarms.

D. Add to 10 Liner Scan Region Paths

In 5.5.111 build240926 version, liner scan supports 10 scan region paths.

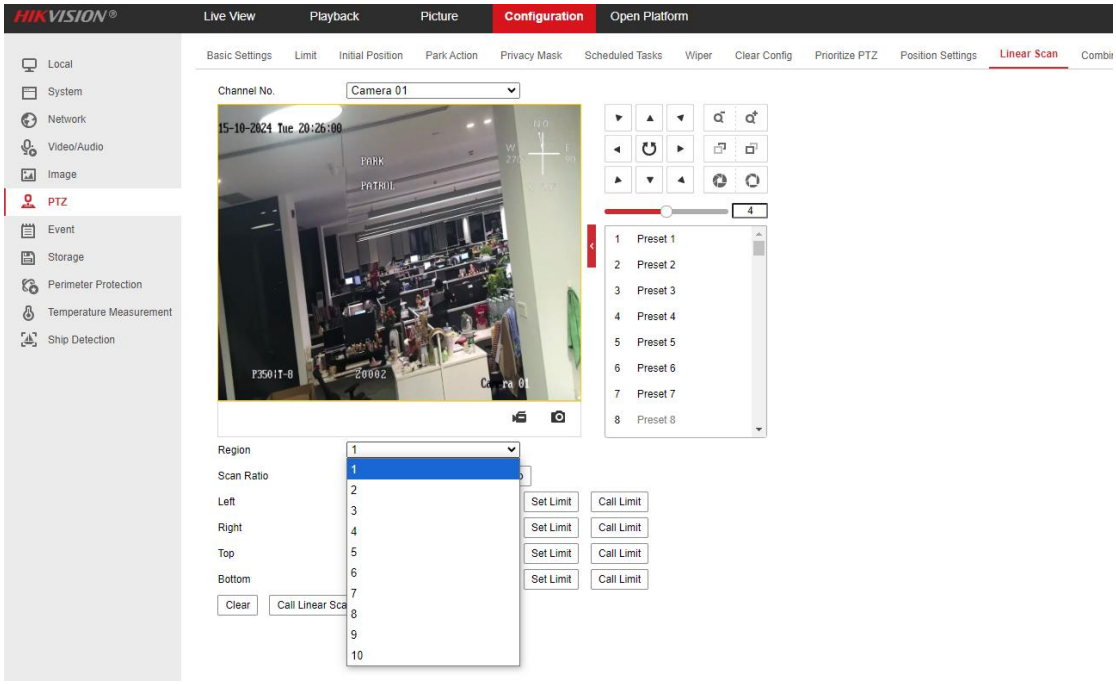


Figure 4

2.1.2 Perimeter Protection

A. Ship VCA Target Enhancement

In parameter protection function, ship targets will be highlighted by color palettes in thermal channel.

Tips: Now only support in water scenarios, ship targets.

Ship target enhancement is mutually exclusive from smart noise reduction, image enhancement and color palette.

Ship target enhancement uses display vca info by video mode. All supported platform and VMS can show the ship target enhancement.

Related functions: Video overlay, alarm capture, recording.

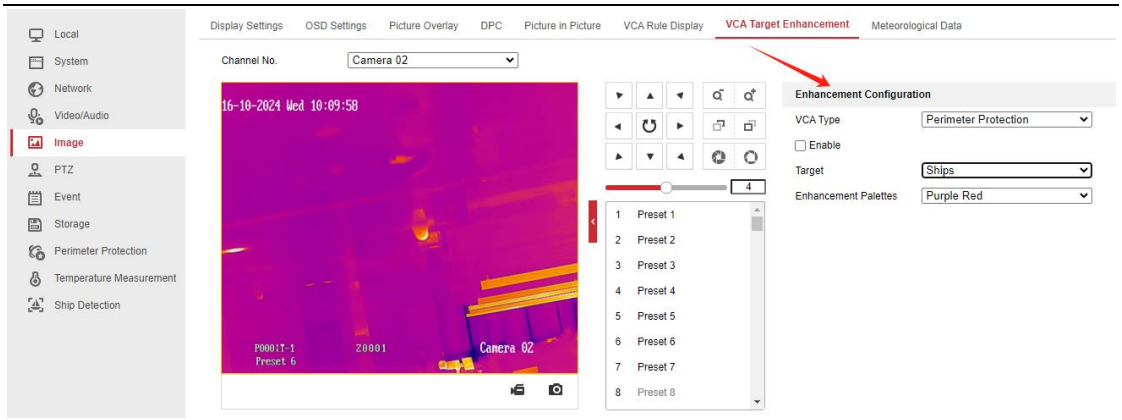


Figure 5

Exclusive function information:

智能降噪与智能分析互斥，请关闭智能分析后重试。	Smart Noise Reduction conflicts with Perimeter Protection. Please disable Perimeter Protection and try again.
智能分析与智能降噪互斥，请关闭智能降噪后重试。	Perimeter Protection conflicts with Smart Noise Reduction. Please disable Smart Noise Reduction and try again.
智能目标凸显与智能降噪互斥，请关闭智能降噪后重试。	VCA Target Enhancement conflicts with Smart Noise Reduction. Please disable Smart Noise Reduction and try again.
智能降噪与智能目标凸显互斥，请关闭智能目标凸显后重试。	Smart Noise Reduction conflicts with VCA Target Enhancement. Please disable VCA Target Enhancement and try again.
开启失败，仅白热和黑热调色板模式下支持智能目标凸显。	Enabling failed. VCA Target Enhancement is only supported in White Hot and Black Hot Palettes.
已开启智能目标凸显，仅支持白热和黑热。	VCA Target Enhancement enabled, only White Hot and Black Hot are supported.
智能目标凸显与显示设置中的目标凸显互斥，请关闭目标凸显后重试。	VCA Target Enhancement conflicts with Target Coloration in Display Settings. Please disable Target Coloration and try again.
目标凸显与智能目标凸显互斥，请关闭智能目标凸显后重试。	Target Coloration conflicts with VCA Target Enhancement. Please disable VCA Target Enhancement and try again.

Figure 6

Function preview:

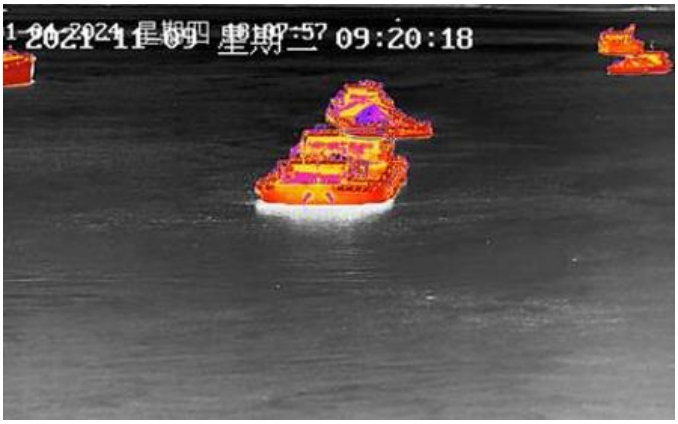


Figure 7

2.1.3 Ship Detection

A. Ship Flow Detection Optimization

In ship flow detection, now it supports custom mode in rule configuration, to set upward or downward mode. Previous rule will be the normal mode.

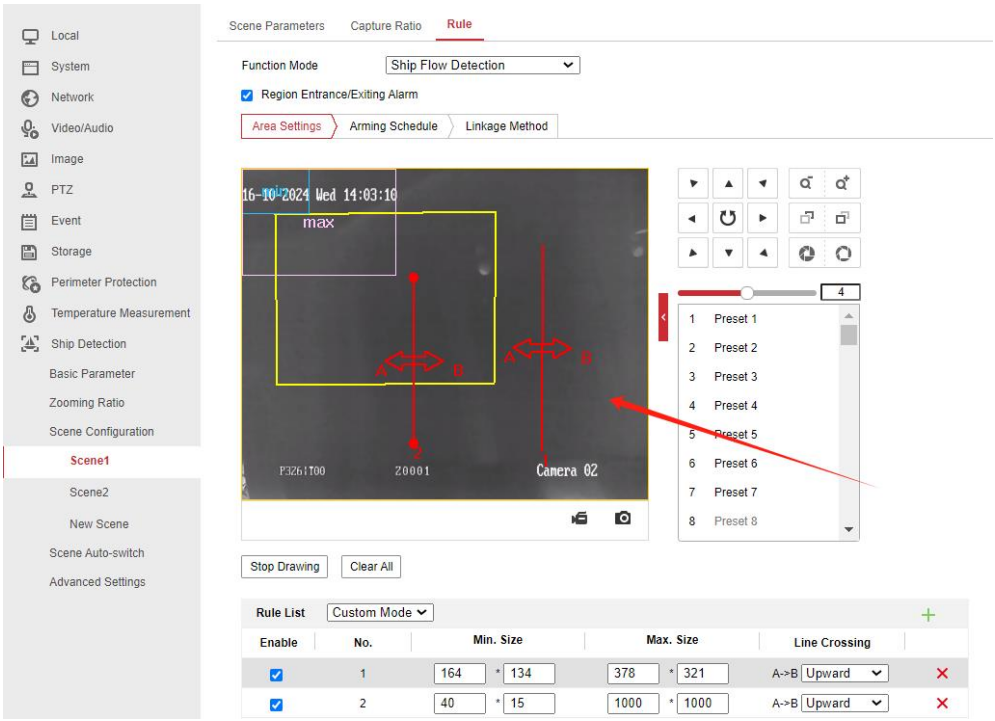


Figure 8

2.2 Temperature Measurement

2.2.1 Reflect Light Filter Supports Flame Pattern Filtering

We add new fire features algorithm in baseline Reflect Light Filter, to prevent from missing alarm.

All models with reflect light filter support this new feature.

2.2.2 Temperature Range in second range by default of thermography cameras

The temperature range of thermography cameras will be at the second level by default.

2.2.3 Supports two sets of Temperature alarm parameters

Thermography models can have two sets of alarm temperature, use in working time and non-working time.

In working time, there will be vehicles, different equipment, the alarm temperature is higher. In non-working time, there will be less targets which can trigger false alarm, the alarm temperature can be lower, so that camera can give alarm more quickly.

All thermography models support this function.

2.2.4 Temperature Filter Notification Optimization

Previously, in temperature measurement function, both the reflect light filter and

forklift filter notifications are “filter on”.

After the upgrading, the notification will show the filter name, such as “forklift filter on”, or “reflect light filter on”.

All thermography models support this function.

2.2.5 Temperature range checking optimization in Thermography cameras

When the users set the temperature level in level 1 (low temperature range), but there are high temperature targets, then the alarm cannot be triggered. To prevent from above problem, v5.5.111 will automatically check the real temperature range when users change the temperature level.

2.2.6 Forklift filter turn on/off in different rules

Under temperature measurement expert mode, users can turn on/off the forklift filter base on every single rule.

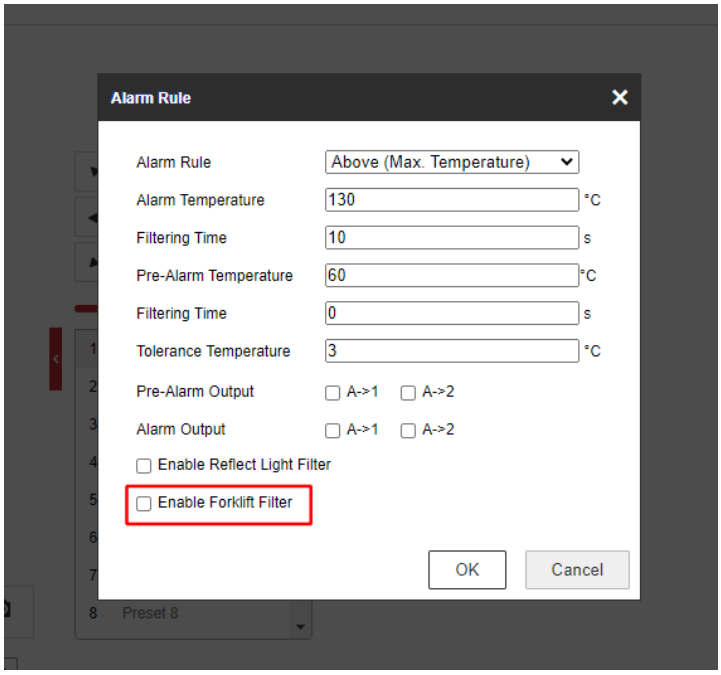


Figure 9

When users upgrade to v5.5.11 first time, previous forklift filter will be given to every rules automatically. It will not change previous function.

2.2.7 Reflect filter turn on/off in different rules

Same as forklift filter, under temperature measurement expert mode, users can turn on/off the reflect light filter base on every single rule.

2.2.8 Temperature measurement rules supports dynamic adjustment

Previous: In expert mode, users can set 10 points, 10 boxes and 1 line, 21 rules in total.

New: In expert mode, users can set 21 points, or 21 boxes or 21 lines. The total rules

quantity is 21.

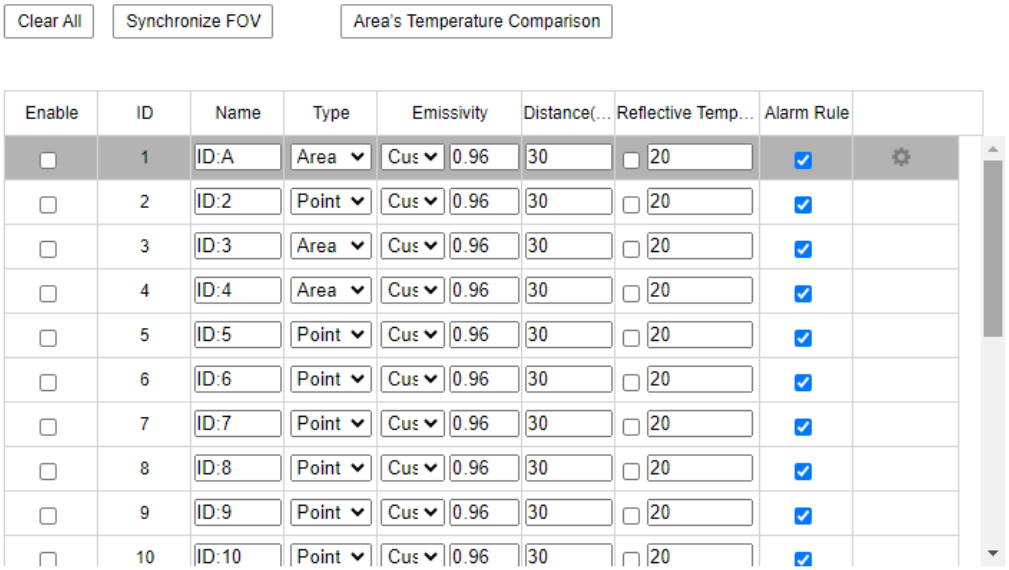


Figure 10

All models which have temperature measurement function support.

2.3 Network

2.3.1 Network Security

a) IP address field filter.

b) MAC address filter.

c) SSH port configuration and port mapping are supported.

d) WEB/RTSP authentication is reinforced.

e) The quantity of login users of WEB can be configured.

f) Bonjour service can be enabled through web page.

g) Network process componentization code optimization: DDNS and NTP componentization.

2.3.2 OTAP Protocol Integration

Camera supports OTAP protocol.

Camera supports following functions by OTAP protocol:

a) Support configuration by OTAP protocol.

b) OTAP protocol dynamic capability acquisition.

c) OTAP live view

d) OTAP playback

e) OTAP audio intercom

f) Support Video channel field
g) Support OTAP transfer ISAPI
h) Support OTAP event subscription
i) Support OTAP upload the hard disk abnormal alarm and hard disk full alarm.
j) Support OTAP illegal access alarm upload
k) Support OTAPIO output field
l) Support OTAPIO input field
m) Support check basic device information by OTAP
n) Support OTAP log query
o) Support OTAP protocol security reinforce
p) OTAP online upgrade
q) Support OTAP restart device
r) Support OTAP simple recovery/full recovery

2.3.3 Add HTTP Order Function

F3, F6, CGI send or receive order, then link the camera or third-party alarm box's alarm output.

Temperature measurement, perimeter protection support custom http order and upload to third-party alarm server and CGI order.

Functions included:

a) Support http order server configure
b) Support http order link alarm input
c) Support http order link perimeter protection
d) Support http order link temperature measurement

2.3.4 Network Alarm Box

From v5.5.111, baseline device supports ADAM, ARTECO and FM2466 alarm box.

This function will reduce the costs of wiring by third-party alarm box extending alarm quantity, mainly in industrial factories perimeter protection scenarios.

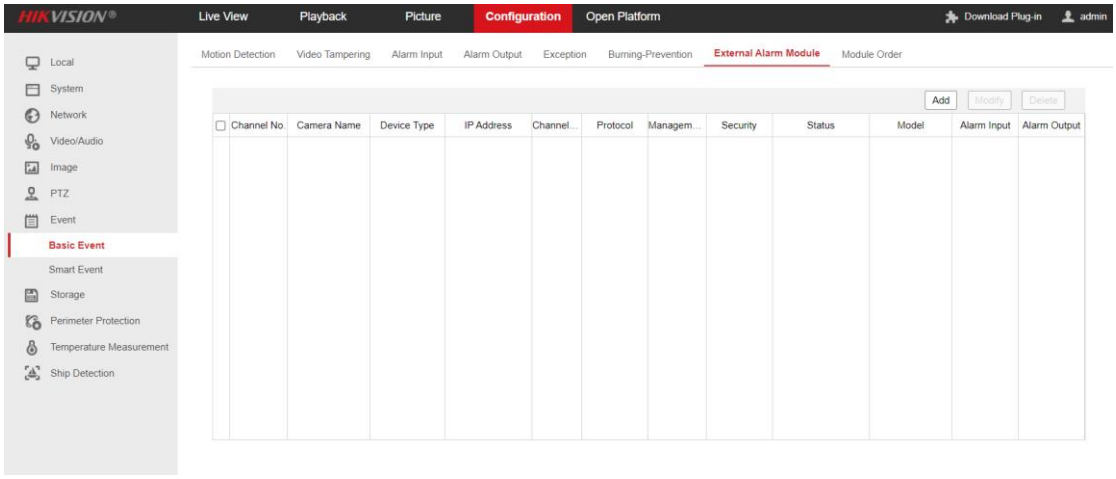


Figure 11

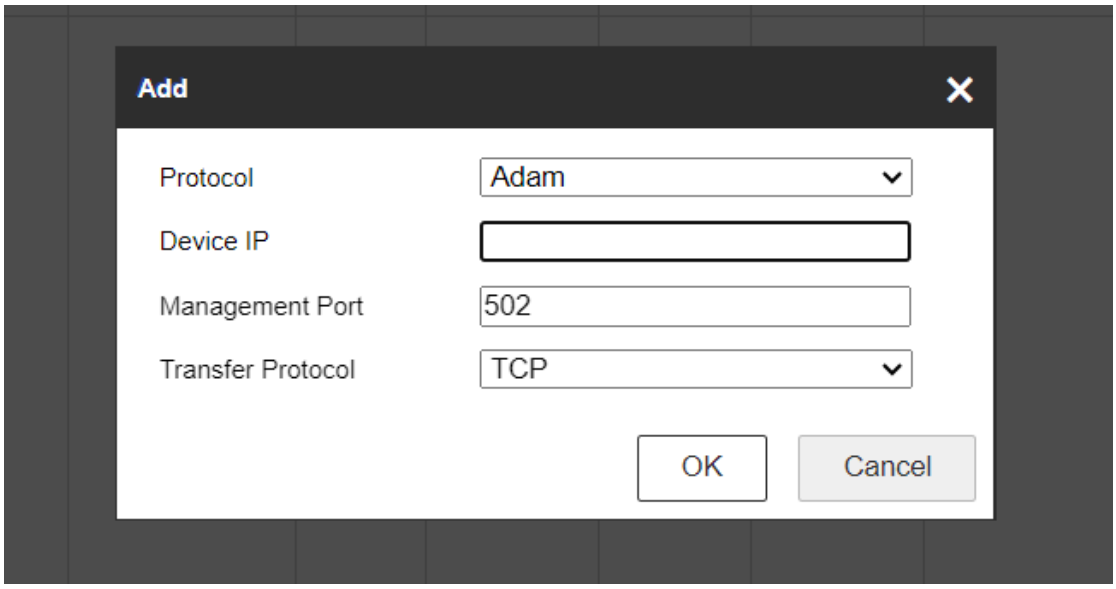


Figure 12

2.4 Focus

2.4.1 Optimization of thermal lens focus.

a) Thermal stepwise motor optimization

b) Thermal lens temperature compensation optimization

2.5 PTZ

2.5.1 PTZ Lock

Add “Lock PTZ” function button in smoke and fire detection function configuration page, to avoid the pan/tilt/zoom of camera, to help users to do the configuration more conveniently.

Users can manually turn on/off the lock. If users turn the function on but doesn't turn off, the lock will be released in several time.

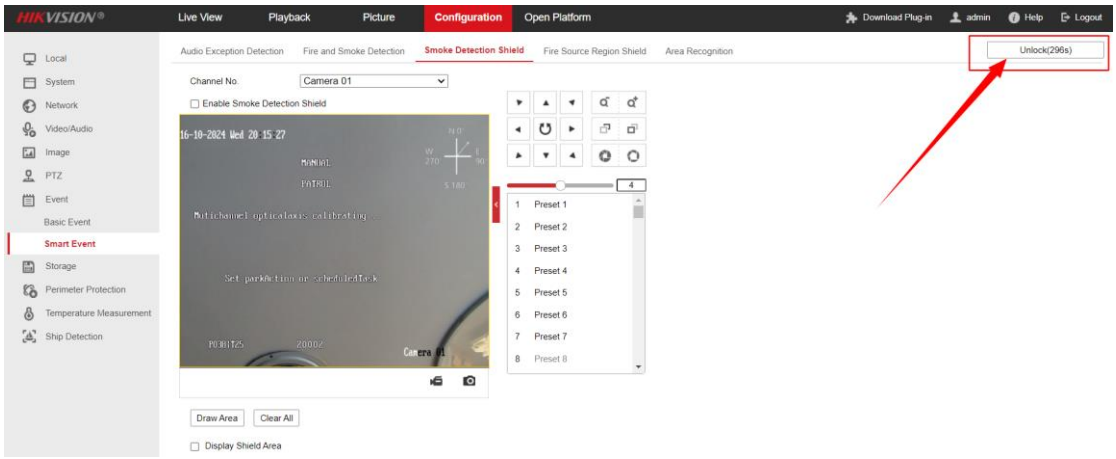


Figure 13

2.6 OSD

2.6.1 Custom Characters Optimization

Previous: Channel name (max 32 characters), custom characters (max 44 characters).

New: Extend to 64 characters.

Compatibility: Compatible with previous protocols, compatible with multi-platform, compatible with old and new databases. The data is independent, there may be data inconsistency between new and old versions.

2.6.2 Character size optimization

Add new character size: 80*80, 96*96, 112*112, 128*128.

2.6.3 Menu Layer and Status Bar Optimization

PTZ and preset information bars can be dragged to different position in both thermal channel and optical channel.

The default character in web page live view is PTZ.

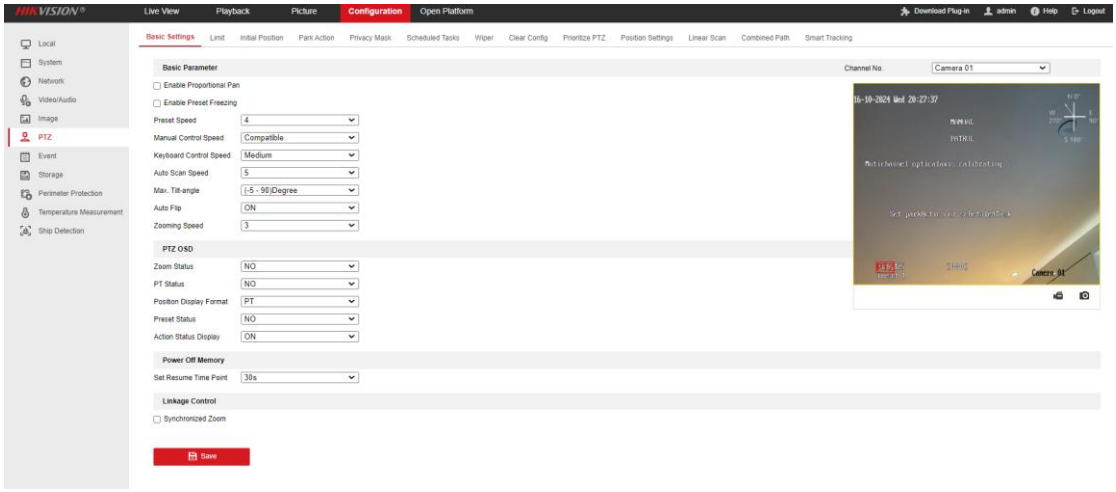


Figure 14

a) Preset name extend to 43 characters in maximum.

b) Preset name can show in thermal channel, same as optical channel.

c) PT information can show in thermal channel, same as optical channel.

2.7 System

2.7.1 Recording Settings of SD Card

Support record fire size management in SD card. Users can choose 64M, 128M or 256M record file size.

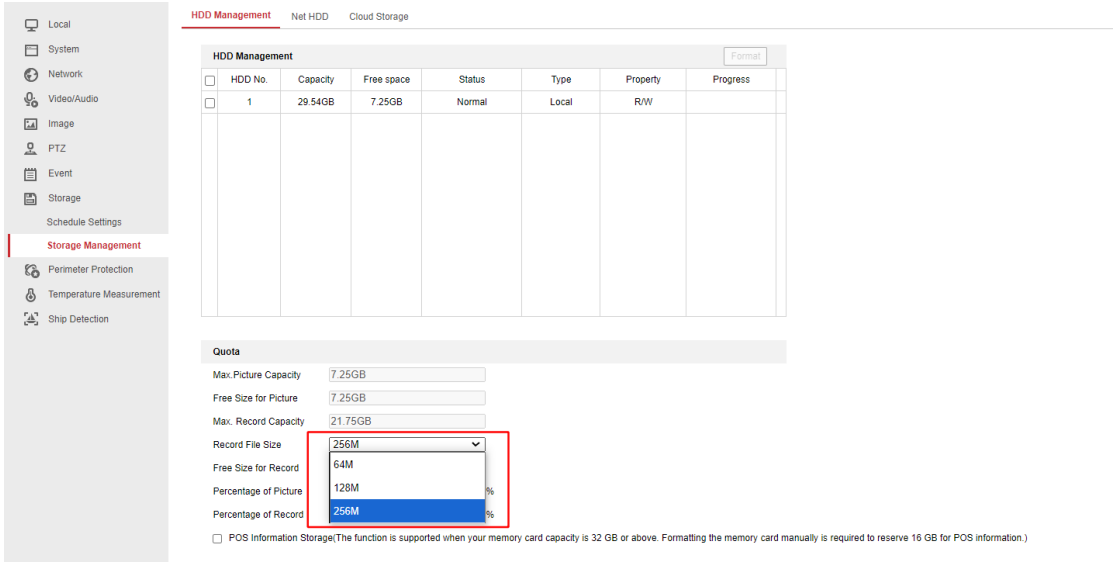


Figure 15

2.7.2 Smart Noise Reduction Gain Level

In some scenarios, day and night can have big difference, and the AI enhancement function can't be suitable in both day and night. Because of this, we add new smart

noise reduction configuration.

Auto mode: ISP will adjust the gain mode automatically by scenario.

Manual mode: there are three gain level (level1, level2, level3), the higher the gain level, the more image details, and at the same time more image noise.

When the image turns to default image, Level will change, but the smart noise reduction will still be on.

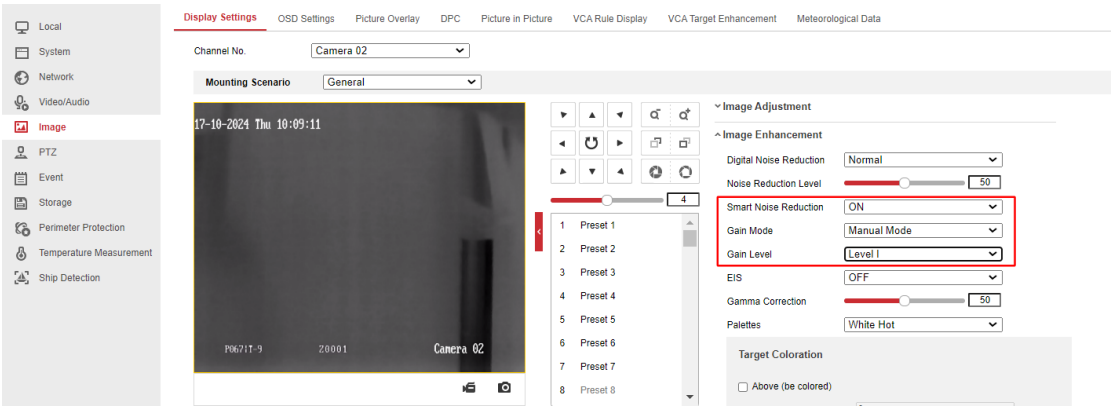


Figure 16

2.8 External Module

2.8.1 Support Alarm Output Regularly Trigger

Support to set the regular trigger.

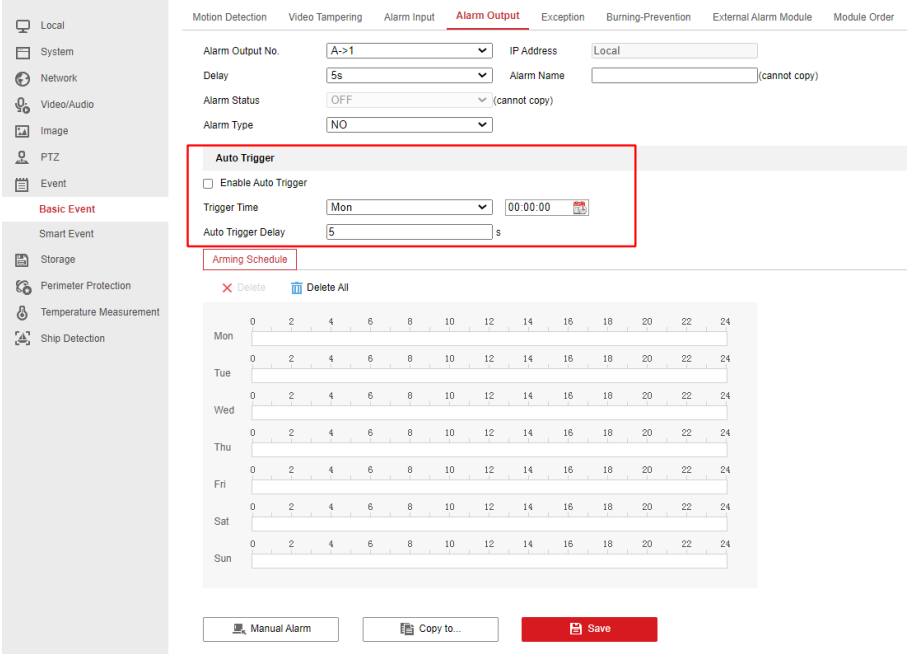


Figure 17

All device with alarm output function support.

2.8.2 Support turn on/off alarm output and show alarm output status in live view

Under right-down side on web live view page, users can configure alarm output and see alarm output status.

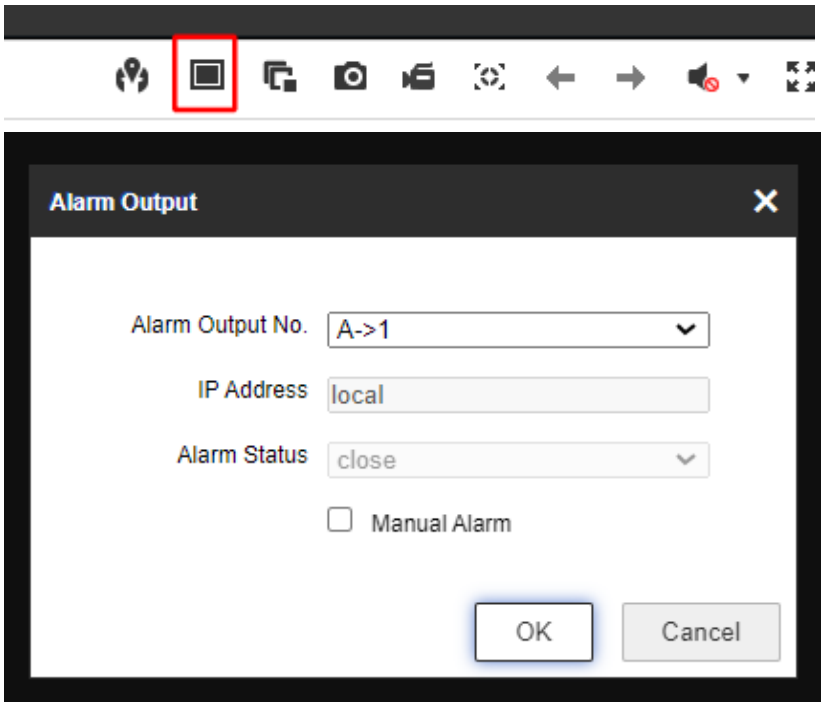


Figure 18

2.8.3 Network Alarm Box

From v5.5.111, baseline device supports ADAM, ARTECO and FM2466 alarm box. This function will reduce the costs of wiring by third-party alarm box extending alarm quantity, mainly in industrial factories perimeter protection scenarios.

Support third-party external alarm module.

Support 2 external alarm modules in maximum. Can be any combination of ADAM, ARTECO, and FM2466.

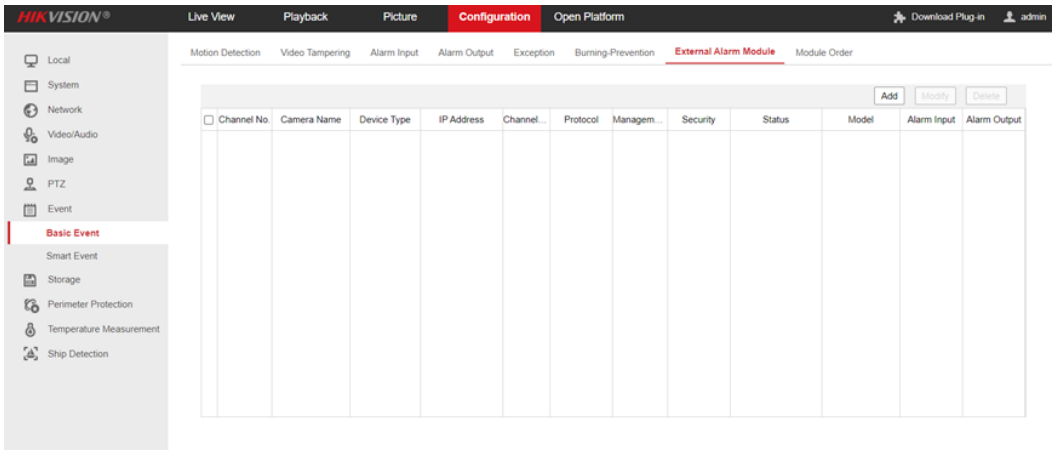


Figure 19

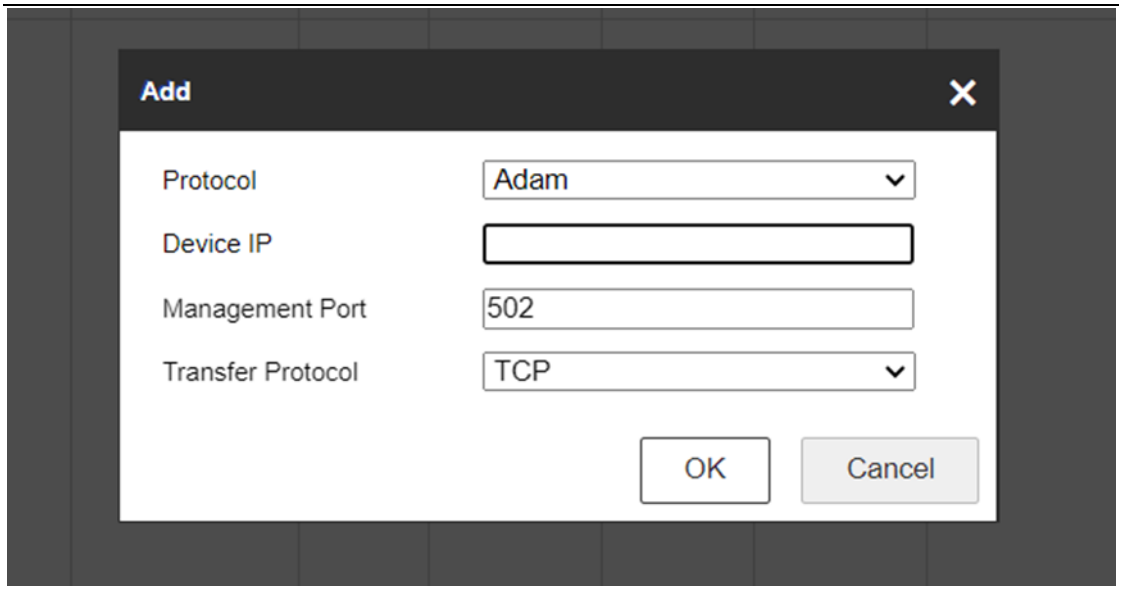


Figure 20

2.8.4 Extend Camera's Modbus Functions

Fix following issues:

a) Modbus can't get high temperature point position.

b) Modbus can't support fire and smoke detection.

New functions:

a) Modbus salve supports extend temperature measurement service protocol.

b) Modbus salve supports extend smart alarm service protocol.

Modbus salve function is remain, the meaning of register address is remain without conflicts.

3 Supported Product List

3.1 41XX Series

DS-2TD4137T-25/W（D）	DS-2TD4137-50/W(B)	HM-TD4167-50/WY
DS-2TD4137T-50/W（D）	DS-2TD4137-25/WY(B)	HM-TD4137T-9/WY
DS-2TD4137T-9/W（D）	DS-2TD4137-50/WY(B)	HM-TD4137T-25/WY
DS-2TD4137T-25/W（E）	DS-2TD4137-25/W/GPS	HM-TD4167T-9/WY
DS-2TD4167T-25/W（D）	DS-2TD4137-50/W/GPS	HM-TD4167T-25/WY
DS-2TD4167T-50/W（D）	DS-2TD4137-25/WFC	HM-TD4137-9/W

DS-2TD4167T-9/W（D）	DS-2TD4137-50/WFC	HM-TD4137-25/W
DS-2TD4167T-25/W（E）	DS-2TD4167-25/W(B)	HM-TD4137-50/W
DS-2TD4137-25/W	DS-2TD4167-50/W(B)	HM-TD4137-25/W/GPS
DS-2TD4137-50/W	DS-2TD4167-25/WY(B)	HM-TD4137-50/W/GPS
DS-2TD4137-25/WY	DS-2TD4167-50/WY(B)	HM-TD4137-25/W（F）
DS-2TD4137-50/WY	DS-2TD4137T-9/W(B)	HM-TD4167-9/W
DS-2TD4167-25/W	DS-2TD4137T-25/W(B)	HM-TD4167-25/W
DS-2TD4167-50/W	DS-2TD4137T-50/W(B)	HM-TD4167-50/W
DS-2TD4167-25/WY	DS-2TD4137T-25/W(C)	HM-TD4137T-25/W
DS-2TD4167-50/WY	DS-2TD4167T-9/W(B)	HM-TD4137T-50/W
DS-2TD4137T-9/W	DS-2TD4167T-25/W(B)	HM-TD4137T-9/W
DS-2TD4137T-25/W	DS-2TD4167T-50/W(B)	HM-TD4137T-25/W（C）
DS-2TD4137T-50/W	DS-2TD4167T-25/W(C)	HM-TD4167T-25/W
DS-2TD4167T-9/W	HM-TD4137-25/WY	HM-TD4167T-50/W
DS-2TD4167T-25/W	HM-TD4137-50/WY	HM-TD4167T-9/W
DS-2TD4167T-50/W	HM-TD4167-25/WY	HM-TD4167T-25/W（C）
DS-2TD4137-25/W(B)		

3.2 62XX Series

DS-2TD6237-25H4L/W	DS-2TD6237-100C4L/W	HM-TD6237-50C4L/W/5G
DS-2TD6237-50H4L/W	DS-2TD6237-75C4L/W(B)	HM-TD6237-75C4L/W（B）

DS-2TD6237-50H4L/W/GLT	DS-2TD6237-100C4L/W(B)	HM-TD6237-100C4L/W（B）
DS-2TD6237-50H4L/W/5G	DS-2TD6267-75C4L/W	HM-TD6237-75C4L/W
DS-2TD6267-25H4L/W	DS-2TD6267-100C4L/W	HM-TD6237-100C4L/W
DS-2TD6267-50H4L/W	DS-2TD6267-75C4L/WY	HM-TD6267-25C4L/W
DS-2TD6237T-25H4L/W	DS-2TD6267-100C4L/WY	HM-TD6267-50C4L/W
DS-2TD6237T-50H4L/W	DS-2TD6267-100C4L/W	HM-TD6267-100C4L/W
DS-2TD6237T-25H4L/W(B)	DS-2TD6267-50C4L/W	HM-TD6267-75C4L/W
DS-2TD6267T-25H4L/W	DS-2TD6237-50C4L/W	HM-TD6267-100C4L/W（B）
DS-2TD6267T-50H4L/W	DS_2TD6237_50C4_W	HM-TD6267T-50H4L/W
DS-2TD6267T-25H4L/W(B)	HM-TD6237-25C4L/W	HM-TD6267T-25H4L/W
DS-2TD6237-75C4L/W	HM-TD6237-50C4L/W	HM-TD6237T-25H4L/W
DS-2TD6237-75C4L/W(D)	HM-TD6237-50C4L/W/GLT	HM-TD6237T-50H4L/W

3.3 81XX Series

DS-2TD8167-190ZE4FL/W	DS-2TD8167-100ZD4FL/W	DS-2TD8167-150ZC4F/W
HM-TD8167-100C4F/W	DS-2TD8167-150D4F/W	DS-2TD8167-100D2F/W
DS-2TD8167-150E2F/W	DS-2TD8167-100D2F/W(B)	DS-2TD8167-100ZD2F/W
DS-2TD8167-150ZE2F/W	DS-2TD8167-100ZD2F/W(B)	DS-2TD8167-100ZD2FL/W
DS-2TD8167-150E2FL/W	DS-2TD8167-100ZD2FL/W(B)	DS-2TD8167-150D2F/W
DS-2TD8167-150E2FL/W/AR	DS-2TD8167-150D2F/W(B)	DS-2TD8167-150ZD2F/W
DS-2TD8167-75C4F/W	DS-2TD8167-150ZD2F/W(B)	DS-2TD8167-100E2F/W
DS-2TD8167-100C4F/W	DS-2TD8167-100ZD4FL/W	DS-2TD8167-100ZE2F/W

DS-2TD8167-100C4FL/W	DS-2TD8167-150D4F/W	DS-2TD8167-100E2FL/W
DS-2TD8167-190ZM2FL/W	DS-2TD8167-100D2F/W(B)	DS-2TD8167-190ZK2F/W
DS-2TD8167-230ZM2F/W	DS-2TD8167-100ZD2F/W(B)	DS-2TD8167-190ZK2FL/W
DS-2TD8167-230ZM2FL/W	DS-2TD8167-100ZD4F/W	DS-2TD8167-230ZK2FL/W
DS-2TD8167-100D4F/W	DS-2TD8167-100ZC4F/W	DS-2TD8167-230ZK4F/W
DS-2TD8167-100D4FL/W	DS-2TD8167-150C4F/W	DS-2TD8167-150ZE2FL/W
DS-2TD8167-190ZE2F/W	DS-2TD8167-190ZE2F/WY	DS-2TD8167-190ZE2FL/W
DS-2TD8167-100E2F/W(B)	HM-TD8167-150ZE2F/W(B)	HM-TD8167-75C4F/W
DS-2TD8167-100E2FL/W(B)	HM-TD8167-150ZE2F/WY(B)	HM-TD8167-150C4F/W
DS-2TD8167-100ZE2F/W(B)	HM-TD8167-150ZE2FL/W(B)	HM-TD8167-150ZC4F/W
DS-2TD8167-150E2F/W(B)	HM-TD8167-150E2FL/W/AR(B)	HM-TD8167-150ZC4F/WY
DS-2TD8167-150E2FL/W(B)	HM-TD8167-150E4FL/W	HM-TD8167-150D4F/W
DS-2TD8167-150E2FL/W/AR(B)	HM-TD8167-150E4FL/W/AR	HM-TD8167-150E2F/W(B)
DS-2TD8167-150ZE2F/W(B)	HM-TD8167-150ZE4F/W	HM-TD8167-150C4F/W
DS-2TD8167-150ZE2FL/W(B)	HM-TD8167-150ZE4FL/W	HM-TD8167-150ZC4F/W
DS-2TD8167-190ZE2F/W(B)	HM-TD8167-190ZE2F/WY(B)	HM-TD8167-100ZC4F/W
DS-2TD8167-190ZE2F/WY(B)	HM-TD8167-190ZE2FL/W(B)	HM-TD8167-100D4F/W
DS-2TD8167-190ZE2FL/W(B)	HM-TD8167-190ZE2FL/WY(B)	HM-TD8167-100D4FL/W
DS-2TD8167-150E4FL/W	HM-TD8167-190ZE4F/W	HM-TD8167-100ZD4F/W
DS-2TD8167-150E4FL/W/AR	HM-TD8167-100E2F/W(B)	HM-TD8167-190ZE4FL/W
DS-2TD8167-150ZE4F/W	DS-2TD8167-230ZG2F/WY	HM-TD8167-190ZK4FL/W
DS-2TD8167-150ZE4FL/W	DS-2TD8167-230ZG2F/W	HM-TD8167-230ZK4F/WY
DS-2TD8167-190ZE4F/W	DS-2TD8167-230ZG2FL/W	HM-TD8167-230ZK4FL/W
DS-2TD8167-190ZG2F/W	DS-2TD8167-190ZM2F/W	HM-TD8167-100ZD4FL/W

DS-2TD8167-190ZG2FL/W	HM-TD8167-100C4F/WY	HM-TD8167-150E2FL/W(B)

3.4 95C8 Series

DS-2TD95C8-150ZE4F/W	HM-TD95C8-150ZE4F/W	HM-TD95C8-300ZN2FL/W
DS-2TD95C8-150ZE4FL/W	HM-TD95C8-150ZE4FL/W	HM-TD95C8-150ZE4F/W(B)
DS-2TD95C8-190ZK2FL/W	HM-TD95C8-190ZK4FL/W	HM-TD95C8-150ZE4FL/W(B)
DS-2TD95C8-300ZK2FL/W	HM-TD95C8-300ZK4FL/W	HM-TD95C8-190ZK4FL/W(B)
HM-TD95C8-300ZK4FL/W(B)	HM-TD95C8-300ZN2FL/W(B)	

4 Third-party Integration Information

Firmware Version: V5.5.111_240926
Milestone Version: 2023R2
Exacqvision Version: 21.06.4.0
Digifot Version: 7.3.0.2

Test Equipment	Milestone	Exacqvision	Digifot
Behavior Analysis_Display VCA rules in live view	√	×	×
Behavior Analysis_Receive alarm info	√	×	×
Smoke detection_Display rules in live view	√	×	×
Smoke detection_Receive alarm info	√	×	×
Fire detection_Display rules in live view	√	×	×
Fire detection_Receive alarm info	√	×	×
Fire and smoke detection_Receive alarm info	×	×	×
Temperature measurement_Display rules in live view	√	×	×
Temperature measurement_Receive alarm info	√	×	×
Temperature difference alarm_Receive alarm info	√	×	×
Ship detection_Display rules in live view	√	×	×
Ship flow detection_Receive alarm info	√	×	×
Dredger detection_Receive alarm info	×	×	×
Fishing ship detection_Receive alarm info	×	×	×
Other new events	/	/	/

5 Client and Platform Compatibility

Firmware Version: V5.5.111_240926
I series NVR (Expert menu): DS-7732N-I5-V3 V4.63.010 build 230619
M series NVR (Expert menu): DS-7716NI-M4 V4.63.010 build 230619
K series NVR (Simple menu): None
Hikconnect Version: 2.4.0.20230224

Test Platform	I\M Series NVR_Local (Expert menu)	I\M Series NVR_4200 (Expert menu)	K Series NVR_Local (Simple menu)	K Series NVR_4200 (Simple menu)	M Series NVR_HC (Expert menu)
Behavior Analysis_Display VCA rules in live view	√ (web)	√	√ (web)	√	×
Behavior Analysis_Receive alarm info	√	√	√	√	√
Smoke detection_Display rules in live view	√ (web)	√	√ (web)	√	×
Smoke detection_Receive alarm info	√	√	×	×	√
Fire detection_Display rules in live view	√ (web)	√	√ (web)	√	×
Fire detection_Receive alarm info	√	√	×	×	√
Fire and smoke detection_Receive alarm info	√	√	×	×	√
Temperature measurement_Display rules in live view	√ (web)	√	√ (web)	√	×
Temperature measurement_Receive alarm info	√	√	×	×	√
Temperature difference alarm_Receive alarm info	√	√	×	×	×
Ship detection_Display rules in live view	√ (web)	√	√ (web)	√	×
Ship flow detection_Receive alarm info	√	√	×	×	√
Dredger detection_Receive alarm info	√	√	×	×	×
Fishing ship detection_Receive alarm info	√	√	×	×	×
Other new events	/	/	/	/	/

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Firmware Version: V5.5.111_240926
Hikconnect Version: 2.4.0.20230224
4200 Version: V3.10.0.6
HCP Version: 2.4.0.20230224

Test Platform	Hikconnect	4200	HCP_SDK	HCP_ISUP5.0
Behavior Analysis_Display VCA rules in live view	×	√	√	√
Behavior Analysis_Receive alarm info	√	√	√	√
Smoke detection_Display rules in live view	×	√	√	√
Smoke detection_Receive alarm info	√	√	√	√
Fire detection_Display rules in live view	×	√	√	√
Fire detection_Receive alarm info	√	√	√	√
Fire and smoke detection_Receive alarm info	√	√	√	√
Temperature measurement_Display rules in live view	×	√	√	√
Temperature measurement_Receive alarm info	√	√	√	√
Temperature difference alarm_Receive alarm info	×	√	√	√
Ship detection_Display rules in live view	×	√	√	√
Ship flow detection_Receive alarm info	√	√	√	√
Dredger detection_Receive alarm info	×	√	×	×
Fishing ship detection_Receive alarm info	×	√	×	×
Other new events	/	/	/	/

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Customer Impact and Recommended Action

This update refers to function/compatibility improvement and will take effect automatically after the Date of Change. We are very sorry for any inconvenience of use-habit changes caused by this action.

For any questions and request for this firmware, please contact our local technical support team.

Remarks:

- Hikvision reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.
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