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| NVR5XXX-I\_V4.000.0000000.1 |
| Release Notes |
| **ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.** |

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# Release Notes

## Overview

| Item | Description |
| --- | --- |
| Product model | NVR5XXX-AI Series |
| Version | V4.000.0000000.1, |
| Software package information | DH\_NVR5XXX-4KS2\_MulitLang\_V4.000.0000000.1.R.20190809.zip |
| Onvif Version | 2.4.1 |
| OS requirement | None |
| Release date | 8/16/2019 |

## New Features

|  |  |
| --- | --- |
| Function name | Functional Description |
| **NVR4.0 new UI** | 1. It is to realize NVR interface based on the 4.0 interface style. The same functions are basically the same, and the market requires to retain the existing functions of the NVR. 2. Adjust the main menu. AI setting and AI search are put together with a separate AI menu items, other events are in the alarm item, and the main and auxiliary screens are set to the right-click menu. 3. Supports vector font. 4. Web interface style is consistent with the local menu. |
| **Network Security Baseline V2.0** | 1. Supports system firmware encryption. 2. The device supports 802.1x access authentication. 3. TFTP upgrade: The trusted upgrade and secure boot by Uboot. 4. Supports network security requirements such as firewall. |
| **Support web no plugin** | 1. Version requirements: For chrome version number lower than 42, Firefox version lower than 52, there is a plug-in. For the browser higher than the above versions, there is no plug-in. 2. Supported contents are mainly based on video. |
| **ONVIF optimization** | 1. Supports ONVIF18.06 tool. 2. Supports profile G. |
| **International requirements** | 1. Adds **Shut down** button before initialization. 2. Adds the country, language, and format settings. 3. Supports synchronizing audio, format, and time zone to the front-end device when connecting to it. |
| **Automatic H265** | 1. Automatic setting front-end adopts H.265 encoding when registering remote device to the NVR. |
| **Email optimization** | 1. Adds IPC channel name in the body contents of the alarm email. 2. Standardizes intelligent event email format. |
| **Auto registration** | 1. The whole series supports the auto registration function suitable to connect to all platforms. 2. Auto registration through domain name. |
| **Alarm Center Dual IP** | 1. Supports server of dual-IP. 2. Supports to upload alarm information to 2 server addresses at the same time. |
| **Hard disk health plan** | 1. Supports hard disk health detection. 2. Supports manual detection refresh. 3. Supports to display detection details report. 4. Supports alarm prompt for detected errors. Right now it supports hard disk temperature too high, linkage abnormality, imminent error, vibration, etc. |
| **Raid optimization** | 1. On RAID interface, cut disk array enclosure item. (it was never supported before) 2. Raid creation and deletion process are in the background. 3. Adds the working mode of the raid hard disk. |
| **Hard disk estimation** | 1. Adds hard disk estimation function. 2. Supports the hard disk storage capacity estimation based on the resolution stream of the current access channel. |
| **Hard disk migration** | 1. Hard disk migration formatting strategy, adding "unformatted" status. |
| **FTP experience optimization** | 1. Supports FTP storage pictures based on channels. |
| **Hard disk light** | 1. When the hard disk is abnormal, the indicator light is on. When it is normal, the indicator light is off. 2. The HDD abnormal event does not affect hard disk light. |
| **Thermal Imaging** | 1. Supports thermal temperature measurement. 2. Supports thermal imaging to trigger sound and light alarm. 3. Support thermal imaging dual-sensor device and synchronization storage. |
| **Intelligent Speed Dome** | 1. Unified Intelligent IPC and smart speed dome protocol. 2. Supports smart speed dome IVS. 3. Supports smart speed dome people counting. 4. Supports smart speed dome heat map. 5. Supports smart speed dome metadata. |
| **AI by camera image matting** | 1. Once the connected channel has no matting image, the NVR can realize image matting based on the coordination. 2. Supports image matting in preview mode. 3. For smart types such as perimeter protection and license plates, supports image matting in preview mode. 4. Right now, does not support image matting storage. 5. Supports detected plate image matting during playback. |
| **Panoramic+ PTZ network camera** | 1. Adds people distribution display. 2. Right now, does not support people distribution display during playback. 3. Enable/disable crowd density display by Web function is for Panoramic+ PTZ network camera only. |
| **AI Fisheye** | 1. Supports queue management. 2. For abnormal queue number and the queue stay time, these two events adopt the same linkage configuration. |
| **AI Linkage snapshot** | 1. For AI event, there is picture storage function instead of snapshot. 2. For AI events, the back-end analytics realizes the image matting and the large image and matting image will be sent with the event when the client subscribes. 3. Cannot configure to trigger other channels. |
| **National information code** | 1. ITC reports a 3-digit code table. The NVR currently only maintains a 2-bit table. The NVR needs to maintain 2-bit and 3-digit codes. |
| **Binocular passenger flow statistics** | 1. Fixed bug: Supports regional people counting. 2. Support configuration and report search. |
| **Password resetting** | 1. Adjust reserved mailbox item: From the admin user configuration interface to Reset Password page of the security center. 2. At the same time, security question and reserved mailbox item are merged onto the Reset Password interface. |
| **Recover password** | 1. Adjust the QR code of the device's local GUI, and the QR marks as local GUI. 2. For the storage device, user can only scan the local QR code to reset password. Delete scanning QR code on Web to reset password. Do not support resetting password by Configtool. Supports resetting password by DMSS. 3. Log: password reset operation log type is security management. |
| **MAC address binding** | 1. Supports setting the MAC address for newly added users, and only allows access to users through specific MAC devices. |

## Fixed Bugs

The fixed bugs are included in the chapter 1.2 New Features.

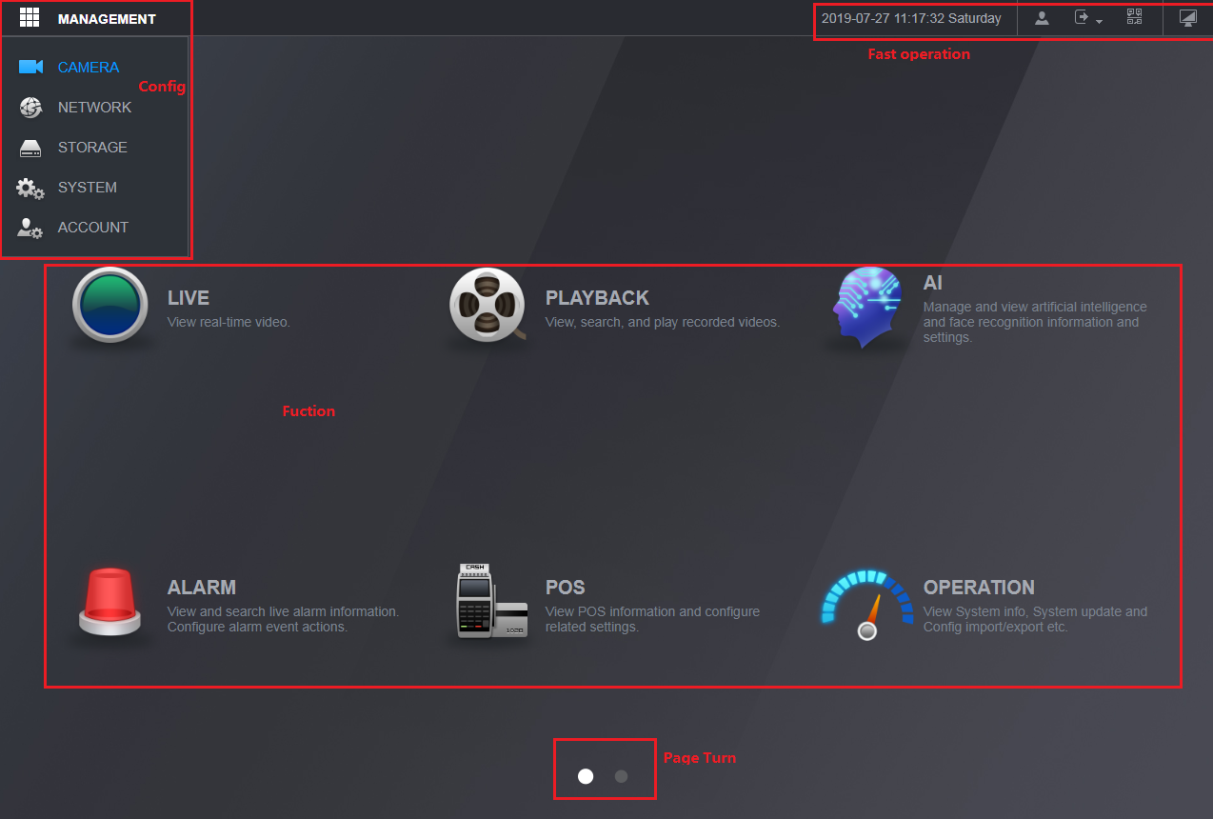
## Instructions for New Features

### New NVR 4.0 UI

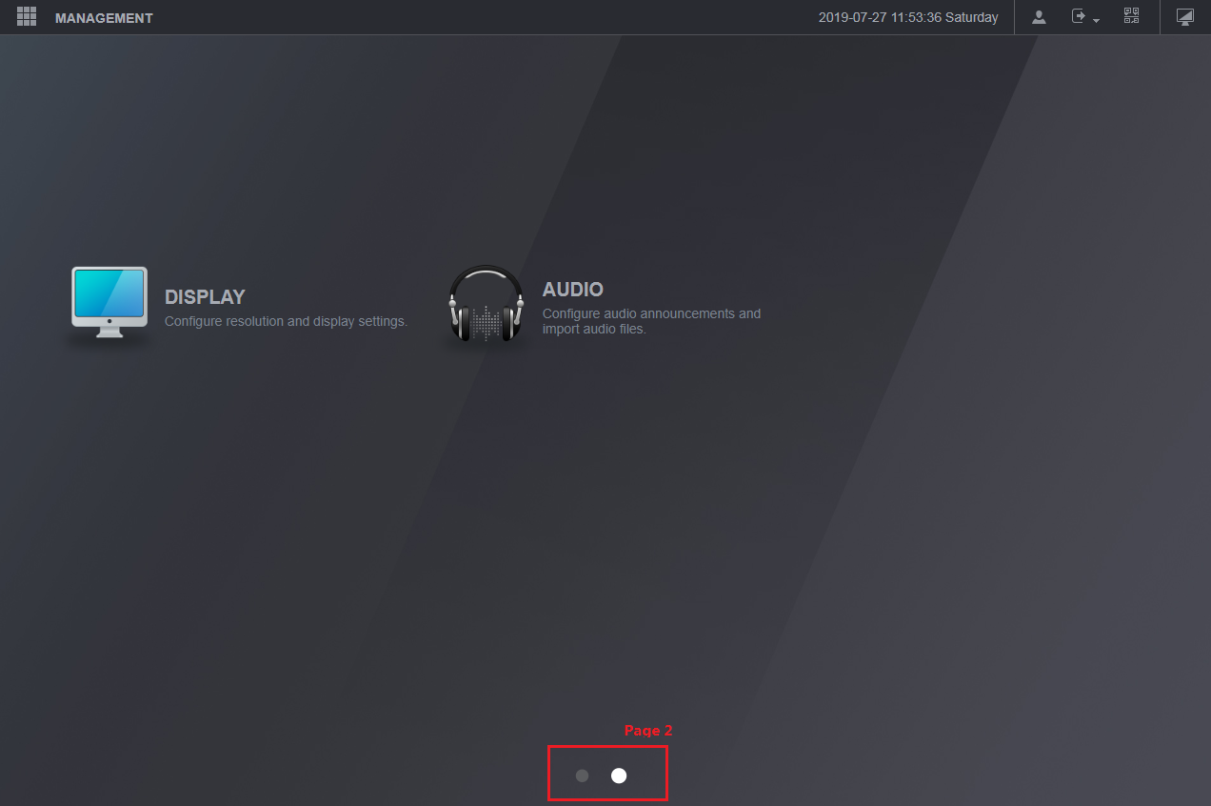
* + 1. **Interface Style**

The new UI uses flat design which is more consistent with users’ habits. It’s divided into configuration area, function area, fast operation area and page turning area. You can turn pages to display more functions supported by the device.

New UI (1)



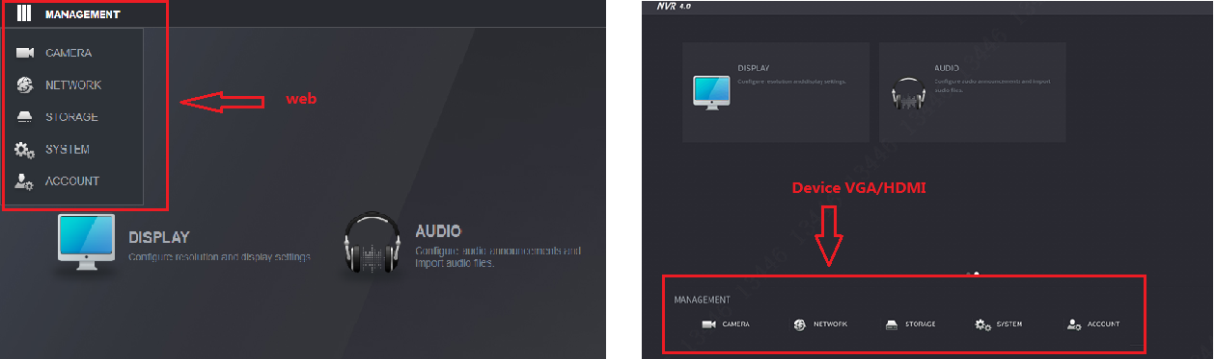
New UI (2)



* + 1. **Interface Display**

The interfaces of local configuration and Web are almost identical. There are slight differences in operating on two interfaces.

Difference between two interfaces

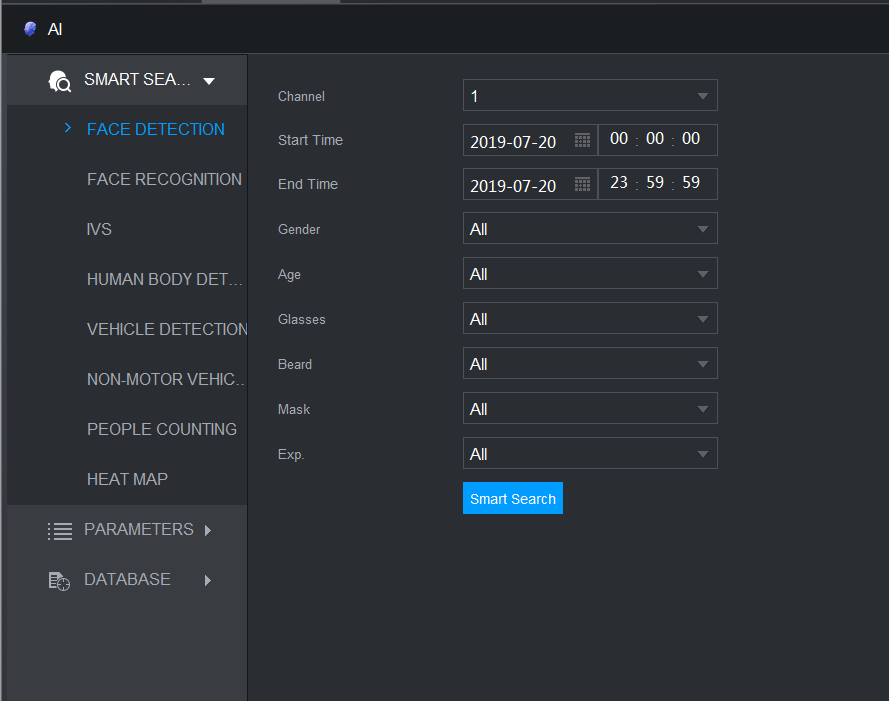


* + 1. **Menu Integration**

Related functions are centralized and categorized.

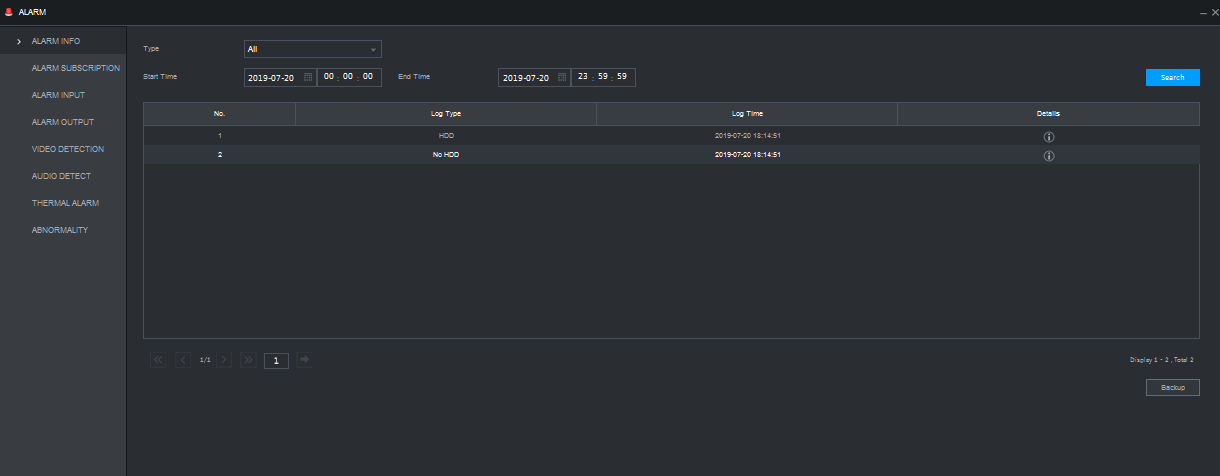
* All AI related functions are concentrated on AI interface: Including AI query, AI configuration, AI database and so on.

AI interface

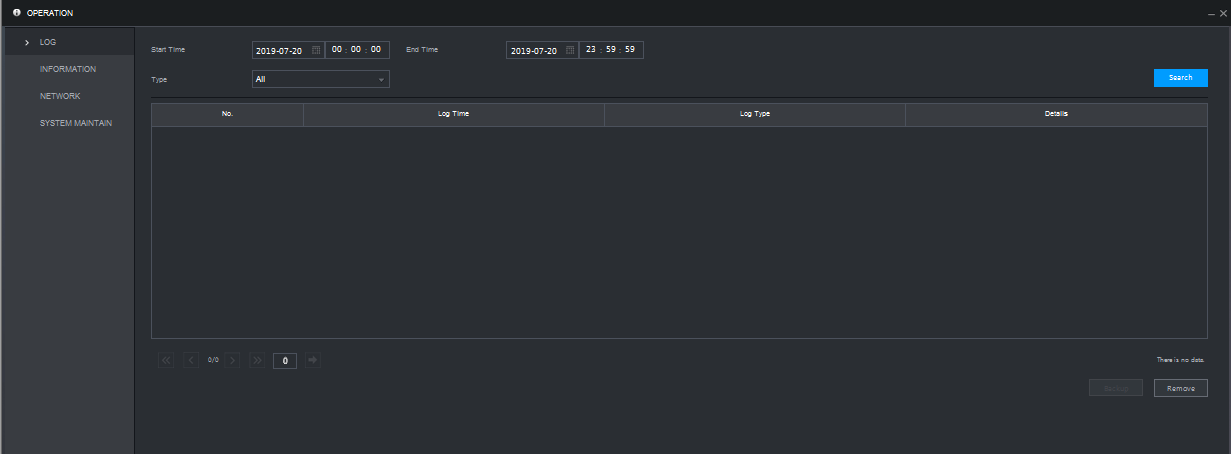


* Logs are classified on the basis of functions. Event logs are centralized in **Alarm** interface and system logs are centralized in **Operation** interface.

Alarm



Operation



### Plug-in Free Version of Web Browsers

1. **Versions of web browsers**

| **Web Browser** | **Plug-in version** | **Plug-in free version** |
| --- | --- | --- |
| Chrome | Version number < 42 | Version number >= 42 |
| Firefox | Version number < 52 | Version number >= 52 |
| Internet Explorer | All Versions | / |
| Edge | / | All Versions |

1. **Differences between plug-in version and plug-in free version**

| **Difference** | **Plug-in version of web browser** | **Plug-in free version of web browser** |
| --- | --- | --- |
| Channel navigation bar button | Included. | Not included. |
| Video overlay text | Included. | Not included. |
| Install plug-in to view channel video | Included. | Not included. |

1. **Functions supported by plug-in free version**

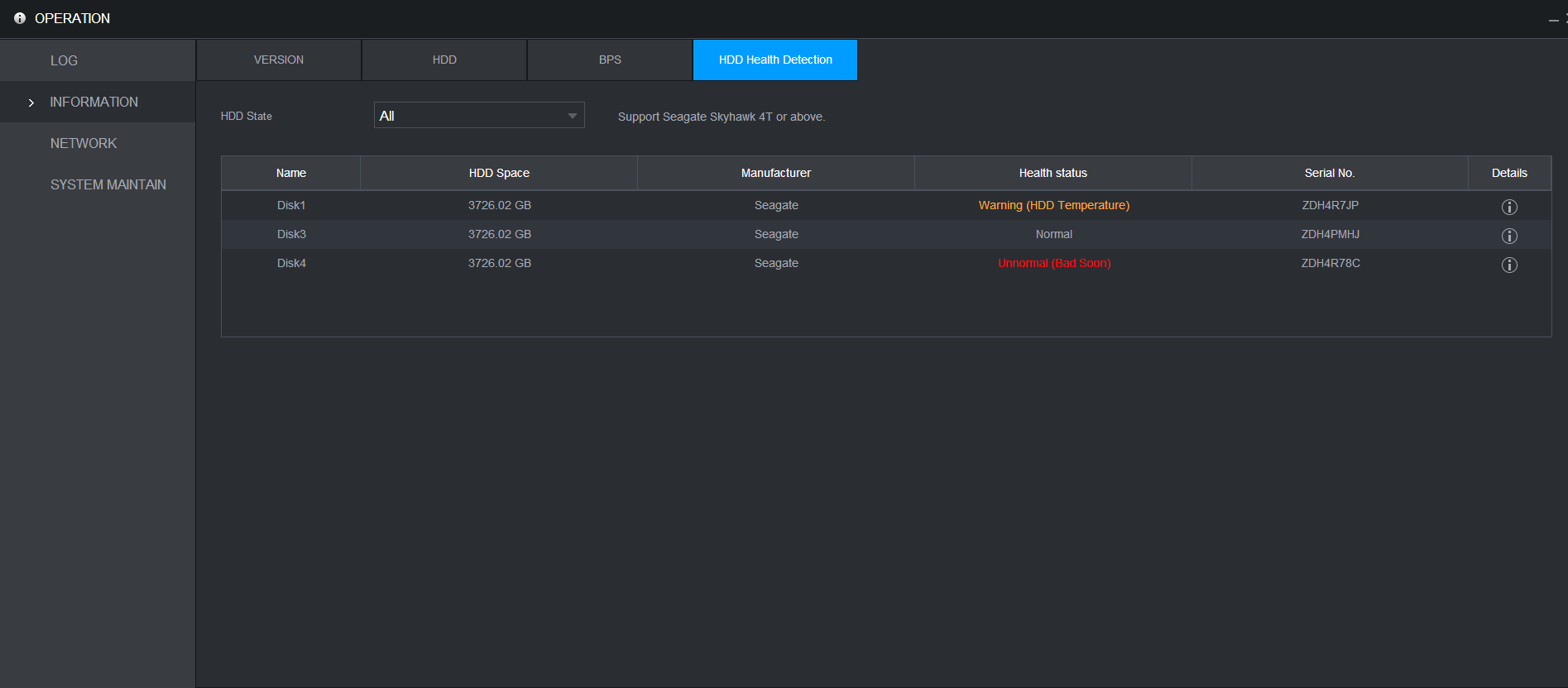
| **Function** | **Description** |
| --- | --- |
| Surveillance screen | Real-time surveillance（main stream, sub stream） |
| Full screen |
| Window split |
| Playback | Video playback |
| Full screen playback |
| Time bar |
| Record query |
| Remote device | Importing and exporting of remote devices |
| Configuration | Camera |
| OSD overlay |
| POS setup - POS position setting |
| Motion detection area setting |

### HDD Health Detection

1. **HDD Health Detection**

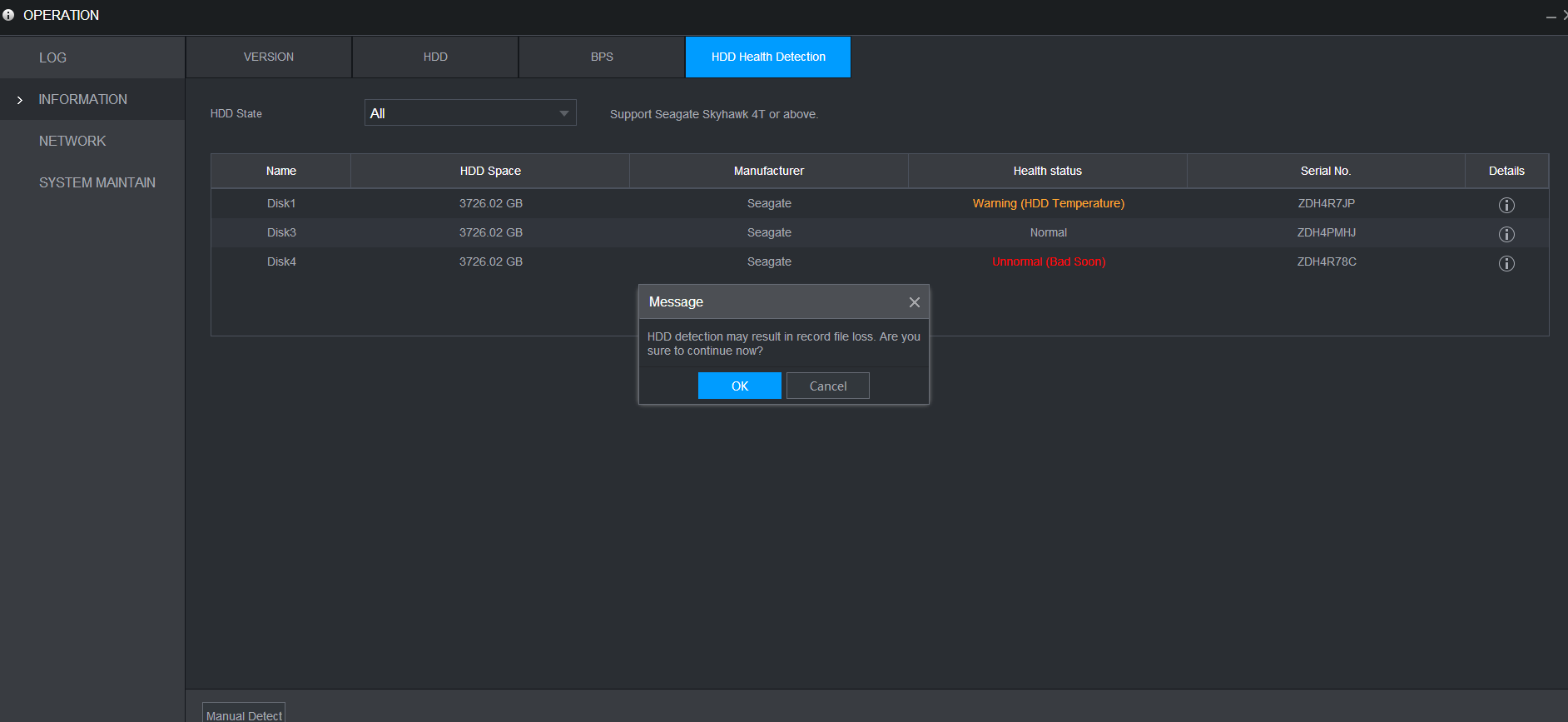
Supports displaying HDD health status of Seagate SKYHAWK series.

* HDDs are listed on the interface with information such as HDD space, manufacturer, serial number and health status.
* HDD health status: **Normal** (normal font), **Warning** (orange font), **Unnormal** (red font). Reasons for warnings and errors are displayed in **Health status** column.
* When a 20X error occurs, **Bad Soon** will be displayed in **Health status** column.



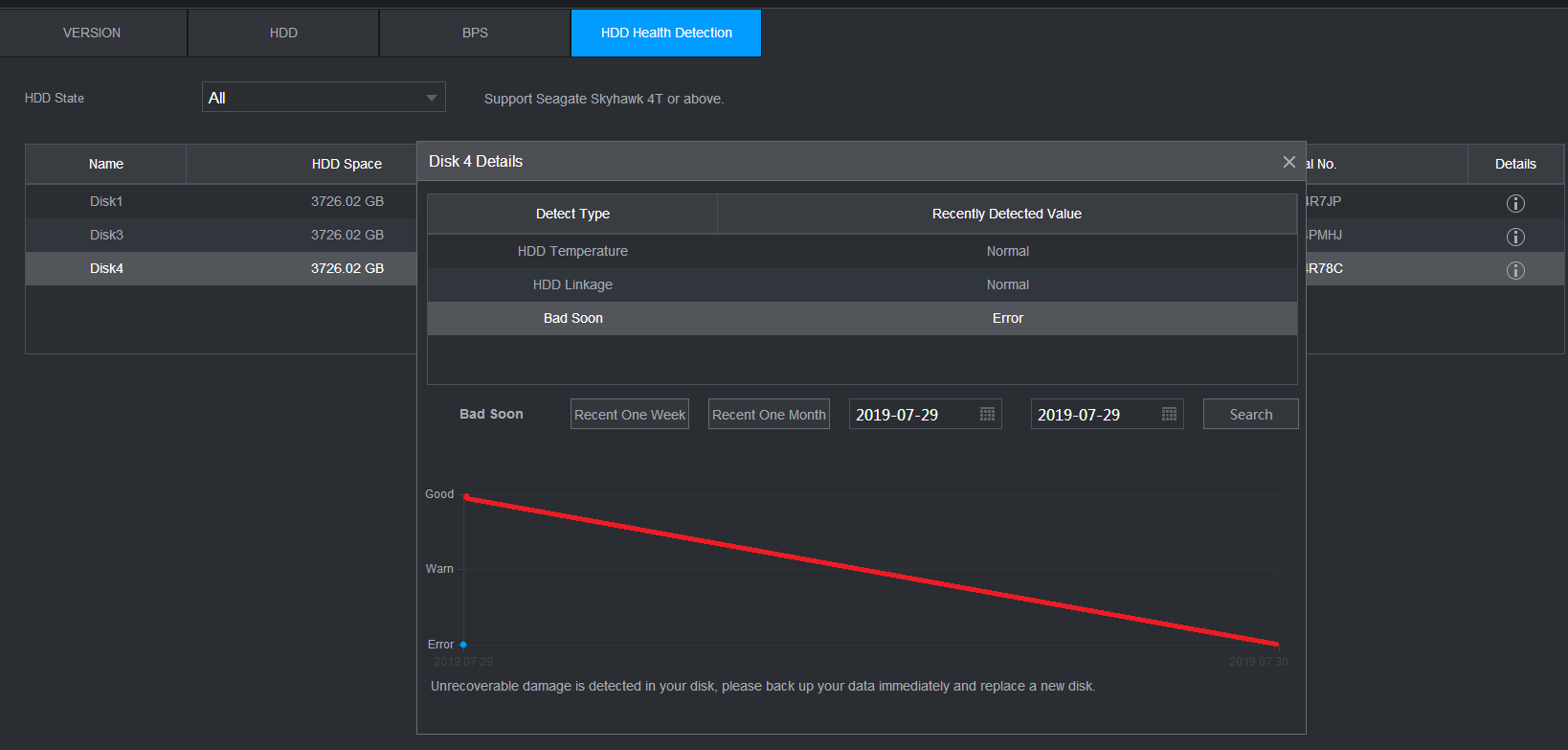
1. **Refreshing Health Status Manually**

Click **Manual Detect** at the lower-left corner of the interface to refresh health status detection.



1. **Disk Details**

* Double-click a HDD in the list to show detection diagram.
* In the details dialog box, you can find a table with **Detect Type** and **Recently Detected Value**. Select a row to show details of the corresponding parameter in a line chart below. You can click **Recent One Week**, **Recent One Month** or define a time frame (at most 1 year) to get details of the parameter in a specified period. The default period of time is one week.



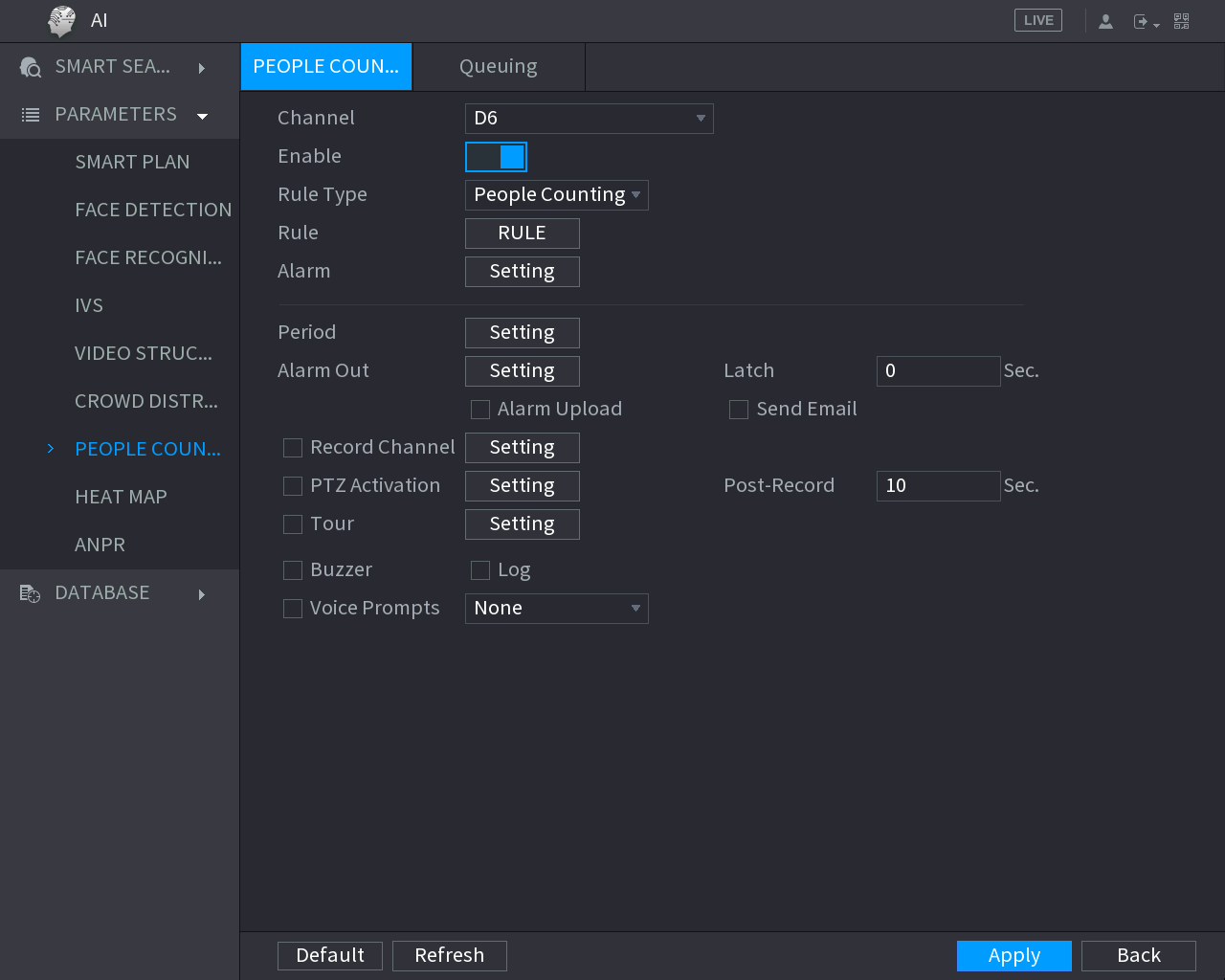
### Dual-sensor People Counting

1. **Configuring Parameters and Counting People**

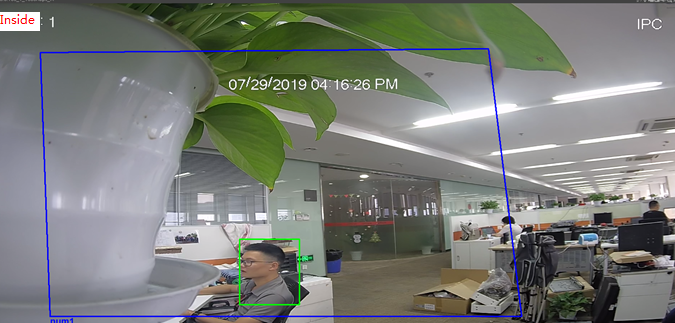
Enter the **PEOPLE COUNTING** interface to count the number of people in a detection area, and configure parameters such as rule, number of people, enable, detection area, alarm and so on.

* Currently, rule setting for only one area is supported.
* You can draw a random area to set rules, and define a rule name.
* The number of people of a rule will be displayed at the up-left corner of the video.

Configure parameters



People counting

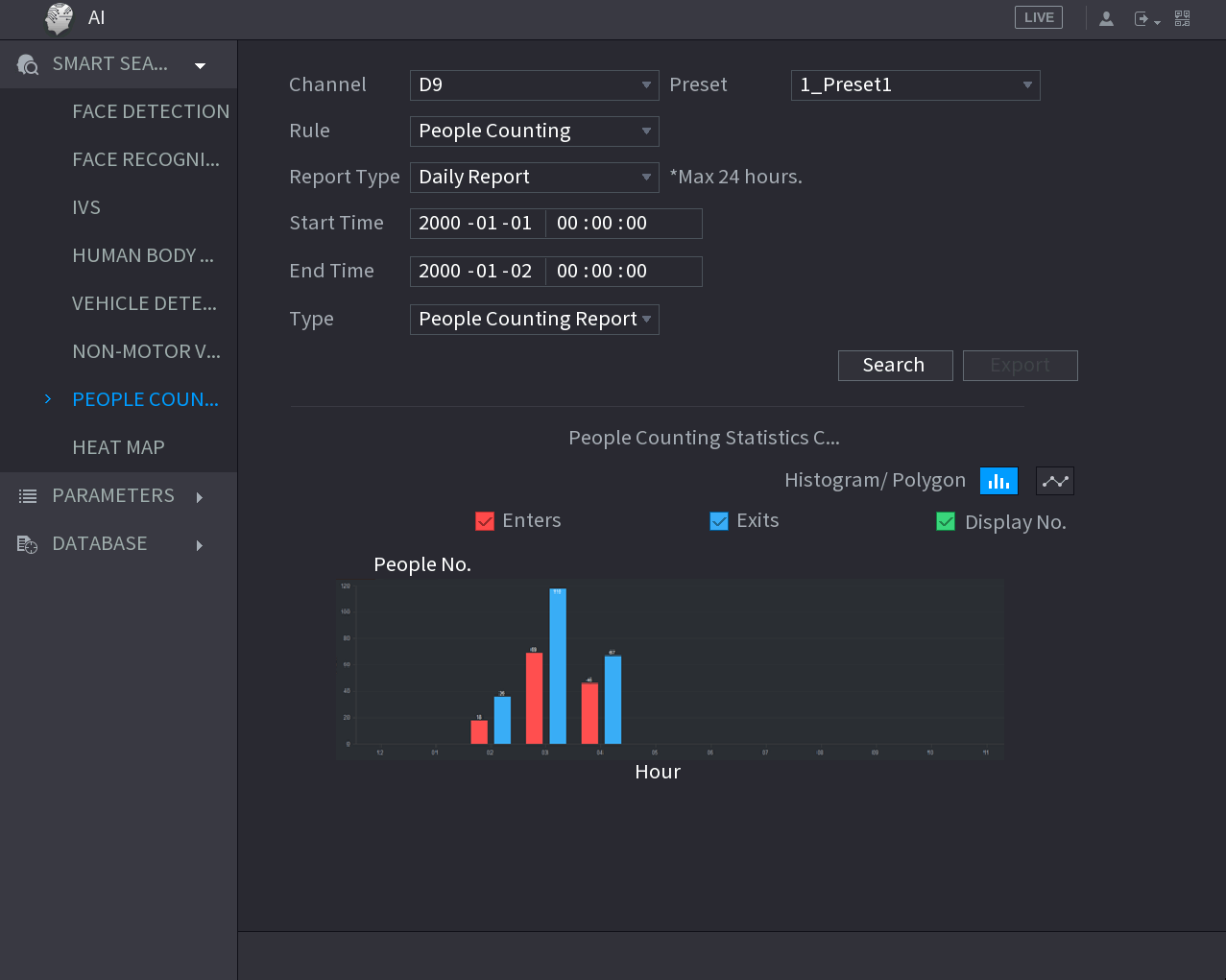


1. **Report Query**

On the upper-half interface, you can select channel number, rule, start time and end time, stay time and so on. Report type includes people counting report and stay time report, and both of them can be displayed in histogram and line chart.

* The horizontal axis of people counting report shows the time line and the vertical axis shows the number of people. The number of people and stay time can be chosen to be displayed in people counting report.
* The horizontal axis of stay time shows the time line and the vertical axis shows stay time. You can select to show the number of people and their stay time in the detection area.

People counting report

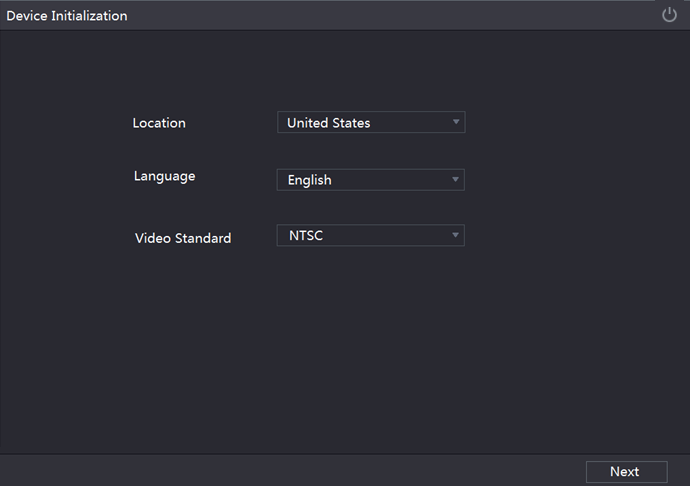


### Internationalization

Internationalization means that you can select location during the initialization of a device, and language and video standard will be matched automatically. Configurations such as language, video standard and system zone will be synchronized when connecting to front-end. The access to local GUI configuration is as follows:

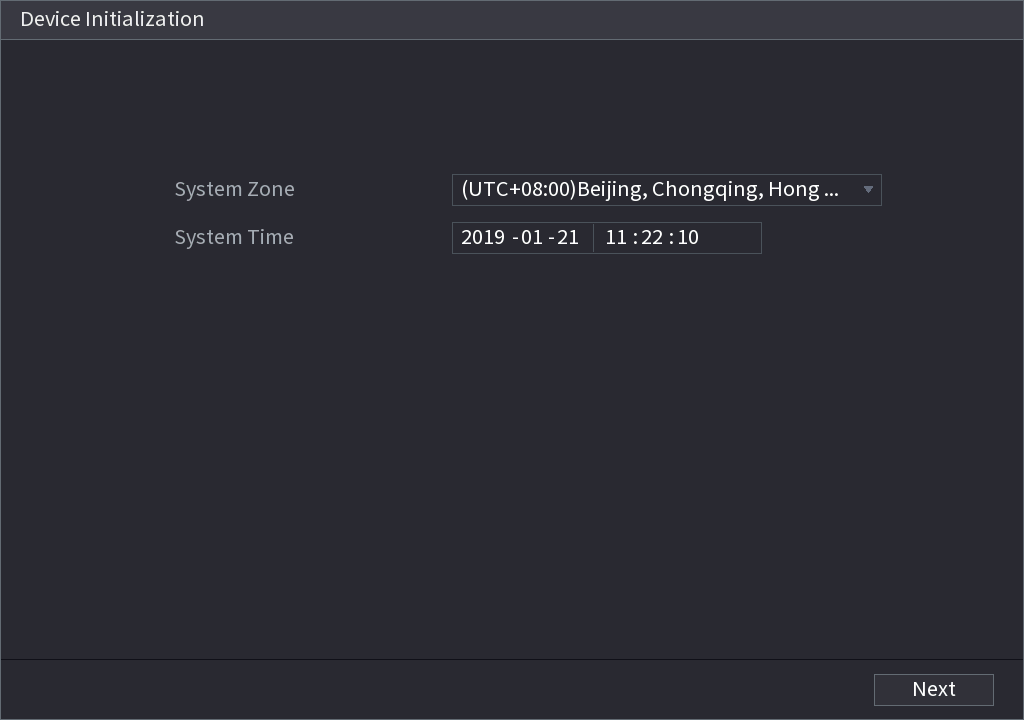
1. The device initialization process will start at the first boot, and you can select **Location** and **Video Standard** on the following interface.

Device initialization (1)



1. Select **System Zone** and **System** Time on the following interface.

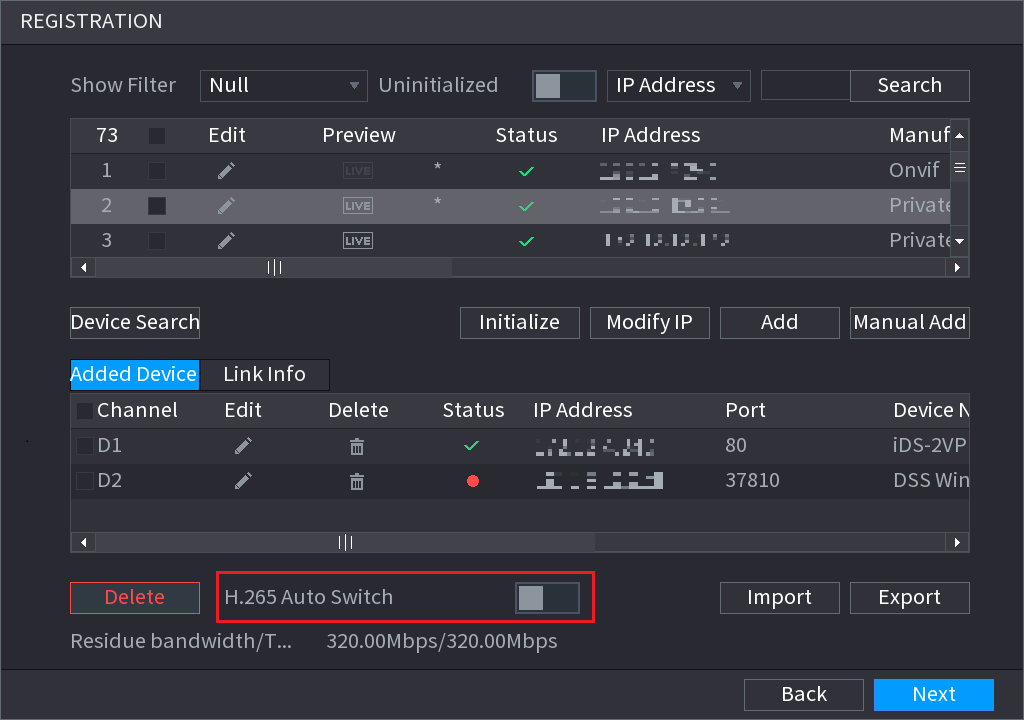
Device initialization (2)



### Switching to H.265 Automatically

After **H.265 Auto Switch** is enabled, remote devices supporting H.265 will be adjusted to H.265 encoding format automatically. You can enable **H.265 Auto Switch** on the following local GUI interface.

Registration



### Thermal Imaging Camera

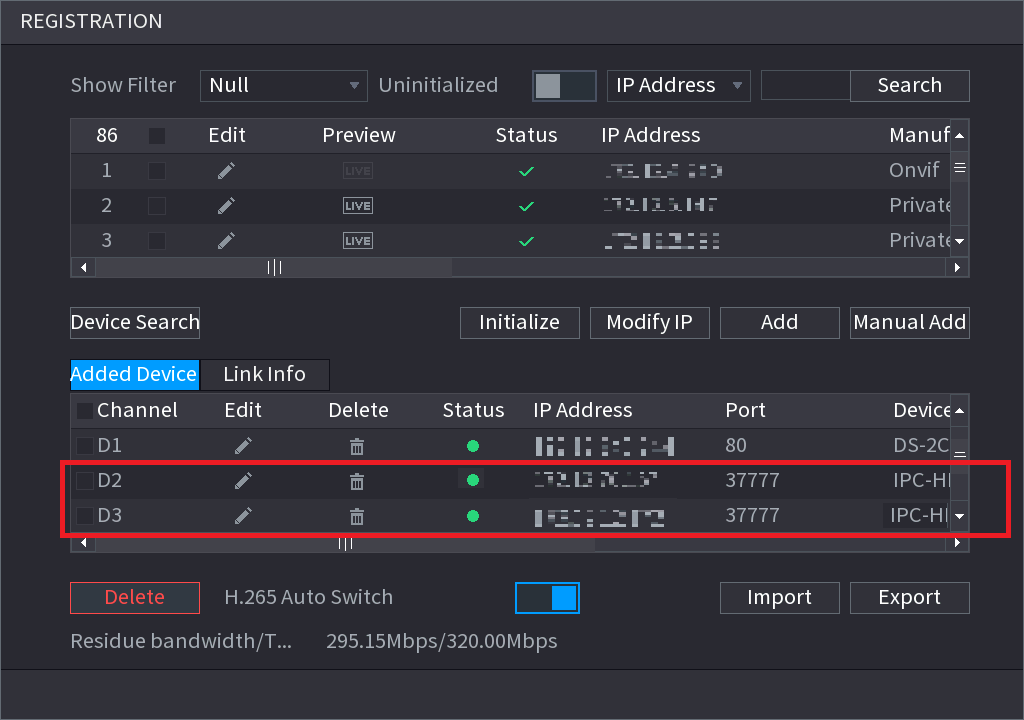
1. Supports clicking to detect live temperature: After adding a camera supporting live temperature detection, you can click any point on the live view screen to show the temperature. See the figure below.

Live temperature



1. Supports double channel adding and storing data synchronously. When adding a thermal imaging camera, the device will add a second remote channel of the front-end; when a channel is deleted, the other channel will be deleted synchronously. See Video record plans, event linkage videos and images of two channels will be synchronized. When data of one channel changes, the data of the other channel changes synchronously, thus video playbacks of two channels will be identical.

Camera

**

### Panoramic + PTZ Network Camera

Both of 360° and 180° panoramic cameras have two channels.

* 1 panoramic camera channel.

Active: Video stitched by software.

Standby 1: Low resolution video stitched by software.

Standby 2: Video stitched by hardware.

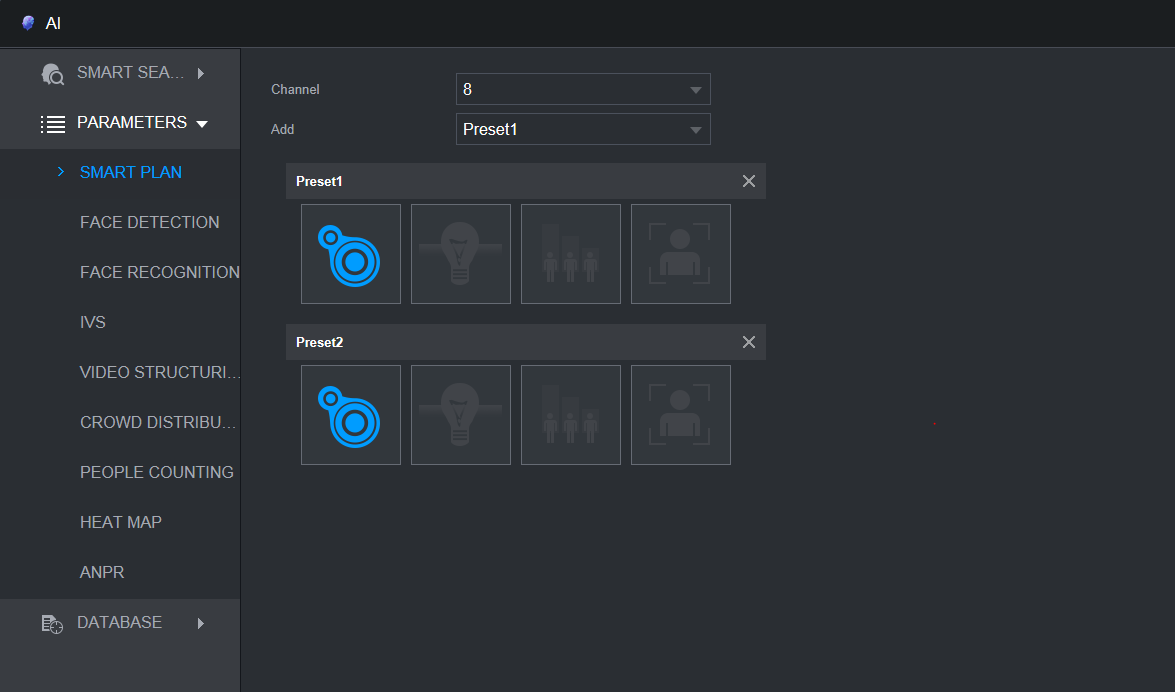
* 1 dome camera channel.

Video stitched by software：ultra high resolution (8192\*1800).

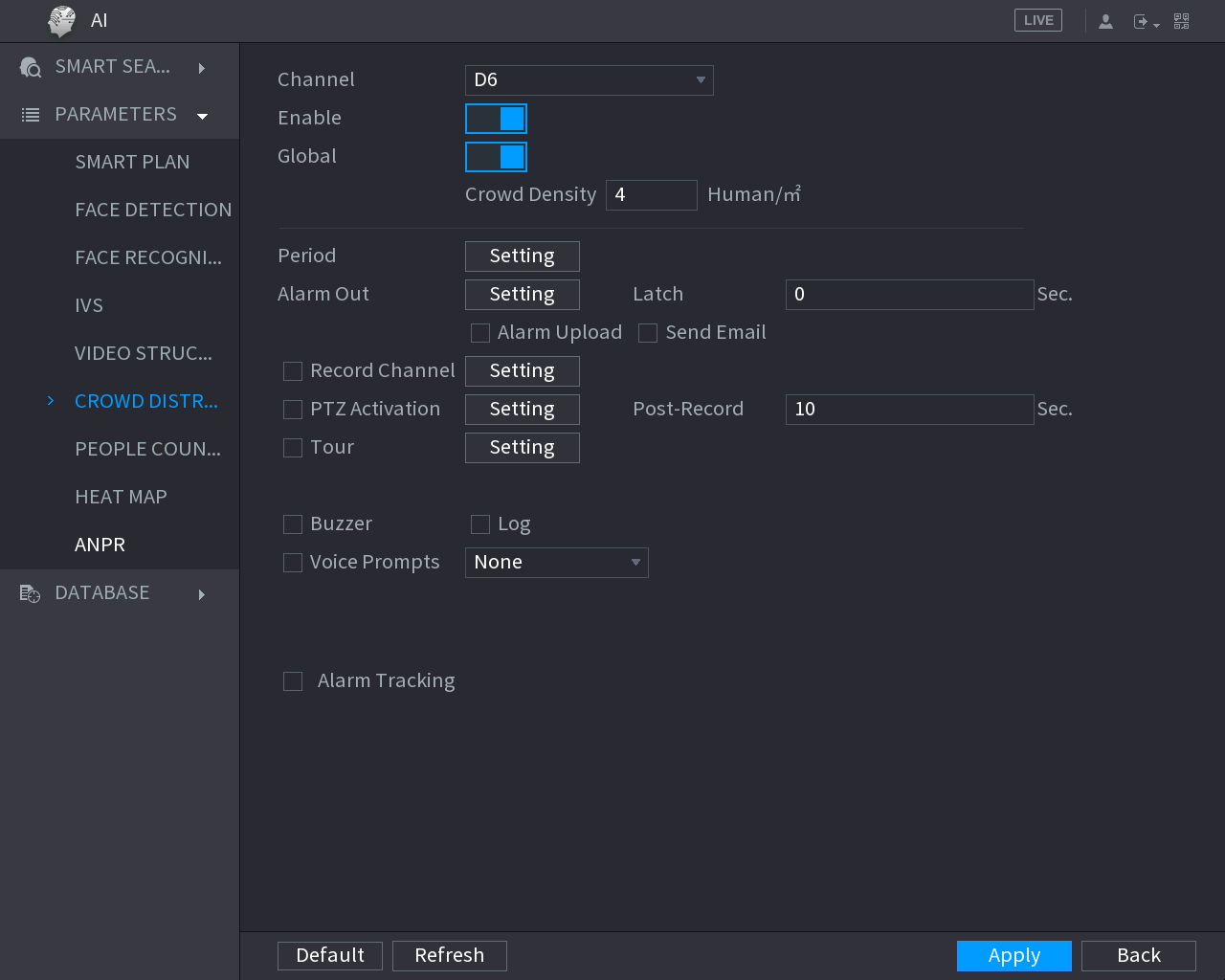
Video stitched by hardware: resolution (4320\*3840)

* Supports people distribution: Set global people density, the number of people in global area will be overlaid with the statistics of user defined areas.
* Supports setting alarm linkage.

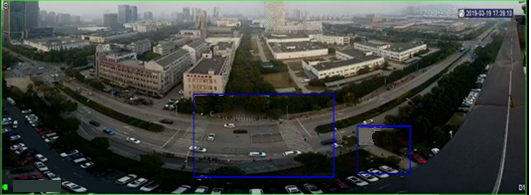
AI interface (1)



AI interface (2)



Live view

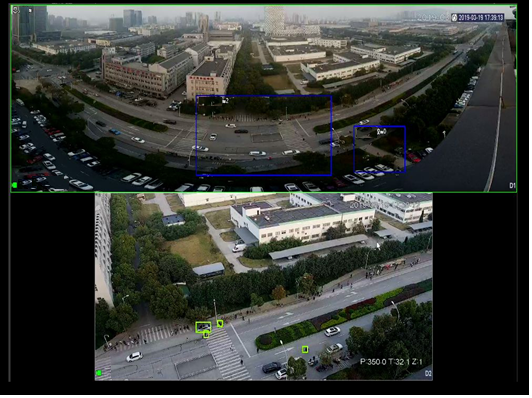


Supports smart track function: auto tracking, manual tracking and manual positioning.

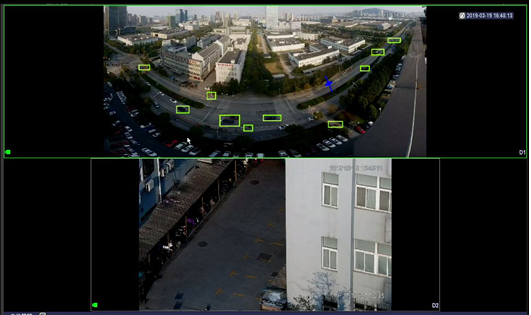
Operating method: On the **Live View** interface of NVR, double-click a channel of Panoramic + PTZ network camera to enter the live view mode. Right-click the menu, and select **Smart Track** to open tracking mode for more operations.

* Auto tracking: when an alarm is triggered, the tracking dome camera will turn to the corresponding place and start tracking.
* Menu tracking: Click a target or drag a rectangle on the **Live View** screen, the tracking dome camera will turn to the specified place and start tracking.
* Manual positioning: Click a target or drag a rectangle on the **Live View** screen, the tracking dome camera will turn to the specified place.

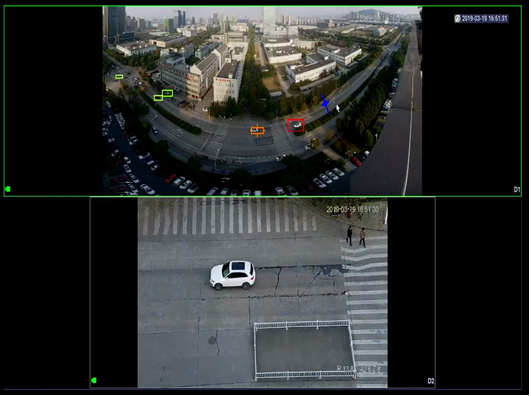
Live view mode



Tracking mode



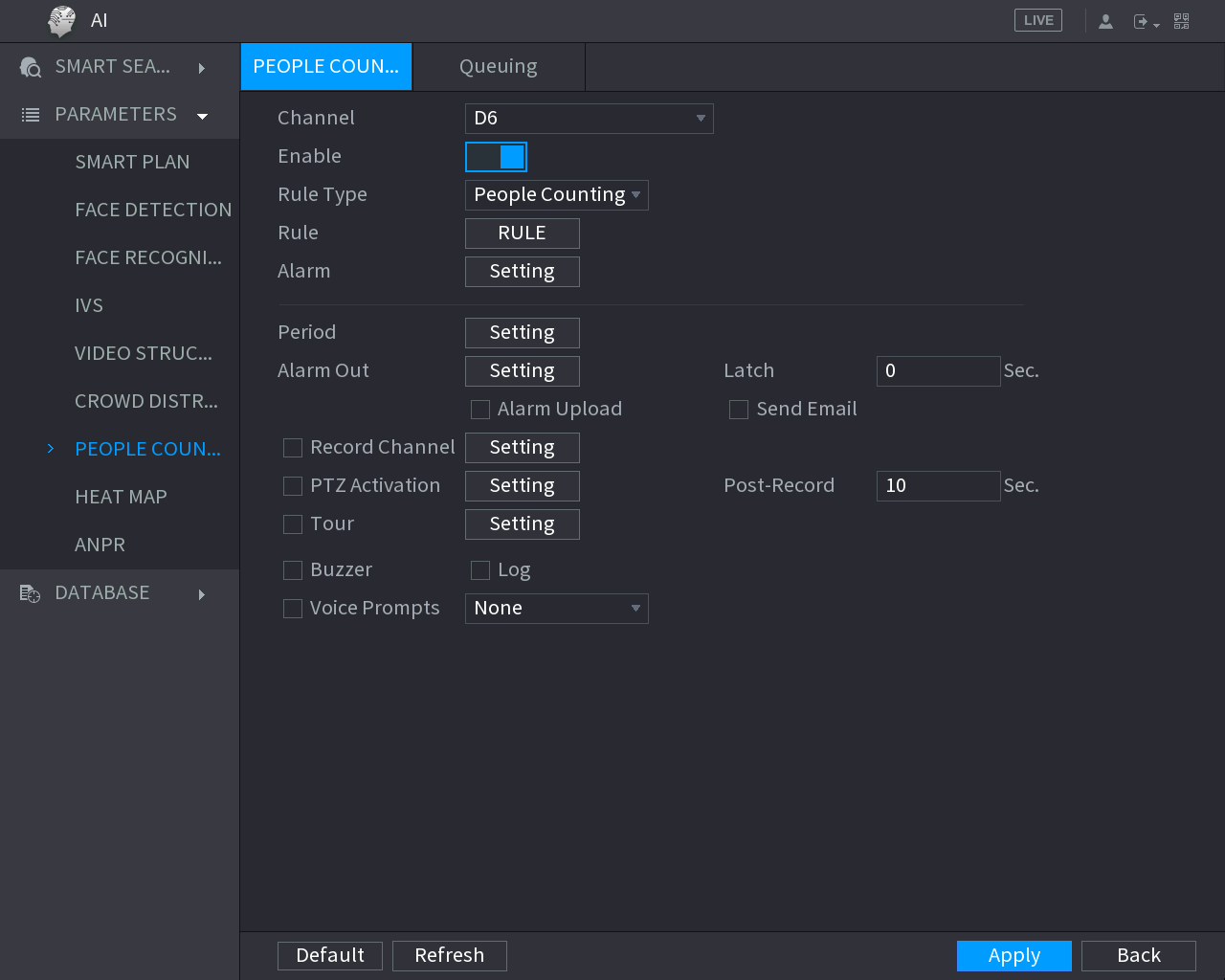
Screen display effect of tracking mode



### AI Fisheye Camera

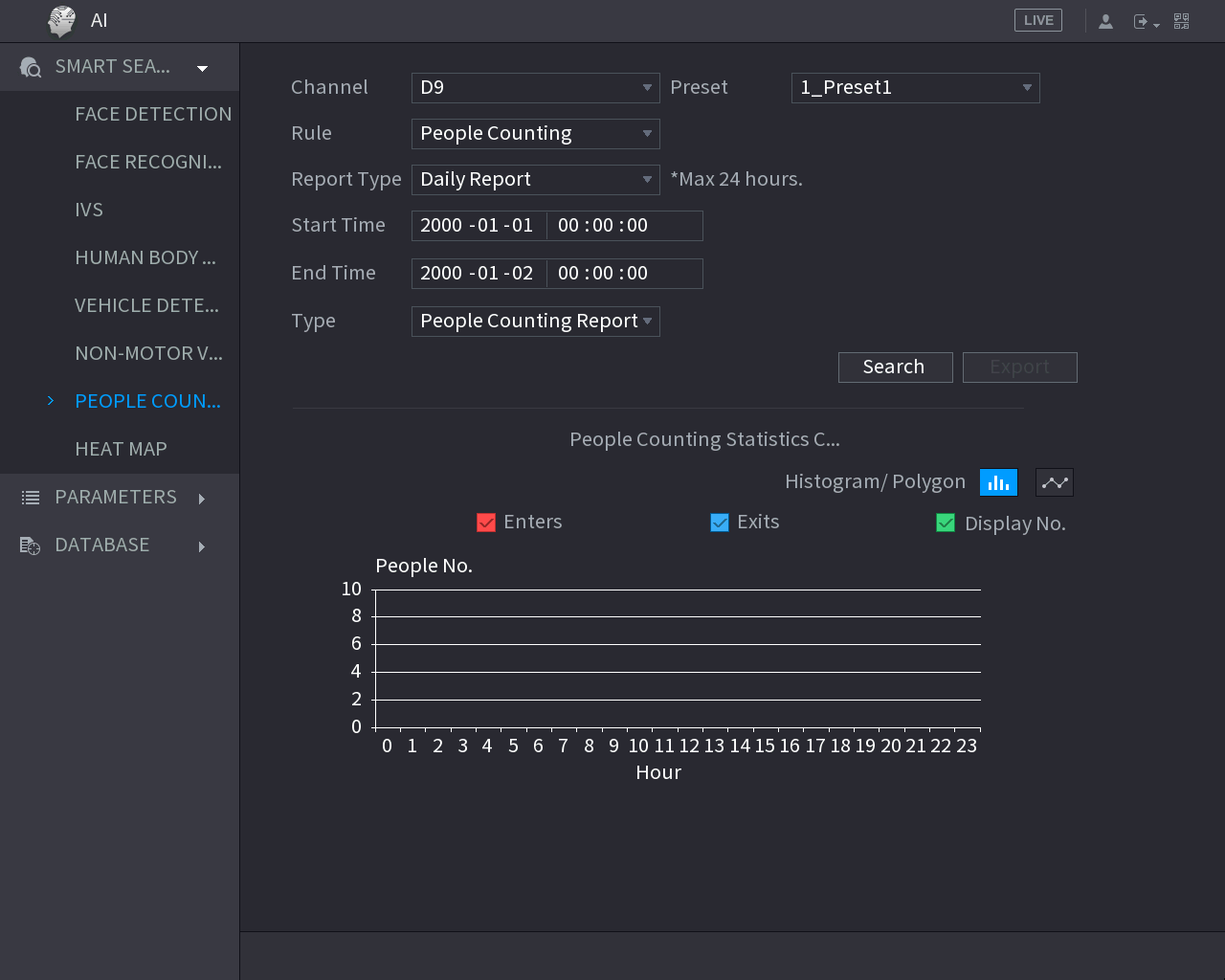
1. Select **AI > PARAMETERS > PEOPLE COUNTING > PEOPLE COUNTING**, and then select the channel of Fisheye camera to configure parameters for people counting.

People counting (1)



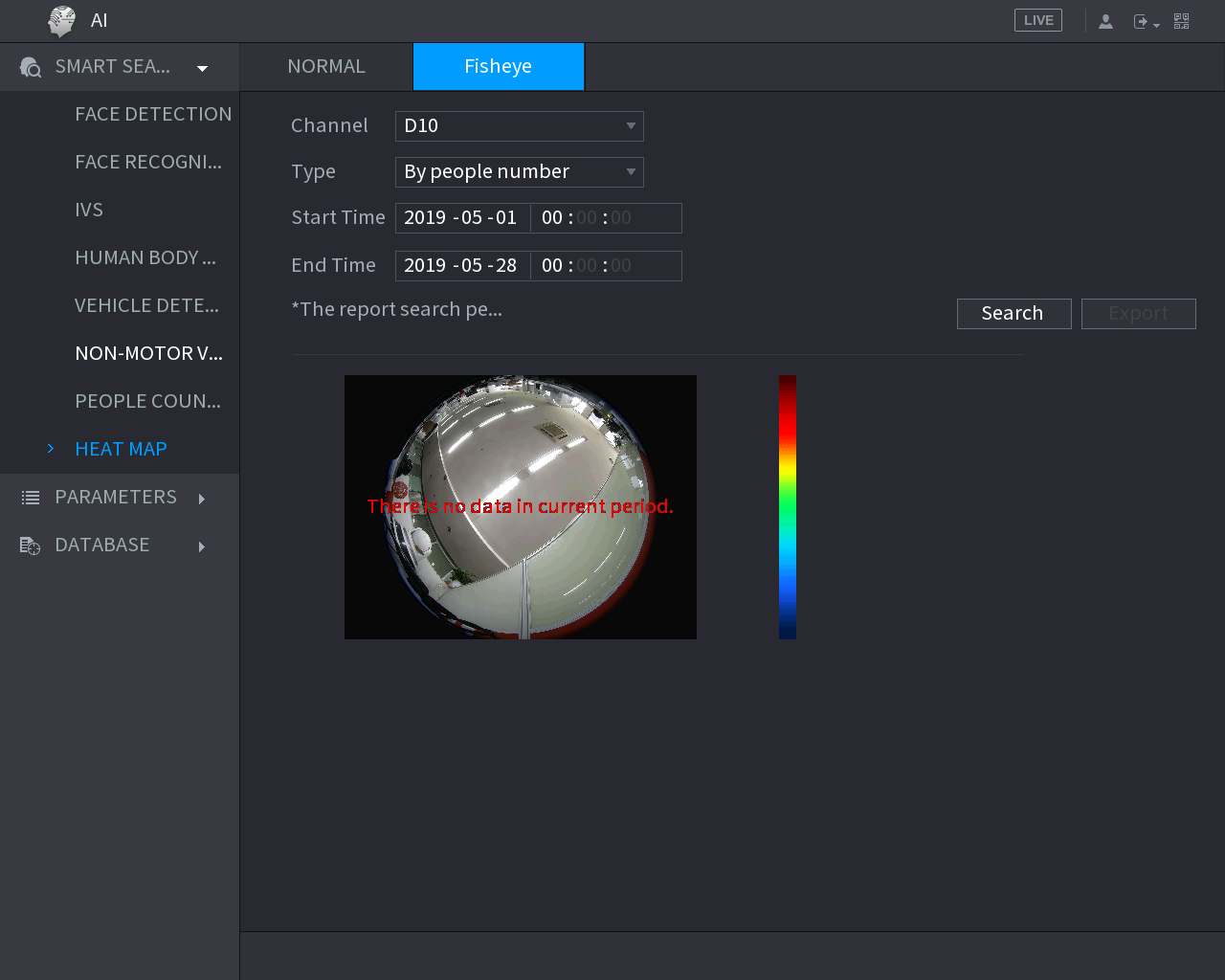
1. Supports people counting and people number displaying for multiple areas, and you can export a report by number of people and average stay time.

People counting (2)



1. Supports displaying heat map by number of people and average stay time. You can also search for data and export the data.

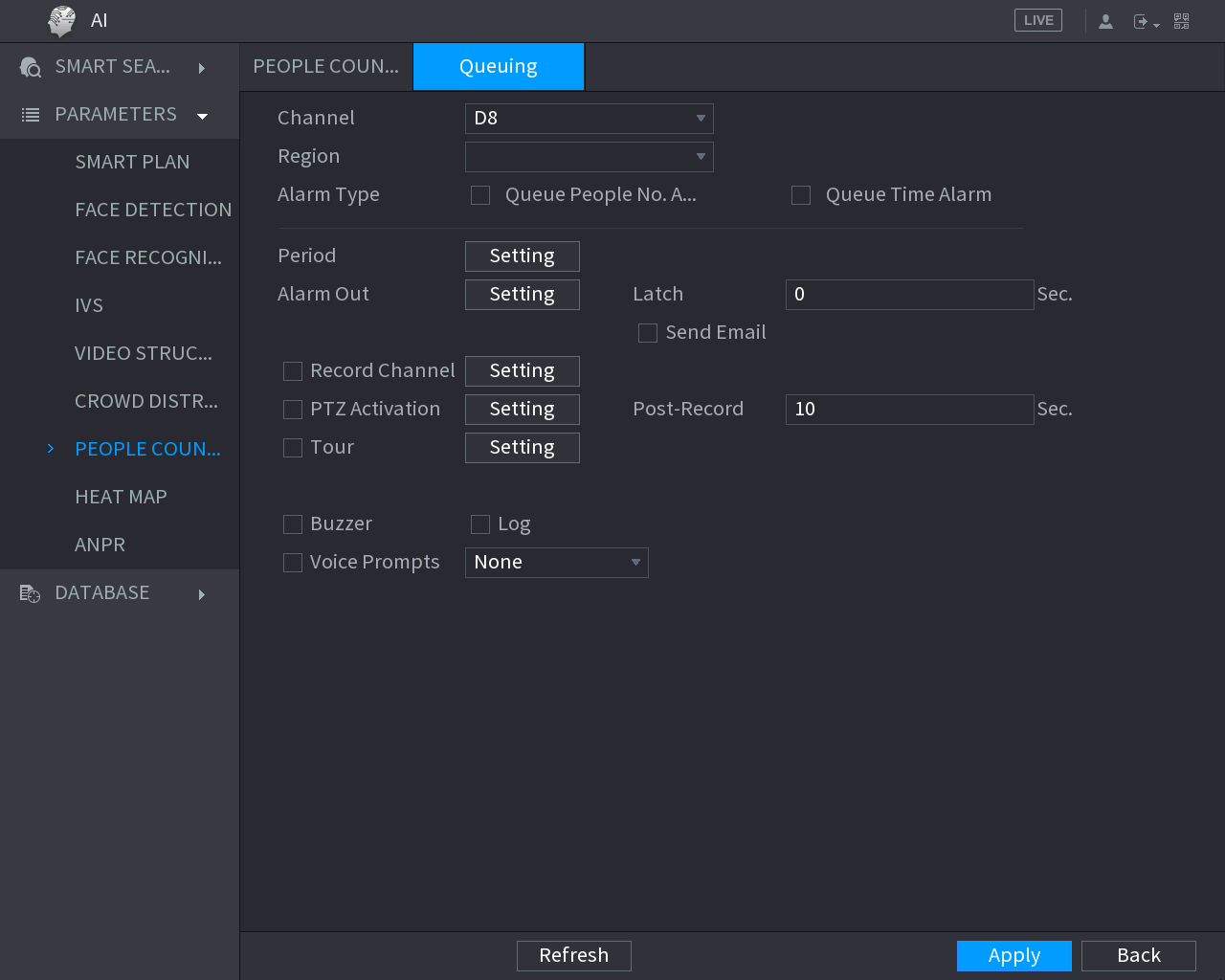
Heat map



1. Supports queuing management: Displaying queue number and queue time.

* Supports Queuing alarm linkage: When queue number or queue time exceeds a preset value, alarm linkage will be triggered.
* Queue number exception and queue time exception share the same linkage configuration.
* Rule frame configuration and fisheye correction of AI Fisheye camera are not supported currently.

Queuing



## Compatibility

After updating to latest new baseline version 4.0, user cannot update back to versions lower than version 4.0

## Software Environment

| Model | Version |
| --- | --- |
| DH-IPC-HFW81230E-Z-IRA, | 2.6.01.05.06362 DH\_IPC-HX8XXX-Nova\_Chn\_PN\_Stream3\_V2.640.0000004.0.R.190118.zip |
| DH-IPC-HF8331FP-S2, | 2.6.01.05.06365 DH\_IPC-HX8XXX-Nova\_MultiLang\_PN\_Stream3\_V2.640.0000004.0.R.190118.zip |
| DH-IPC-HF81239F, | 2.6.01.05.06889 DH\_IPC-HX8XXX-Wei-Nova2\_Chn\_PN\_Stream3\_V2.622.0000000.6.R.190130.zip |
| DH-IPC-HFW5233F-ZSA-27135, | 2.6.01.05.05914 DH\_IPC-HX4XXX-Eos\_Chn\_PN\_Stream3\_V2.680.0000000.41.R.181212.zip |
| DH-IPC-HFW8239K-Z-I4-3512, | 2.6.01.05.05912 DH\_IPC-HX8XXX-Eos\_Chn\_PN\_Stream3\_V2.680.0000000.41.R.181212.zip |
| DH-IPC-HFW8438K-Z-I4-27135, | 2.6.01.05.03379 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.622.0000000.30.R.180905.zip |
| DH-IPC-HFW4443M-AS-PV-I2-0360B, | 2.6.01.05.08342 DH\_IPC-HX5XXX-Volt\_Chn\_PN\_Stream3\_V2.680.0000000.5.R.190404.zip |
| DH-IPC-HFW4833F-ZAS-3512, | 2.6.01.05.08213 DH\_IPC-HX5(4)XXX-Sag\_Chn\_PN\_Stream3\_V2.800.0000000.2.R.190404.zip |
| DH-IPC-HFW4433K-AS-I4-0360B, | 2.6.01.05.05914 DH\_IPC-HX4XXX-Eos\_Chn\_PN\_Stream3\_V2.680.0000000.41.R.181212.zip |
| DH-IPC-HDBW5233E-Z-X1-27135-DC12AC24V, | 2.6.01.05.07673 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HFW4631K-AS-I4-0360B, | 2.6.01.05.07673 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HFW5433E-Z-IRA-X1-0560-DC12AC24V, | 2.6.01.05.07673 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HFW5631E-Z-0735-AC24V, | 2.6.01.05.07673 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HDBW5431EP-ZE-27135, | 2.6.01.05.07655 DH\_IPC-HX5X3X-Rhea\_MultiLang\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HDBW5831EP-ZE-0735, | 2.6.01.05.07655 DH\_IPC-HX5X3X-Rhea\_MultiLang\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HUM8231P-E2, | 2.6.01.05.02685 DH\_IPC-HX5X3X-Multi-Rhea\_Eng\_P\_V2.622.0000000.31.R.180813.zip |
| DH-IPC-HUM7233-E1, | 2.6.01.05.07673 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-HFW8249E-ZFR-IRA-LED-0832, | 2.6.01.05.07146 DH\_IPC-HX8X4X-Warpway\_Chn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HF8841F-FD, | 2.6.01.05.07146 DH\_IPC-HX8X4X-Warpway\_Chn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HFW8841E-ZFR-IRA-LED-67134, | 2.6.01.05.07146 DH\_IPC-HX8X4X-Warpway\_Chn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HFW8249E-ZFDI-IRA-LED-0832, | 2.6.01.05.07160 DH\_IPC-HX8X4X-Warpway2\_Chn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HDW7341X-E2-0280B, | 2.6.01.05.05281 DH\_IPC-HX8X4X-Kronos\_Chn\_PN\_Stream3\_V2.622.0000000.5.R.181215.zip |
| DH-IPC-HFW7243K-ZPC-I4-0735, | DH\_IPC-HX8X4X-Warpway2\_Chn\_PN\_Stream3\_V2.622.0000000.9.R.181119.zip |
| DH-IPC-HD4140X-E2-0210B, | 2.6.01.05.08217 DH\_IPC-HX7XXX-Sag\_Chn\_PN\_Stream3\_V2.800.0000000.2.R.190404.zip |
| DH-IPC-HDW8341XP-3D-0280B, | 2.6.01.05.05284 DH\_IPC-HX8X4X-Kronos\_Eng\_P\_Stream3\_V2.622.0000000.5.R.181215.zip |
| DH-IPC-HDW7341X-B-E2-0280B, | 2.6.01.05.02992 DH\_IPC-HX8X4X-Kronos\_Chn\_PN\_Stream3\_V2.622.0000000.4.R.180816.zip |
| DH-IPC-HFW8449K-ZRL-LED-3512, | DH\_IPC-HX8XXX-Volt\_Chn\_PN\_Stream3\_V2.680.0000000.5.R.190404.zip |
| DH-IPC-HFW5541EP-ZE-27135, | DH\_IPC-HX5XXX-Volt\_MultiLang\_PN\_Stream3\_V2.680.0000000.5.R.190404.zip |
| DH-IPC-HFW5241EP-ZE-27135, | DH\_IPC-HX5XXX-Volt\_MultiLang\_PN\_Stream3\_V2.680.0000000.5.R.190404.zip |
| DH-IPC-HFW5541EP-ZE-27135, | DH\_IPC-HX5XXX-Volt\_MultiLang\_PN\_Stream3\_V2.680.0000000.5.R.190404.zip |
| DH-IPC-HF8242FP-FR, | 2.6.01.05.07153 DH\_IPC-HX8X4X-Warpway\_EngSpnFrn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HF8242FP-FD, | 2.6.01.05.07153 DH\_IPC-HX8X4X-Warpway\_EngSpnFrn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-HF8241FP, | 2.6.01.05.07170 DH\_IPC-HX8X4X-Warpway2\_EngSpnFrn\_PN\_Stream3\_V2.680.0000000.1.R.190223.zip |
| DH-IPC-PDBW5831P-B360-E4-2712, | 2.6.01.05.06704 DH\_IPC-HX8(5)XXX-Sag\_EngSpnFrn\_PN\_V2.622.0000000.21.R.190125.zip |
| DH-IPC-PDB4830P-B360-E4-0360B, | 2.6.01.05.07064 DH\_IPC-HX8(5)XXX-Sag\_EngSpnFrn\_PN\_V2.622.0000000.22.R.190225.zip |
| DH-PSDW5631SP-B360-E4-D204-DC12V, | 2.6.01.05.06035 DH\_IPC-HX8(5)XXX-Sag\_EngSpnFrn\_PN\_V2.622.0000000.20.R.190110.zip |
| DH-IPC-PFW8809-H-A180-E4-AC24V, | DH\_IPC-PFW8XXX-Nova\_Chn\_PN\_Stream3\_V2.622.0000000.3.R.181201.zip |
| DH-PSDW81649-H-A360-E9, | DH\_IPC-PSD8XXX-Fafnir\_Chn\_PN\_Stream3\_V2.622.0000000.1.R.181205.zip |
| DH-PSD81602P-H-A360-E9, | DH\_IPC-PSD8XXX-Nova\_Eng\_P\_Stream3\_V2.460.0000.4.R.20170927.zip |
| DH-IPC-PFW8802P-H-A180-E4-AC24V, | DH\_IPC-PFW8XXX-Nova\_Eng\_P\_Stream3\_V2.622.0000000.3.R.181201.zip |
| DH-IPC-HDBW4231FP-E2-M-0360B, | 2.6.01.05.02685 DH\_IPC-HX5X3X-Multi-Rhea\_Eng\_P\_V2.622.0000000.31.R.180813.zip |
| DH-IPC-EW5431-ASW, | 2.1.02.01.17602 DH\_IPC-HX5X3X-Rhea\_Chn\_PN\_Stream3\_V2.460.0000000.16.R.20170919.zip |
| DH-IPC-EB5531, | 2.6.01.05.07655 DH\_IPC-HX5X3X-Rhea\_MultiLang\_PN\_Stream3\_V2.800.0000005.0.R.190325.zip |
| DH-IPC-EBW81230, | 2.6.01.05.06903 DH\_IPC-HX8XXX-Nova2\_Chn\_PN\_Stream3\_V2.622.0000000.6.R.190130.zip |
| DH-IPC-EBW8630P, | 2.6.01.05.06908 DH\_IPC-HX8XXX-Nova2\_EngSpnFrn\_PN\_Stream3\_V2.622.0000000.6.R.190130.zip |
| DH-IPC-EBW81230P, | 2.6.01.05.06908 DH\_IPC-HX8XXX-Nova2\_EngSpnFrn\_PN\_Stream3\_V2.622.0000000.6.R.190130.zip |
| ITC237-PU1B-IR, | 2.6.01.08.01701 General\_ITC237-PU1B(PW1B)-IR(IRZ)(L)\_Eng\_PN\_Oversea\_Europe\_V2.622.0000000.1.R.181114.zip |
| ITC237-PW1B-IRZ, | 2.6.01.08.01701 General\_ITC237-PU1B(PW1B)-IR(IRZ)(L)\_Eng\_PN\_Oversea\_Europe\_V2.622.0000000.1.R.181114.zip |
| ITC215-PW4I, | General\_ITC215-PW4I-XXX\_Eng\_PN\_Oversea\_ITCPUSH\_EuropeENTRANCE\_V2.623.0000000.0.R.180930.zip |
| ITC952-RF2D, | General\_ITCXX2-RF2D-IR\_Eng\_PN\_Oversea\_3G\_V2.622.0000000.7.R.190321.zip |
| ITC352-RF2D, | General\_ITCXX2-RF2D-IR\_Eng\_PN\_Oversea\_3G\_V2.622.0000000.7.R.190321.zip |
| ITC302-RF2D, | General\_ITCXX2-RF1D(RF2D)\_Chn\_P\_V2.722.0000000.0.R.190409.zip |
| ITC902-RF2D, | General\_ITCXX2-RF1D(RF2D)\_Chn\_P\_V2.722.0000000.0.R.190409.zip |
| ITC235-RF1D, | General\_ITC235-RF1D\_Chn\_P\_V2.622.0000000.0.R.180424.zip |
| ITC235-RF2E, | General\_ITC235-RF1E(RF2E)\_Chn\_P\_Stream3\_V2.620.0000000.0.R.180705.zip |
| ITC835-RF1D, | General\_ITC835-RF1D\_Chn\_PN\_V2.622.0000000.0.R.180818.zip |
| ITC302-SF2D-QD, | General\_ITC302-SF2D-QD\_Chn\_P\_V2.622.0000000.0.R.180611.zip |
| ITC902-SF2D-QA, | General\_ITC902-SF2D-QA\_Chn\_P\_V2.622.0000000.0.R.180425.zip |
| ITC902-SF2D-QB, | General\_ITC902-SF2D-QB\_Chn\_P\_V2.401.0000000.1.R.180509.zip |
| ITC215-PW5H-F3, | General\_ITC215-PW5H-F(R)\_Chn\_PN\_GAYSITCPUSH\_Mainland\_V2.622.0000000.2.R.180929.zip |
| ITC215-PW5H, | General\_ITC215-PW5H-F(R)\_Chn\_PN\_GAYSITCPUSH\_Mainland\_V2.622.0000000.2.R.180929.zip |
| ITC314-PH2A, | General\_ITCXX4-PH1B(PH1C)(PH2A)-(TF2)\_Chn\_PN\_GAYS\_Mainland\_V2.622.0000000.1.R.180418.zip |
| DH-TPC-BF8x21 | General\_TPC-BF8X21\_V2.200.0000000.5.R.190327.zip |
| DH-SD-8A1840WA-HNF, | 2.6.01.05.07347  DH\_SD-Fafnir\_Chn\_PN\_Stream3\_V2.623.0000000.13.R.190227.zip |
| SD6CE230U-HNI, | 2.6.01.05.06726  DH\_SD-Eos\_MultiLang\_PN\_Stream3\_V2.623.0000000.17.R.190119.zip |
| DH-SD-1A1203UE-GN-PD, | 2.1.01.04.10167 DH\_SD-Eos-Civil\_Chn\_PN\_Stream3\_V2.622.0000000.13.R.180328.zip |
| DH-SD29204UE-GN-W, | 2.6.01.05.06270 DH\_SD-Eos-Civil\_MultiLang\_PN\_Stream3\_V2.623.0000000.17.R.190119.zip |
| DH-SD6C82F-HNP(ZJ)-A | 2.6.01.05.08251 DH\_SD-Eos\_Chn\_PN\_Stream3-ZhouJie\_V2.623.0000000.17.R.190119.zip |
| DH-SD-6C3440XA-HNR, | 2.6.01.05.06793 DH\_SD-Prometheus\_Chn\_PN\_Stream3\_V2.623.0000000.5.R.190220.zip |
| DH-SDT-5A404WA-C4F, | 2.6.01.05.07333 DH\_SD-Fafnir\_Chn\_PN\_Stream3-Lingtong\_V2.623.0000000.13.R.190227.zip |
| DH-SDT-8A1840WA-T8Z4, | 2.6.01.05.08301   DH\_SD-Fafnir\_Chn\_PN\_Stream3-Tianshu\_V2.800.0000000.1.R.190402.zip |
| DH-VTO9341D-S, | 2.6.01.18.01051  General\_VTO9341D-S\_Chn\_P\_SIP\_V1.000.0000000.5.R.20181010.zip |
| DH-VTT201, | 2.6.01.18.00886 General\_VTT201\_Chn\_P\_16M\_SIP\_V1.001.0000000.2.R.20180817.zip |
| DHI-DSS7016D-S2, | General\_OverseasDSS7016S2\_Eng\_Basic\_V1.000.0000000.0.R.20181130.tar.gz, |
| DSS7016D-S2-I, | During development. |
| DSSC9100/C9505 | During development. |
| IBSP-PRO | 2.7.01.07.00243 General\_iBSP\_Chn\_Oracle\_IS\_V4.000.0000001.0.R.20190122.tar.gz |
| H8900, | 2.7.01.08.00410 General\_DSS-H8900\_Chn\_Basic\_V3.001.0000001.7.R.20190131.tar.gz |
| NKB1000, | General\_NETKB1000\_Chn\_V2.610.0000.4.R.20161024.zip, |
| NKB5000, | DH\_NKB5000\_Chn\_V3.210.0003.0.R.170930.BIN, |
| NVD0405DH-4K, | General\_NVD0405DH-4K\_Chn\_P\_V3.200.0002.00.R.20170713.zip |
| NVD0905DH-4I-4K, | General\_NVD0905DH-4K\_Chn\_V3.200.0003.0.R.170509.BIN |
| SmartPSS | DH\_SmartPSS\_ChnEng\_Win32\_IS\_V2.02.0.R.171124.zip, |
| DMSS | 2.1.02.01.10709 General\_DMSS-IOS-Phone-Lite-Device\_Internel\_Basic\_IS\_V3.24.000.R.140928.ipa |
| Player | General\_Player\_Chn\_WIN32\_V3.44.0.R.170421.zip, |
| ConfigTool | General\_ConfigTool\_ChnEng\_V4.011.0000001.4.R.20190305.zip, |
| NetSDK | General\_NetSDK\_Chn\_Win64\_IS\_V3.050.0000005.3.R.190225.7z, |
| DiskManager |  |

## Pending Issues

None.

## Update Guide

None.

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