



DH_NVR5XXX-EI_MultiLang_ V4.000.0000000.1.R.230620.zip

Release Notes



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1 Release Notes

1.1 Overview

Product name	Network Video Recorder (NVR)
Version	V4.000.0000000.1
Software package information	DH_NVR5XXX-EI_MultiLang_V4.000.0000000.1.R.230620.zip
ONVIF version	Server: 22.06 Client: 2.4.1
Model	DHI-NVR5208-EI, DHI-NVR5216-EI, DHI-NVR5232-EI, DHI-NVR5416-EI, DHI-NVR5432-EI, DHI-NVR5464-EI, DHI-NVR5816-EI, DHI-NVR5832-EI, DHI-NVR5864-EI, DHI-NVR5016-EI, DHI-NVR5032-EI, DHI-NVR5064-EI, DHI-NVR5208-8P-EI, DHI-NVR5216-8P-EI, DHI-NVR5232-8P-EI, DHI-NVR5216-16P-EI, DHI-NVR5232-16P-EI, DHI-NVR5416-16P-EI, DHI-NVR5432-16P-EI, DHI-NVR5464-16P-EI, DHI-NVR5816-16P-EI, DHI-NVR5832-16P-EI, DHI-NVR5864-16P-EI
OS requirement	None
Release date	June 20, 2023

1.2 New Features

No.	Feature	Description
1	AcuPick	Exact search of human bodies and motor vehicles in live videos. Exact search of human bodies and motor vehicles in recorded videos. Supports drawing Region of Interest (ROI) while watching the recorded videos, filtering the human bodies and motor vehicles in the region and performing AcuPick.
2	Web 5.0	Supports pulling streams through plug-ins for browsers of certain versions. Optimized UI design of certain functions.
3	EPTZ Linkage	Supports configuring EPTZ linkage and tracking. Supports enabling and disabling the EPTZ display mode on the live page.

No.	Feature	Description
4	Sound Classification Detection (Abnormal Sound Detection)	AI by Camera supports the detection of baby cry, gunshot and explosion. Supports alarm configuration and event search.
5	Smart Object Detection	AI by Camera supports detecting targets such as luggages, bags, boxes and non-motor vehicles. Missing object detection, alarm linkage, event display and search.
6	Channel Name display	Pushes device information to DMSS, which includes the channel number and name.
7	Auto Registration	Supports adding cameras through auto registration.
8	N+M Cluster	Supports deploying multiple devices to a cluster for higher stability. When the active device is abnormal, the server will select a standby device to take over for the active device. When the active device is restored, the video data stored to the standby device will be transmitted to it.
9	iSCSI	Disk capacity expansion through iSCSI.
10	Web Redirection from Platform	Supports opening the webpage of devices added through auto registration. Supports opening the webpage of sub devices managed by the devices.
11	PoE Mode	Route mode. Bridge mode.
12	Copy & Paste	When the system is in Chinese or English, the content in the text input box (excluding password input box) can be copied and pasted.
13	Multi-channel Voice Talk	Independent talk between multiple clients and cameras.

1.3 New Feature Details

1.3.1 AcuPick Function

1.3.1.1 Mode Selection



When AcuPick is enabled on both Camera and Local pages, AcuPick function is available.

Camera

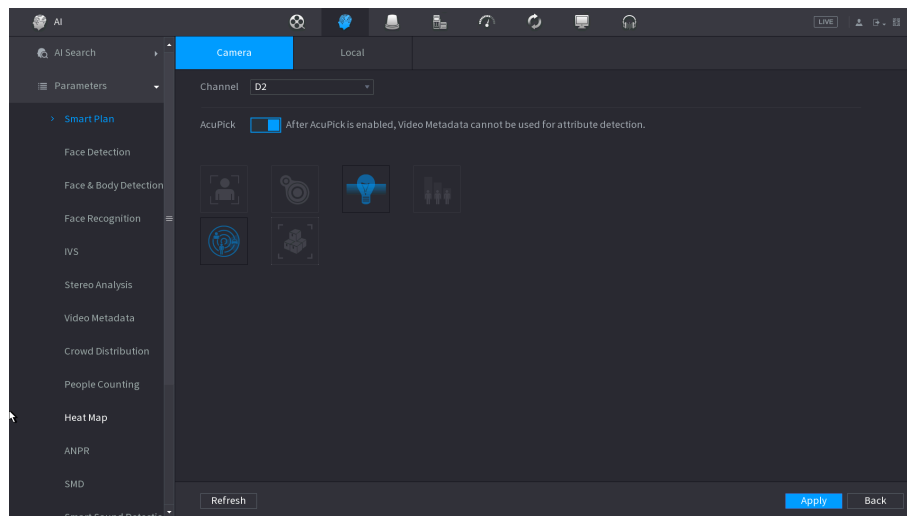
Displays the smart plan of the camera. For cameras that support AcuPick, the toggle for enabling the function is displayed.

AcuPick is enabled by default. After AcuPick is enabled, Video Metadata cannot be used for attribute detection. Video metadata and perimeter protection are enabled at the same time and cannot be modified.



After enabling or disabling AcuPick, the camera will restart automatically.

Figure 1-1 Camera Mode



Local

Supports **AcuPick** and **AI Mode**. **AcuPick** is selected by default.

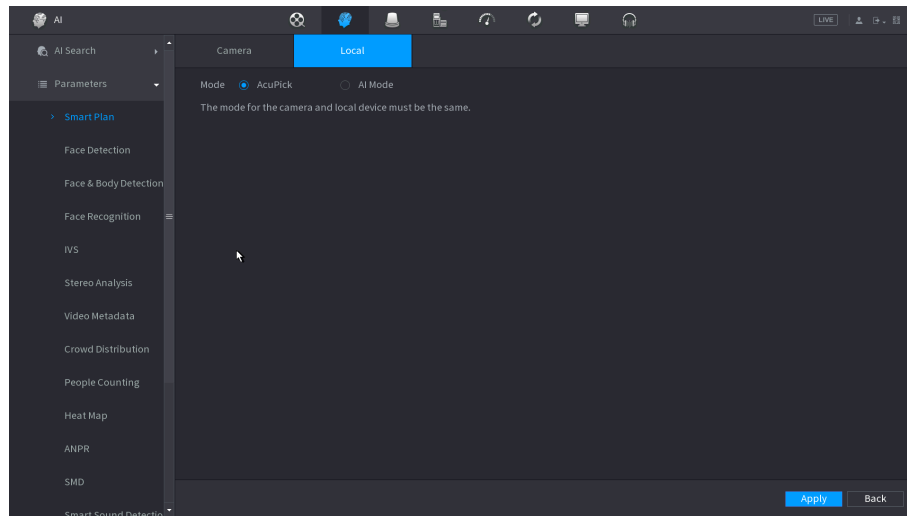
When **AcuPick** is enabled, the auxiliary screen cannot display images in 4K resolution. AI by Recorder including face detection, face recognition, perimeter protection and SMD cannot be enabled, and fisheye dewarping is not supported.

When AI Mode is enabled, AcuPick of devices is not supported. AI by Recorder including face detection, face recognition, perimeter protection and SMD can be enabled, and fisheye dewarping is supported.



After changing the mode, the local device will automatically restart.

Figure 1-2 Local Mode



1.3.1.2 AcuPick

You can perform AcuPick on both live view and playback pages. You can search for human and motor vehicles.

1.3.1.2.1 Image Freeze

Procedure

Step 1 For single-channel live view, click **AcuPick** to freeze the video image.

- The system automatically detects the target with target box in the image. Point to the target to highlight the target box and display the search button. Click the button or double-click the target box to search.

Figure 1-3 Live video search

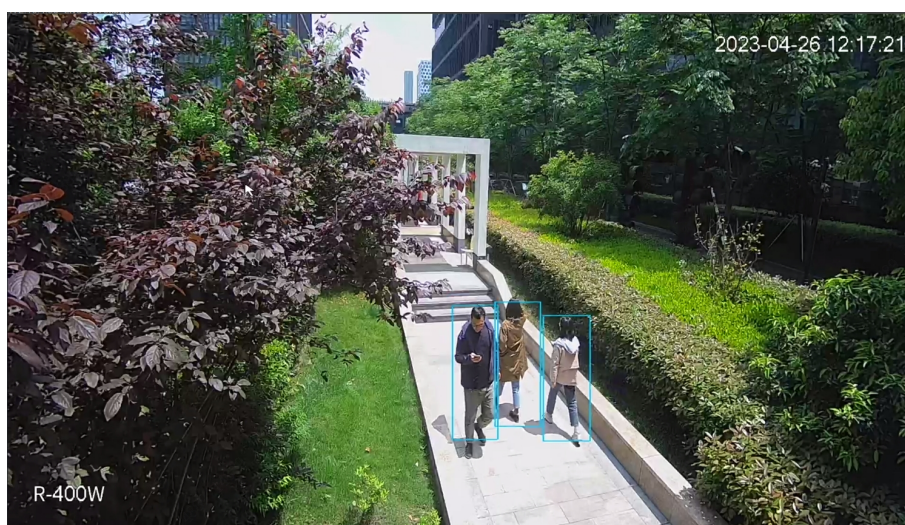


Figure 1-4 Payback search



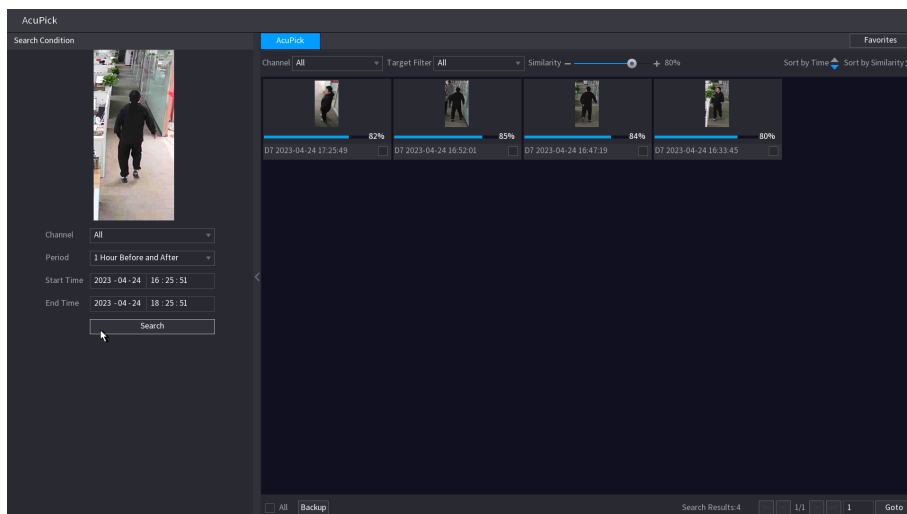
- Point to the outside of the target box, and draw the area with a box. After stopping drawing, click the search button.

Step 2 After selecting the target, click the search button or double click the target box to perform AcuPick.

1.3.1.2.2 Displaying Search Results

The search results are displayed with 80% similarity and in all channels by default.

Figure 1-5 Displays AcuPick results



1.3.1.2.3 Search Result Collection and Backup

Add to favorite: Click the start icon in the upper left corner of the target image to collect the search results.

Hide: Click the eye icon in the upper left corner of the target image to hide the search results.

After the collection/hiding operation, you can filter categories to view the corresponding results. By default, it is sorted by the order of favorites, that is, the new favorites are ranked first, which supports sorting by the time of events.

Figure 1-6 Filter favorite items

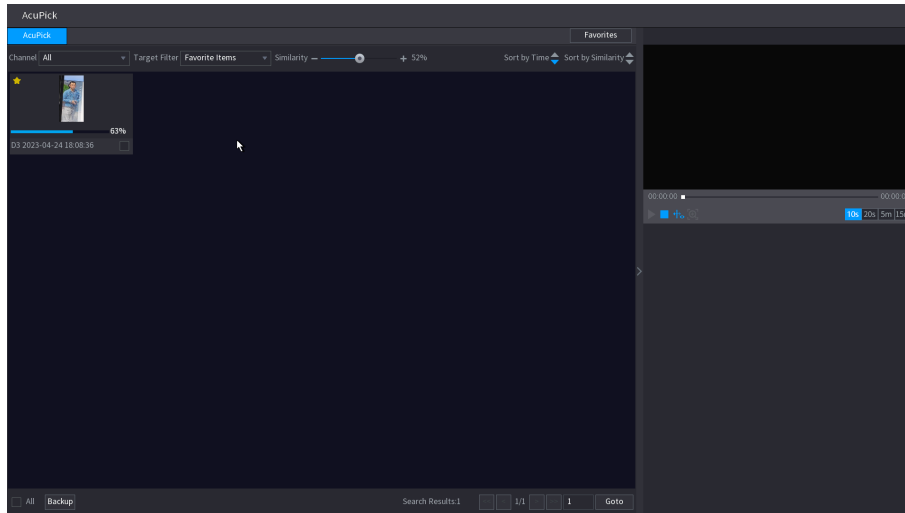
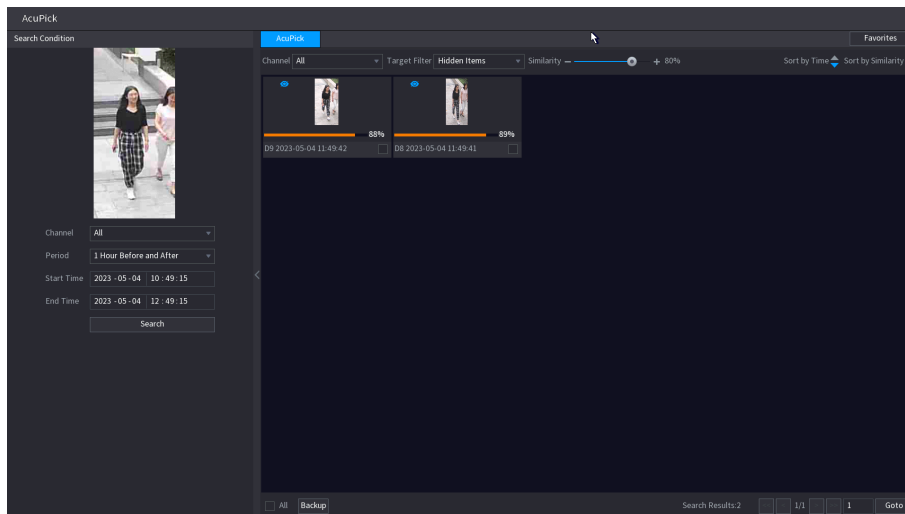
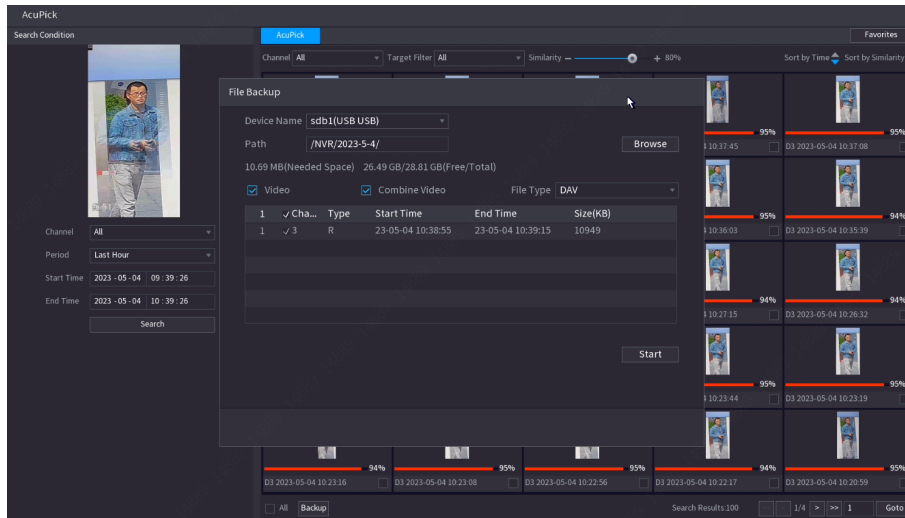


Figure 1-7 Filter hidden items



Backup: Select the target image to back up the video of the event associated with the target. You can select a single, multiple (cross-page), and all search results on current page for backup. The format type supports DAV and MP4. You can backup and merge multiple videos into one video file.

Figure 1-8 Backup search results



1.3.1.2.4 Search Results Playback & Secondary Filtering Retrieval

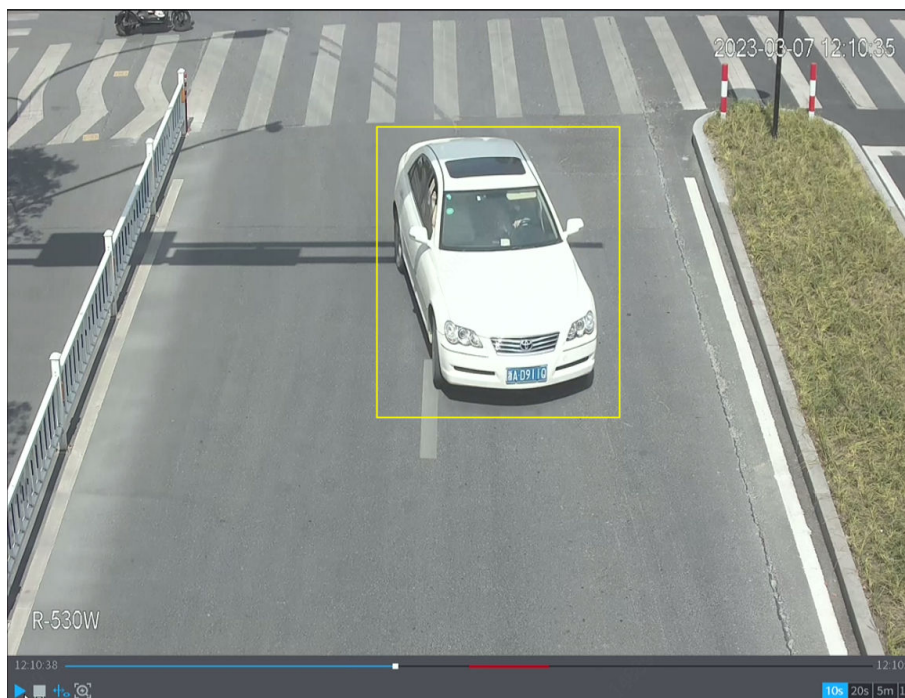
On the the playback page, large image is displayed by default.

You can play videos of different periods before or after the event reporting. The videos on the current page are automatically played in sequence, and when the last associated video is played, it stops playing videos.

You can play, pause, stop playing videos, view rule areas and rules, perform AcuPick. You can also select the play duration. 10 s, 20 s, 5 min, and 15 min are available.

Secondary filtering retrieval: On the playback page, click AcuPick, and then keep the search condition as default. For details on the search procedures, see "1.3.1.2.1 Image Freeze". During the secondary filtering retrieval, the frozen image is displayed in full screen.

Figure 1-9 Play back the secondary filtering retrieval results



1.3.1.3 Filtering Region of Interest

1. Select and search for the target (person or motor vehicle), and then the recordings with the target are displayed on the time axis;

Figure 1-10 Select the target

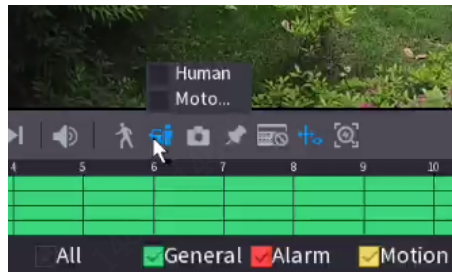
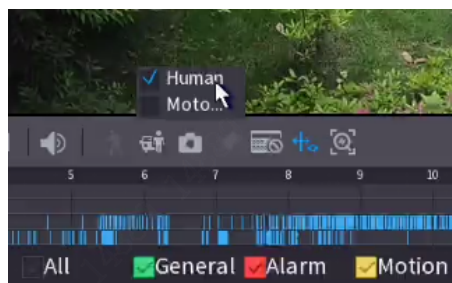
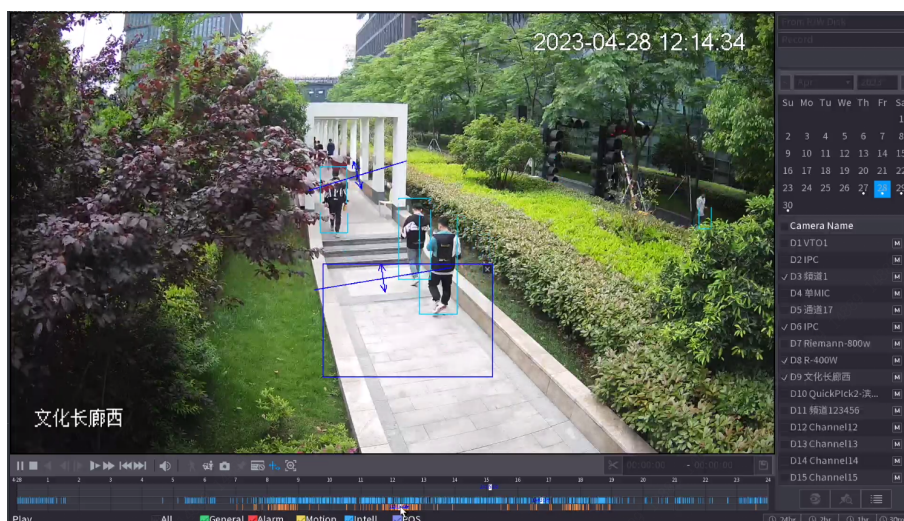


Figure 1-11 Filter the target



2. On the single image segmentation page, you can draw the detection area. Click **Search** to filter the targets passing through the detection area for the second time. When the target is searched, the color on the time axis changes to orange.

Figure 1-12 Filter region of interest



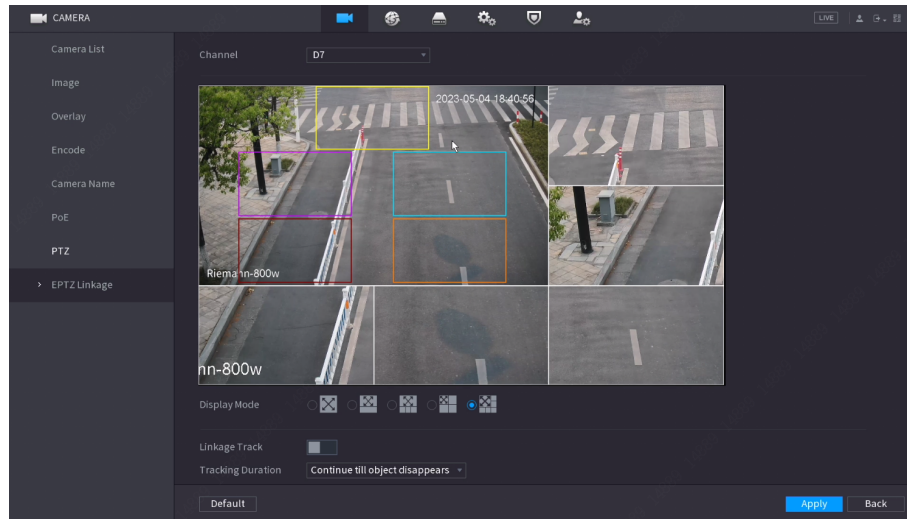
After filtering the region, you can perform AcuPick.

1.3.2 EPTZ

1.3.2.1 Configuring EPTZ Linkage

On the home page, select **CAMERA > EPTZ Linkage**.

Figure 1-13 Configure EPTZ Linkage



Display mode is used to select the number of tracked channels. Full screen, 1+1, 1+3 and 1+5 modes are available, and full screen is selected by default.

You can zoom in, zoom out, and move the check box.

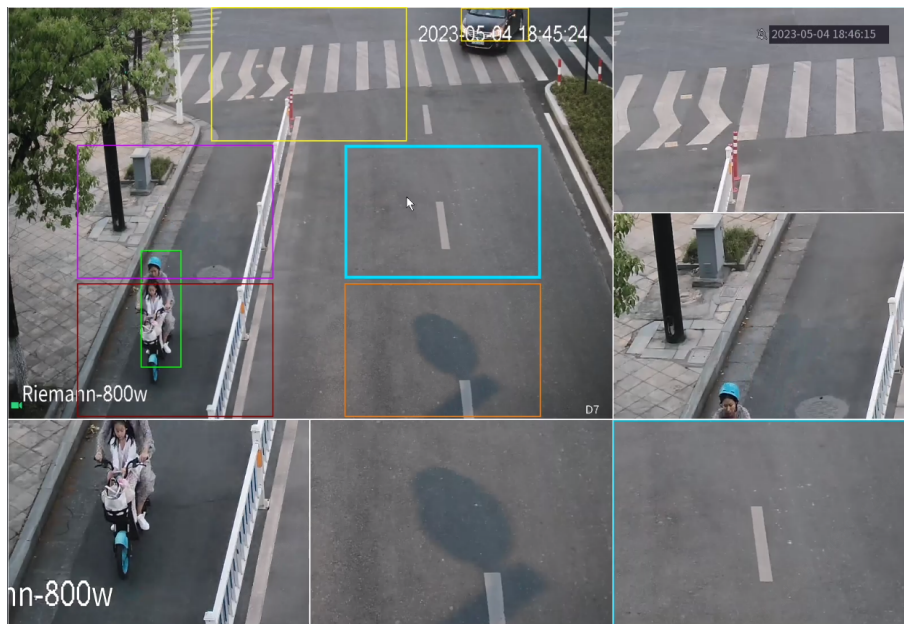
After **Linkage Track** is enabled, intelligent events will be tracked. It is disabled by default.

You can select **Continue till object disappears** or **Custom** from the **Tracking Duration** drop-down list. Custom range is 5–300 seconds.

1.3.2.2 EPTZ Live View

1. Select **LIVE > EPTZ**, enable EPTZ, and then you can view local EPTZ live videos. According to the EPTZ configuration of the corresponding channel, you can see split image and tracking display effects.
2. Switch the image splitting/live view layout/channel order, and exit the EPTZ live view mode. Right-click other services such as main menu/playback, and return to EPTZ live view mode after exiting.

Figure 1-14 EPTZ live view



1.3.3 Sound Classification Detection (Abnormal Sound Detection)

1.3.3.1 Configuring Smart Sound Detection

Select **AI > Parameters > Smart Sound Detection**, and then parameters are displayed according to the camera capability.

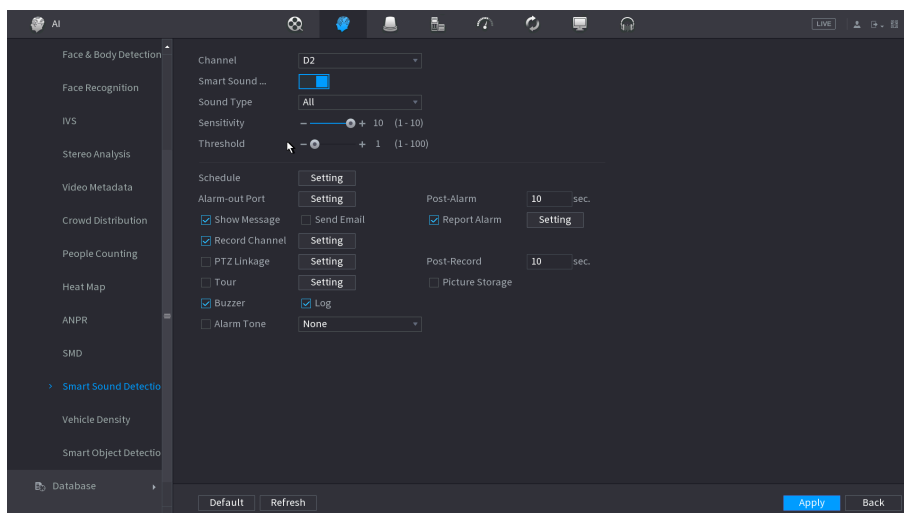
Sound Type: Includes glass breaking, scream, gunshot, and explosion.

Sensitivity: The higher the sensitivity value, the easier an alarm will be triggered.

Threshold: The higher the threshold value, the higher the sound volume to trigger an alarm.

Smart sound detection and metadata of front-end devices are mutually exclusive. After metadata is enabled, you cannot enable smart sound detection.

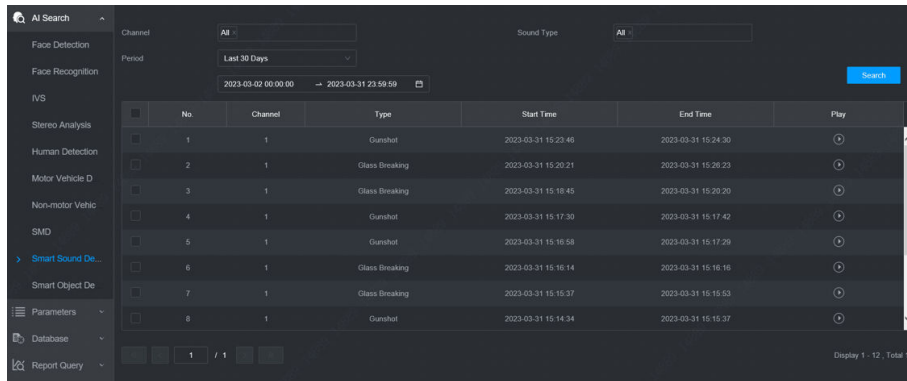
Figure 1-15 Configuring smart sound detection



1.3.3.2 Searching for Smart Sound Detection Events

Select **AI > AI Search > Smart Sound Detection**, select the channel, sound type, and period, and then click **Search**.

Figure 1-16 Searching for smart sound detection events

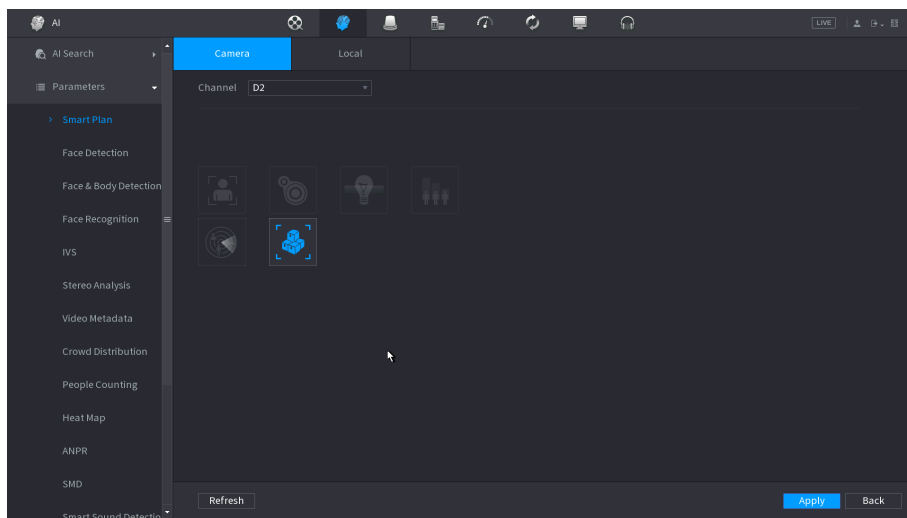


1.3.4 Smart Object Detection

1.3.4.1 Configuring Smart Plan of Object Detection

Select **AI > Parameters > Smart Plan**, smart plan of object detection is displayed according to the camera capability. You can enable and disable the smart plan of object detection.

Figure 1-17 Smart plan



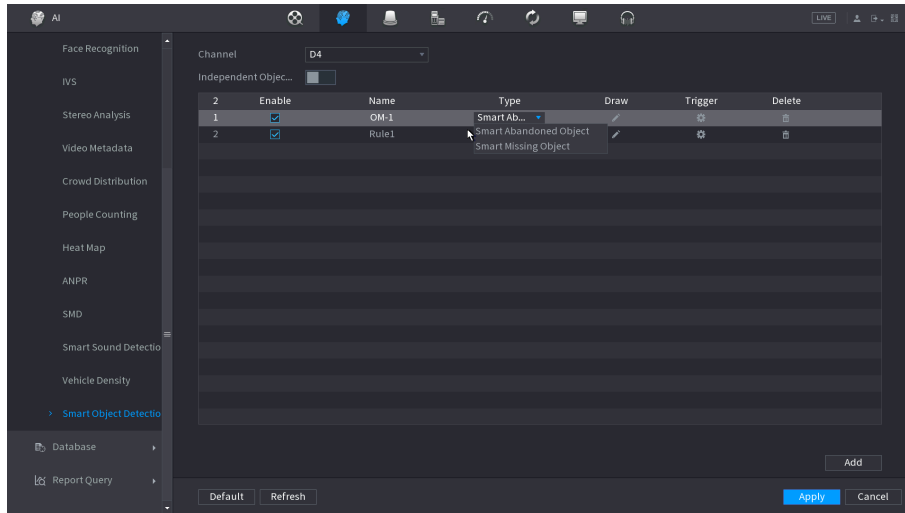
1.3.4.2 Configuring Smart Object Detection

Select **AI > Parameters > Smart Object Detection**, you can enable and configure different types of rules according to the camera capability.

1. Supports abandoned object and missing object rules.
2. Supports selecting the target type for the rule. Target types: Luggage/bag/box; non-motor vehicle.

3. Supports configuring the minimum duration for abandoned object and missing object detection.
4. Supports configuring the detection area for abandoned object and missing object detection.
5. Supports independent object alarm.

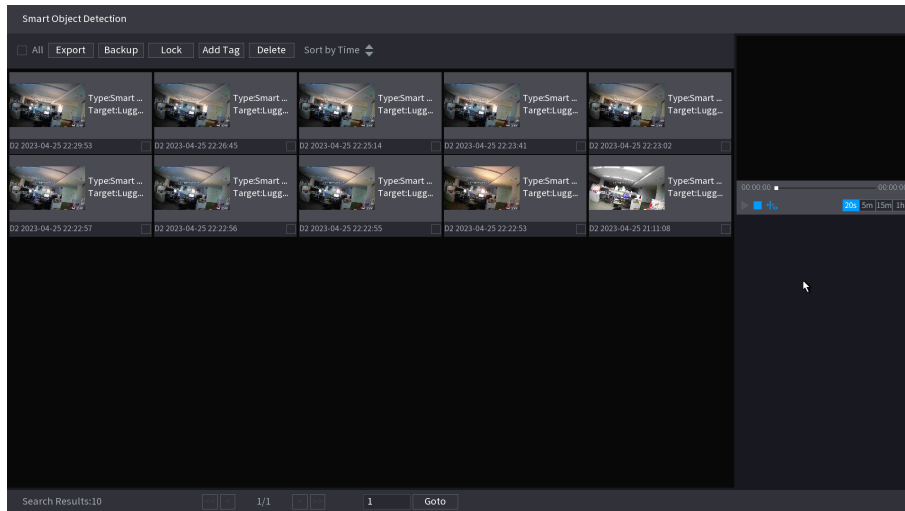
Figure 1-18 Smart object detection



1.3.4.3 Searching for Smart Object Detection Events

Select **AI > AI Search > Smart Object Detection**, configure the channel, period, event type and target, and then click **Search** to the alarm events.

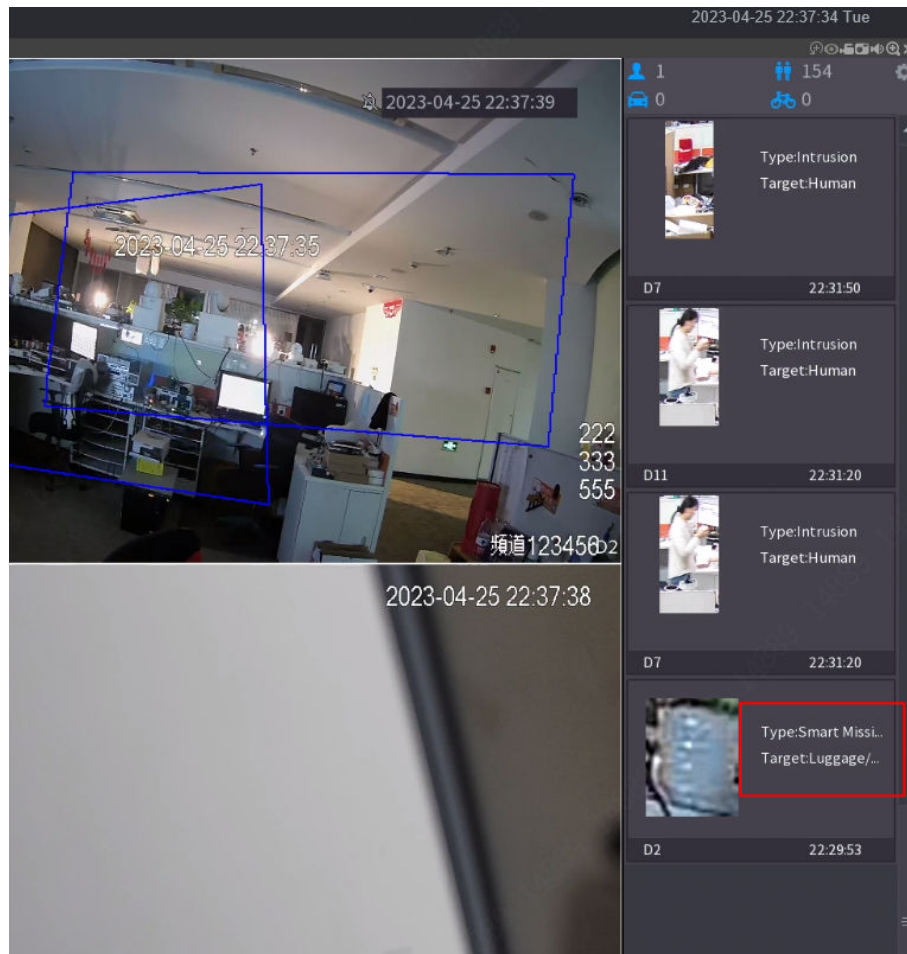
Figure 1-19 Searching for smart object detection events



1.3.4.4 Displaying Object Monitoring Images on AI Panel

View the object monitoring images on AI panel.

Figure 1-20 AI panel

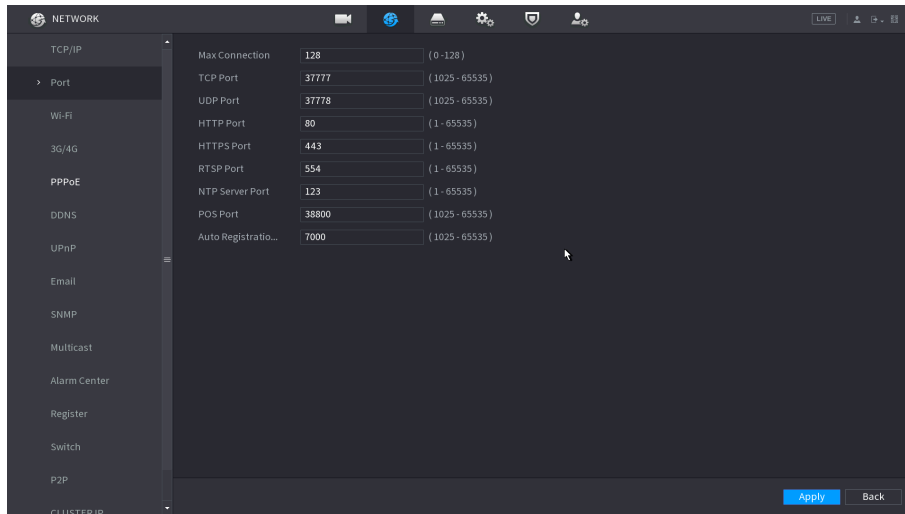


1.3.5 Adding IPC through Auto Registration

Procedure

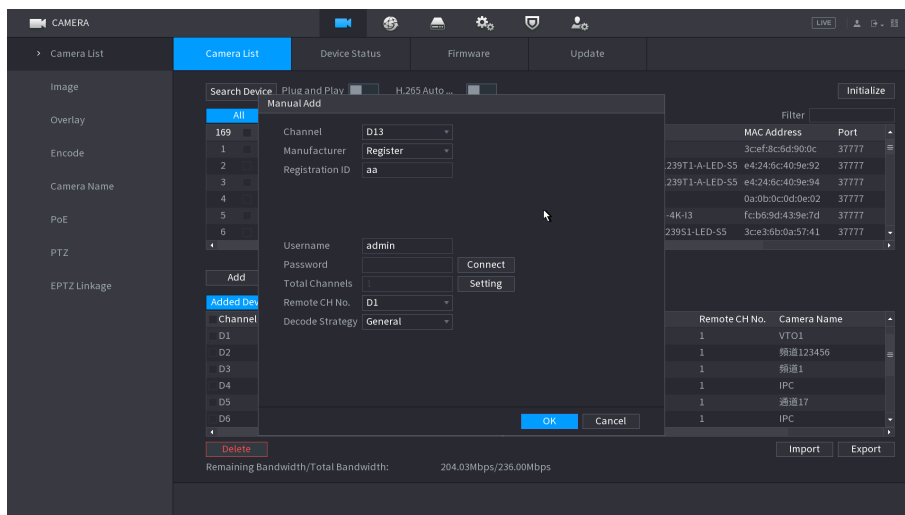
- Step 1 Configure the auto registration port and ID on the camera webpage.
- Step 2 Configure the auto registration port on the NVR port page. Range: 1–65535. It is 7000 by default.

Figure 1-21 Configure port



Step 3 On the SETTING module, select CAMERA > Camera List, manually add the front-end device, select Register form the Manufacturer drop-down list, and then enter the camera auto registration ID.

Figure 1-22 Add devices



1.3.6 N+M Cluster

1.3.6.1 Cluster Functions

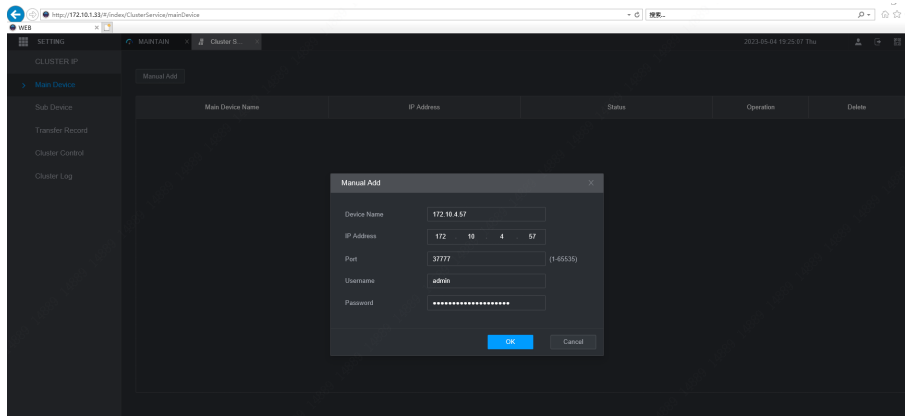
Cluster functions include active-standby switching and repairing, DCS working machine (management service) migration, configuration forwarding, and video transmission.

1.3.6.2 Adding Cluster Configuration

Procedure

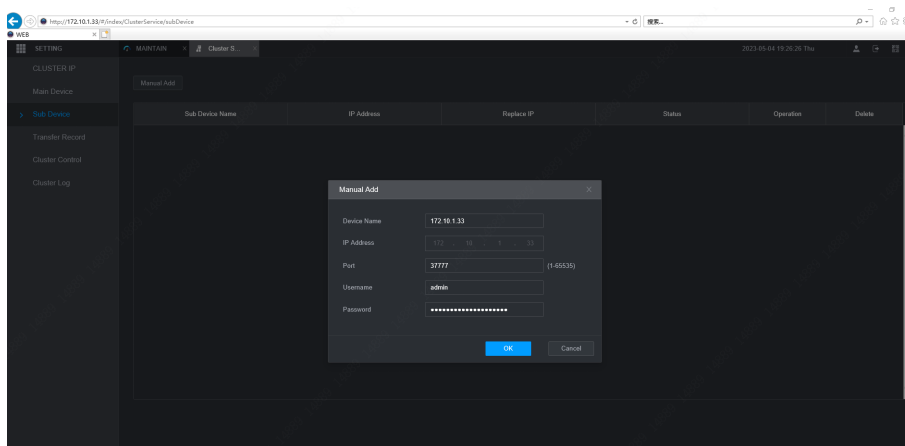
- Step 1** On the **SETTING** Module, select **Cluster Service > Main Device**, click **Manual Add**, enter the information such as the device name and IP address, and then click **OK**. If you want to add more than one device, repeat this step.

Figure 1-23 Main device



- Step 2** On the **Sub Device** page, click **Manual Add**, enter the information such as the device name and IP address, and then click **OK**. The device is defined as DCS operating device by default.

Figure 1-24 Sub device

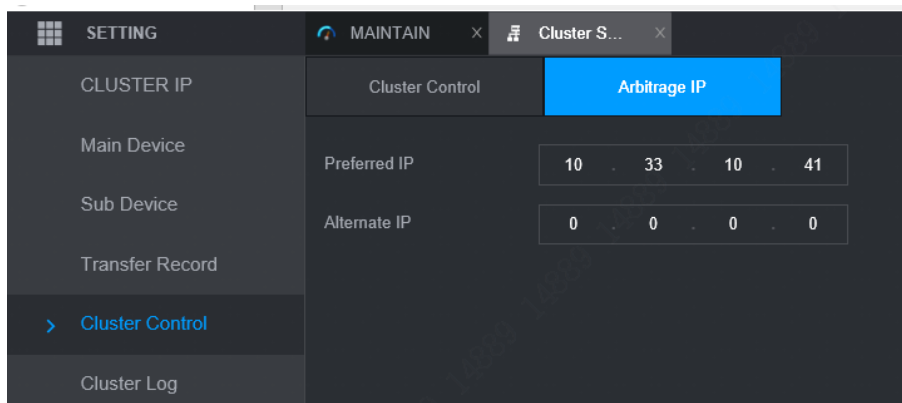


- Step 3** Configure Arbitrage IP: On the **Cluster Control** page, click **Arbitrage IP**, and then configure the third-party preferred IP and alternate IP (This IP can be the PC IP or device IP, as long as it is connected with the devices in the cluster).



It is only necessary to configure arbitrage IP only in 1+1 or N+1 mode, because there is communication between the main device and the DCS operating device. In 1+1 or N+1 mode, when the communication between the main device and the DCS operating device is abnormal, it is impossible to judge whether the main device is broken or the DCS operating device is broken. Therefore, an arbitrage IP is added as a judgment of the third party.

Figure 1-25 Arbitrage IP

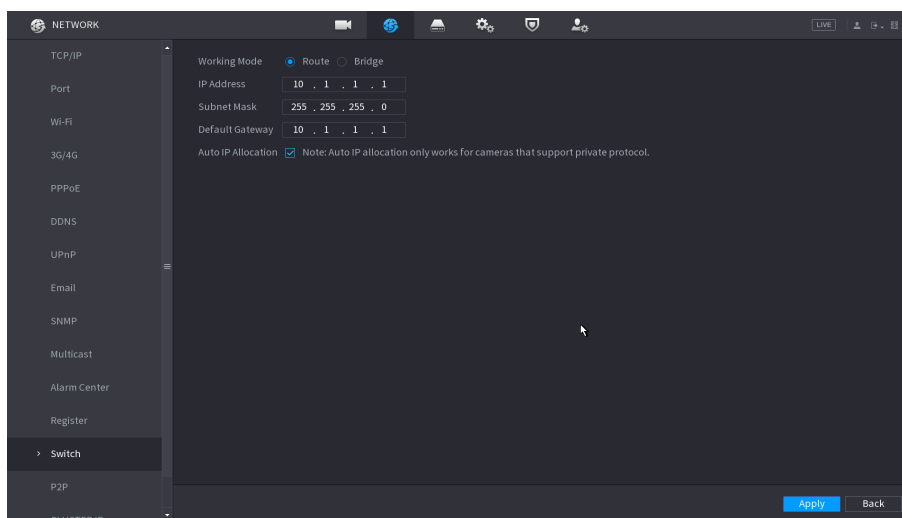


Step 4 You can enable cluster on the **Cluster Control** page.

1.3.7 Optimizing PoE Route and Bridge Modes

1.3.7.1 PoE Route Mode

Figure 1-26 PoE Route Mode



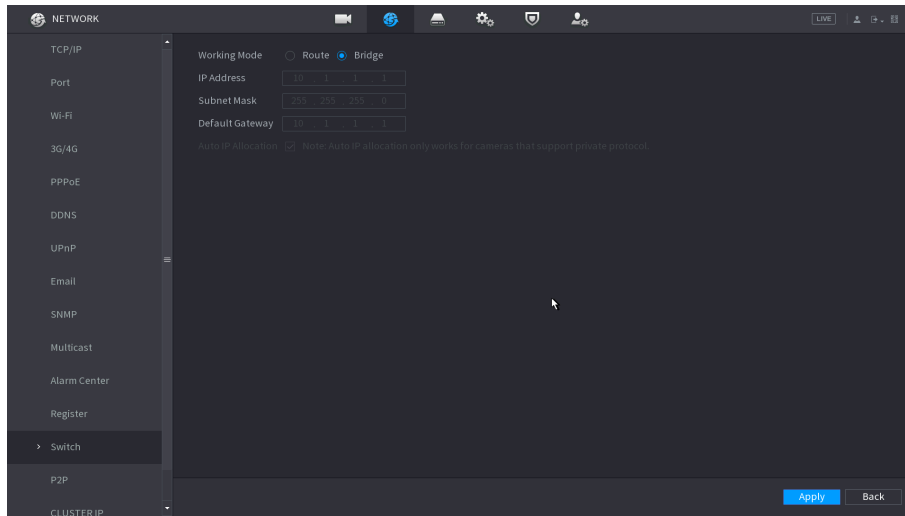
It is PoE route mode by default. In this mode, you can enable and disable **Auto IP Allocation**.

After **Auto IP Allocation** is enabled, the device automatically allocates the IP address of the front-end device accessed through private protocol. According to the SWITCH gateway, an IP address is assigned, starting from xxx:xxx:xxx: 64+ port number. If the IP address is occupied, the IP address number will increase progressively.

After **Auto IP Allocation** is disabled, you can edit the IP addresses of PoE devices in batches on the remote device page.

1.3.7.2 PoE Bridge Mode

Figure 1-27 PoE Bridge Mode



In PoE bridge mode, auto IP allocation of the original PoE port will be disabled, and PoE cannot perform plug-and-play services, so it will be used as a switch. You cannot configure auto IP allocation.

1.3.8 Copying and Pasting Contents

When the system is in Chinese or English, the content in the text input box (excluding password input box) can be copied and pasted.

Figure 1-28 Copy

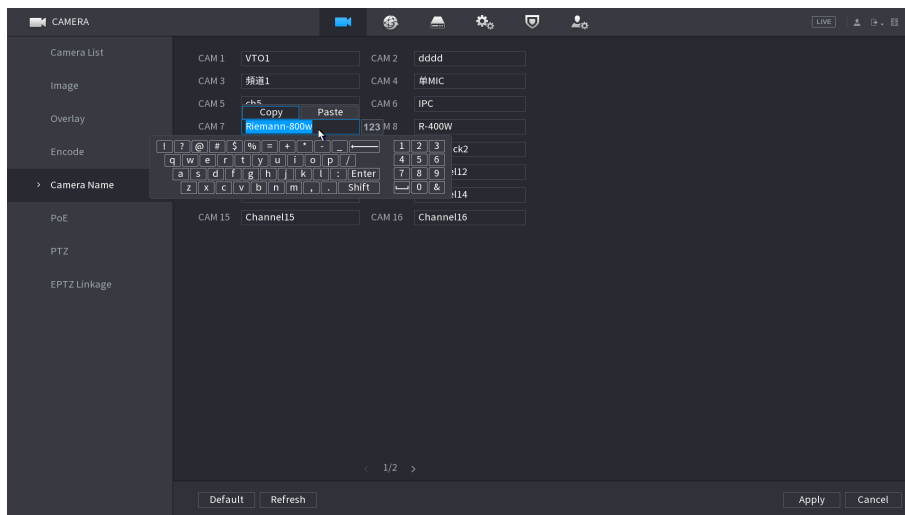
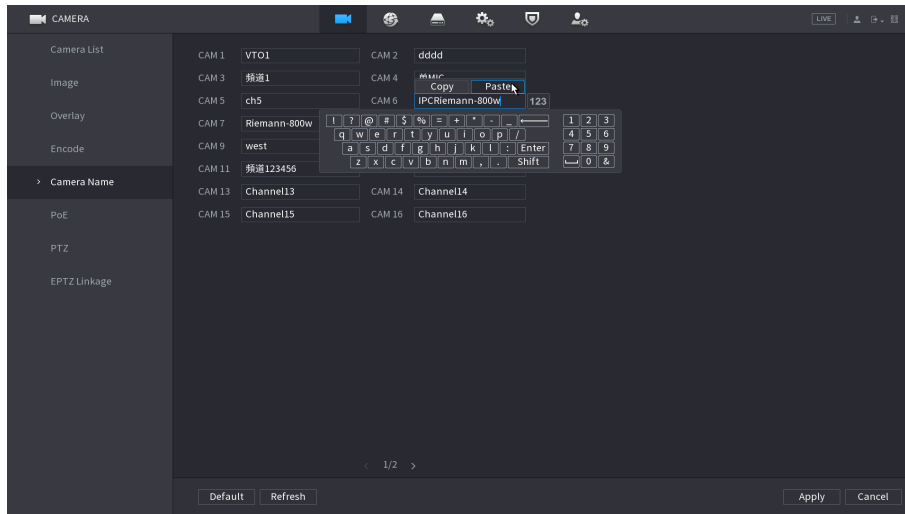


Figure 1-29 Paste



1.4 Fixed Bugs

None.

1.5 Compatibility

1.5.1 Program

After the earlier baseline V4.000.0000000.0.R.230131 is updated to this new baseline version or later, it cannot be degraded to the original version.

1.5.2 Browser

IE 11 and later, Safari 10 and later, Edge, Firefox V70 and later, and Chrome 41 and later.

1.5.3 Third-party Access

1. ONVIF testing tool version: V22.06
2. ONVIF: Supports Profile T; Profile S; Profile G

1.6 Software Environment

Category	Model	Version
IPC	DH-IPC-HFW1230SP-A-0280B-S5	DH_IPC-HX2(1)XXX-Euler_EngSpnRus_PN_V2.840.0000000.5.R.221222.zip
IPC	DH-IPC-HFW1230SP-0360B-S5	DH_IPC-HX2(1)XXX-Euler_EngSpnRus_PN_V2.800.0000000.18.R.220902.zip

Category	Model	Version
IPC	DH-IPC-HFW1431SN-0280B-S4	DH_IPC-HX1XXX-Molec_MultiLang_NP_V2.820.0000000.49.R.220815.zip
IPC	DH-IPC-HFW1430SP-A-0280B-S5	DH_IPC-HX14XX-Hertz2_EngSpnRus_PN_V2.800.0000000.12.R.221214.zip
IPC	DH-IPC-HDW1530TP-0280B-S6	DH_IPC-HX1XXX-Hertz_EngSpnRus_PN_V2.800.0000000.18.R.220902.zip
IPC	DH-IPC-HDW1830TP-0280B-S6	DH_IPC-HX18XX-Molec_EngSpnRus_PN_V2.800.0000000.18.R.220902.zip
IPC	DH-IPC-HDW2441TP-S-0280B	DH_IPC-HX2X4X-Taylor_MultiLang_PN_V2.840.0000000.8.R.221213.zip
IPC	DH-IPC-HDW2449TP-S-IL-0280B	DH_IPC-HX2X4X-Taylor_MultiLang_PN_V2.840.0000000.8.R.221213.zip
IPC	DH-IPC-HDW2531TP-AS-0280B-S2	DH_IPC-HX25(8)XX-Molec_MultiLang_PN_V2.820.0000000.49.R.220815.zip
IPC	DH-IPC-HDW2849TP-S-IL-0280B	DH_IPC-HX2XXX-Kant_MultiLang_PN_V2.860.0000000.4.R.230109.zip
IPC	DH-IPC-HDW2831TP-AS-0280B-S2	DH_IPC-HX25(8)XX-Molec_MultiLang_PN_V2.820.0000000.49.R.220815.zip
IPC	DH-IPC-HFW3241TP-ZS-27135-S2	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.120.0000000.9.R.221118.zip
IPC	DH-IPC-HDW3441TP-ZS-27135-S2	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.120.0000000.9.R.221118.zip
IPC	DH-IPC-HDW3449HP-AS-PV-0280B-S4	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.000.0000000.22.R.221119.zip
IPC	DH-IPC-HDW3549HP-	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.000.0000000.22.R.221119.zip

Category	Model	Version
	AS-PV-0280B-S4	
IPC	DH-IPC-HDW3849HP-AS-PV-0280B-S4	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.000.0000000.22.R.221119.zip
IPC	DH-IPC-HDBW3241FP-AS-0210B-S2	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.120.0000000.9.R.221118.zip
IPC	DH-IPC-HDBW3441FP-AS-0210B-S2	DH_IPC-HX3XXX-Taurus_MultiLang_PN_Stream3_V3.120.0000000.9.R.221118.zip
IPC	DH-IPC-HDW5241TMP-ASE-0280B-S3 (AcuPick)	DH_IPC-HX5XXX-single-Riemann_MultiLang_PN_Stream4_V3.100.0000000.5.R.230509.zip
IPC	DH-IPC-HDW5442TMP-ASE-0280B-S3 (AcuPick)	DH_IPC-HX5XXX-single-Riemann_MultiLang_PN_Stream4_V3.100.0000000.5.R.230509.zip
IPC	DH-IPC-HFW5541TP-ASE-0280B-S3 (AcuPick)	DH_IPC-HX5XXX-single-Riemann_MultiLang_PN_Stream4_V3.100.0000000.5.R.230509.zip
IPC	DH-IPC-HFW5842EP-ZE-2712-S3 (AcuPick)	DH_IPC-HX5XXX-single-Riemann_MultiLang_PN_Stream4_V3.100.0000000.5.R.230509.zip
IPC	DH-IPC-HFW7442HP-Z-0832-DC12AC24V-X	DH_IPC-HX7XXX-HW-Faraday_MultiLang_PN_V3.100.0000000.12.R.230111.zip
IPC	DH-IPC-HFW7842HP-Z-2712F-DC12AC24V-X	DH_IPC-HX7XXX-HW-Faraday_MultiLang_PN_V3.100.0000000.12.R.230111.zip
IPC	DH-IPC-HFW71242HP-Z-2712-	DH_IPC-HX7XXX-HW-Faraday_MultiLang_PN_V3.100.0000000.12.R.230111.zip

Category	Model	Version
	DC12AC24V-X	
IPC	DH-IPC-MFW7849YP-Z-2080-T44-0832	DH_IPC-MFW8XXX-Faraday_MultiLang_NP_Stream3_V3.100.0000000.5.R.221102.zip
IPC	DH-IPC-HDW8441XP-3D-0200B	DH_IPC-HX7(8)XXX-EMMC-Taurus_MultiLang_PN_Stream3_V3.000.0000000.14.R.220718.zip
IPC	DH-IPC-EB5541	DH_IPC-EX5XXX-Leo_MultiLang_NP_Stream3_V2.800.0000000.40.R.220815.zip
IPC	DH-IPC-EBW81242P-AS-S2	DH_IPC-HX8(7)XXX-FE-Darwin_MultiLang_PN_V3.000.0000000.1.R.210705.zip
IPC	DH-IPC-PFW81642P-A180-DC12AC24V	DH_IPC-PFW8XXX-Four-Faraday_MultiLang_PN_Stream3_V3.100.0000000.4.R.220813.zip
IPC	DH-PSDW82442M-A270-D440-S3	DH_IPC-PSDW8XXX-Plato-Darwin_MultiLang_PN_Stream3_V3.000.0000000.7.R.221217.zip
IPC	DH-IPC-PDBW82041P-B360-E4-2812-ATC-S2	DH_IPC-PDBW820XX-Faraday_MultiLang_PN_Stream3_V3.100.0000000.6.R.220908.zip
IPC	DH-IPC-MFW7442K1P-Z-0832-T40-0360B	DH_IPC-HX5XXX-EMMC2-Volt_MultiLang_PN_Stream3_V2.840.0000000.18.R.220629.zip
IPC	DH-IPC-HFW7442HN-Z-2712F-DC12AC24V	DH_IPC-HX8XXX-Nobel_MultiLang_NP_V3.000.0000000.2.R.210712.zip
IPC	DH-IPC-HFW7442HP-Z-2712F-DC12AC24V-S2	DH_IPC-HX7XXX-Darwin_MultiLang_PN_V3.000.0000000.4.R.220720.zip

Category	Model	Version
IPC	DH-IPC-HFW5241EP-ZE-27135	DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.840.0000000.18.R.220629.zip
IPC	DH-IPC-PFW5849P-A180-E2-ASTE-0360B	DH_IPC-HX5(4)XXX-Taurus_MultiLang_PN_Stream3_V3.120.0000000.2.R.221021.zip
ITC	DHI-ITC415-PW6M-IZ	General_ITC(X15)(X37)-PW6M-XXX-C2_Eng_PN_Oversea_V2.626.0000000.4.R.220718.zip ShengChanTEST_ITC(X15)(X37)-PW6M-XXX-C2_Eng_PN_Oversea_AUTOTEST_V2.625.0000000.0.R.211118.zip
ITC	DHI-ITC431-RW1F-IRL8	General_ITC431-RW1F-IRL8(L)-C2_Eng_PN_Oversea_V4.003.0000000.0.R.220907.zip ShengChanTEST_ITC431-RW1F-IRL8(L)-C2_Eng_N_Oversea_V4.001.0000000.0.R.210907.zip
ITC	DHI-ITC952-AU3F-IRL8ZF1640	General_ITCX52-AF3F(RF2F)-(IR7)(IR8)-C1_Eng_PN_Oversea_V4.003.0000000.0.R.220526.zip ShengChanTEST_ITCX52-AF3F(RF2F)-(IR7)(IR8)-C1_Eng_PN_Oversea_V4.001.0000000.9.R.211126.zip
TPC	DHI-TPC-PT8441D-BM100Z56L-BM-DC48-S23	General_TPC-NYX5400-BMXB_V1.000.0000000.0.R.220121.zip General_TPC-PTZ83-HNL-V_MCU_V2.401.0000000.2.R.220727.zip General_TPC-PT8XX1D-F-CODE_MCU_V2.401.0000000.1.R.220726.zip General_TPC-SD-Gram_PART_V2.830.0000000.0.R.220909.zip DH_TPC-PT8XX1D-B-S2_MultiLang_PN_V2.650.0000000.3.R.221013.zip
TPC	DHI-TPC-SD2241-TB7F8-DW-S2	General_TPC-NYX2200-MS-CTPGW_V1.000.0000000.4.R.20220812.zip DH_TPC-SD2X41-B-S2_MultiLang_PN_V2.650.0000000.6.R.220908.zip General_TPC-SD49XXX-HN_MCU_V2.401.0000000.1.R.191031.zip
TPC	DHI-TPC-BF1241-TB7F8-DW-S2	DH_TPC-DF1241-TB-S2_MultiLang_PN_V2.650.0000000.8.R.221117.zip General_TPC-NYX2200-MS-CTPGW_V1.000.0000000.4.R.20220922.zip
SD	DH-SD5A225GB-HNR	General_SD5AXXXG-HN_MCU_V2.401.0000001.42.R.220811.zip DH_SD-Taurus_MultiLang_PN_Stream3-Normal_V2.820.0000013.1.R.220923.zip

Category	Model	Version
SD	SD3A200-GNP-W-PV	General_SD-Leo_MultiLang_PN_Stream3_V2.811.0000009.0.R.220629.zip
VTO	DHI-VTO2202F-P-S2	DH_VTOXXXXD-G-S2_MultiLang_PN_PAAS_SIP_EMEA_V4.600.0000000.0.R.220813.zip
VTO	DHI-VTO6221E-P	DH_VTOX221E_MultiLang_PN_PAAS_SIP_EMEA_V4.600.0000000.0.R.220805.zip General_VTO3-6-MCU_V1.000.0000000.1.R.20181107.zip
Platform	DSS PRO	General_DSS-Client_Win64_IS_V8.002.0000000.0.R.20221210
Platform	SmartPSS Lite	2.7.05.01.01657-General_SmartPSSLite_Eng_Win64-Install_IS_V1.003.0000002.0.R.221230
APP	DMSS	1.99.202
COS PRO	COS PRO	1.016.0000002
playsdk	playsdk	General_PlaySDK_Eng_Win64_IS_V3.045.100E000.0.R.230218.zip
Tool	ConfigTool	General_ConfigTool_ChnEng_V5.001.0000001.0.R.20220728
Tool	NetSDK	General_NetSDK_Eng_Linux64_IS_V3.055.0000001.0.R.211101.tar.gz
Tool	Smart Player (including DiskManager)	General_NetSDK_Eng_Win64_IS_V3.055.0000001.0.R.211101.7z
Tool	NKB1000	General_NKB1000_Eng_V2.620.0000000.0.R.20180115.zip

1.7 Pending Issues

None.

1.8 Update Guide

1. You can update the device through configtool, web and USB flash disk. For details, see the update guide.
2. During update, the device will stop some services, such as recording and live view. After update, restart the device to resume normal operation.
3. Do not disconnect the power supply during update. Otherwise, the device might not be able to start normally.

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