HCP Feature Analysis Function

Operation Guide

London RD/Carl

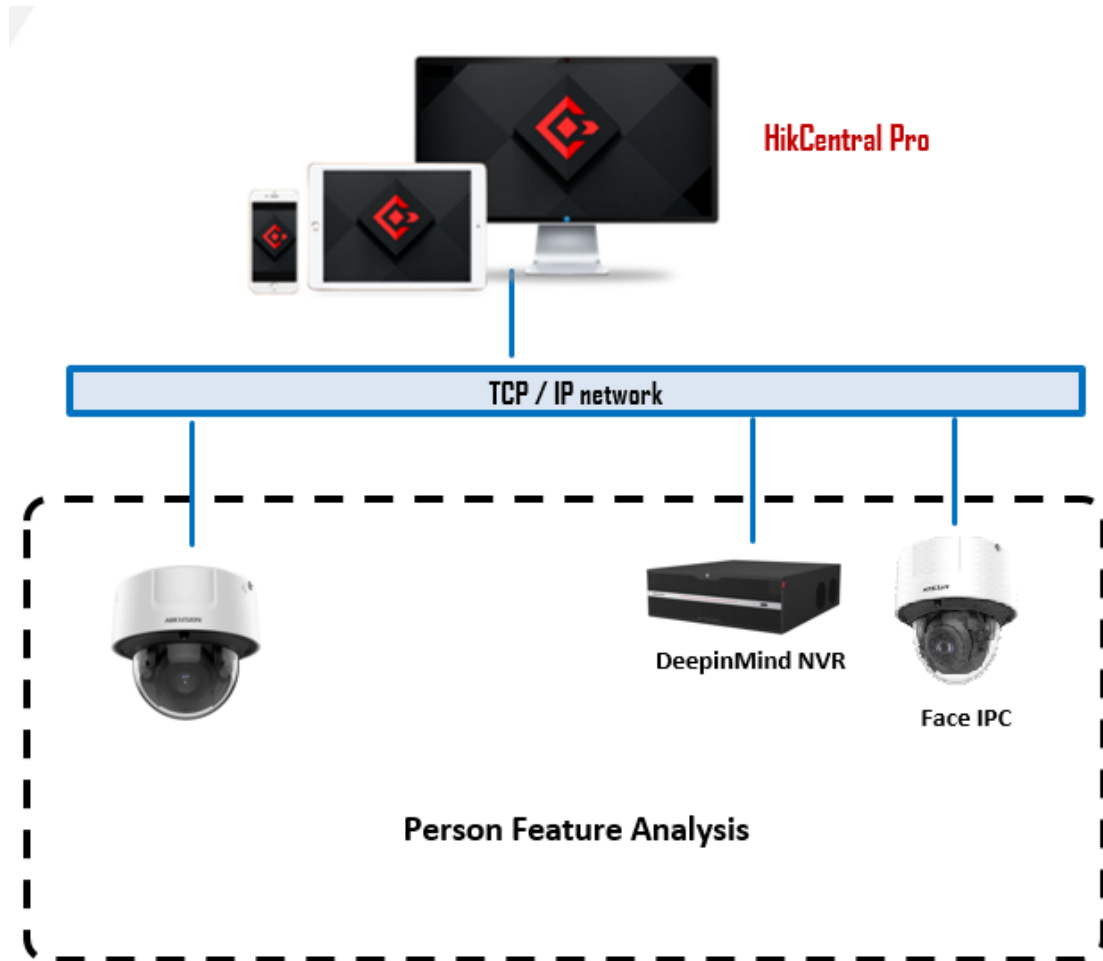**July 2023**

Contents

1 Person Feature Analysis Report

1.1 Scheme Topology

1) The camera is directly connected to the HCP and does not have NVR/DVR.

2) Utilizing the power of the DeepinMind NVR and the camera's facial recognition function

1.2 DeepinMind Series Camera Direct Add To HCP Configuration Wizard

[Note]: The software version used in this article is the baseline version of HCP 2.4.1. The device model and firmware are as follows, and please refer to the

configuration for other models.

1.2.1 Configuration on the device

1) Switch algorithm to facial comparison algorithm
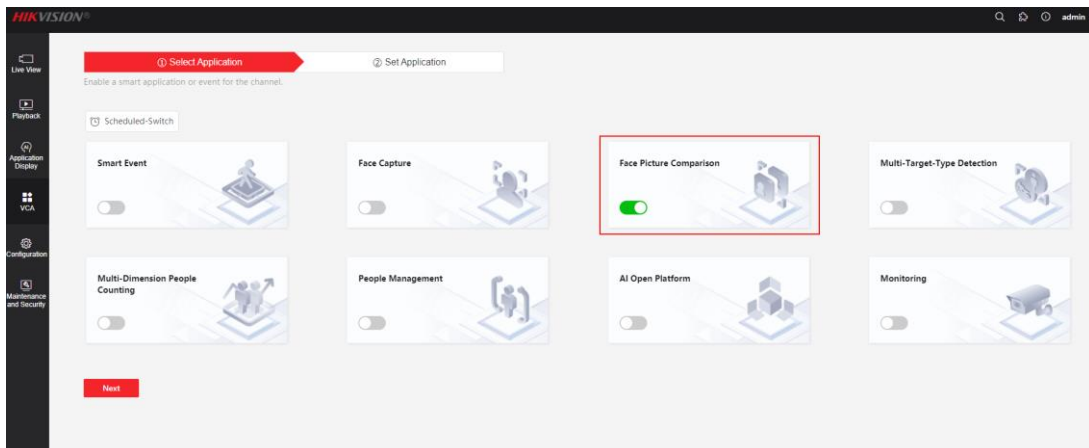
2) Customize and adjust facial capture parameters and check to upload events to the surveillance center.
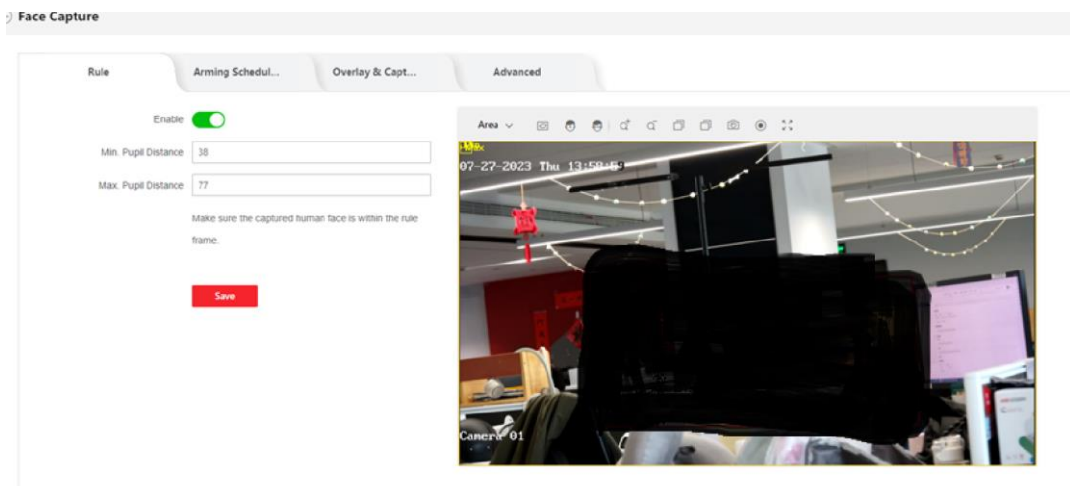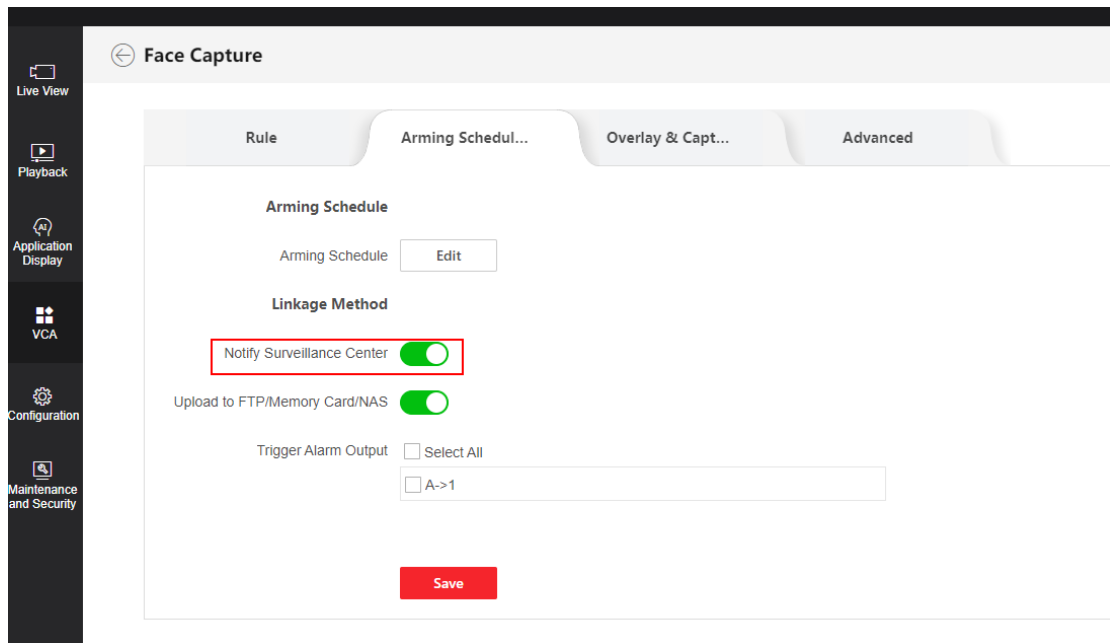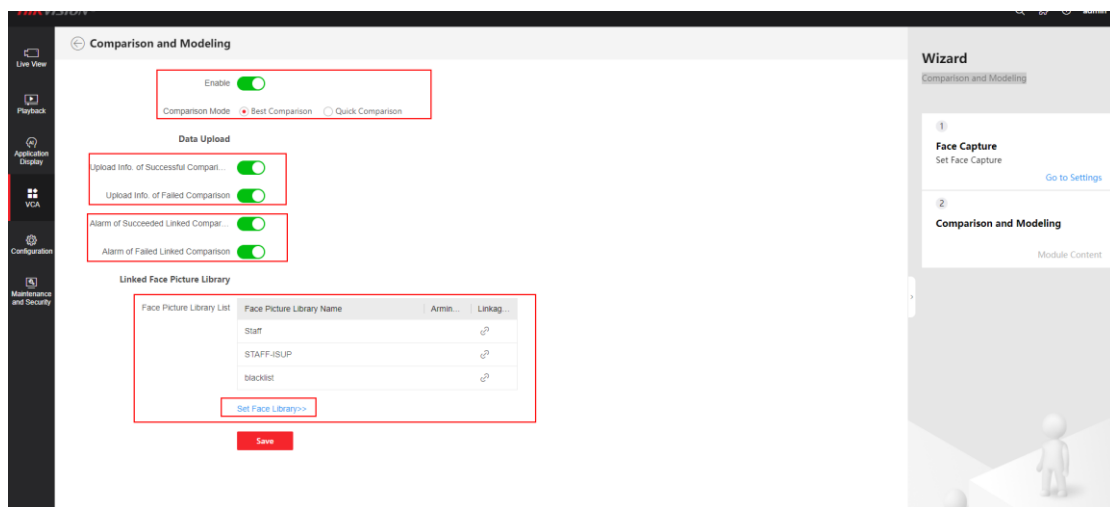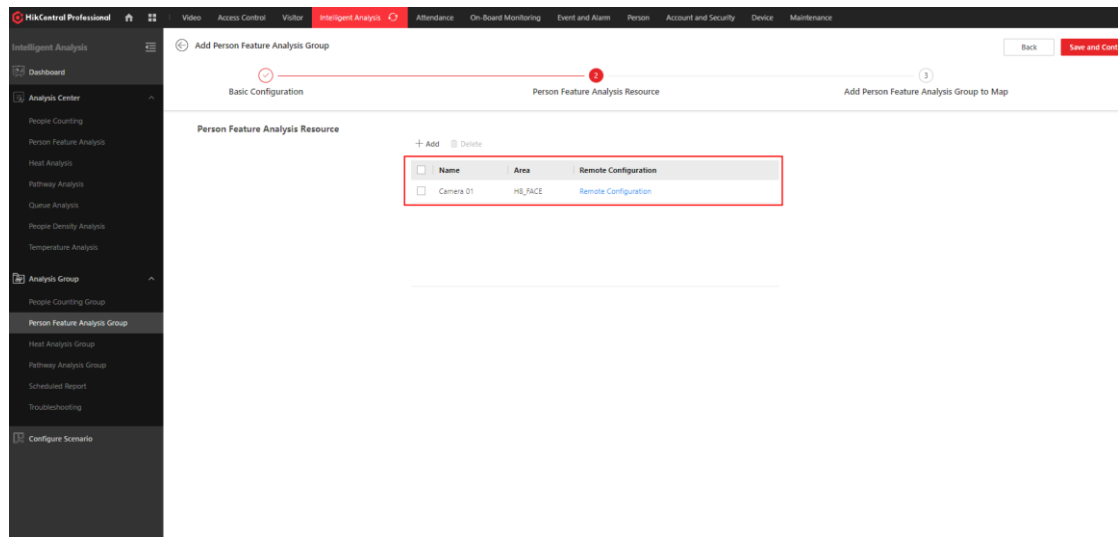
3) Enter the comparison and modeling module, follow the wizard to configure and create a new face library as follows.

1.2.2 Configuration on HCP

➢ **Configuration in Public Scenarios**

1) After adding a camera to the platform, enter the intelligent analysis module and create a new person feature analysis group
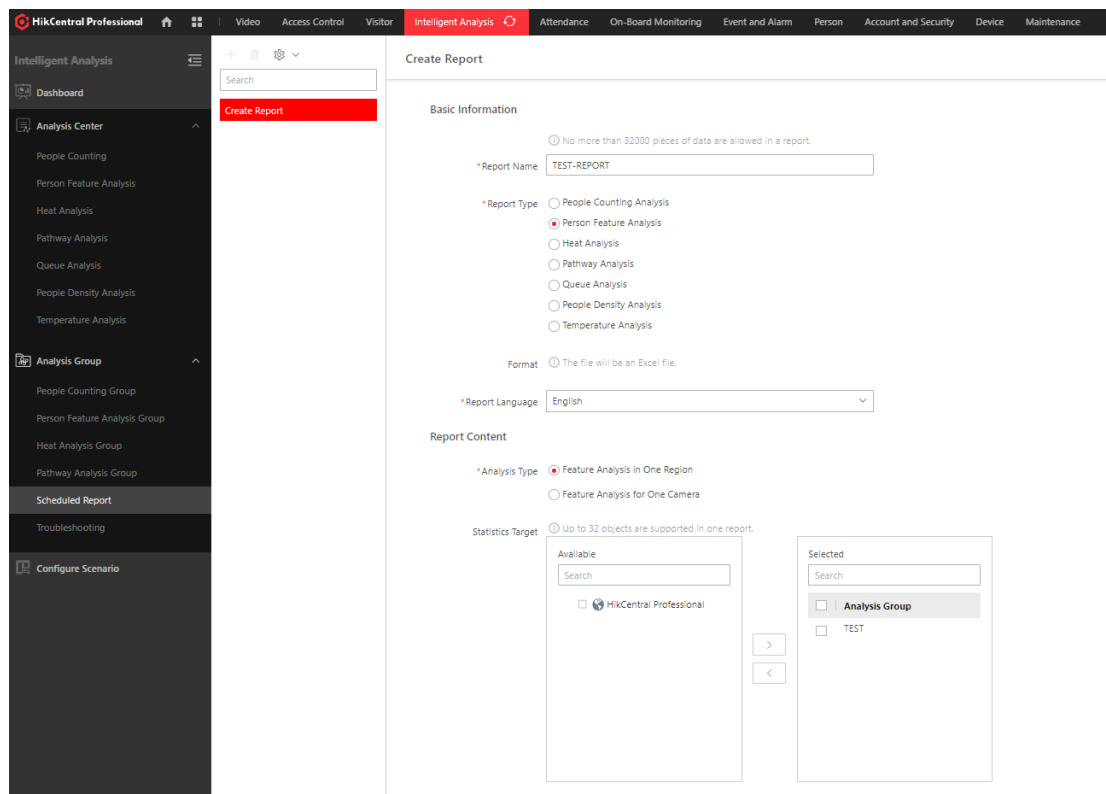
[Note]: When using facial comparison algorithms for attribute analysis, there is no need to add a camera to the facial license.

2) Report results display (control client in the same location)
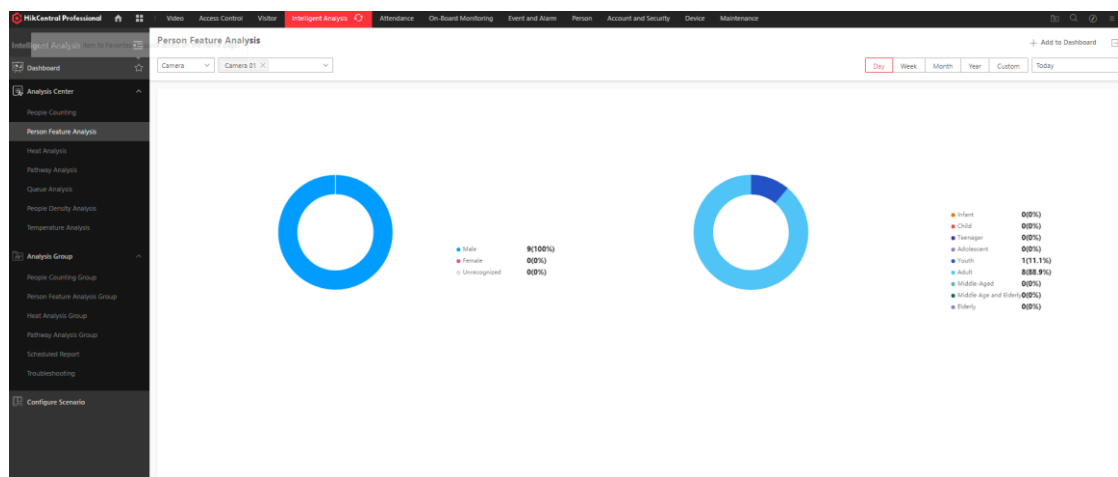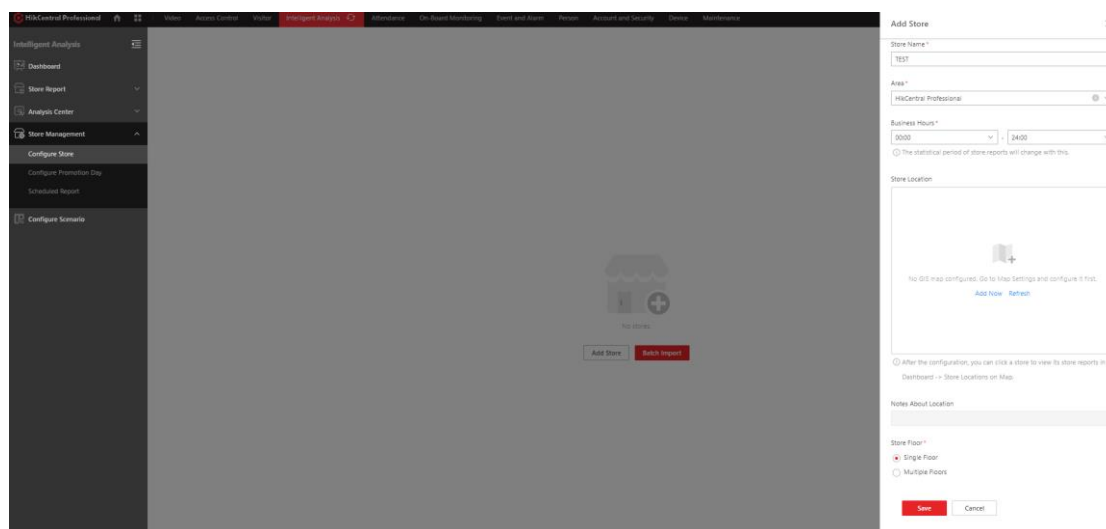

3) Scheduled sending of reports, entering Intelligent Analysis - Analysis Group - Scheduled Report.

➢ **Configuration in the Retail scenario**

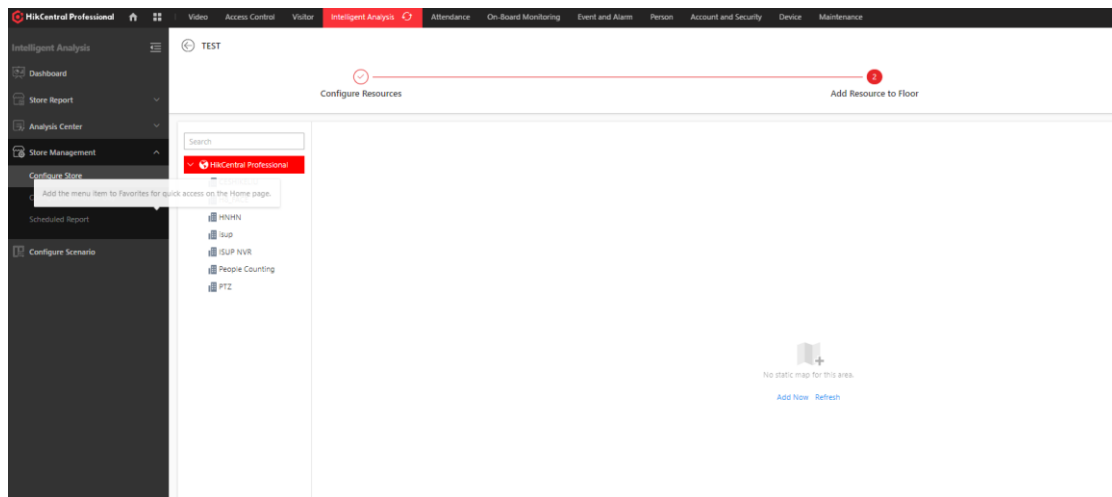1) Enter Intelligent Analysis – Store Management – Configure Store and click on 'Add store'

2) Click to add a camera resource, and the platform will automatically recognize the Person Feature Analysis capability of the current camera.
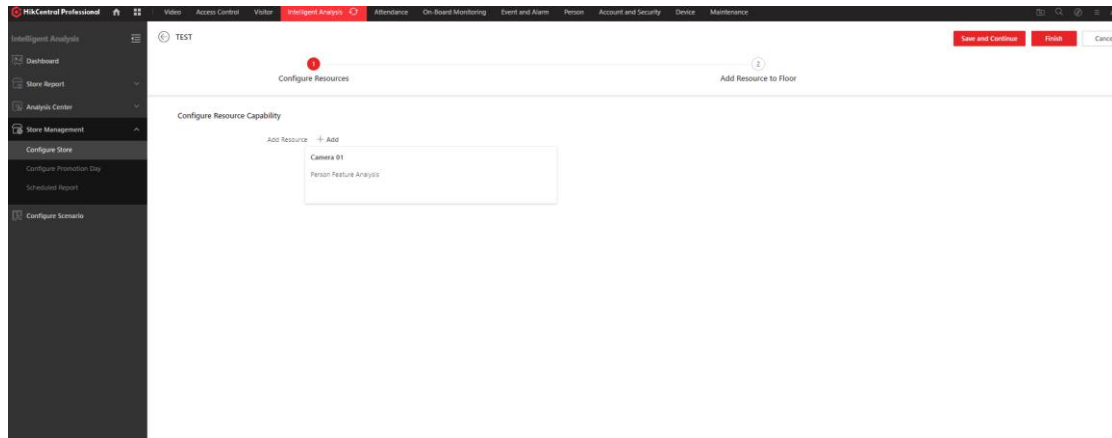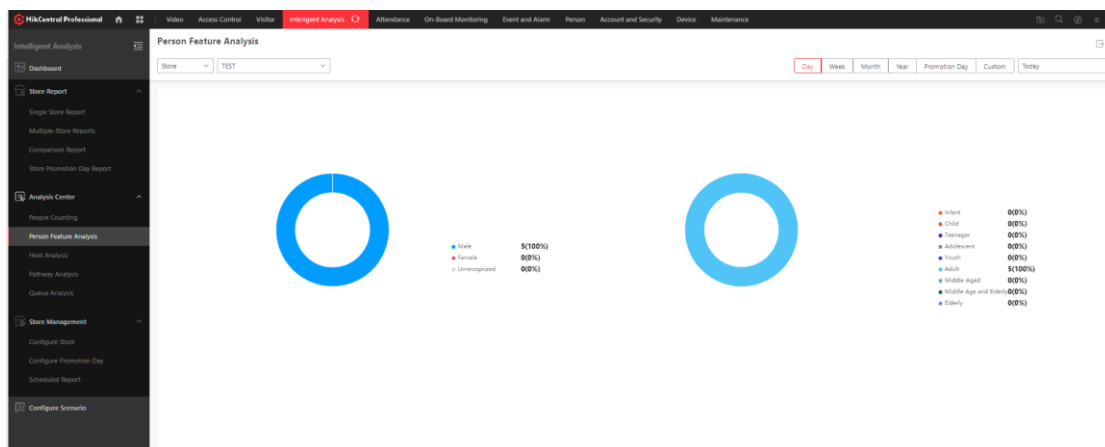
3) You can choose to add resource points to the, but this is only for testing, so it will be skipped temporarily

4) You can view it in the store's report or in the Analysis Center
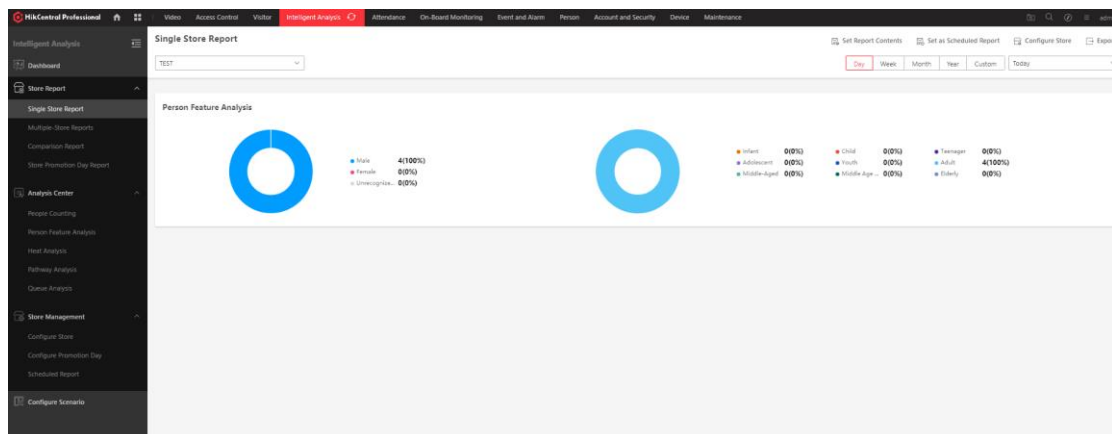
[Note]: The personnel structure of the testing environment is relatively single, and the report here only shows the functions.

5) The configuration of scheduled reports is similar to the public scenario, except for switching to the store dimension.

1.3 Face recognition camera+ DeepinMind NVR + HCP con figuration wizard

[Note]: The software version used in this article is the baseline version of HCP 2.4.1. The device model and firmware are as follows, and please refer to the

configuration for other models.

| Basic Information | Time Configuration | RS-232 | RS-485 | Menu Output | About |

Device Name: DeepinMind

*Device No.: 255

Device Model: iDS-9632NXI-I16 / X

Device Serial No.: iDS-9632NXI-I16 / X1620211019CCRRG912443...

Firmware Version: V4.62.210 build 230612

Encoding Version: V5.0 build 230530

Hardware Version: 0100054C06200000

FR Version: V6.2.0

Perimeter Protection Algorithm Ve...: V2.1.0

HMS Version: V4.8.1

Version of Face Capture Algorithm...: V6.2.0

Object Thrown from Building Dete...: V1.1.0

Web Version: V4.5.0 build 20230524

Plug-In Version: V3.0.8.32

| Basic Information | Time Settings | RS-232 | RS-485 | System Service | Location |

Device Name: IP CAMERA

*Device No.: 88

Device Model: iDS-2CD7A46G0-IZHSY

Serial No.: iDS-2CD7A46G0-IZHSY20220325AAWRJ71283575

Firmware Version: V5.8.30 build 230704 Upgrade

Encoding Version: V7.3 build 230612

Web Version: V5.1.0_R0101 build 230519

Number of Channels: 1

Number of HDDs: 0

Number of Alarm Inputs: 2

Number of Alarm Outputs: 2

Firmware Version Property: B-R-H8-0

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1.3.1 Configuration on device

1) The algorithm for selecting the camera here is the facial capture algorithm, which means that the camera only captures the face, and the analysis is depends on DeepinMind NVR. After customizing and adjusting the facial capture rules, be sure to check the option of uploading to the monitoring center
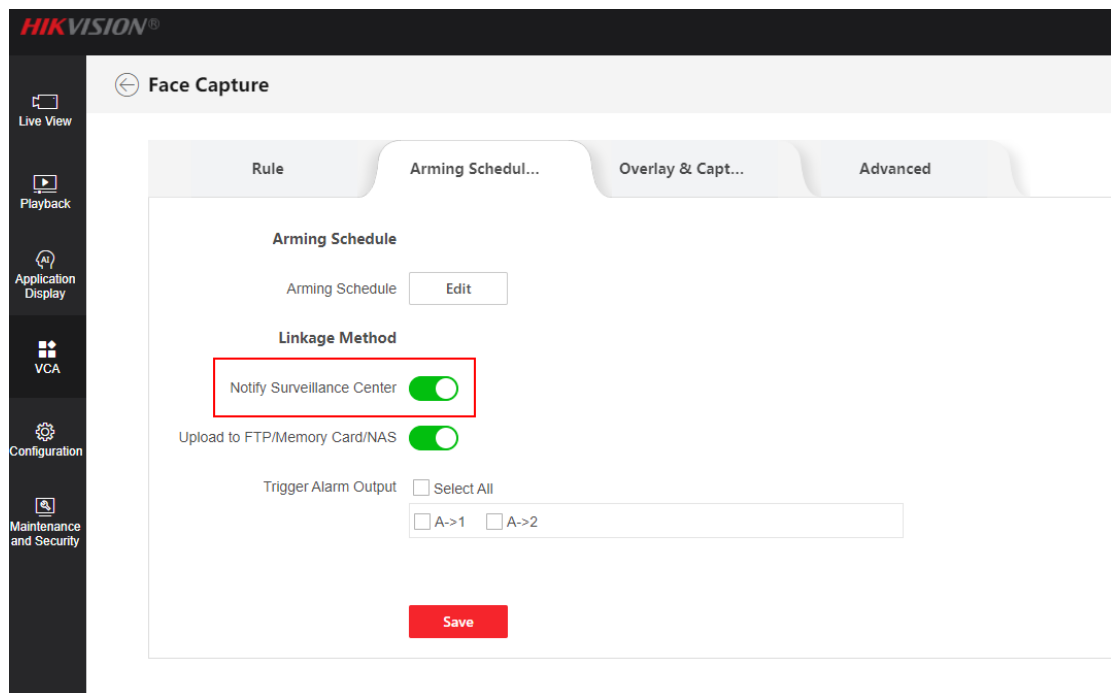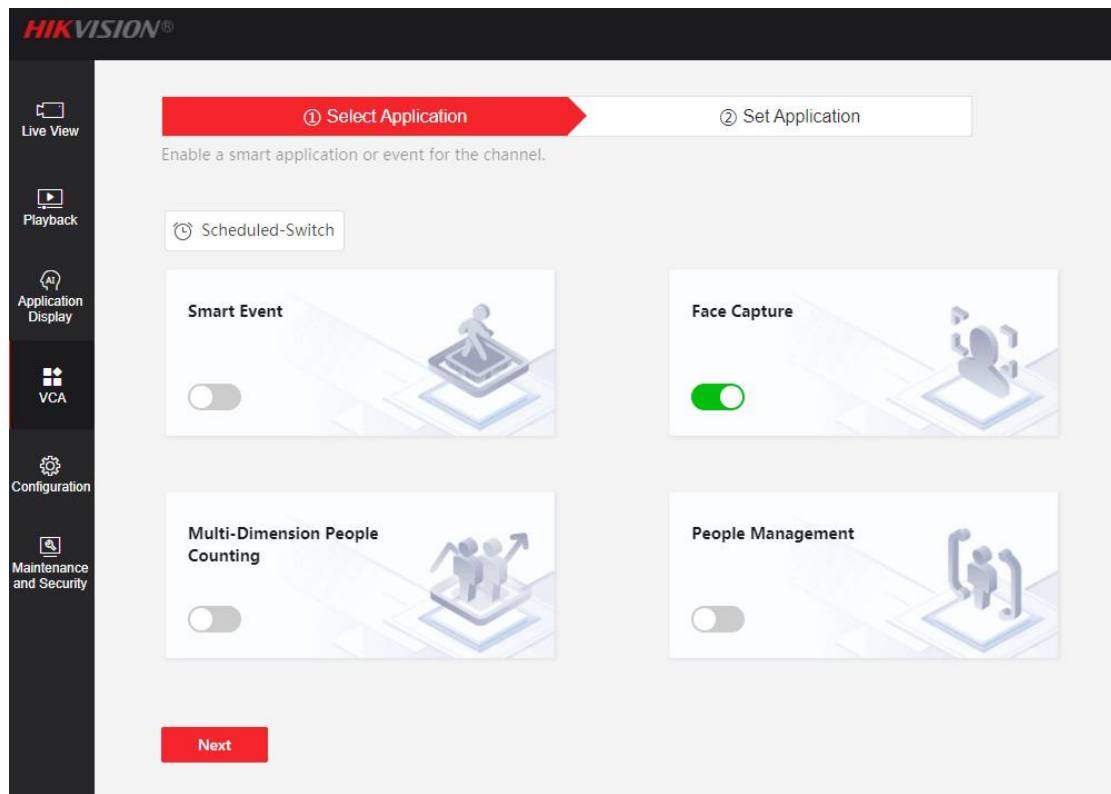
2) After adding a camera to the DeepinMind NVR, then create a new face library
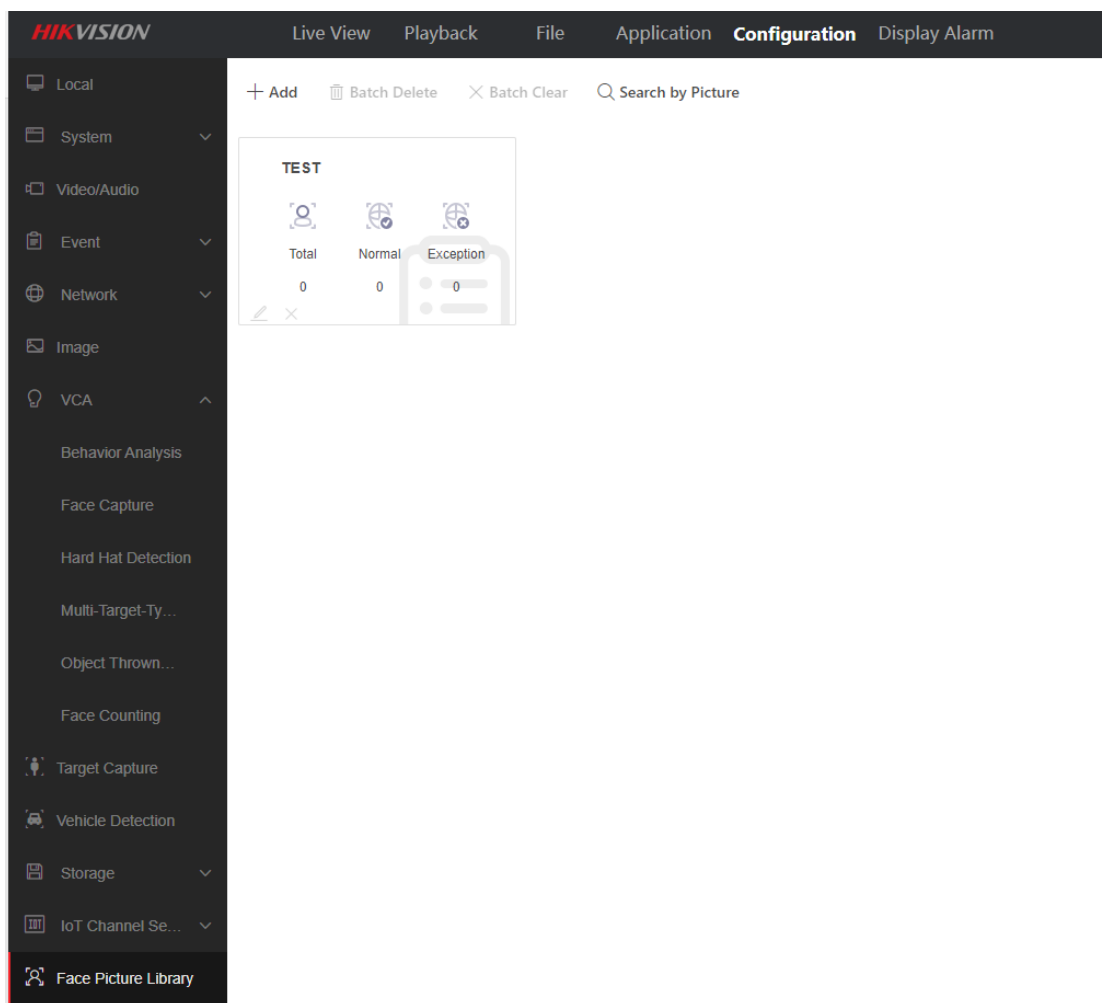

4) Turn on the face comparison event, disable the ability to not analyze face comparison results in real-time, turn on the face comparison function, and stranger function (optional). After setting the defense plan, check the upload center option (select both success and failure, and configure according to the actual situation)
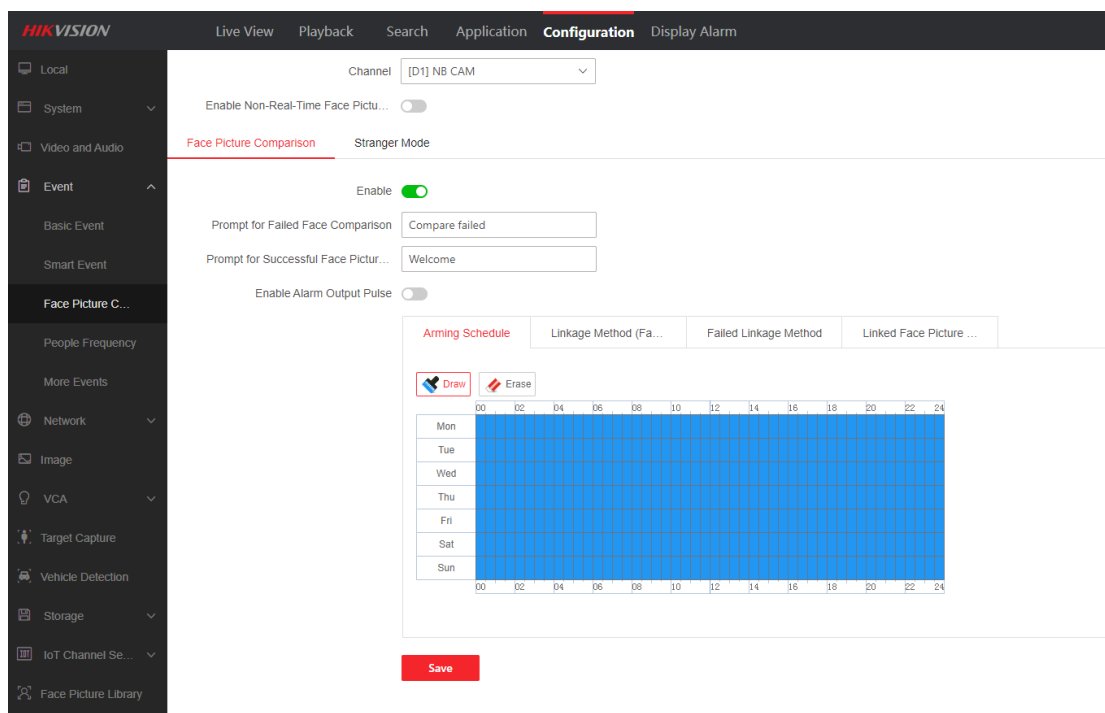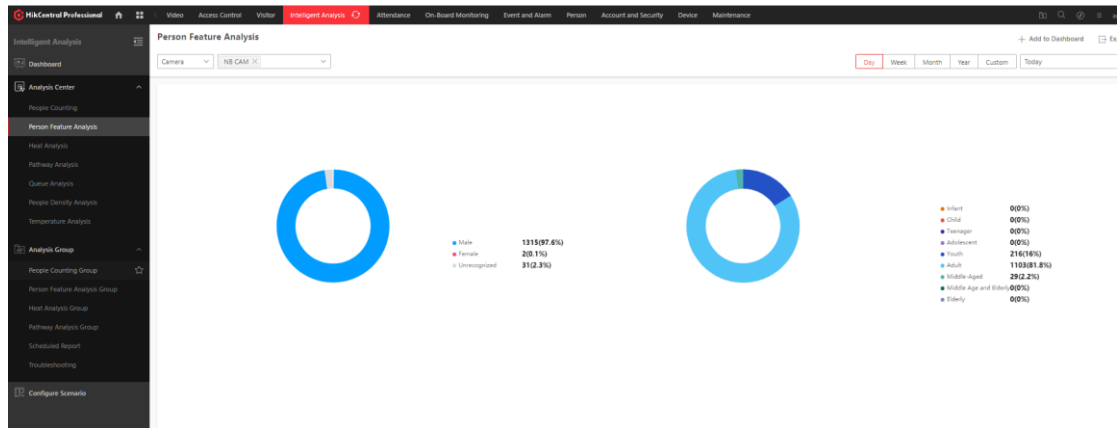
1.3.2 Configuration on HCP

➤ **Public scenario**

1) Open the Analysis Group in sequence and create a new Person Feature Analysis Group.
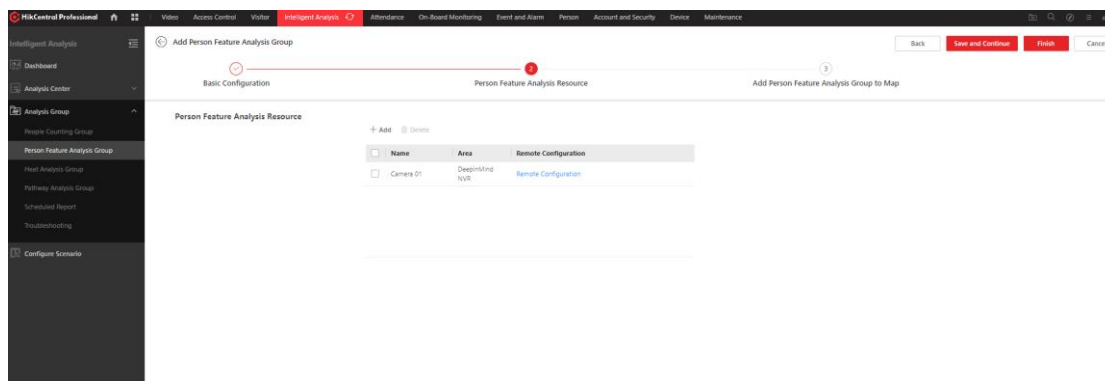
2) Then open the analysis center to view the character attribute analysis report

[Note]: For the purpose of rapid testing, the structure of facial capture is relatively simple and is only for reference
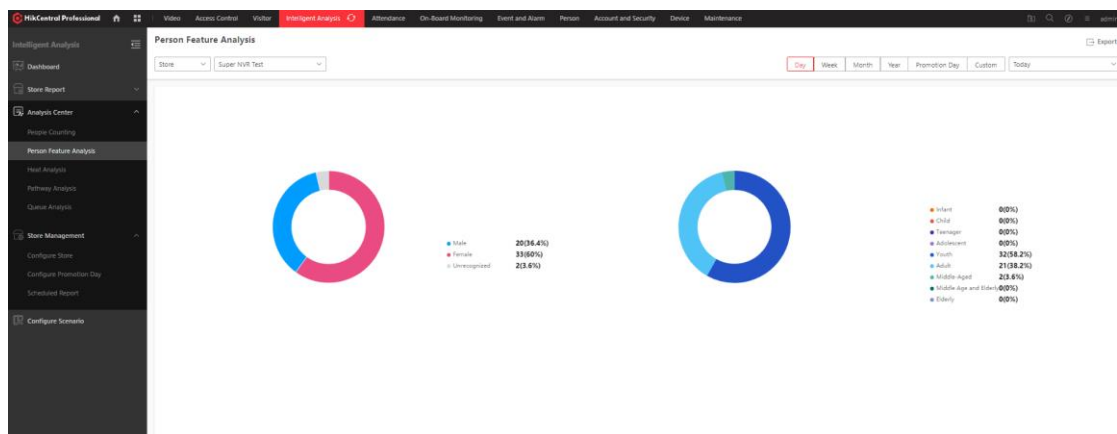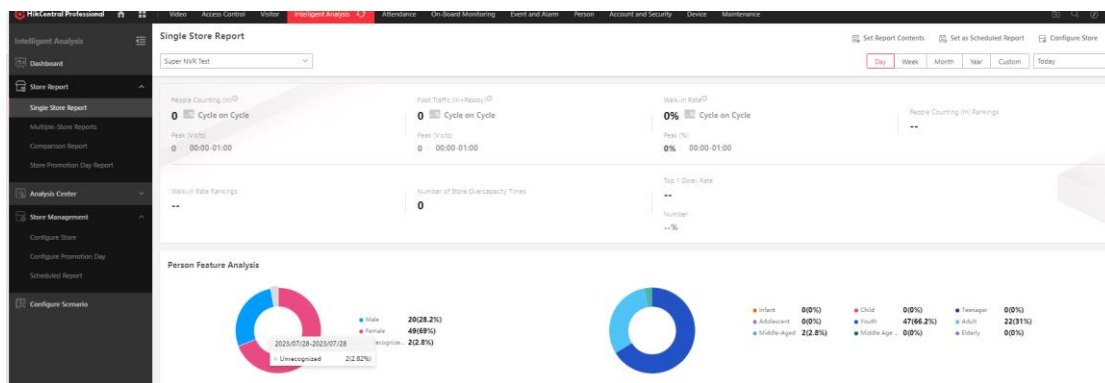
➢ **Retail scenario**

1) Click on store management and configure the store. At this time, the platform will automatically recognize the ability and select the function items that need to be enabled.
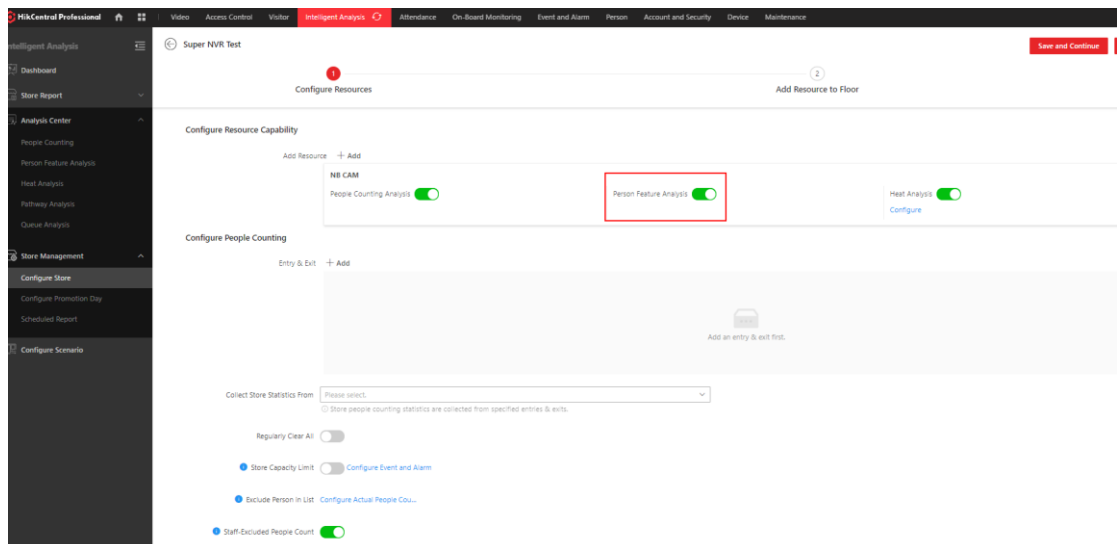
2) Analyze person feature analysis reports in the analysis center or analyze stores.

2 Implementation of Client Feature Function

2.1 Facial Capture Camera +DeepinMind NVR Accessing HCP to Realize Client Facial Image Feature Retrieval Function
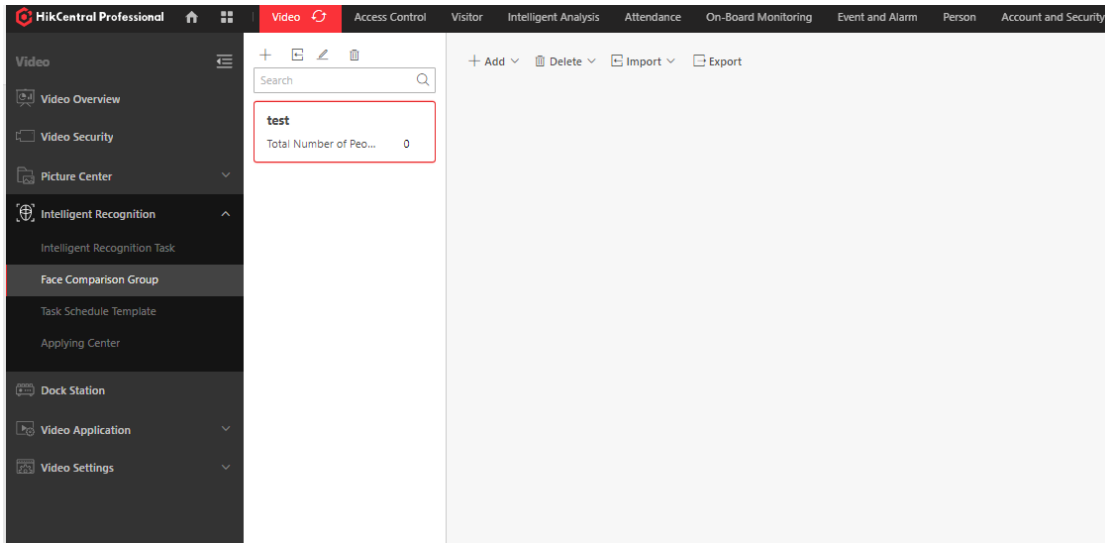
[Note]: The software version used in this article is the baseline version of HCP 2.4.1. The device model and firmware are as follows, and please refer to the configuration for other models. And the device configuration refers to section 1.3 above.
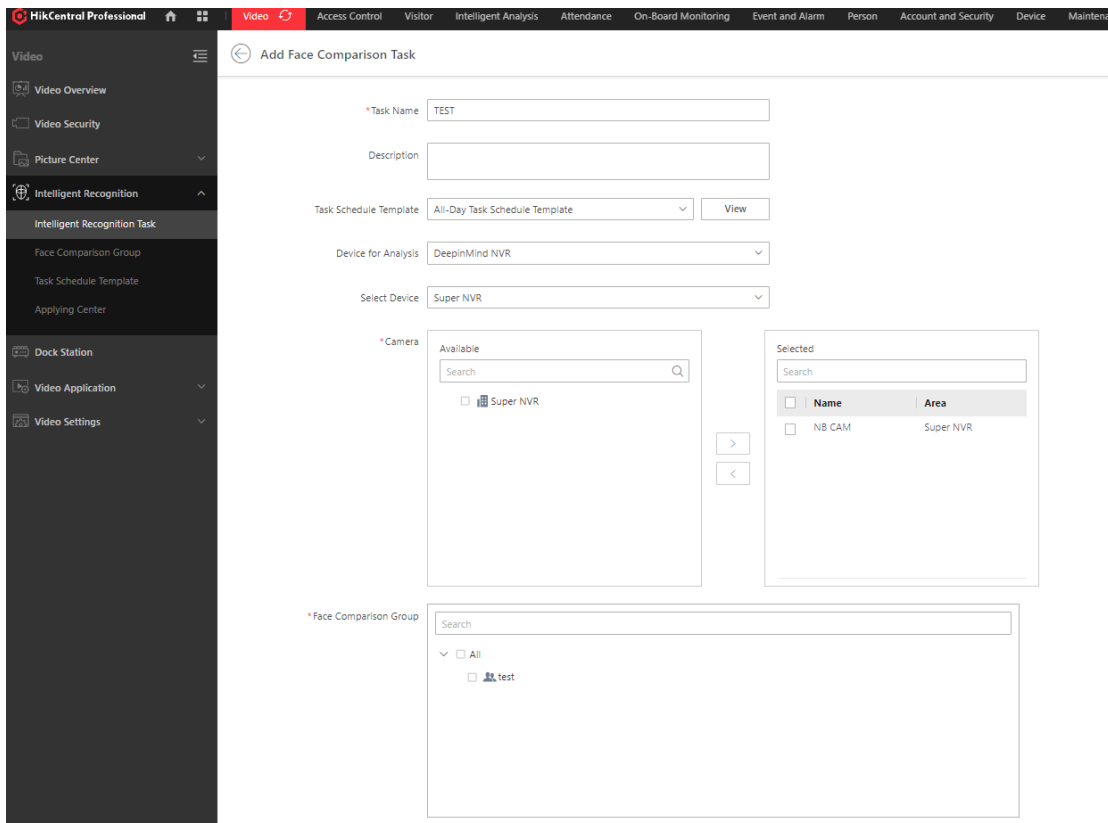
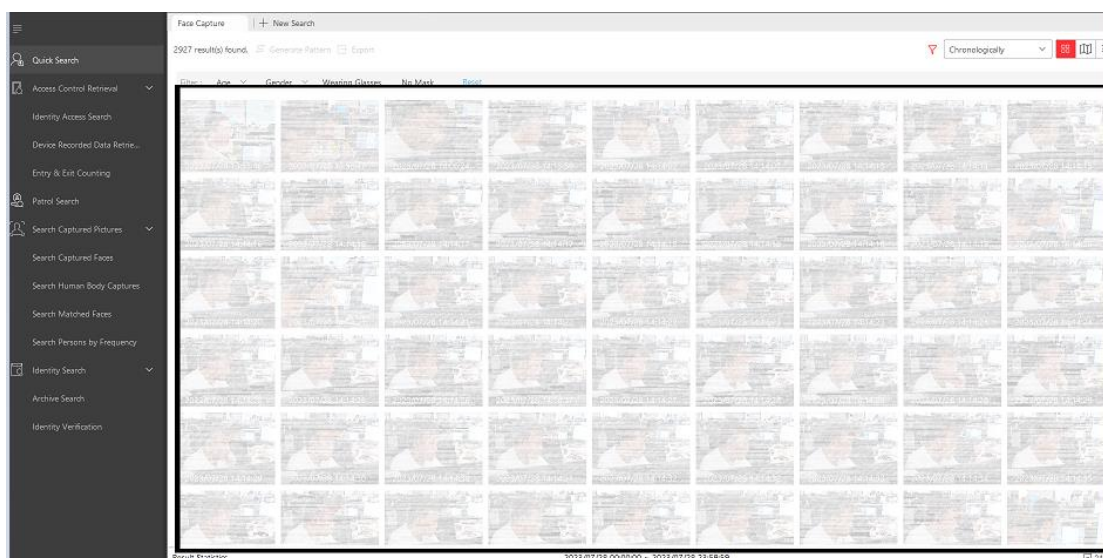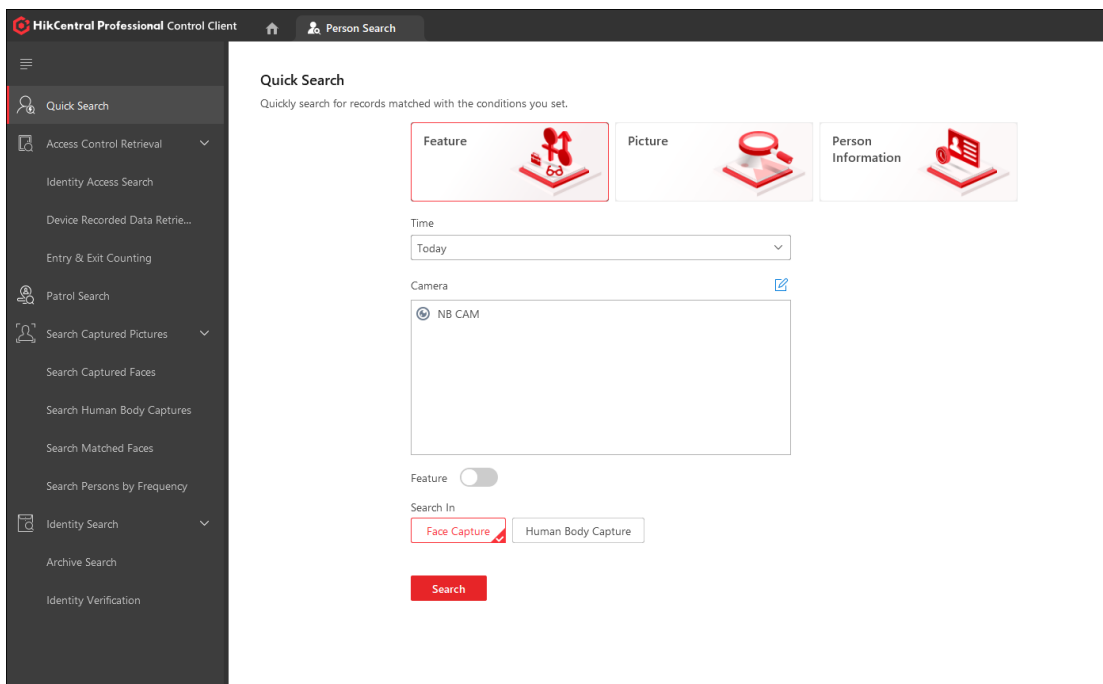➢ **HCP configuration**

1) Add the camera to the facial license.
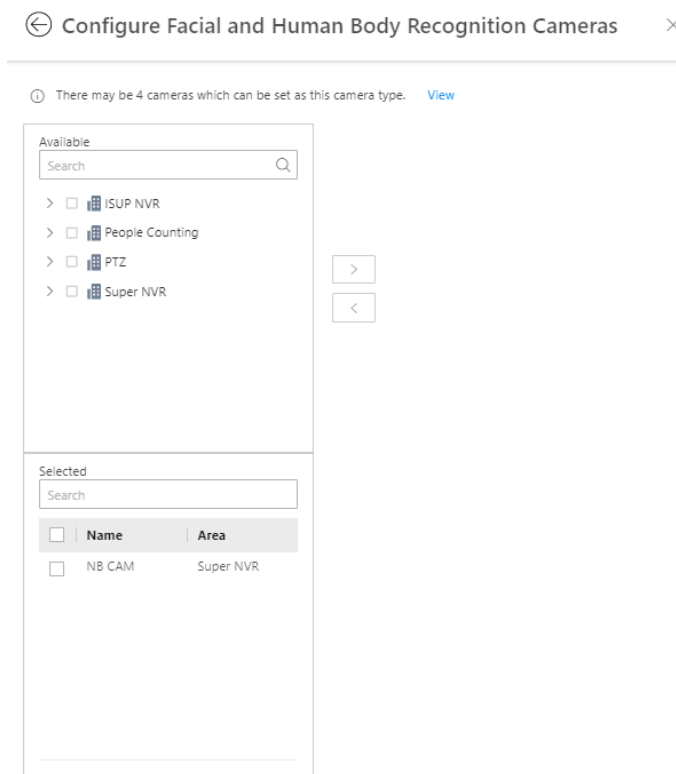
2) Enter the HCP Video - Intelligent Recognition interface and click on Create a New Face Comparison Group.

3) Create a new face comparison task in the Intelligent Recognition task under the same menu, where the analysis device is selected as the supercomputer and the newly created face comparison group is selected.

4) Open the control client, enter the person search interface, select feature, and search. The test results are for reference only.

[Note]: This configuration only supports Face Capture search!

2.2 Implementation of Multi-Target-Type Detetion for H8 Camera

[Note]: The software version used in this article is the baseline version of HCP 2.4.1. The device model and firmware are as follows, and please refer to the configuration for other models.

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| Basic Information | Time Settings | RS-232 | RS-485 | System Service | Location |

Device Name IP CAMERA

*Device No. 88

Device Model iDS-2CD7A46G0-IZHSY

Serial No. iDS-2CD7A46G0-IZHSY20220325AAWRJ71283575

Firmware Version V5.8.30 build 230704 Upgrade

Encoding Version V7.3 build 230612

Web Version V5.1.0_R0101 build 230519

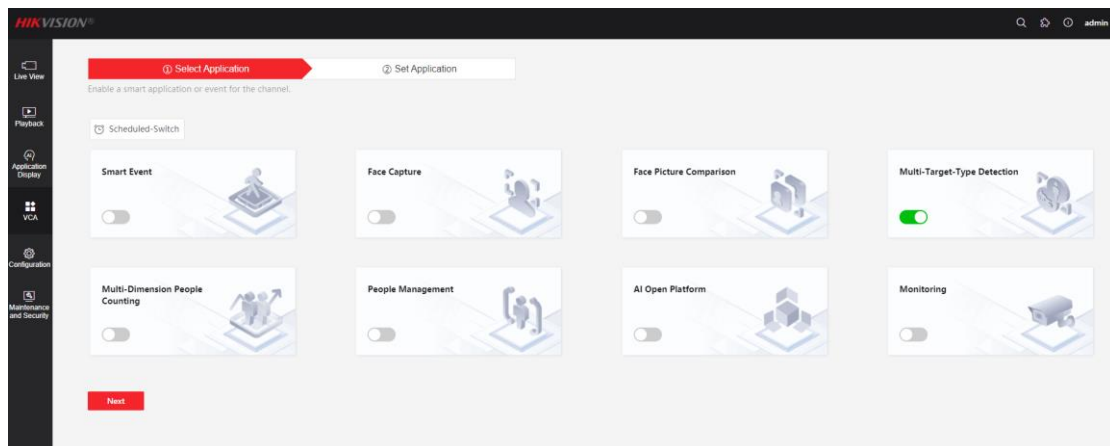Number of Channels 1

Number of HDDs 0

Number of Alarm Inputs 2

Number of Alarm Outputs 2
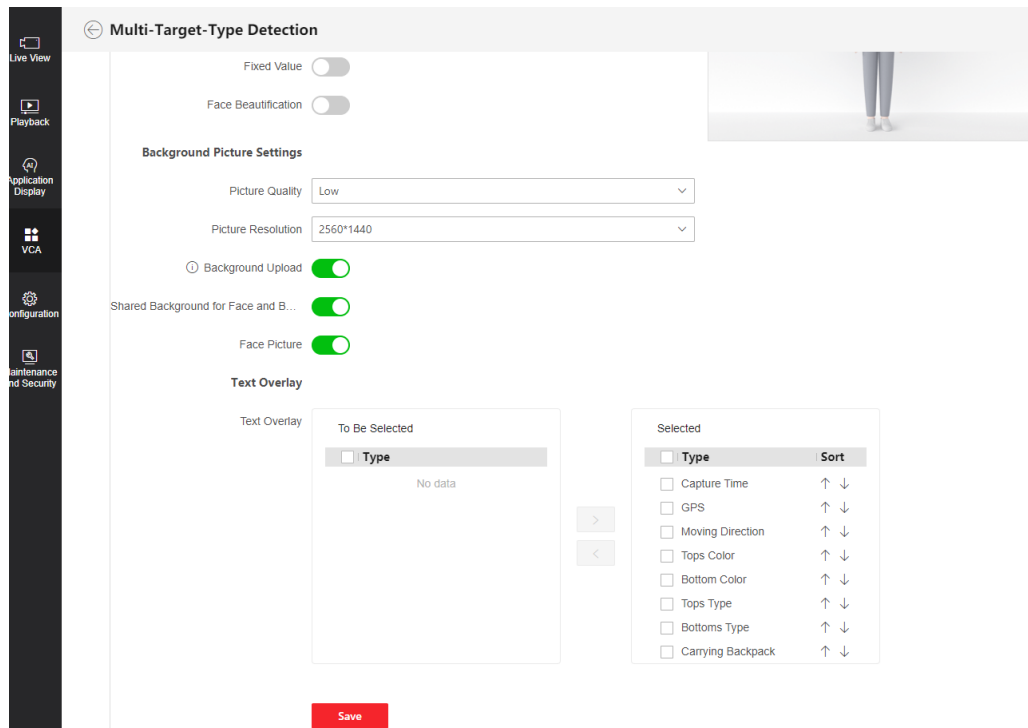
Firmware Version Property B-R-H8-0

Save

2.2.1 Configuration on device

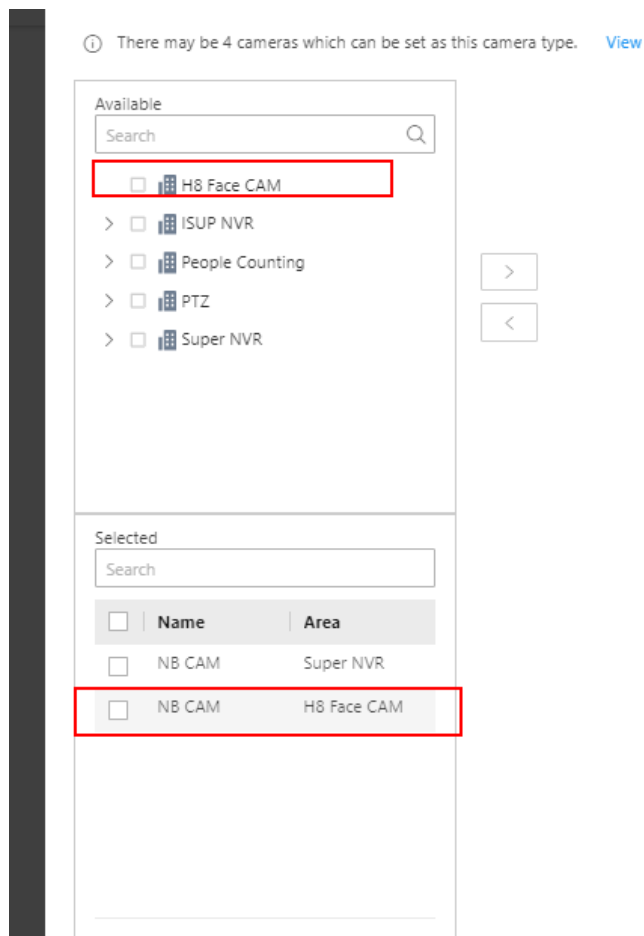1) Switch the algorithm on the camera to a multi target detection algorithm

2)Configure capture detection parameters based on actual situation
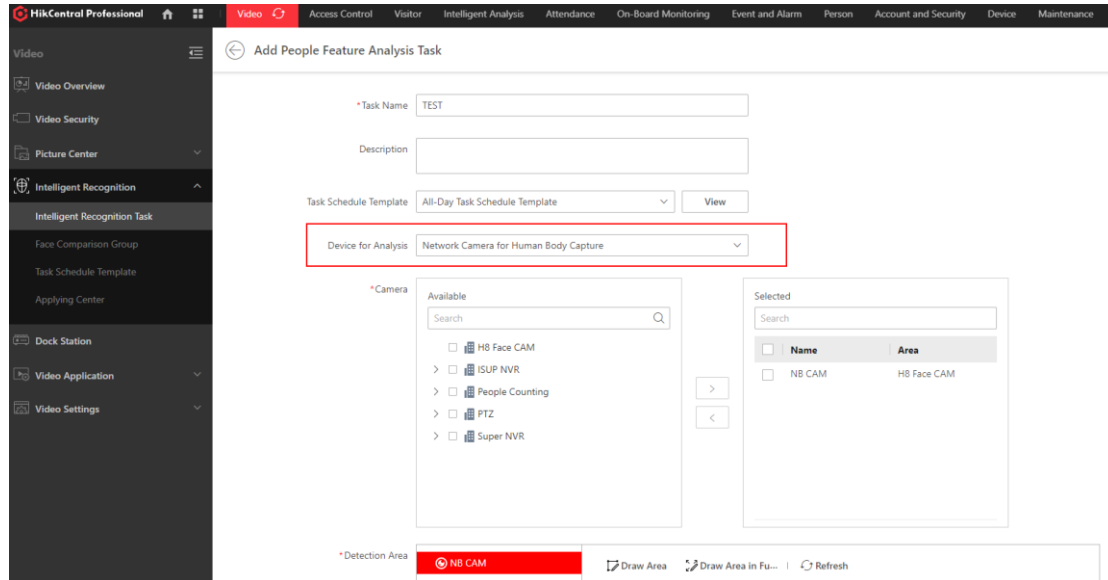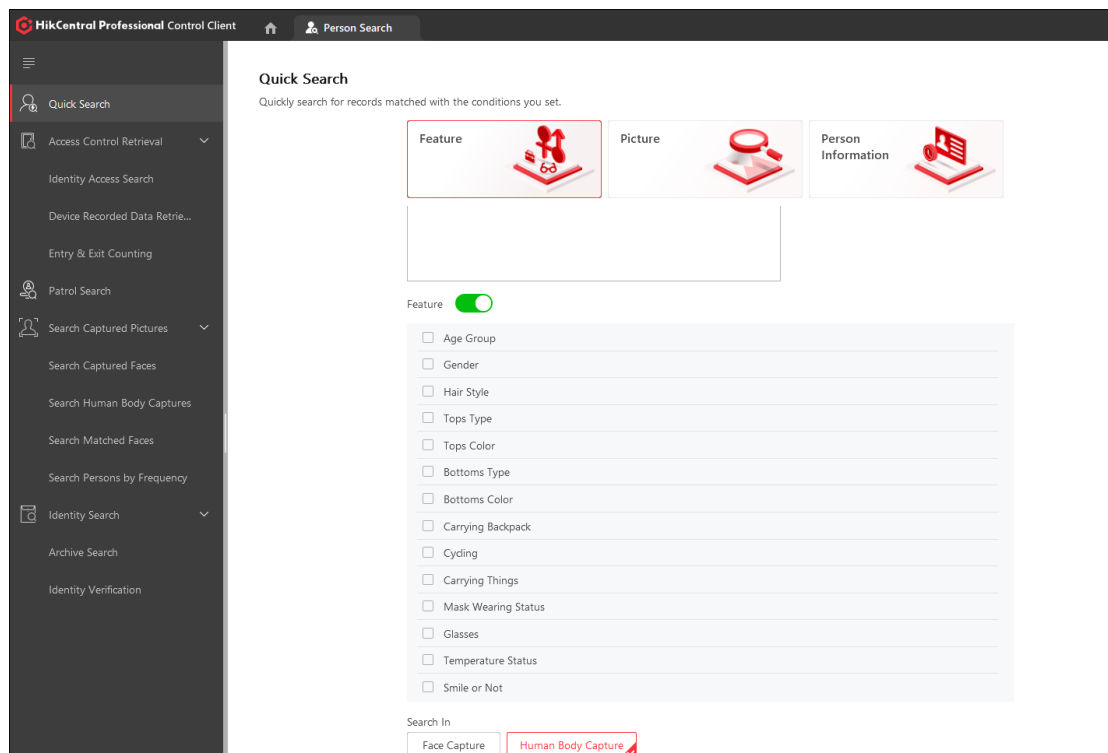
2.2.2 Configuration on HCP
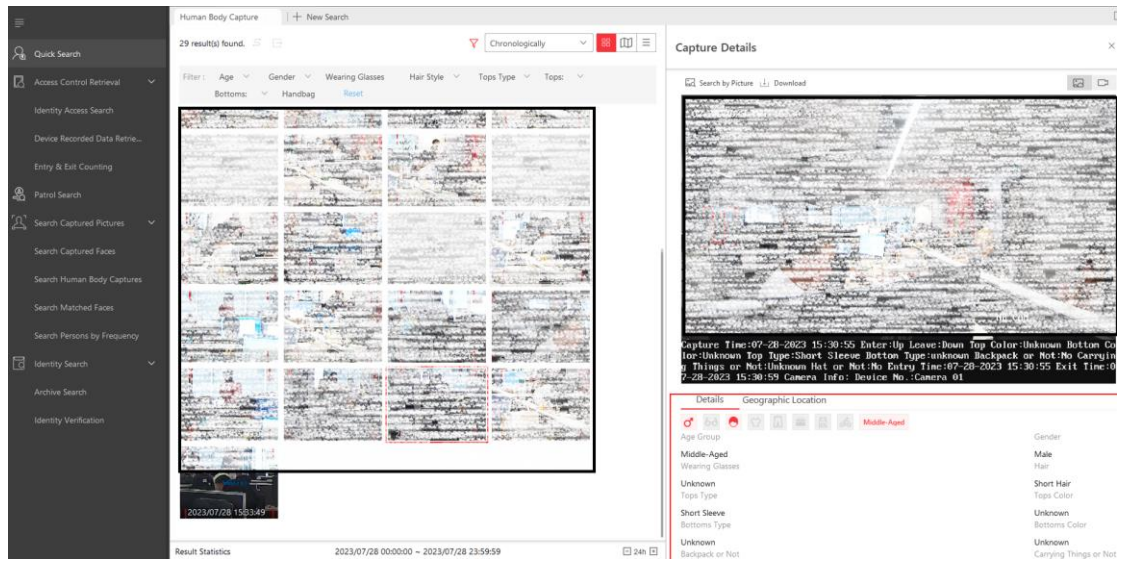
1) Add camera to facial license

2) Enter the Intelligent Recognition interface, create a new Person Feature Analysis Task, use the capture camera as the analysis device, and draw the detection and analysis area below

3) Open the client and click on Person Search or filter by attributes. The following test results are for reference only

[Note]: Only the Human Body Capture module is supported in this configuration.