

# **IVSS V2.003.0000000.0**

## **Release Notes**



# Foreword

## Disclaimer

- These release notes are for reference only, and the actual product shall prevail.
- Succeeding products and release notes are subject to change without notice.
- If there is any uncertainty or controversy, please refer to our final explanation.

## Trademarks

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# Release Notes

## 1.1 Overview

Item	Description
Product name	Intelligent video surveillance server
Version	V2.003.0000000.0.R
Software package information	General_IVSS7XX_Eng_V2.003.0000000.0.R.210624
OS requirement	None
Release date	June 30, 2021

## 1.2 New Features

Feature	Description
Disk maintenance	Supports S.M.A.R.T detection, SSD health detection, and firmware update.
AI analysis of imported files	Import recording files from external storage device for AI analysis task.
Related search of face images and human body images	<ul style="list-style-type: none"><li>When searching for human body image by image, the Device automatically searches for face images as well by the related face images with high confidence level.</li><li>When searching for face image by image, the Device automatically searches for human body images as well by the related face images with high confidence level.</li><li>In the search results, both face images and human body images are displayed for higher accuracy.</li></ul>
1:1 face recognition	Compares two uploaded images and analyzes the similarity.
Entries frequency	<ul style="list-style-type: none"><li>Supports real-time entries frequency analysis based on the staff or passer-by database. When the entries detected of a person reach or exceed the threshold within the defined cycle, an alarm is triggered.</li><li>Supports searching for images by setting exceeding max. entries as face mode.</li></ul>
Privacy masking	Supports privacy masking on the video taken by the camera.
One-click disarming	<ul style="list-style-type: none"><li>Disarm alarm linkage actions as needed.</li><li>Supports disarming by period.</li><li>Supports synchronizing disarming configuration with cameras that support one-click disarming.</li></ul>

## 1.3 Fixed Bugs

None.

## 1.4 New Feature Details

### 1.4.1 AI Analysis of Imported Files

Configure AI analysis tasks for metadata of recorded videos. After the intelligent analysis task is completed, you can view the metadata video on the playback interface.

Figure 1-1 Analyze files imported from USB storage device



Figure 1-2 Analyze local files



#### 1.4.1.1 Importing Task Resources

Import task resources from PC or USB storage device for AI analysis.

**Step 1** On the **LIVE** interface, click **+**, and then select **TASK > Resource Management**.

Figure 1-3 Resource management

ID	File Name	Start Time	End Time	File Size	Process
1	4549Rg/fghh[0].dav	2021-03-11 10:37:33	2021-03-11 11:17:33	492.89 MB	Completed 100%
2	jidongf[ ] .dav	2021-06-02 11:41:42	2021-06-02 11:46:28	139.50 MB	Completed 100%
3	jidongche[ ] .dav	2021-06-02 11:41:42	2021-06-02 11:46:28	139.59 MB	Completed 100%
4	IPC_20210601112419_20210601112511[0].dav	2021-06-01 11:24:19	2021-06-01 11:25:10	52.85 MB	Completed 100%
5	IPC_20210601140351_20210601143148[0].dav	2021-06-01 14:03:51	2021-06-01 14:31:47	1.65 GB	Completed 100%
6	fafafafa[ ] .dav	2021-06-01 11:24:18	2021-06-01 11:25:10	7.87 MB	Completed 100%
7	fafafafa[0].dav	2021-06-01 11:24:18	2021-06-01 11:25:10	7.87 MB	Completed 100%
8	rtyghgh10211103733_2021031111755[0].dav	2021-03-11 10:37:33	2021-03-11 11:17:33	492.89 MB	Completed 100%
9	fafafafa[ ] .dav	2021-06-01 11:24:18	2021-06-01 11:25:10	7.87 MB	Completed 100%
10	fafafa[ ] .dav	2021-06-01 11:24:18	2021-06-01 11:25:10	7.87 MB	Completed 100%

**Step 2** Click **Import** to import .dav file from PC or USB storage device.

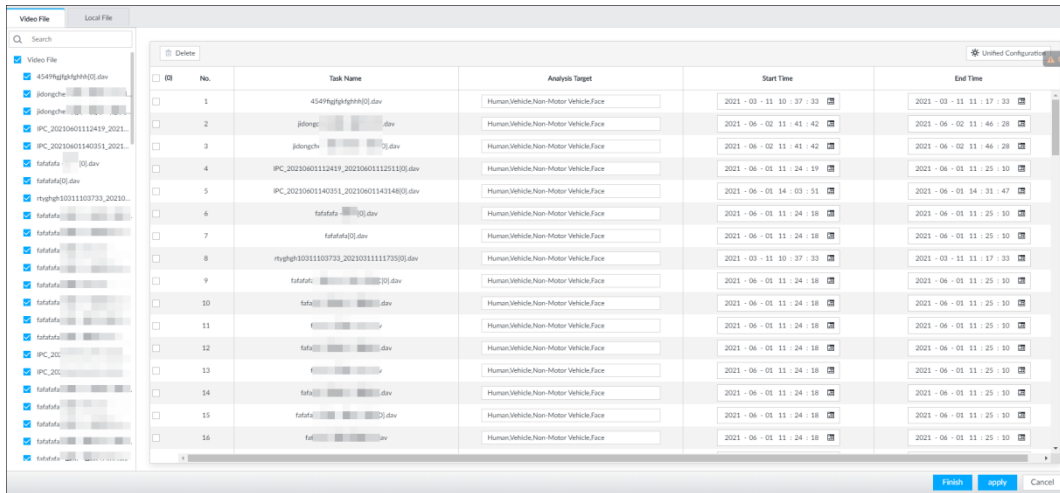
- **Delete**: Delete task resources.
- : Search for task resources by file name.

#### 1.4.1.2 Creating AI Analysis Task

**Step 1** On the **LIVE** interface, click **+**, and then select **TASK > AI Analysis Task**.

**Step 2** Click **Create**.


Figure 1-4 Create AI analysis task



**Step 3** Select the files or channels to be analyzed.

- In the **Video File** tab, select the video files to be analyzed. The files are imported from PC or USB storage device.
- In the **Local File** tab, select the channels whose videos you want to analyze.

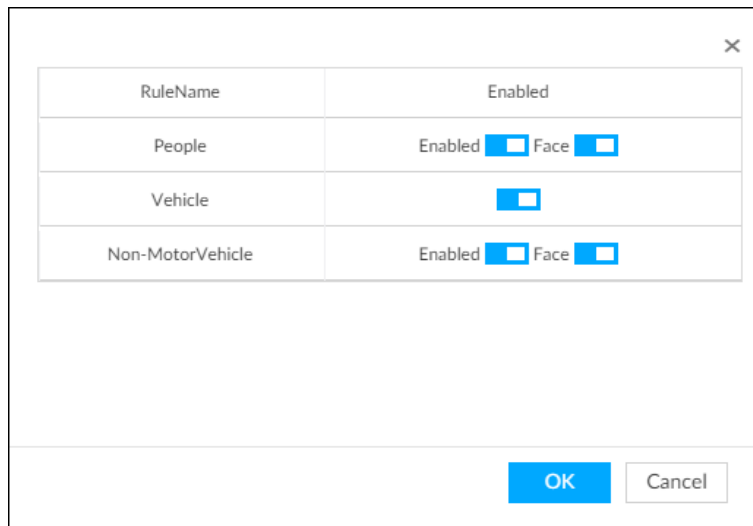


In the device tree,  indicates that the camera has been configured with intelligent analysis task.

**Step 4** Select a task type from **Analysis Target**.








- 1) Click the analysis target cell.

Figure 1-5 Analysis target



- 2) Select a task type.

Table 1-1 Task type description

Rule Name	Operations
People	<ul style="list-style-type: none"> <li>Click  next to <b>Enabled</b> to enable human detection as well as face detection.</li> <li>Click  next to <b>Face</b> to disable face detection.</li> </ul>  <p>You can only enable face detection after human detection has been enabled.</p>
Vehicle	Click  to enable vehicle detection.
Non-Motor Vehicle	<ul style="list-style-type: none"> <li>Click  next to <b>Enabled</b> to enable non-motor vehicle detection as well as face detection.</li> <li>Click  next to <b>Face</b> to disable face detection.</li> </ul>  <p>You can only enable face detection after non-motor vehicle detection has been enabled.</p>

3) Click **OK**.















Select multiple channels or video files, click **Unified Configuration**, and then you can configure tasks in batches.

**Step 5** Select start time and end time.

**Step 6** Click **Apply**.

After creating the tasks, you can perform the following operations.

Figure 1-6 Task operations

Function	Operation
	Click  to start a task.
	Click  to delete a task.
	Click  to download the task video.
	Click  to play back video of the task.
	Click  to increase the priority of the task.
	Click  to lower the priority of the task.
Start	Select tasks, and then click <b>Start</b> to start the tasks in batches.
Pause	Select tasks, and then click <b>Pause</b> to pause the tasks in batches.
Delete	Select tasks, and then click <b>Delete</b> to delete the tasks in batches.
Execution Period	Select one or more tasks, click <b>Execution Period</b> , and then select a time period. Tasks automatically run during this time period.

### 1.4.1.3 Viewing Analysis Results

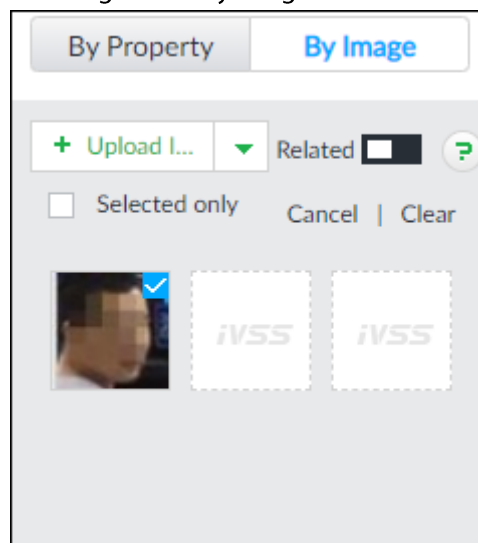
On the **LIVE** interface, click **+**, and then select **AI SEARCH**. On the **AI Search** interface, you can view analysis results.

## 1.4.2 Related Search of Face Images and Human Body Images

### 1.4.2.1 Related Search of Face Images

Step 1 Upload face image, compare it with face detection result of remote device, and find face detection information that meets the similarity.

Figure 1-7 By image



Step 2 (Optional) Click  to enable related search. If related search is enabled, the system searches for both face detection results and human detection results.

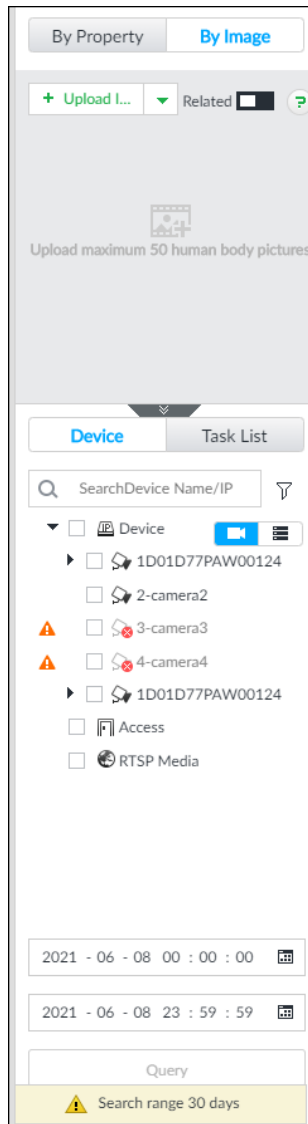
### 1.4.2.2 Related Search of Human Body images

Upload human body pictures to search the specific devices for similar targets.

Step 1 On the **LIVE** interface, click **+**, and then select **AI SEARCH** > **Search by Human** > **By Image**.



Figure 1-8 Search by image



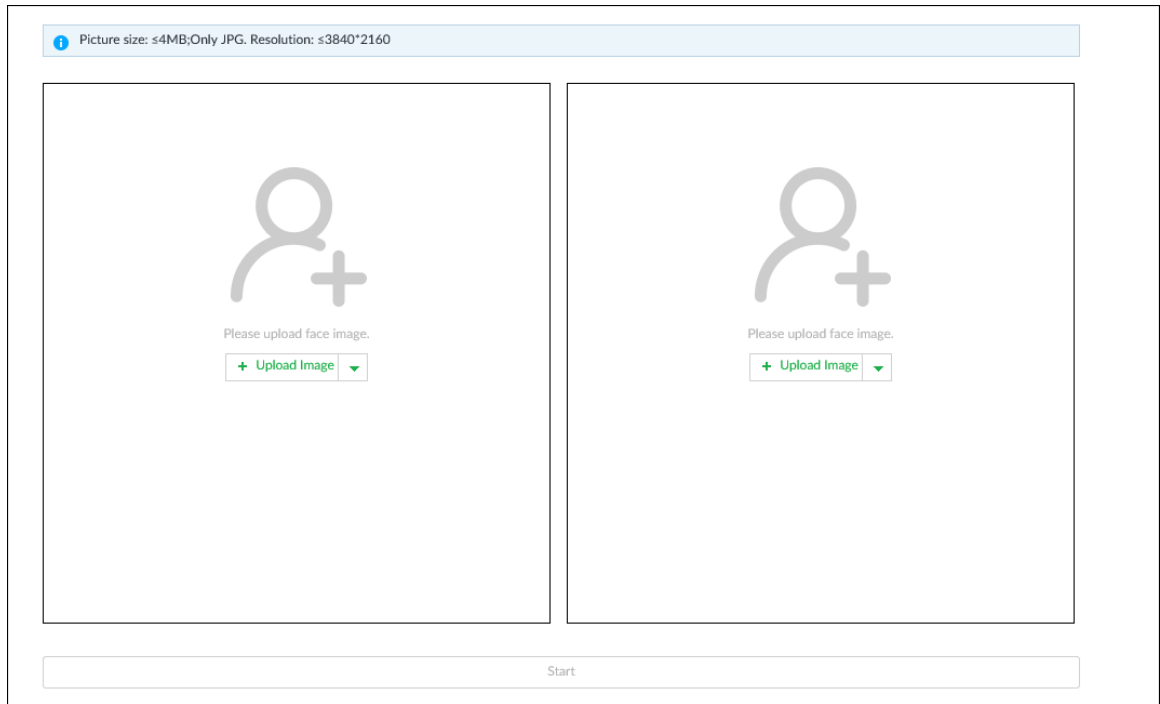
Step 2 (Optional) Click  to enable related search. If related search is enabled, the system searches for both face detection results and human detection results.


### 1.4.3 1:1 Face Recognition

Through 1:1 face recognition, the system analyzes the similarity between two images.

Step 1 On the **LIVE** interface, click , and then select **AI SEARCH > 1:1 Face Recognition**.

Figure 1-9 1:1 face recognition



Step 2 Click  and then upload two images to be compared.

Step 3 Click **Start**.

The comparison result will be displayed.

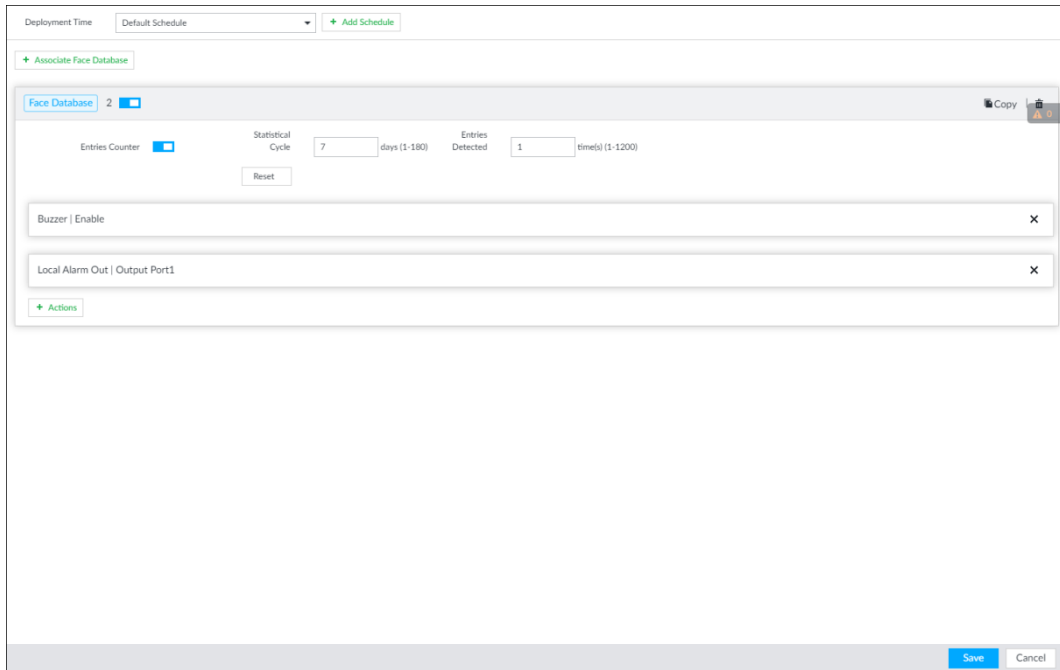
## 1.4.4 Entries Frequency

Step 1 Click  or click  on the configuration interface, and then select **EVENT**.

Step 2 Select the root node in the device tree on the left.

Step 3 Select **AI Application** > **Entries Frequency**.

Figure 1-10 Entries frequency



**Step 4** Click **Associate Face Database**, and then select the database to be linked.

**Step 5** Configure the parameters.

Table 1-2 Entries frequency parameters

Parameter	Description
Entries Counter	Click <input checked="" type="checkbox"/> to enable entries counter. Entries will be counted.
Statistical Cycle	<ul style="list-style-type: none"> <li>Set the statistical cycle as needed.</li> <li>The statistical cycle is 7 days by default.</li> </ul>
Entries Detected	<ul style="list-style-type: none"> <li>Set the threshold of entries frequency as needed. When the entries detected reaches or exceeds the threshold, an alarm is triggered.</li> <li>The value is 1 by default.</li> </ul>
Reset	Clear all entry counts.

**Step 6** Click the **Deployment Time** drop-down list to select or add a schedule as needed.

After setting the deployment time, only an alarm occurring within the schedule triggers linkage actions.

**Step 7** Click **Actions** to set alarm linkage actions.

**Step 8** Click **Save**.

After setting entries frequency, when the entries detected of a person reach or exceed the threshold, the features panel on the right side of the view window displays a high frequency tag. You can find the tag using live view or AI search.

Figure 1-11 High frequency tag



## 1.4.5 One-click Disarming

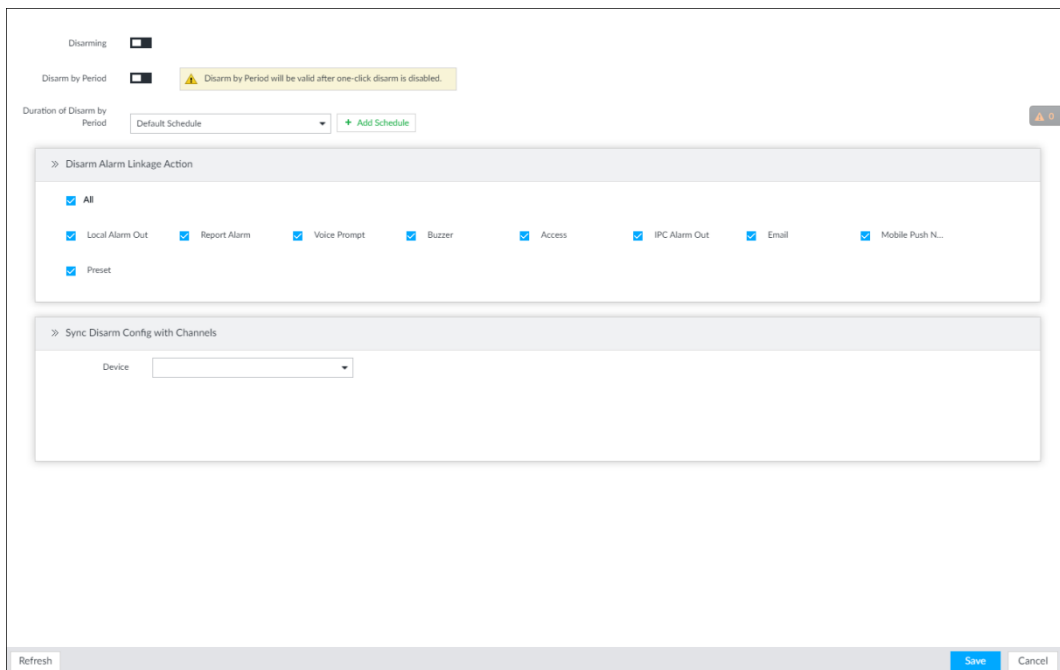
Disarm alarm linkage actions as needed to avoid interference caused by alarms.

**Step 1** Click  or click  on the configuration interface, and then select **EVENT**.

**Step 2** Select the root node in the device tree.

**Step 3** Select **Overview** > **Disarming**.


Figure 1-12 Disarming



**Step 4** Click  to enable disarming.

**Step 5** Cancel selecting alarm linkage actions as needed. The actions are selected by default.

**Step 6** (Optional) Configure disarming by period.

- 1) Click  to enable disarming by period.
- 2) Click **Add Schedule** to specify disarming schedule. The alarm linkage actions remain armed during unscheduled periods.
- 3) Click **Apply**.



After disarming by period is enabled, one-click disarming is disabled automatically.

**Step 7** Configure sync disarming configuration with channels.

- 1) Click the drop-down list in the **Sync Disarm Config with Channels** section. The devices that support one-click disarming or disarming by period are displayed.
- 2) Select the device that you want to synchronize the disarming configuration with.

**Step 8** Click **Save**.

## 1.5 Compatibility

This version is V V2.003.0000000.0.R, which is compatible with V2. .002.0000000.0.R.

## 1.6 Software Environment

Model	Version
DH-IPC-EBW81230P DH-IPC-EBW81230N	2.6.01.05.17336 DH_IPC-HX8XXX-Nova2_EngSpnFrn_NP_Stream3_V2.622.0000000.9.R.1 91210.zip
DH-IPC-HFW5241TP-AS-P V-0360B	2.6.01.05.24482 DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.19.R.200 709.zip
DH-IPC-HFW5241EP-ZE-2 7135	2.6.01.05.26353 DH_IPC-HX5XXX-Volt_MultiLang_PN_Stream3_V2.800.0000000.20.R.200 903.zip
DH-IPC-HF7442FP-FR	2.6.01.05.21691 DH_IPC-HX8XXX-Nobel_MultiLang_PN_V2.800.0000000.5.R.200525.zip
DH-IPC-PFW83242N-A18 0-E4	2.6.01.05.27624 DH_IPC-PFW832XX-Fafnir_MultiLang_NP_Stream3_V2.800.0000000.2.R.2 00927.zip
DH-PSDW81642M-A360- D440 DH-PSDW8842M-A180-D 440	2.6.01.05.26094 DH_IPC-PSDW8XXXL-Fafnir_EngSpnFrn_PN_Stream3_V2.800.0000000.3. R.200828.zip
IPC-HDW8341XN-3D-028 0B-S2	2.6.01.05.28259 DH_IPC-HX8XXX-Dual-Lens-Nobel_MultiLang_NP_V2.800.0000000.12.R. 201022.zip
DH-SDT5X425-4Z4-WA-2 812	2.6.01.05.22787 DH_SD-Fafnir_MultiLang_PN_Stream3-LingxiV2_V2.810.0000008.2.R.200 603.zip
DH-TPC-BF1241	2.6.01.05.27812 DH_TPC-BF1241-TB_MultiLang_NP_V2.630.0000000.0.R.201013.zip

DH-TPC-PT8421A	2.6.01.05.24525 General_TPC-PT8X21A-TB_MultiLang_PN_V2.630.0000000.3.R.200721.zip
DHI_ITC215_PW6M_IR_L ZF	2.6.01.08.05976 General_ITC215-PW6M-XXX_Eng_PN_Oversea_ITCPUSH_Europe_V2.623.0000000.0.R.200521.zip
ITC952_AU3F_IRL	2.6.01.08.05590 General_ITCX52-AF3F_Eng_P_Oversea_V2.822.0000000.0.R.200414.zip
ConfigTool	2.8.02.01.00366 General_ConfigTool_ChnEng_V4.011.0000003.6.R.20200114.zip
DSS PRO	2.7.01.02.02126 General_DSS-Pro_Win64_IS_V8.000.0000001.0.R.20201215.exe
DMSS	v1.91.001

## 1.7 Pending Issues

None.

## 1.8 Update Guide

The product supports update by ConfigTool/PC client/USB flash disk. Do not power off during the update. All intelligent transactions will be suspended during the update. For specific operation procedures, see *Intelligent Video Surveillance System Update Guide*.