

**Honeywell**

**Honeywell HDCS  
Video Surveillance System  
User Manual**



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## **Welcome**

Thank you for choosing our Video Surveillance System--HDCS!

This user manual is designed to be a reference tool for operation of your system.

Here you can find detailed operation information about HDCS.



# 1 Overview and Environment

This chapter contains the following sections:

- [Overview on page 1.](#)
- [Performance on page 1.](#)
- [Environments on page 2.](#)

## Overview

HDCS is a video surveillance system, which is designed for DVR, NVR and Decoder on managing security surveillance devices conveniently and efficiently. It supports Live View, Playback, Download, Video Wall, E-map and other services. The main features of HDCS are listed as below:

- View real-time video of several camera channels.
- View the playback video files from various cameras.
- Support multiple scheduled arms to realize auto PC guard.
- Support e-map: clearly view and manage all devices at different locations.
- Support video wall plan setup: output video to the video wall.
- Support extension applications: send out alarm information to external programs.

## Performance

System supports up to 256 devices and 2048 video channel connections, up to 51-channel live view in a single screen. See the following table for the max live view channels with different camera parameters.

**Table 1-1**

Resolution	Bite Rate	Frame Rate	Max Live View Channel
D1(704×576)	1.5M	25	51
720P (1280×720)	2M	25	25
1080P (1920×1080)	4M	25	8
4M (2560×1440)	4M	20	6
8M (3840×2160)	6M	15	3

**Note**

- If the system has already connected 256 devices, the number of video channels cannot be added even if it doesn't reach 2048, and vice versa.
- If the system connects with devices and video channels together, the sum of video channels in the devices and video channels which directly connect with the system must be less than 2048.

## Environments

**Table 1-2**

Item	Requirements
OS	Windows 7/ Windows 8.1/Windows 10
CPU	Recommended Inter(R) Core(TM)i5-7500 CPU @3.4GHz or above
Display card	Intel HD Graphics 4400 equivalent or above, and Discrete Graphics is better
Network card	1Gbps or higher
Memory	Recommended 8GB or above
Displayer Resolution	1024×768 or above
Hard Drive	80GB free space or above

# 2 Installation and Initialization

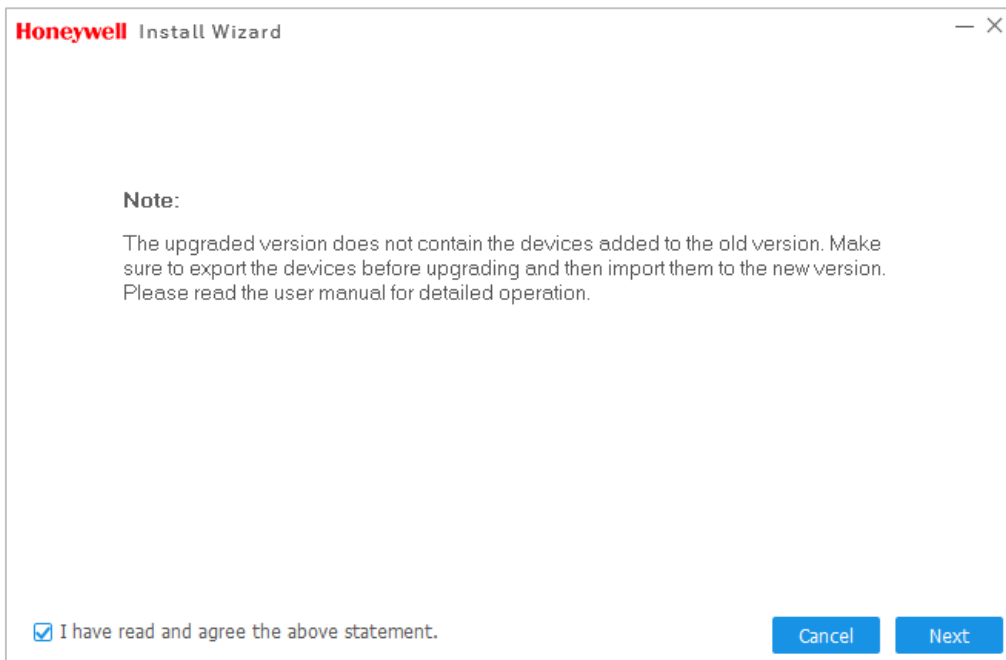
This chapter contains the following sections:

- [Installation](#) on page 3.
- [Initialization](#) on page 7.

## Installation

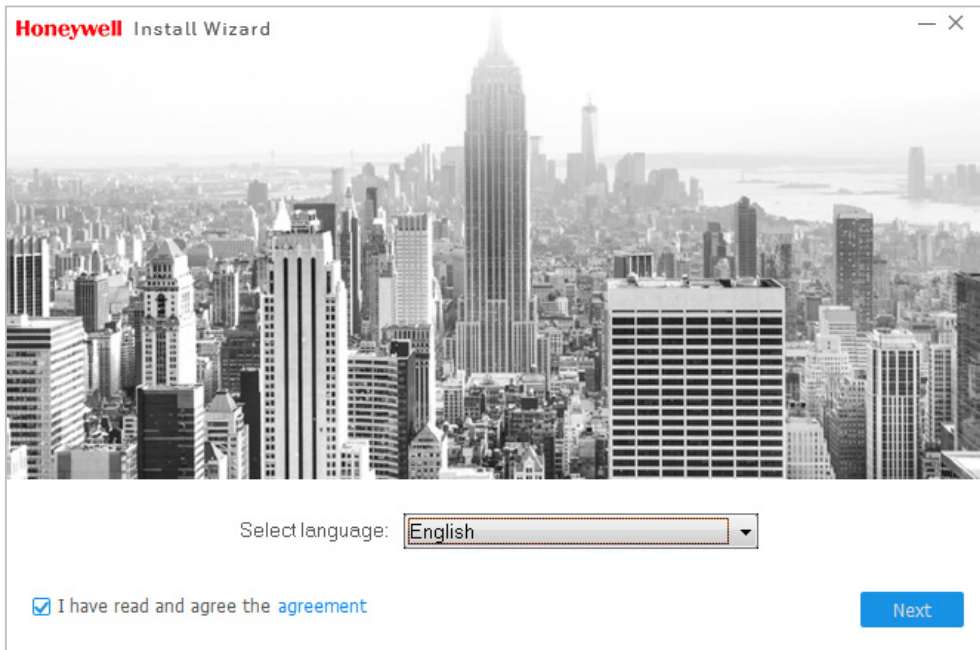
1. Double click “HDCS\_Setup.exe” and the following window is displayed:

Figure 2-1



2. For the new user, please ignore the **Note**; for the old user, please read the **Note** carefully. Check the checkbox below and then click **Next** to continue.

Figure 2-2

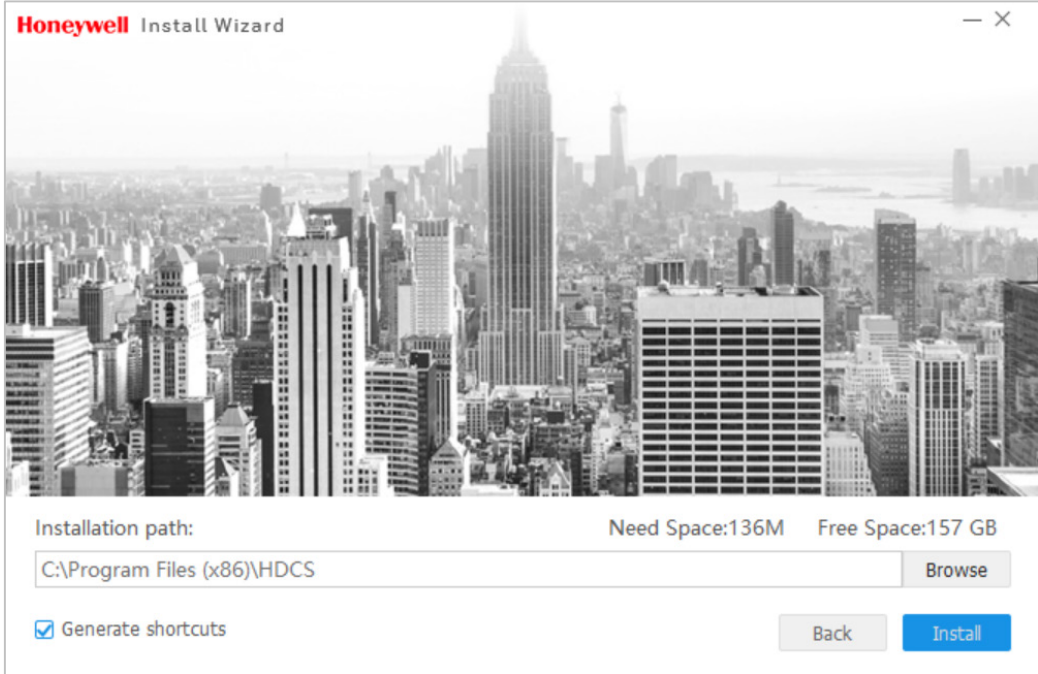


3. Select the language and check the Agreement checkbox. Click **Next** to continue.



4. Check the HDCS checkbox and click **Next** to continue.

Figure 2-3



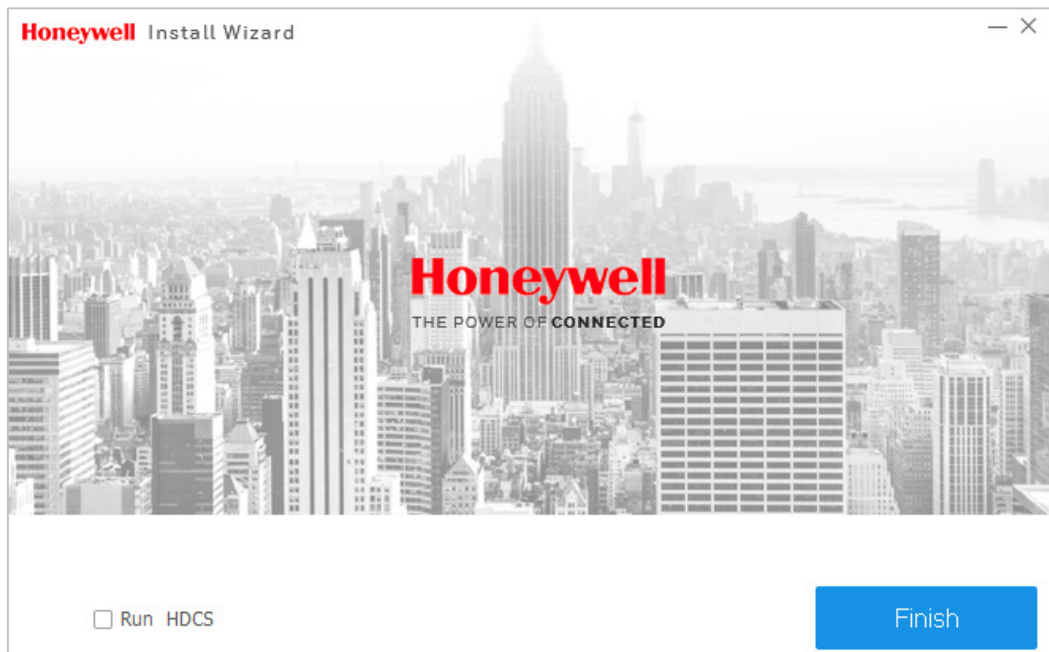
5. Select the installation path and click **Install** to continue.

Figure 2-4



6. During the installation process, you can click **Cancel** to exit. After installation, the following window is displayed:

Figure 2-5



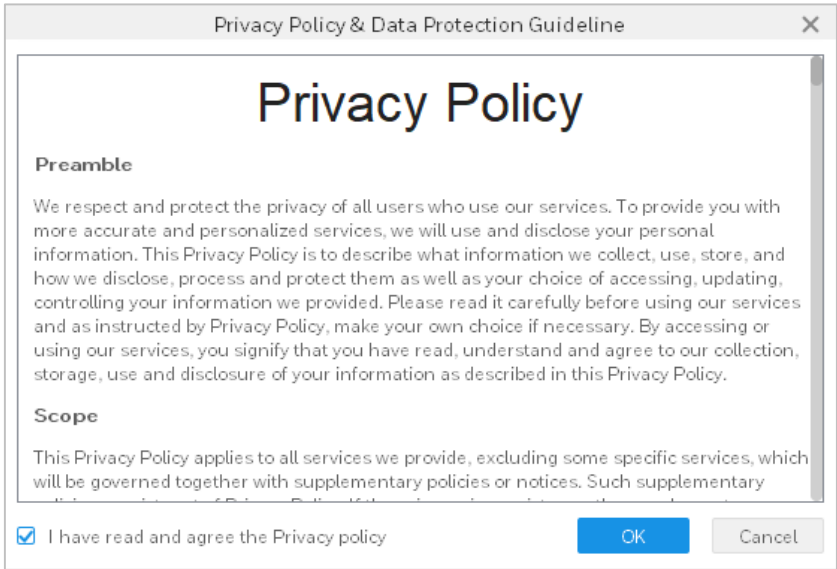
7. Click **Finish** to complete the installation.

## Policy Confirmation

When the software runs for the first time, the Privacy Policy & Protection Guideline window will pop up for your confirmation. Click the checkbox below and click **OK** to continue. The policy source file can be found in the installation path. If you click **Cancel**, you confirm to exit the HDCS software.



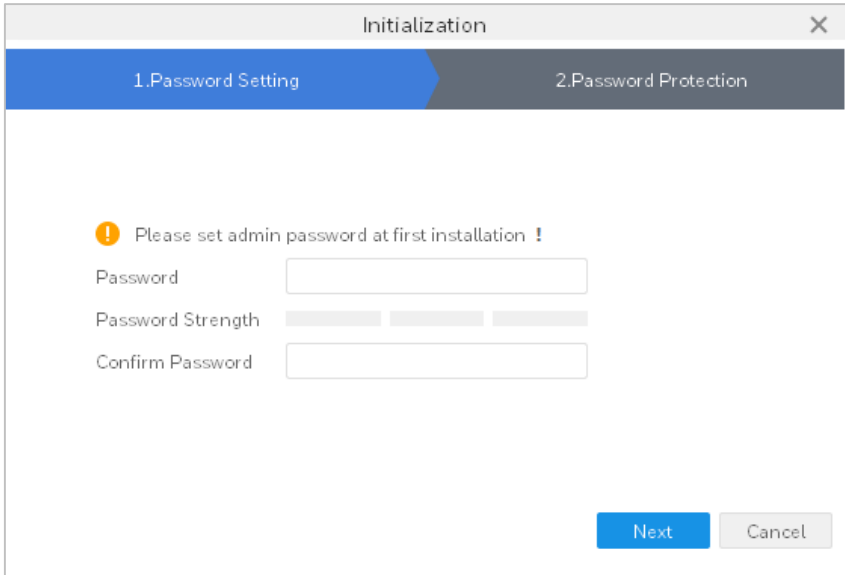
Figure 2-6



# Initialization

Before you get started, make sure to complete the initialization to set the password.

Figure 2-7



- 1. Set the login password and comfirm the password. Click **Next**.

Figure 2-8

The screenshot shows a window titled "Initialization" with a close button (X) in the top right corner. The window has two tabs: "1.Password Setting" and "2.Password Protection". The "2.Password Protection" tab is active and highlighted in blue. Below the tabs, there is a yellow warning icon and the text "Please set security questions!". There are three sets of security questions, each consisting of a question dropdown menu and an answer text input field. The questions are: "Question 1: What is your favorite children's book?", "Question 2: What was the first name of your first boss?", and "Question 3: What is the name of your favorite fruit?". At the bottom right of the window, there is a "Finish" button.

2. Set the security questiones and click **Finish** to complete the initialization.

# 3 Settings

This chapter contains the following sections:

- [Login Interface](#) on page [9](#).
- [Main Interface](#) on page [10](#).
- [User](#) on page [12](#).
- [Device](#) on page [15](#).
- [Device Configuration](#) on page [22](#).
- [Event Configuration](#) on page [23](#).
- [Tour & Task](#) on page [31](#).
- [System Configuration](#) on page [35](#).

## Login Interface




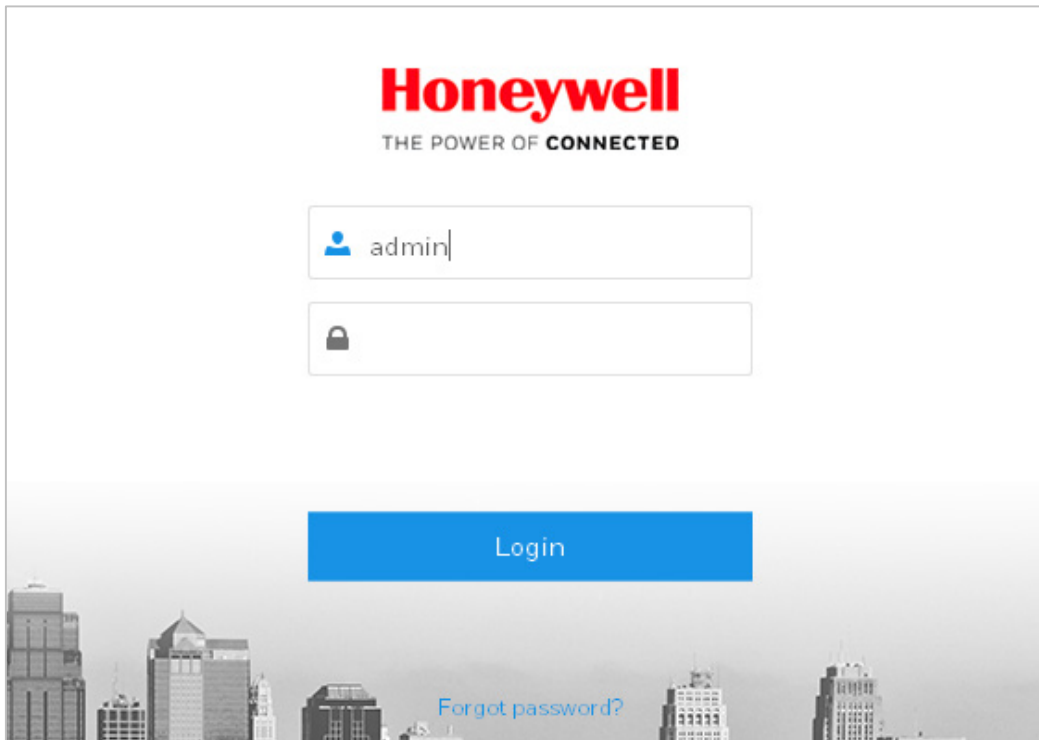


Double click HDCS icon , and the login interface is displayed:

Figure 3-1



 : enter the user account

 : enter the corresponding password to log in.

---

**Note**

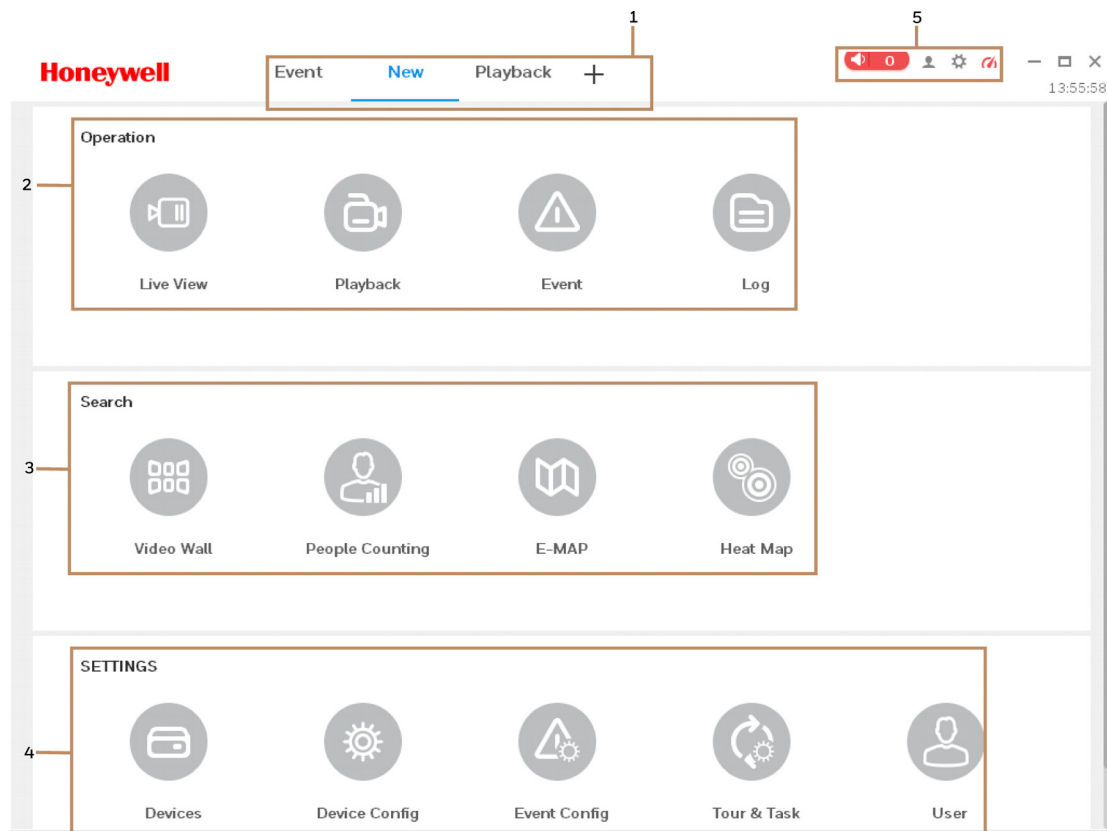
If it is your first time to run HDCS, both default user name and password are “admin”. “Admin” is a super administrator and cannot be removed. You can add, modify or delete the other users.

---

## Main Interface

Click **Login** to go to the main interface:

Figure 3-2



Please refer to the following sheet for detailed information.

Table 3-1

SN	Parameter	Function
1	Menu	Here you can view main page icons and current open function icons. Click + button to add a function icon on the top pane.
2	Operation	It includes Live View, Playback, Event and Log.
3	Search	It includes Video Wall, E-map, People Counting and Heat Map.
4	Settings	It includes Devices, Device Config, Event Config, Tour & Task, User, etc.
5	Other Information	It is to display the software version, system configuration and occupation status of CPU and RAM. .

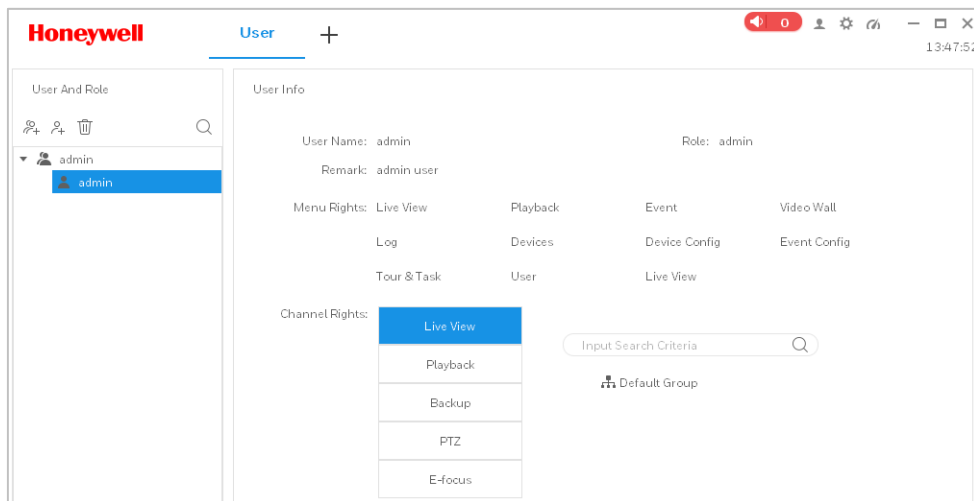
# User

You can add, modify and delete system users and roles, and set user's authorities and role's authorities.



Click **User** on the **SETTINGS** pane in *Figure 3-2* to go to the following interface:

**Figure 3-3**



## Adding a Role


1. Click  in *Figure 3-3* and the following interface is displayed:

Figure 3-4

Role Info

Role Name:

Remark:

Menu Rights:

- Check All
- Live View
- Playback
- Event
- Video Wall
- Log
- Devices
- Device Config
- Event Config
- Tour & Task

ChannelRigh...

- Live View
- Playback
- Backup
- PTZ
- E-focus

Input Search Criteria

Default Group

2. Enter a role name and check the corresponding menu rights of the role. Enter remarks if necessary.
3. Select the channel rights and click **Save**.

---

**Note**

- The defaulted role **admin** cannot be modified and deleted.
  - When a user of the corresponding role logs in to the client, the system only shows the authorized menu rights.
- 


## Modifying a Role

Select a role and click  to modify a role.

## Deleting a Role

Select a role and click .


## Adding a User

1. Click  in [Figure 3-3](#) and the following interface is displayed:

**Figure 3-5**

2. Refer to the following table to set the user's parameters.

**Table 3-2**

Parameter	Description
Username	Enter the user name. The username cannot be the same as the existing username.
Role	Select a user role from the dropdown list or click  to add a new role.
Password Confirm	Enter the user's password and confirm the password.
Remark	Description of the user information.
Menu Rights	Check the box to select corresponding rights for the current user. If the new user's role is admin, the system checks all rights by default.
Channel Rights	Select the user's channel rights.


3. Click **Save**.



## Modifying a User

Select a user and click  to modify a user.

## Deleting a User

Select a user and click .

## Switching a User

To switch a user, click  on the top right corner in [Figure 3-2](#) and select Switch User.

## Devices

You can add a single device or a batch of devices (i.e. DVR, NVR) automatically or manually.

---

**Note** Adding IP camera is not recommended.

---

## Adding a Device

There are three ways to add devices:

1. Auto Adding Devices;
2. Manually Adding Devices;
3. Batch Import Devices.



Click  on the **SETTINGS** pane in [Figure 3-2](#) to go to the following interface:

Figure 3-6

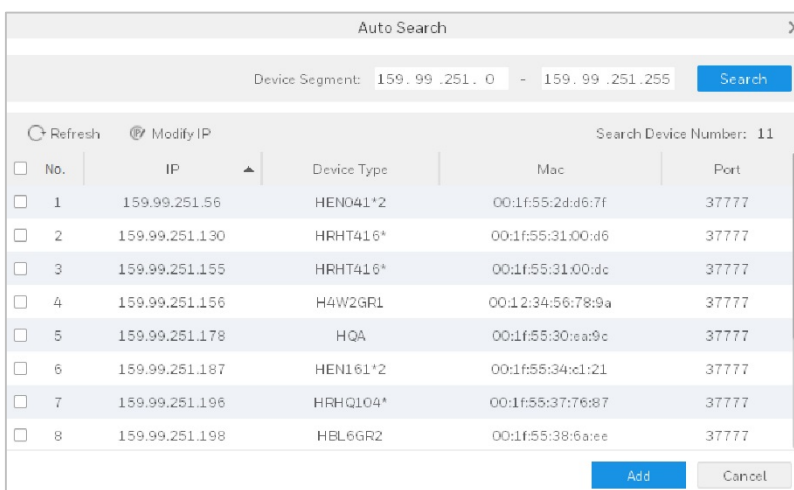


### Adding Devices Automatically

Auto adding devices applies to searching a batch of devices by device IP segment.

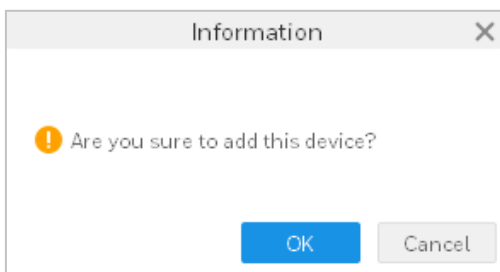
1. Click **Auto Search** in [Figure 3-6](#) and the following window is displayed:

Figure 3-7



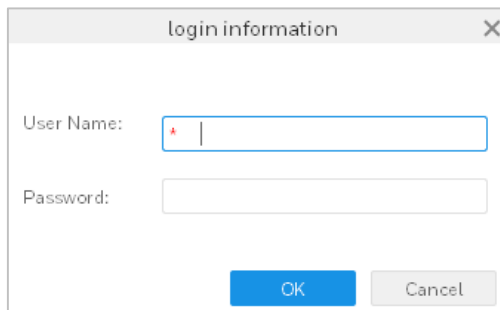
2. Set the device IP segment and click **Search** to search the devices that are within the segment.
3. Check the devices that you want to add and click **Add**. A confirmation window pops up.

Figure 3-8



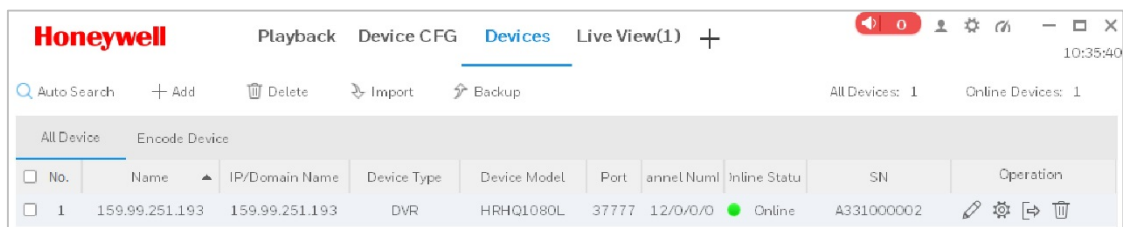
4. Click **OK** and a login window pops up. Enter the username and password.

Figure 3-9



5. Click **OK** and the added device is displayed in the device list.

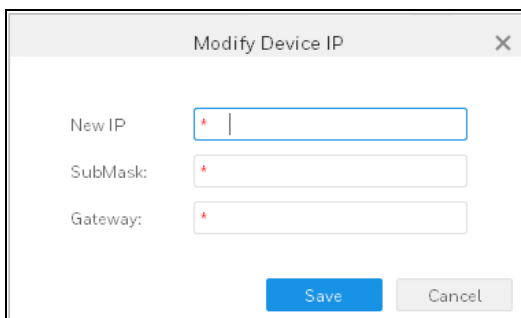
Figure 3-10



No.	Name	IP/Domain Name	Device Type	Device Model	Port	annel Numl	Inline Statu	SN	Operation
<input type="checkbox"/> 1	159.99.251.193	159.99.251.193	DVR	HRHQ1080L	37777	12/0/0/0	Online	A331000002	

6. To modify the IP of a device, select a device in [Figure 3-7](#) and click **Modify IP**.

Figure 3-11



7. Enter the new IP, sub mask and gateway. Click **Save**.

### Manually Adding Devices

Manually adding devices applies to adding a single device.

1. Click **Add** in [Figure 3-6](#) and the following window is displayed:

**Figure 3-12**

The 'Manual Add' dialog box includes the following fields and controls:

- Device Name:
- Method to add:
- IP/Domain Name:
- Port:
- Group Name:
- User Name:
- Password:
- Buttons: Save and Continue, Add, Cancel

2. Enter the corresponding information and click **Add**.
3. Click **Save and Continue** to add the next device; click **Cancel** to exit.

### Batch Import Device

You can prepare the device configuration file (.xml format) in advance and import it to the system.

1. Click **Import** in [Figure 3-6](#) and the following window is displayed:

**Figure 3-13**






The 'Device Import' dialog box features the following elements:

- Tabs: Local, From Honeywell DDNS
- Local Path:
- Buttons: Import, Cancel

- Click the **Local** tab to select the device configuration file (.xml format) locally.
  - Click the **From Honeywell DDNS** tab and enter the username and the password of the device.
2. Click **Import**. When the devices are successfully imported, system shows a message. Click **OK**.

After a device is added, system auto logs in to the device. The Online Status shows Online if login successfully, otherwise it shows “Offline”.

- Click  to modify the device;

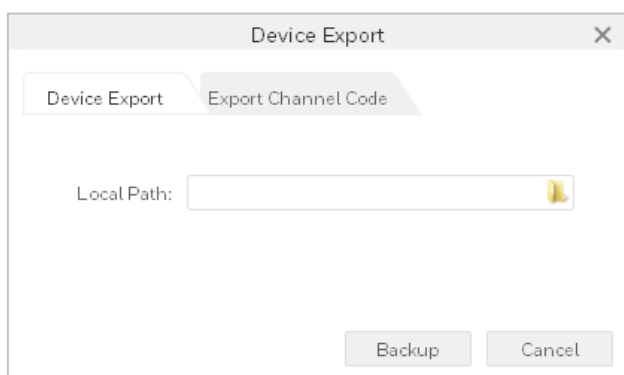
- Click  to go to the Device Configuration interface;
- Click  to log out the device manually.
- Click  to log in the device manually.
- Click  to delete the device.
- Click  to modify the channel number.

## Backup

You can back up the configuration file of all the devices.

1. In [Figure 3-6](#) and click **Backup**. The following window is displayed:

**Figure 3-14**



- Click the **Device Export** tab. Select a target path and click **Backup**. The exported file contains User name, Port and IP/Domain Name.
- Click **Export Channel Code** tab. Select a target path and click **Backup**. The exported file contains Device Name, IP, Channel Name and Channel No.

## Modifying a Device


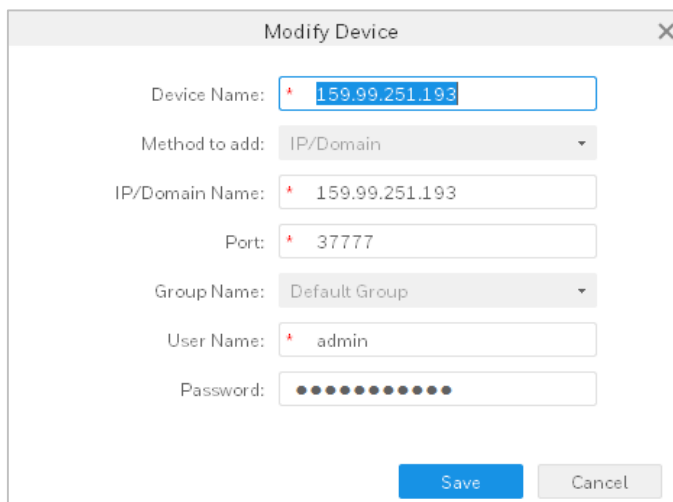
1. In [Figure 3-6](#), click the modify icon  of the device that you want to modify. The following window is displayed:

Figure 3-15



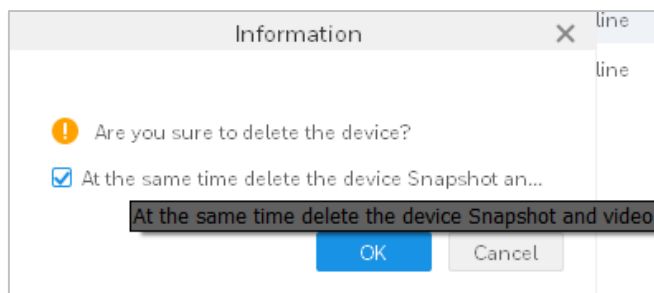
2. Change the device information and click **Save**.

## Deleting a Device

### Single Deleting

1. Select a device and click  in [Figure 3-10](#) and the following window is displayed:

Figure 3-16

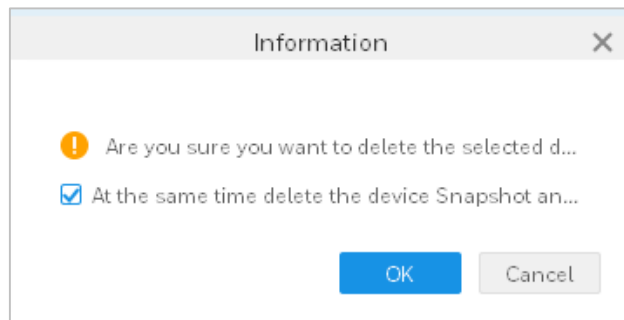


2. Check **At the same time delete the device snapshot and video** if needed and click **OK** to delete the device.

### Batch Deleting

1. Select more than one devices and click **Delete** in [Figure 3-10](#). The following window is displayed:

Figure 3-17



2. Check **At the same time delete the device snapshot and video** if needed and click **OK** to delete the devices.

---

**Note**

Hover mouse on the non-completed displayed text to obtain the full text. See [Figure 3-16](#).

---

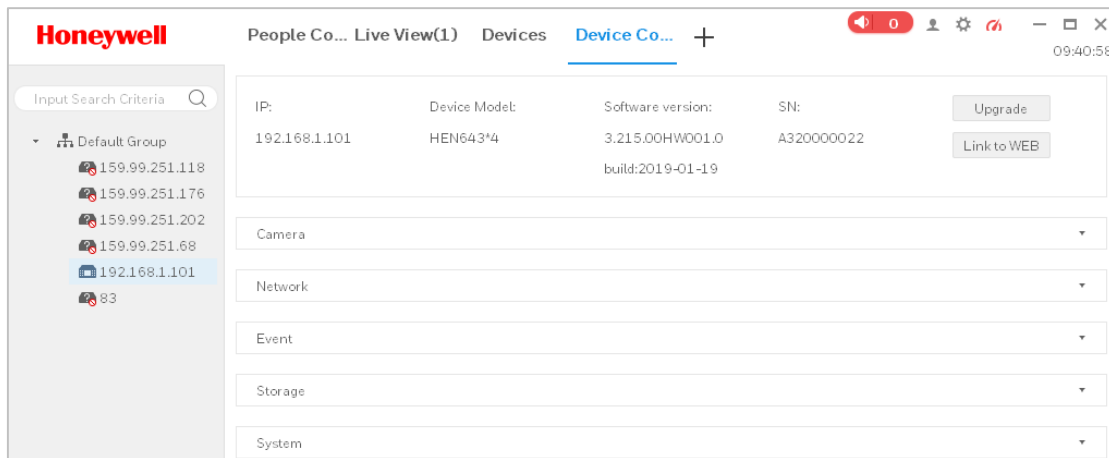
## Device Configuration

You can update the device's software version, login to the web version, and configure the camera, network, PTZ, event, storage, system of the device.



Click  on the **SETTINGS** pane in *Figure 3-2* to go to the following interface.

**Figure 3-18**



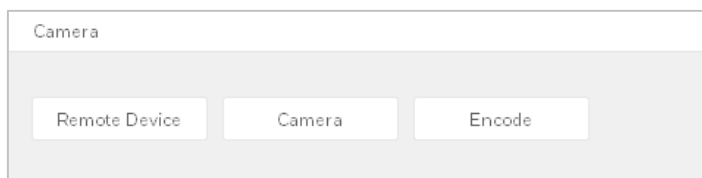
**Upgrade:** Select a device and click **Upgrade** to upgrade the device software.

**Link to WEB:** Select a device and click **Link to WEB** to login to the web version.

### Camera

Click **Camera** to expand the option.

**Figure 3-19**



Click each tab to further configure the detailed parameters correspondingly.

**Note**

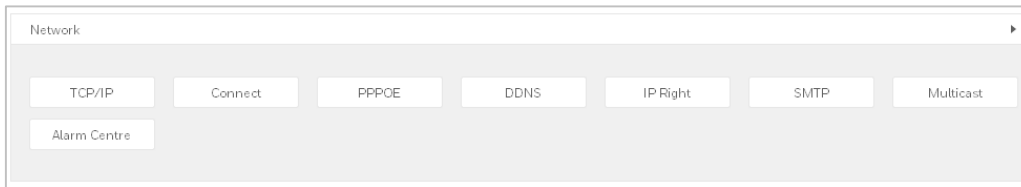
Remotely add cameras to NVR/DVR by clicking **Remote Device**, the added cameras cannot be updated timely under the device tree. To solve this problem, delete the NVR/DVR from HDCS and re-add.

### Network

Click **Network** to expand the option.



Figure 3-20

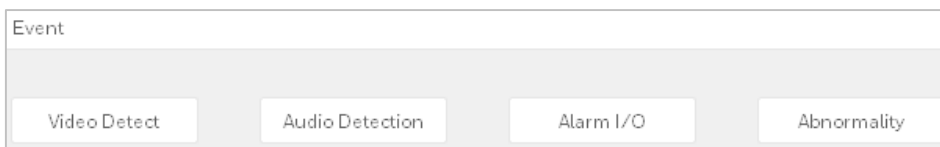


Click each tab to further configure the detailed parameters correspondingly.

### Event

Click **Event** to expand the option.

Figure 3-21

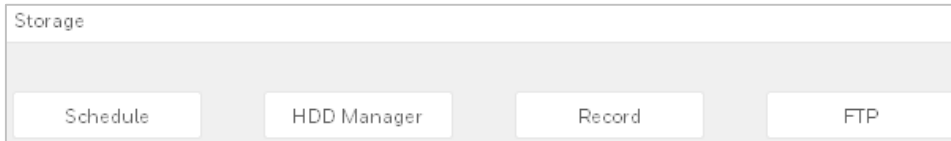


Click each tab to further configure the detailed parameters correspondingly.

### Storage

Click **Storage** to expand the option.

Figure 3-22

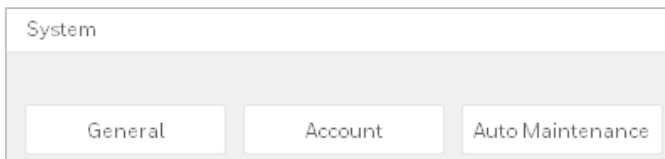


Click each tab to further configure the detailed parameters correspondingly.

### System

Click **System** to expand the option.

Figure 3-23



Click each tab to further configure the detailed parameters correspondingly.

## Event Configuration

This section covers the HDCS's event configuration, which allows subscribing to already added device's events in HDCS.

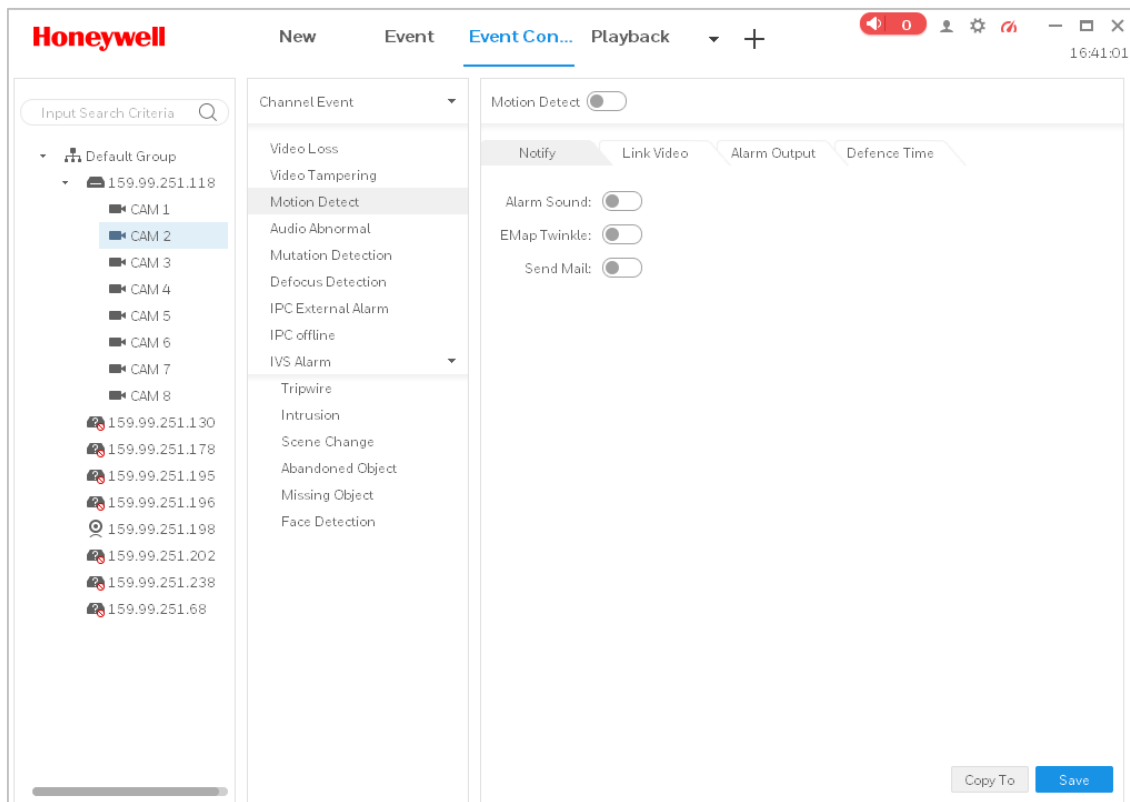
These events will be shown in the Events page when triggered on the device.

If the event is not firstly configured in the device, it will not be shown in HDCS. To configure the device's event, see [Device Configuration](#).



Click **Event Config** on the **SETTINGS** pane in [Figure 3-2](#) to go to the following interface:

**Figure 3-24**



Events was shown variously based on different devices. Refer to the following table for detailed information.

**Table 3-3**

Event Type	Event	Description
Channel event	Video Loss	The network is abnormal.
	Video Tampering	The video is tampered.
	Motion Detect	The object is moving.
	Audio Abnormal	The audio connection is abnormal.
	Mutation Detection	The sound is suddenly changed.
	Defocus detect	Defocus occurs.

	IPC External Alarm	For only NVR/HCVR. Check the external alarm input of IPC which is connected to the NVR/HCVR.
	IPC Offline Alarm	For only NVR/HCVR. Event occurs when the IPC is disconnected to the NVR/HCVR.
	Tripwire	When the object crosses line from the set direction.
	Cross warning zone	When the object enters or leaves the area, or the target object appears in the region.
	Scene Change	When the scene is changed.
	Abandoned Object Detection	When the monitoring screen have left more than the target time set by the user.
	Missing Object Detection	When the monitoring screen is removed over a certain period of time.
	Face detection	When the monitor screen detects a person's face.
	Loitering detection	When the target object continuously appears in the monitoring area longer than the set time.
	Crowd Gathering Estimation	When the crowd gathered in the monitoring area.
	Fast Moving	Calculate target actual speed and when target moving speed exceeds the set speed, event is triggered.
	Parking Detection	Event is generated when the vehicle in stationary time exceeds a set time.
External Event	Alarm input 1 to input <i>N</i> are different according to device alarm input structure.	Event is generated when there is external alarm input.
Device Event	No Disks	Event is generated when the device does not have storage devices.

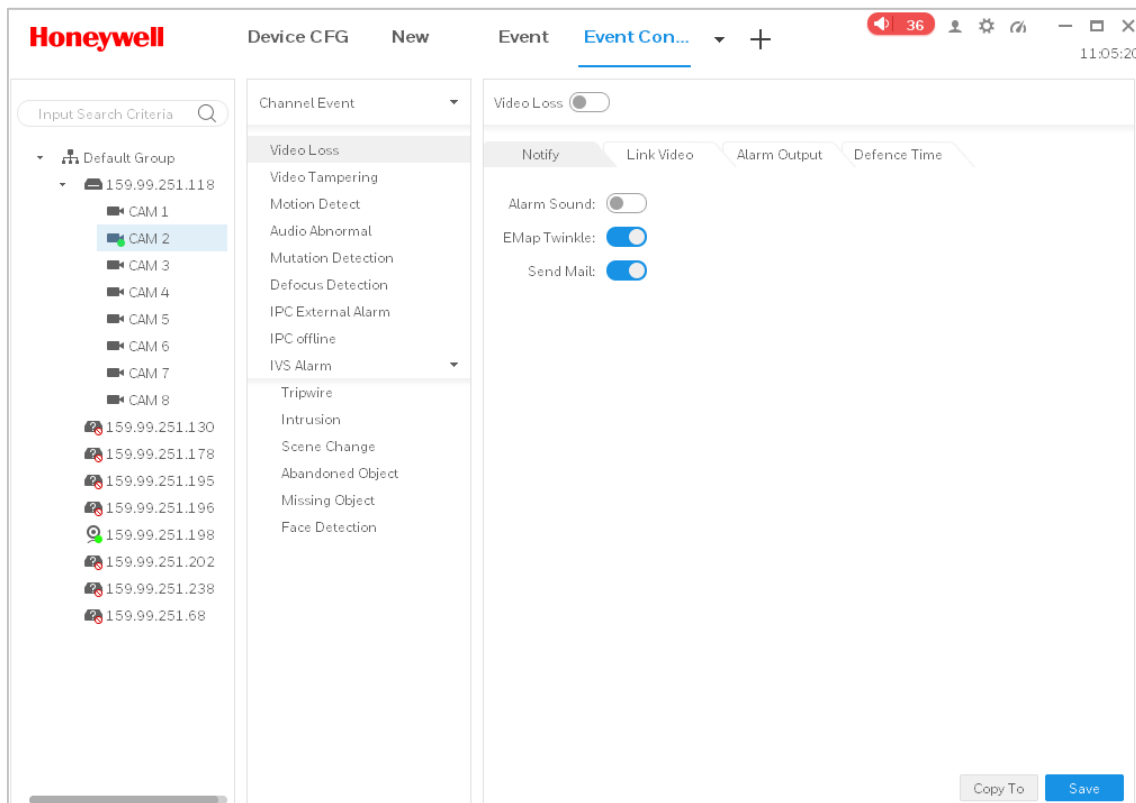
Disk Fault	Event is generated when the device has hard disk failures.
Disk Full	Event is generated when the device disk is full.
Invalid Access	When the login password you enter are consecutively incorrect, and reach the limit, event is triggered.
Device Offline	When the device is offline.
Voltage Alarm	When the voltage is higher or lower than the preset.

## Notify

If the **Notify** function is enabled, system will alarm, twinkle on map or send an email when an event occurs.

1. Select a device and an event type (take **Video Loss** as an example) in [Figure 3-24](#). The following interface is displayed:

**Figure 3-25**



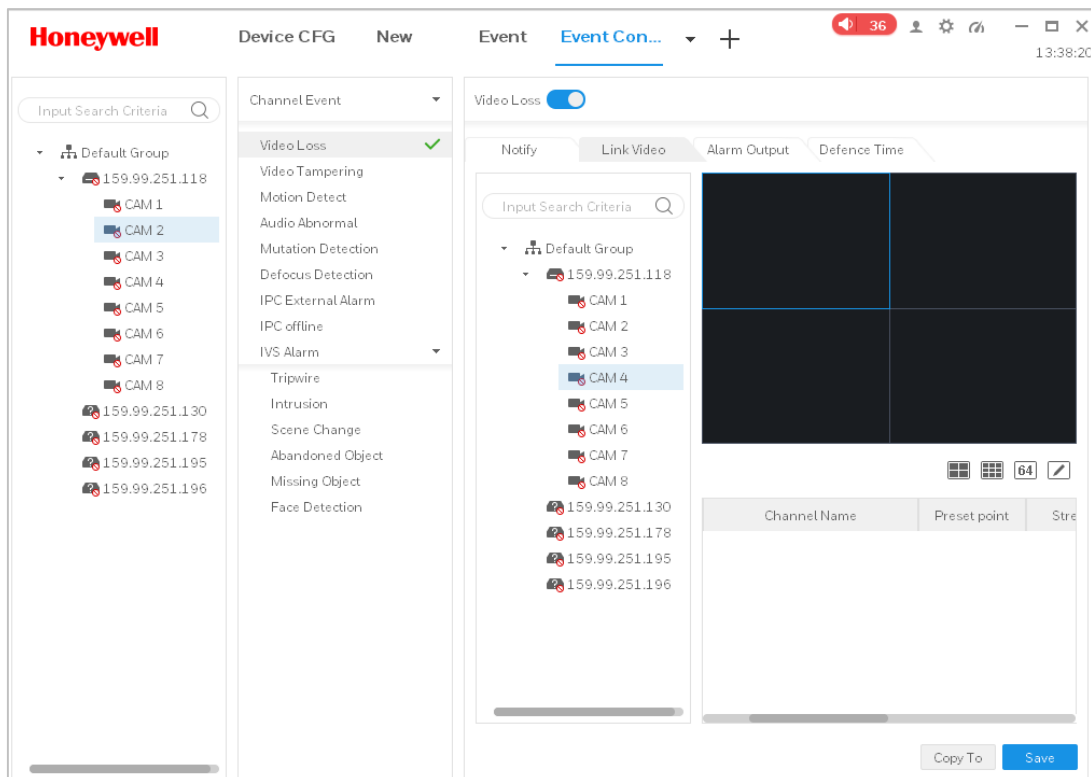
2. Click **Video Loss**  to enable the event type.
3. Select the **Notify** tab and click  to enable **Alarm Sound**, **E-map Twinkle** or **Send Email** functions.
4. Click **Save** or click **Copy** to duplicate the settings to other devices.

## Link Video

If the **Link Video** function is enabled, system will link to a corresponding camera's live view or record when an event occurs.

1. Select a device and an event type (take **Video Loss** as an example) in [Figure 3-24](#). The following interface is displayed:

**Figure 3-26**



2. Click **Video Loss**  to enable the event type.
3. Select the **Link Video** tab. Select a video window and double click a camera you want to link to or directly drag it to the window. You can set the window layout on



4. In the linked camera list, you can set the following items:
  - Set Preset Point

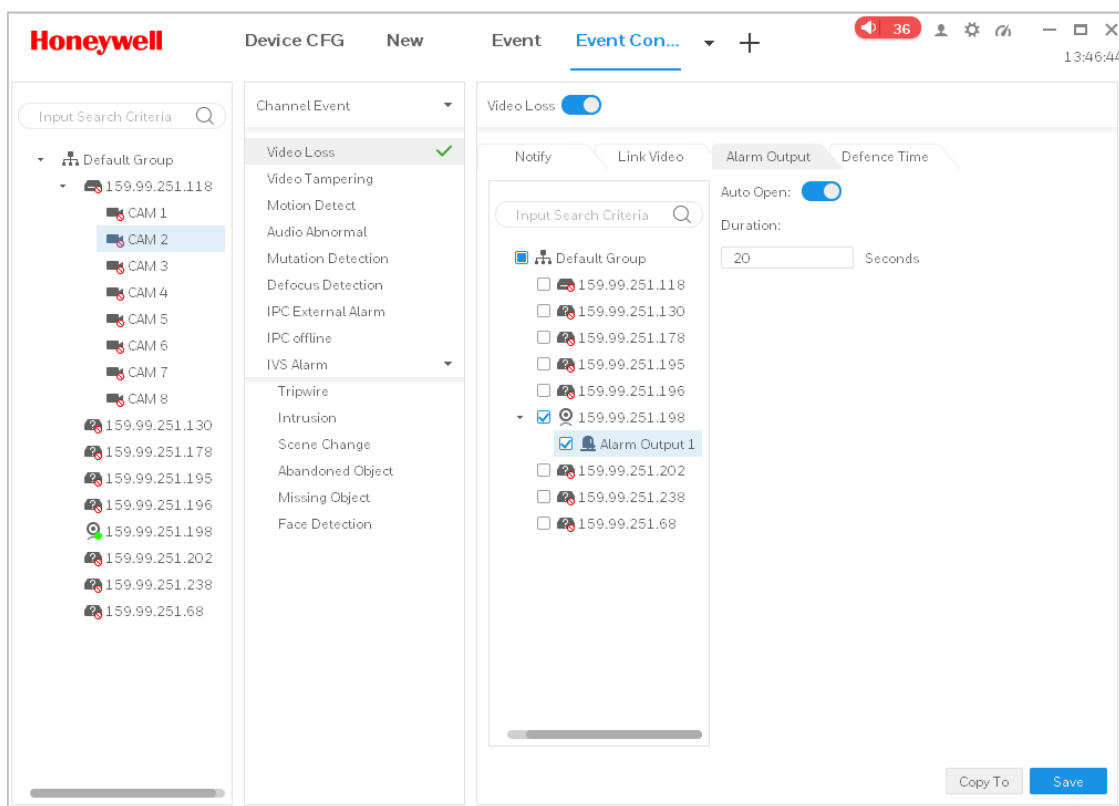
- Set Stream Type
  - Set Record Duration
  - Enable /Disable Auto Open Video
  - Enable /Disable Record
  - Delete the camera
5. Click **Save** or click **Copy** to duplicate the settings to other devices.

## Alarm Output

If the **Alarm Output** function is enabled, system will link to a corresponding camera alarm output when an event occurs.

1. Select a device and an event type (take **Video Loss** as an example) in [Figure 3-24](#). The following interface is displayed:

Figure 3-27



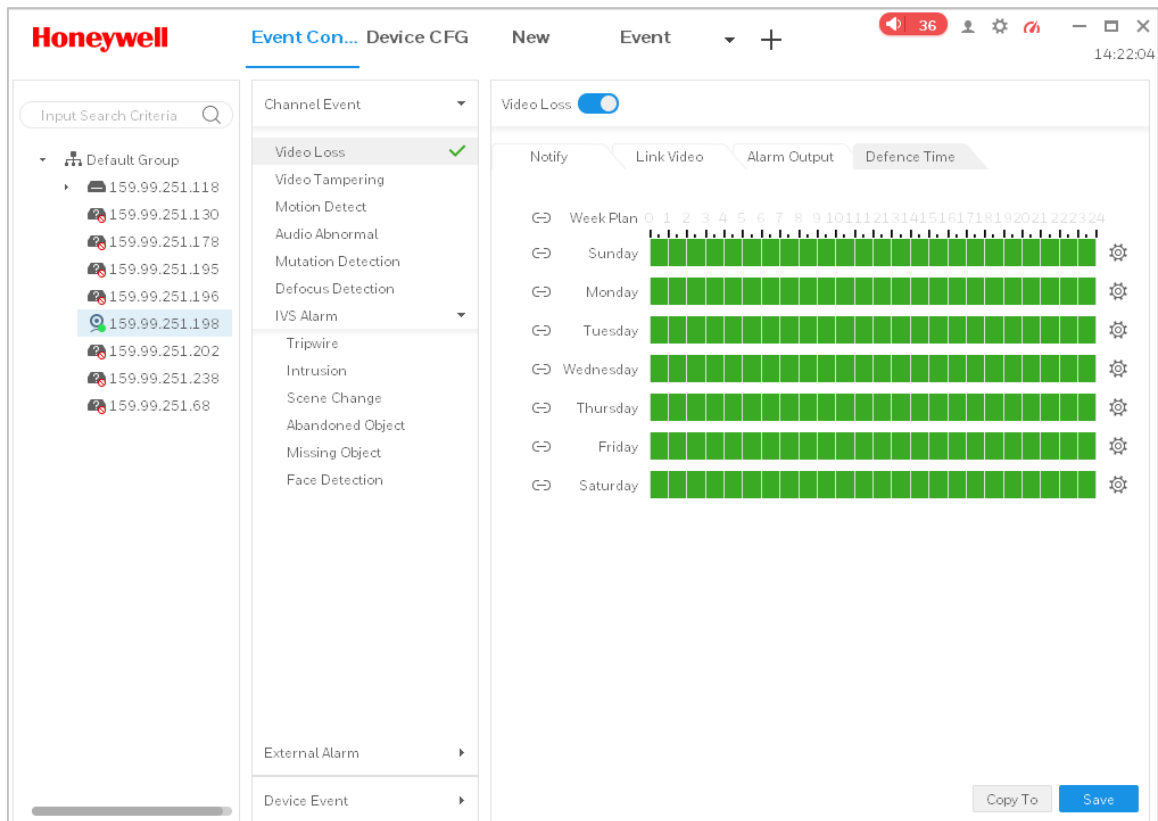
2. Click **Video Loss**  to enable the event type.
3. Select the **Alarm Output** tab and select the target IP camera by double clicking it.
4. Click  to enable/disable **Auto Open** and manually set the duration time.
5. Click **Save** or click **Copy** to duplicate the settings to other devices.

## Defence Time

Event is armed all-day by default. You can set the arm/disarm period.

1. Select a device and an event type (take **Video Loss** as an example) in [Figure 3-24](#). The following interface is displayed:

Figure 3-28



1. Click **Video Loss**  to enable the event type.
2. Select the **Defence Time** tab and use mouse to draw the corresponding period on the time bar directly. You can also click to set the period in the following pop-up box.

Figure 3-29

## Event View

You can view the alarm event information.



Click **Event** on the **Operation** pane in [Figure 3-2](#) to go to the following interface:




Figure 3-30

Check	Occur Time	Event Type	Device Name	Channel Name	Handling Person	Handling Time	Handling Remark	Handling Status	Operation
<input type="checkbox"/>	2018-05-11 10:00:06	Motion Detect/Disappear	159.99.251.118	CAM 2	admin	2018-05-11 10:01:...		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:59:59	Motion Detect/Occur	159.99.251.118	CAM 2	admin	2018-05-11 10:02:...		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:59:50	Motion Detect/Disappear	159.99.251.118	CAM 2	admin	2018-05-11 10:02:...		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:59:41	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:59:29	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:58:17	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:58:16	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:57:36	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:57:23	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:57:16	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:57:06	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:57:03	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:56:04	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:55:42	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:55:29	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:55:20	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:55:12	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:55:05	Motion Detect/Occur	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	
<input type="checkbox"/>	2018-05-11 09:54:55	Motion Detect/Disappear	159.99.251.118	CAM 2	N/A	N/A		<input checked="" type="checkbox"/>	



It lists up to 1000 latest real-time alarm messages.

**Table 3-4**

Parameter	Function
Stop Link Video Popup	Check it and system does not pop up a video window when an alarm occurs.
Stop Refresh	Check it and system does not refresh new messages.
Handle	Select an event and click <b>Handle</b> . The “Handling Status” of this event becomes handled (  ).
	Click  to mute the alarm sound when an alarm occurs. The figure (17) represents the number of the unhandled messages.

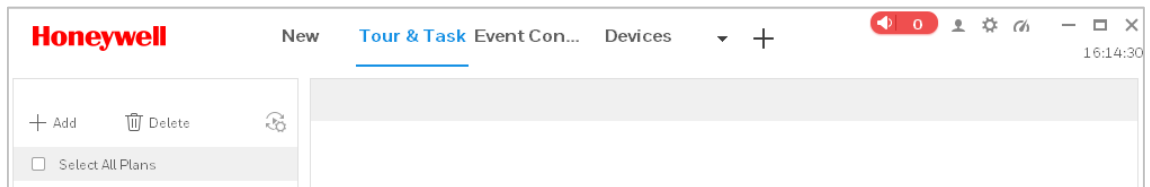
## Tour & Task

You can set task plan and monitor tour among different windows.



Click  on the **SETTINGS** pane in [Figure 3-2](#) to go to the following interface:

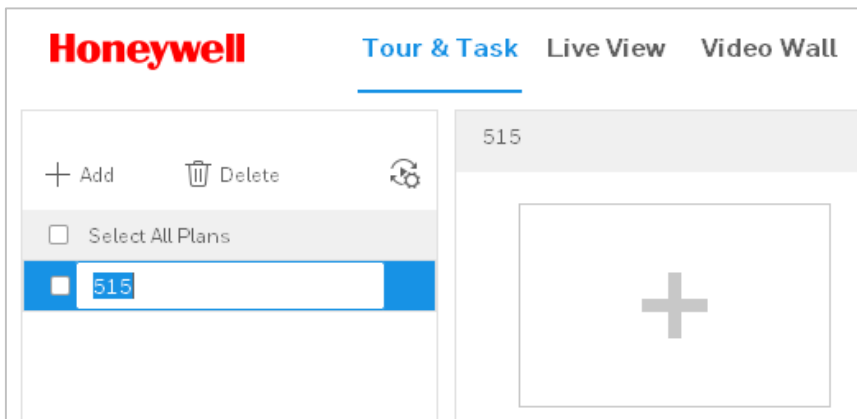
**Figure 3-31**



## Adding a Task Plan

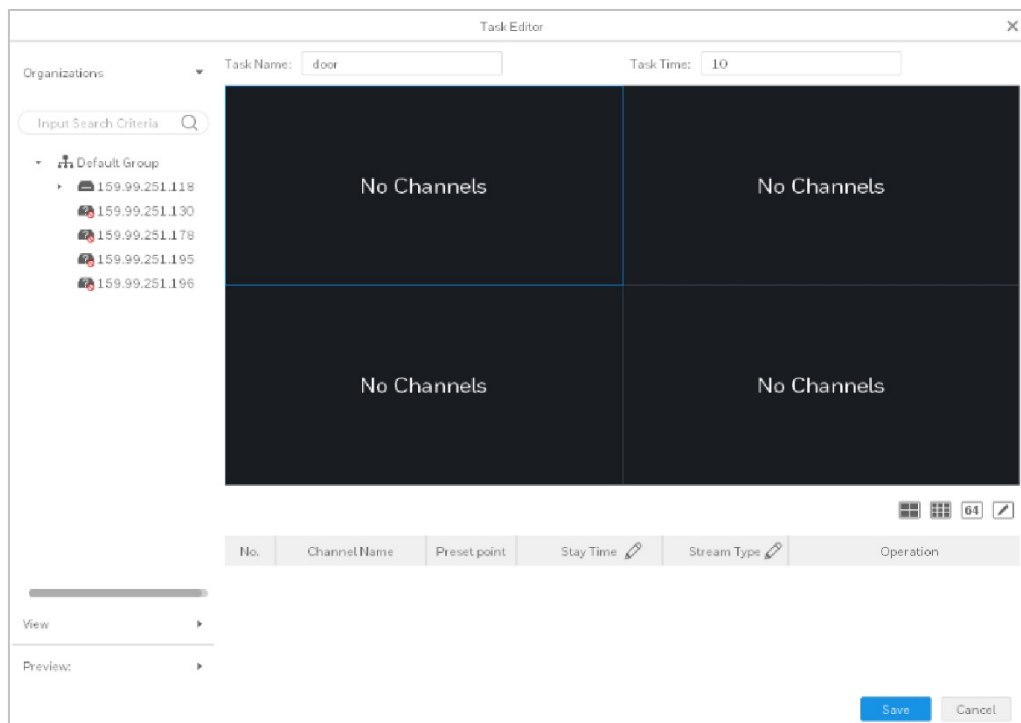
1. Click **Add** and the following interface is displayed:

Figure 3-32



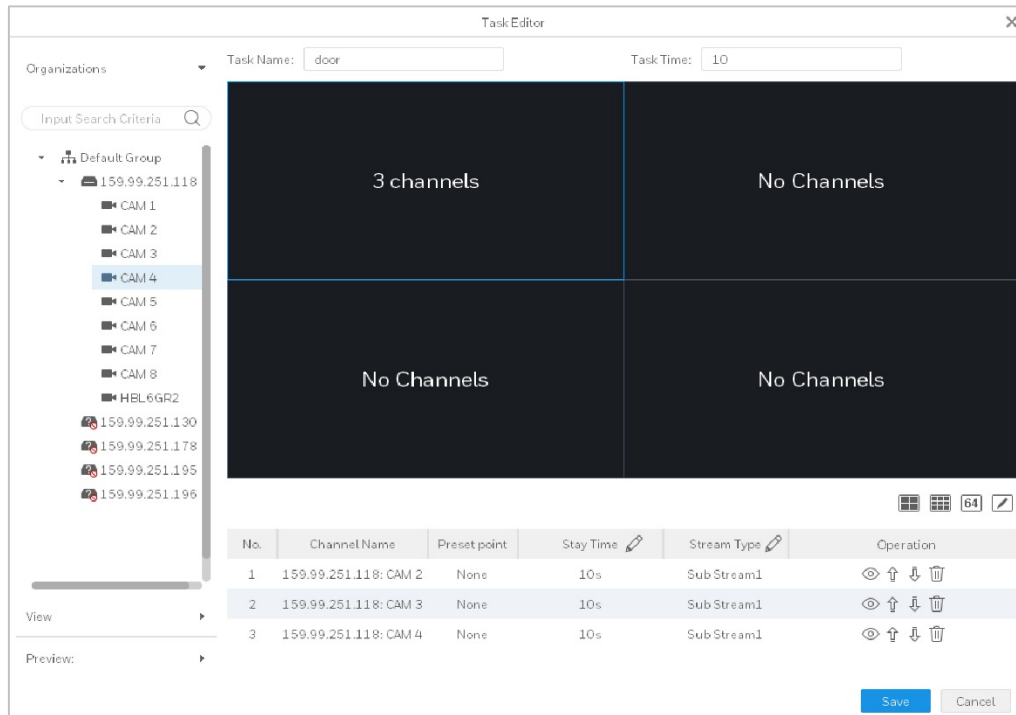
2. Enter the name of the new task plan.
3. Set the task.
  - a. Click **+** in [Figure 3-32](#) and the following interface is displayed:

Figure 3-33



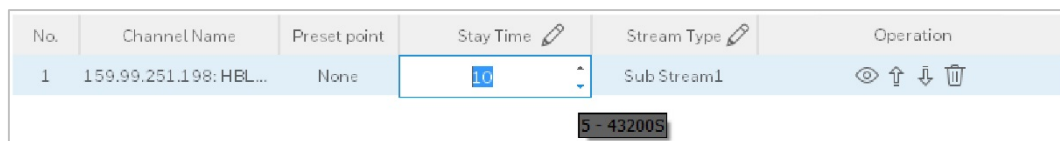
- b. Enter the task name and the task time.
- c. Click to set the window layout.
- d. Drag device(s) on the left pane to the video window. The following interface is displayed:

Figure 3-34



- e. Set the preset point, stay time and stream type by double clicking the corresponding field.

Figure 3-35







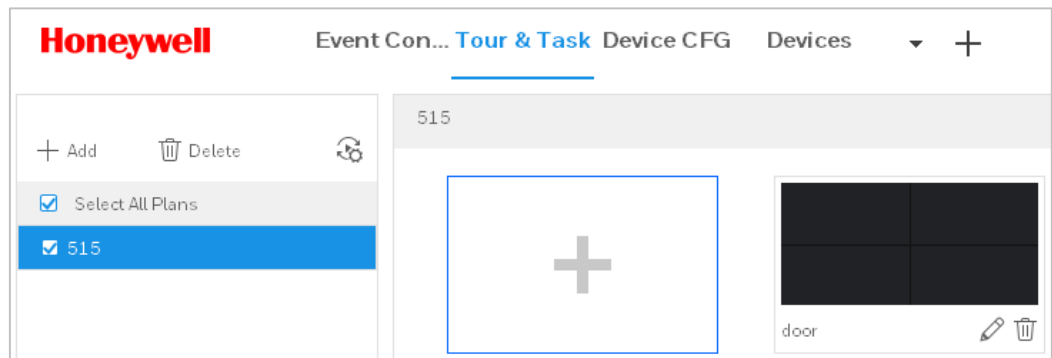
- Click  to display the live view or e-map information in the left live view window.
  - Click  or  to adjust the device order in the task. The device order determines the corresponding video order played in the task.
  - Click  to delete the corresponding device.
- f. Click **Save** to save the current settings and the new task plan is displayed in the Tour & Task interface.

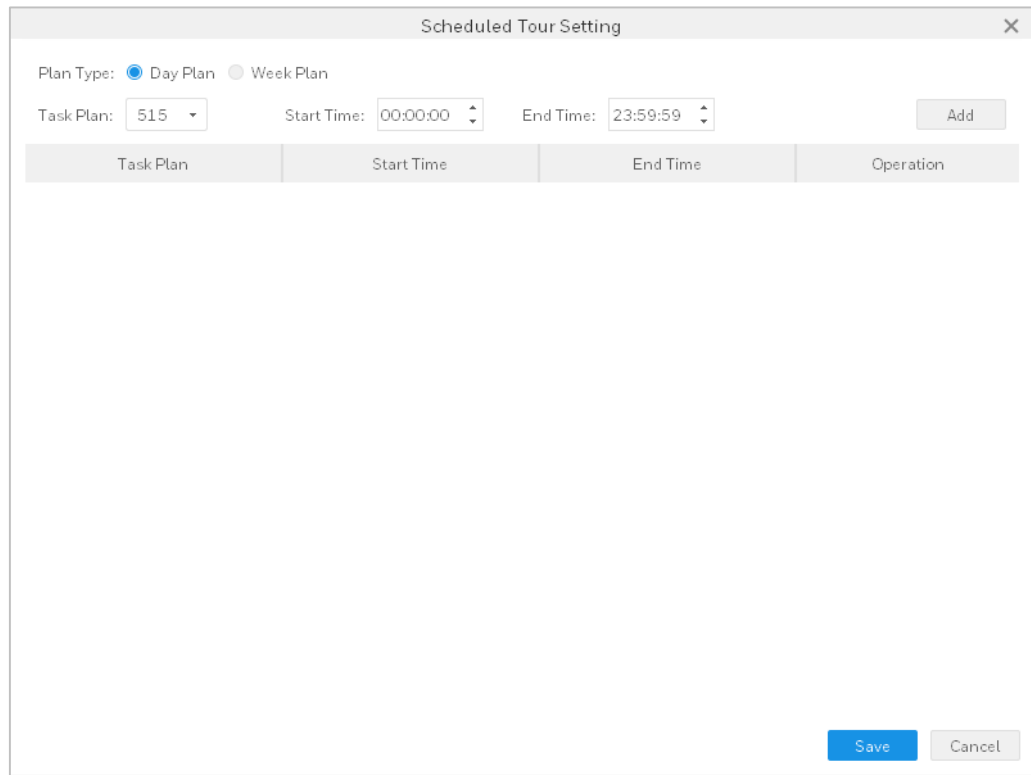
Figure 3-36



4. Set the tour schedule.

a. Click  and the following interface is displayed:

Figure 3-37



- b. Select Plan Type.
- c. Select the Task Plan from the dropdown list.
- d. Set the start time and end time.
- e. Click **Add**.

Figure 3-38

Scheduled Tour Setting

Device Type:  Day Plan  Week Plan

Task Plan: 515 Start Time: 04:00:00 End Time: 05:44:59 Add

Task Plan	Start Time	End Time	BASIC
515	04:00:00	05:44:59	X

5. Click **Save** to complete the task plan adding.

## Modifying a Task Plan

To modify a task plan, double click the task plan name or click  in [Figure 3-36](#).

## Deleting a Task Plan

To delete a task plan, click  in [Figure 3-36](#).

## System Configuration

You can set up basic information, live view, playback, event, log, system, language and etc.


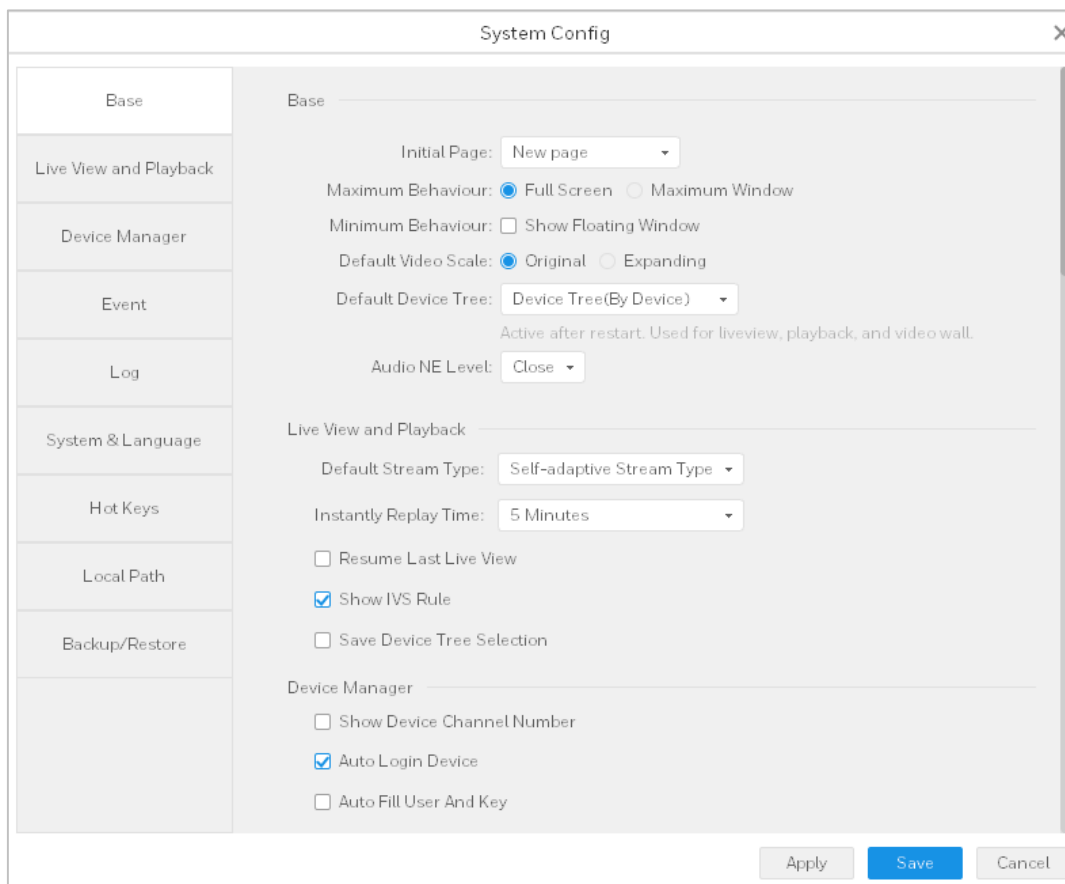
Click  on the main interface (see [Figure 3-1](#)) to go to the system configuration interface:

Figure 3-39



Refer to the following table for detailed information.

Table 3-5

Menu	Parameter	Description
Base	Initial Page	Select from the drop-down list to set up the page shown when you open the software.
	Maximum Behavior	Select the options that how the video window can be maximized.
	Minimum Behavior	Check this option to display floating window when the software is minimized.
	Default Video Scale	Select from the drop-down list to set up the default ratio of the live view or playback video.
	Default Device Tree	Select from the drop-down list to set up in which order the devices are listed, by device or by channel.

	<b>Audio NE Level</b>	Select from the drop-down list to set up the audio NE level.
	<b>Default Stream Type</b>	Select from the drop-down list to set up the default stream type.
	<b>Instantly Replay Time</b>	Select from the drop-down list to set up the instant replay time of the live view screen.
<b>Live View and Playback</b>	<b>Resume Last Live view</b>	Check this option, system records the video window status when it is logging out, and resume the video when it is logged in the next time.
	<b>Show IVS Rule</b>	Check this option to enable the IVS rule option in the right-click menu.
	<b>Save Device Tree Selection</b>	Check this option to save the device as selected status after the video searching.
<b>Device</b>	<b>Show Device Channel Number</b>	Check this option to show the device channel number.
	<b>Auto Login Device</b>	Check this option, the system automatically logs in the added device when the system is restarted.
	<b>Auto Fill User and Key</b>	Check this option, the system automatically logs in the added device without manually enter the username and password.
	<b>Loop</b>	Check this option to enable looping alarm when an event occurs.
<b>Event</b>	<b>Global Wav</b>	<ul style="list-style-type: none"> <li>• Check this option and select one audio file for all kinds of alarms.</li> <li>• Uncheck this option and select different types of audio file for different kinds of alarms.</li> </ul>
	<b>SMTP</b>	Check this option and the system will send an email when an event occurs.
<b>Log</b>	<b>Log Saved Time</b>	Enter a number in the field to set up the log saved time.

<b>System and Language</b>	<b>Network Ability</b>	Select the actual network performance from the drop-down list.
	<b>Auto Check Time</b>	Check this option to set up from what time to start synchronizing the device time with your local PC time.
	<b>Check Time</b>	Click it to synchronize the device time with your local PC time immediately.
	<b>Language</b>	Select from the drop-down list to set up the language of the system.
<b>Hotkeys</b>		Double click the hotkey column and then enter the hotkey on the keyboard to set up the hotkey.
<b>Local Path</b>	<b>Pic Path</b>	Click it to set up the picture storage path.
	<b>Record Path</b>	Click it to set up set the recording storage path.
<b>Backup/Restore</b>	<b>Backup</b>	Click Backup to back up the configuration.
	<b>Restore</b>	Click Restore and select the configuration file to restore the configuration.



# 4 Live View

This chapter contains the following sections:

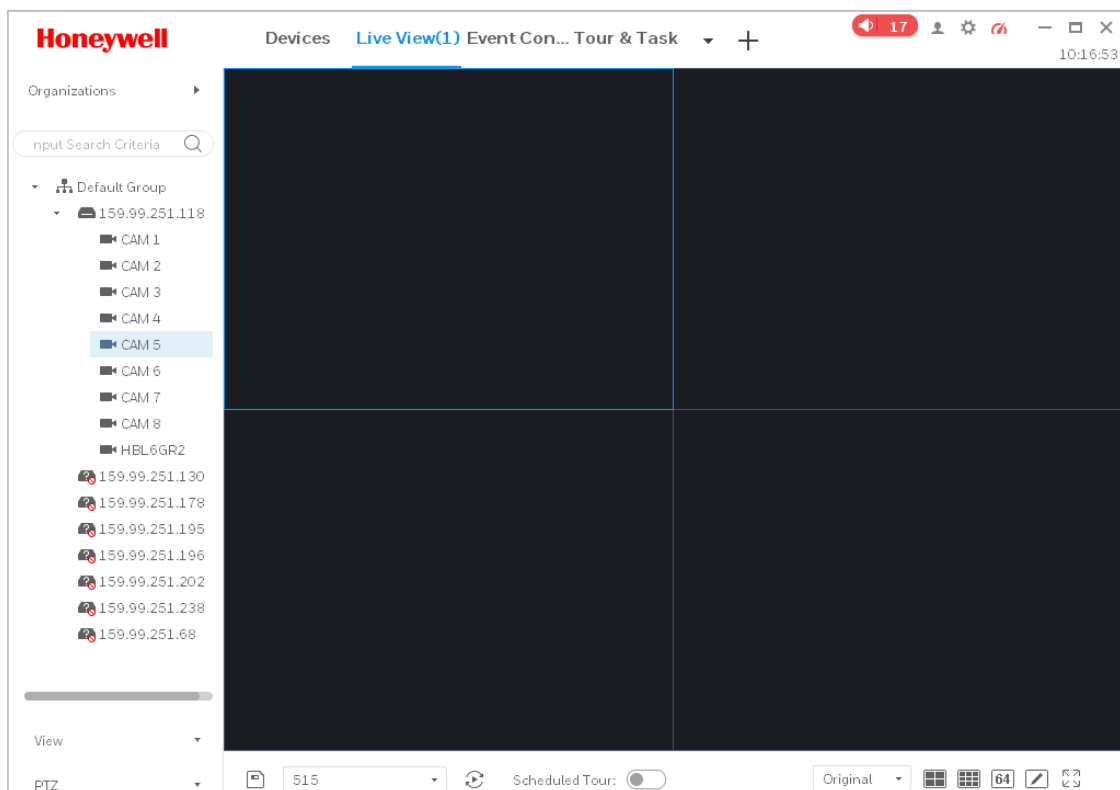
- [Live Viewing](#) on page 40.
- [Video Settings](#) on page 42.

After devices are added, you can check the live view from the connected devices and modify the video settings.



Click **Live View** on the **Operation** pane in [Figure 3-2](#) to go to the following interface:

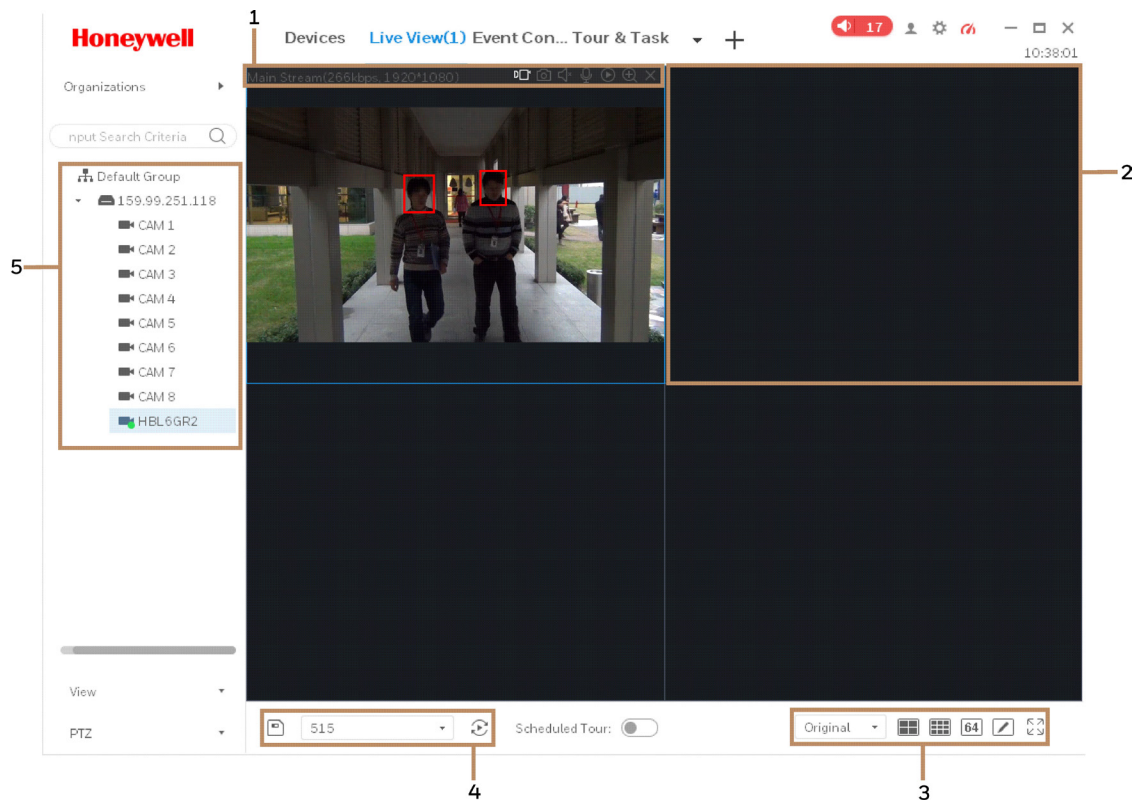
Figure 4-1



# Live Viewing

Select a window and double click a camera on the left pane or drag it to the window to view the video.
















Figure 4-2



If the camera is face detection supported and has been setup properly, the faces appeared in the live video will be framed with square as shown in [Figure 4-2](#). For more information on face detection setup, see [Performance Series IP Cameras Configuration Guide](#).

Refer to the following table for detailed information.

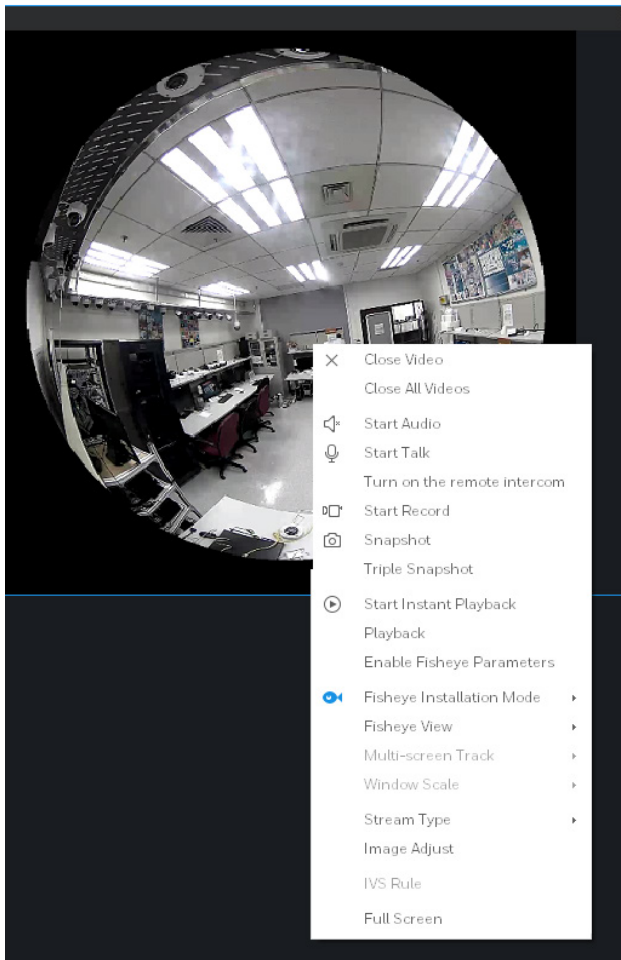
Table 4-1

SN	Item	Description
1	Bit stream information and shortcut operation menu	<ul style="list-style-type: none"> <li>: Local Record.</li> <li>: Snapshot.</li> <li>: Audio.</li> <li>: Audio Talk.</li> <li>: Instant Replay.</li> <li>: Zoom In</li> <li>: Close the video.</li> </ul>
2	Video Window	Real-time video
3	Window Layout	<p>   : Click it to set 4-window, 9-window and 64-window layout.</p> <p> : Select a window layout and then click this button to customize its setup.</p> <p><input type="text" value="Original"/> : Adjust the video scale.</p> <p> : Full screen.</p>
4	Intelligent Button	<p> : Save the current liveview window layout as a view. You can double click the view name to recall the window layout under <b>View</b> tab.</p> <p> : Start tour plan. See <a href="#">Tour &amp; Task</a> on page 31.</p> <p> : Close tour plan.</p>
5	PTZ (PTZ dome cameras or fisheye cameras)	<p>You can set camera direction, zoom in, zoom out, and iris, etc.</p> <p>Click <b>More Functions</b> to set Preset, Tour, Pan, Scan, Pattern, Aux and Wiper.</p>
6	Device List	Right click a device to select main stream/sub stream, modify the channel name or go to the configuration interface.

## Video Settings

Right click a live view window and the following window is displayed:

**Figure 4-3**



Select corresponding options to set the video. Options varies according to different channels.

**Table 4-2**

Item	Function
Close Video	Close current window.
Close All Videos	Close all windows.
Start Audio	Enable audio function.
Start Talk	Enable bidirectional talk function between camera and HDCS.
Turn on the remote intercom	Enable bidirectional talk function between camera connected via NVR and HDCS.

Item	Function
Start Record	Save audio/video of current window to a record file.
Snapshot	Snapshot current window. Click it to save one picture.
Triple Snapshot	Snapshot current window. Click it to save three pictures by default.
Start Instant Playback	Enable instant playback in current window.
Playback	Go to the playback interface to playback record of current window.
Enable Fisheye Parameters	Enable the Fisheye dewarping function for Fisheye cameras.
Fisheye Installation Mode	Select a fisheye installation mode, including ceiling mount, wall mount and ground mount.
Fisheye View	<p>Select a fisheye view mode.</p> <p><b>Ceiling mount:</b> 1O, 1P+1R, 2P, 1O+2R, 1O+3R, 1O+4R, 1P+6R, 1O+8R</p> <p><b>Wall mount:</b> 1O, 1P, 1P+3R, 1P+4R, 1P+8R</p> <p><b>Ground Mount:</b> 1O, 1P+1R, 2P, 1O+3R, 1O+4R, 1P+6R, 1O+8R</p> <p>(<b>O</b>: Original image; <b>R</b>: Regional image, <b>P</b>: Panoramic image)</p> <p>In Regional image, you can zoom in or out and move the image in all directions.</p> <p>In Panoramic image, you can drag the image to the left or to the right.</p>
Multi-screen Track	Select a multi-screen mode, including Normal Mode, 1+3 Mode and 1+ 5 Mode.
Window Scale	Select a window scale, including Original, Full-Win, 1:1, 4:3, 3:4, 5:4, 4:5, 16:9, 9:16, 64:9 and 9:64.
Stream type	Switch between main stream and sub stream
Image Adjust	Set video brightness, contrast, hue and saturation.
IVS Rule	Click to display IVS Rule on the screen.
Full-screen	Switch to full screen mode. You can double click video window or right click mouse and then select exit full screen or press Esc to exit.

# 5 Playback

This chapter contains the following sections:

- [Playing Back the Device Recordings](#) on page 46.
- [Playing Back the Device Pictures](#) on page 51.
- [Playing Back the Local Recordings](#) on page 52.
- [Playing Back the Local Pictures](#) on page 54.
- [Exporting the Device Recordings](#) on page 54.
- [Exporting the Device Pictures](#) on page 55.
- [Exporting the Local Recordings](#) on page 56.

You can playback the recordings or pictures that stored in the devices or in the local directory and export them to local computer.



Click **Playback** on the **Operation** pane in [Figure 3-2](#) to go to the following interface:

Figure 5-1

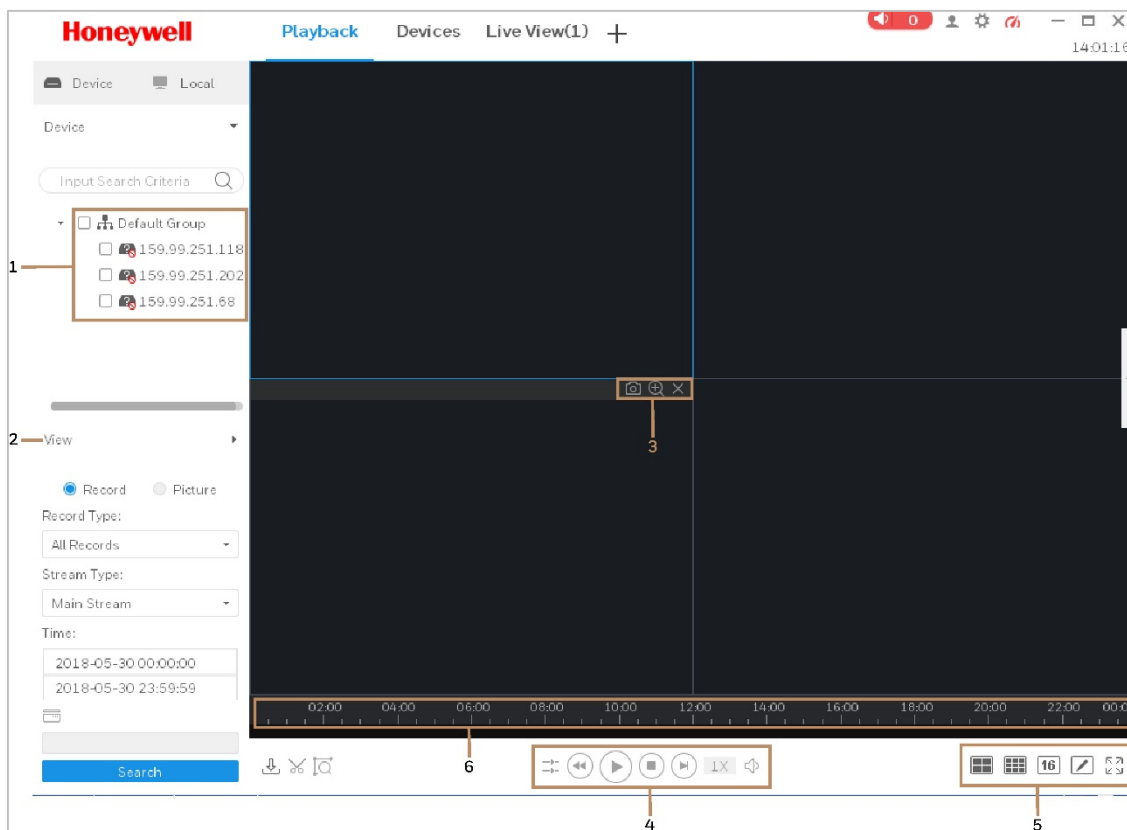

















Table 5-1

SN	Item	Description
1	Device List	Right click the device and select <b>Logout</b> to disconnect the device. After logging out, right click the device and select <b>Login</b> to reconnect to the device.
2	View	Play back videos with certain window layout. See <b>Intelligent Buttons</b> of <a href="#">Figure 4-1</a> .
3	Window Shortcut Key	 : Snapshot.  : Digital zoom  : Close the current window.

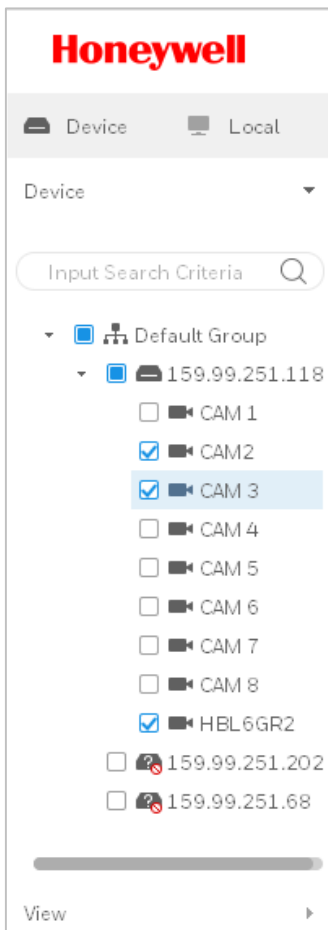
4	<b>Playback Control</b>	<ul style="list-style-type: none"> <li>•  : Switch playback and pause.</li> <li>•  : Stop playback.</li> <li>•  : Play back forward frame by frame.</li> <li>•  : Adjust the playback speed.</li> </ul> <p><b>Note:</b> the playback speed is subject to the capacity of bandwidth. If it is unable to perform 16x playback, check and upgrade the bandwidth capacity accordingly.</p> <ul style="list-style-type: none"> <li>•  : Turn on/off the audio and adjust the volume.</li> <li>•  : Play back videos of all windows from the same point of time.</li> <li>•  : Play back the selected window only.</li> </ul>
5	<b>Window Layout</b>	<ul style="list-style-type: none"> <li>•    : Set 4-window, 9-window or 64-window layout.</li> <li>•  : Select a window layout and click this button to customize the window layout.</li> <li>•  : Full screen.</li> </ul>
6	<b>Time Bar Control</b>	<p>Scroll mouse to zoom in /zoom out the timeline.</p>

## Playing Back the Device Recordings

1. Click **Device** option and select device(s) in the **Device** list or a view in the **View** list.

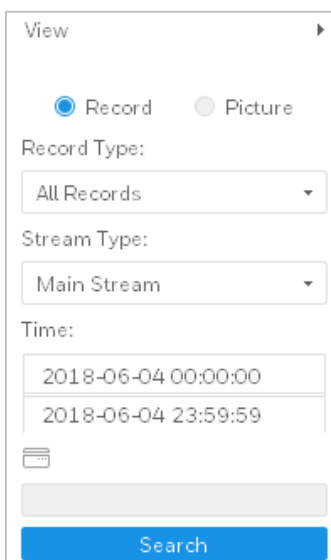


Figure 5-2



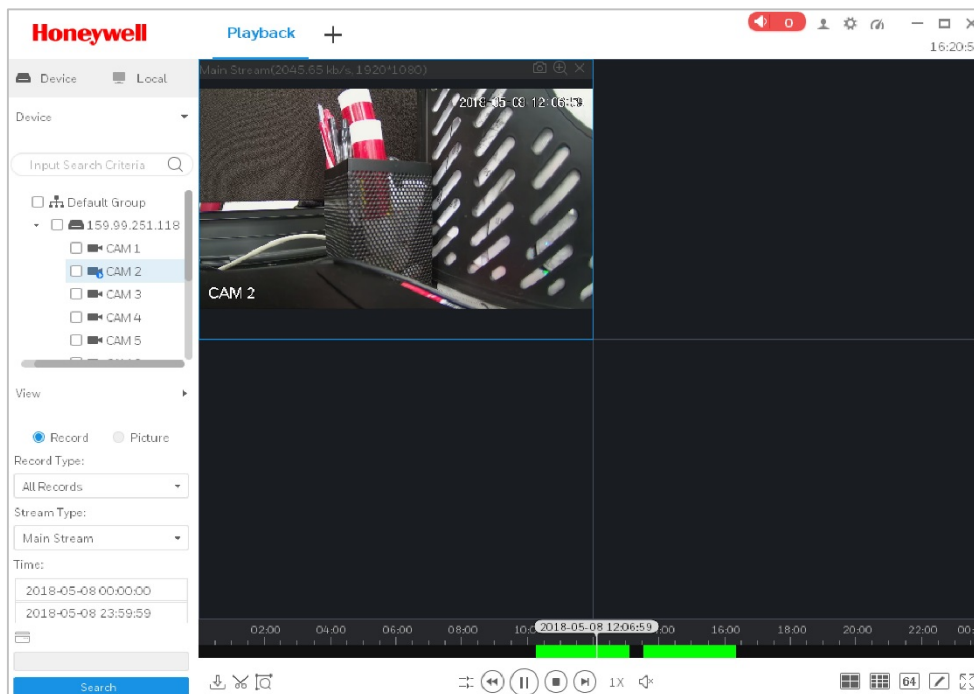
2. Select the **Record** option under the **View** list and set the record type, stream type, start time and end time.

Figure 5-3



3. Click **Search** to search the recording and click  to play the recording.

Figure 5-4



## Smart Search


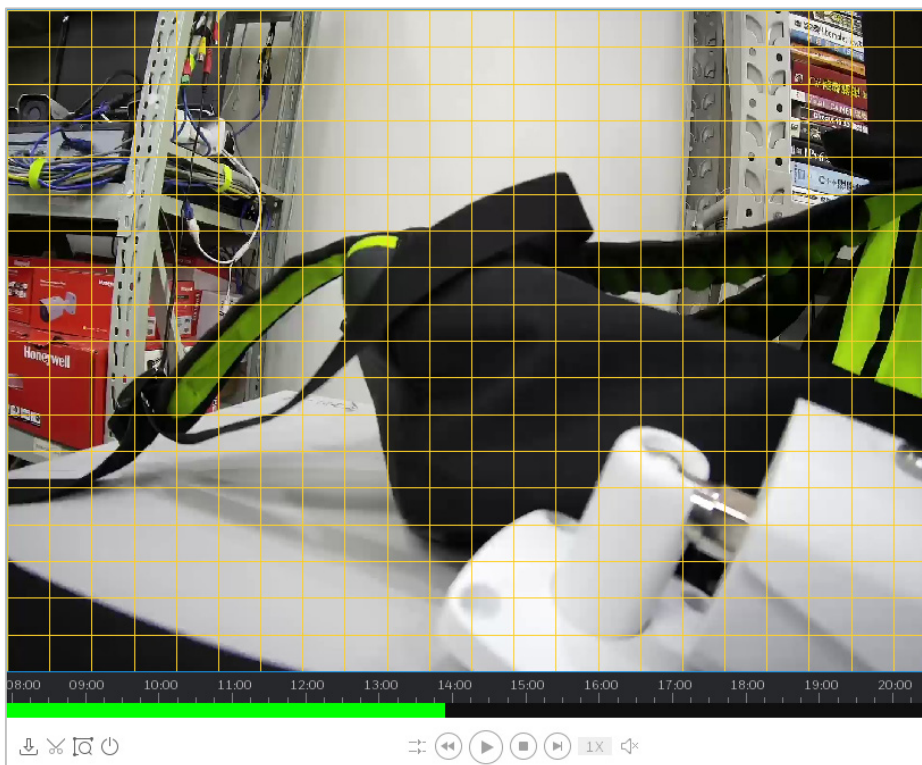
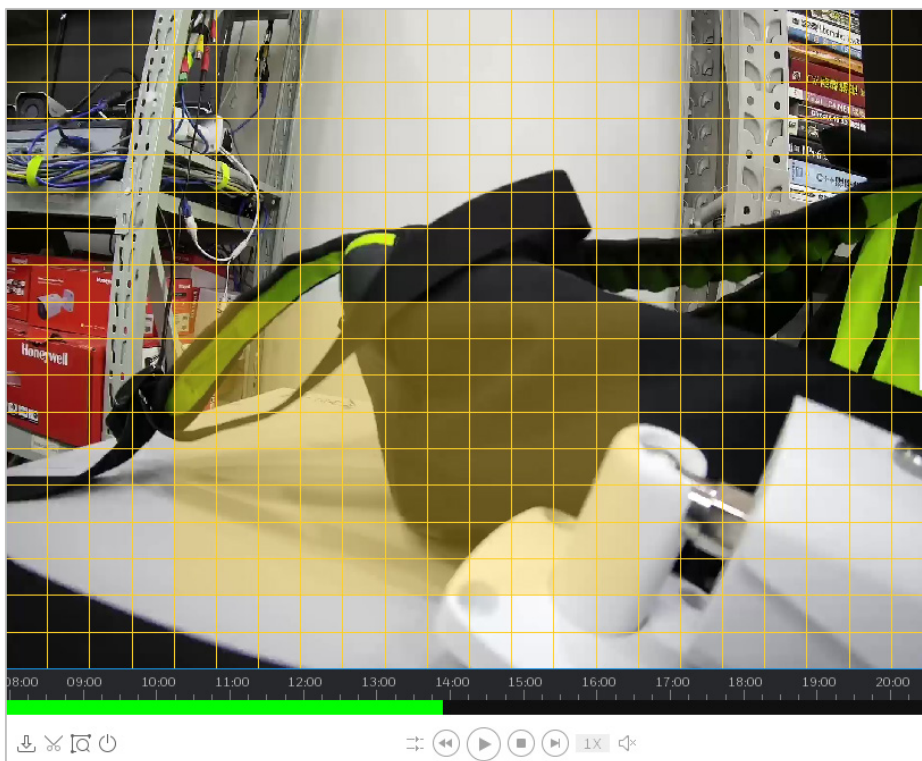
1. Click  at the bottom of [Figure 5-4](#) to smart search motion detection. System shows motion detection window:


Figure 5-5



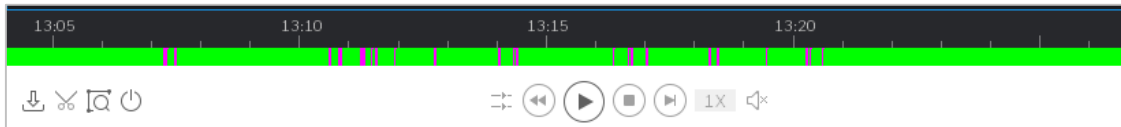
2. Drag an area as a motion detection time range.



Figure 5-6



- Click  again to search the motion detection video within the time. The purple areas on the time bar in [Figure 5-7](#) represent the motion detection videos found.

**Figure 5-7**

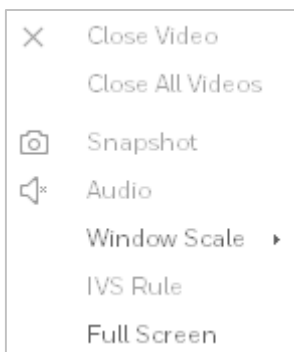


- Click  to play the motion detection video.
- Click  to exit smart search.

## Video Settings

Right click a playback window and the following window is displayed:

**Figure 5-8**



Refer to the following table for detailed information.

**Table 5-2**

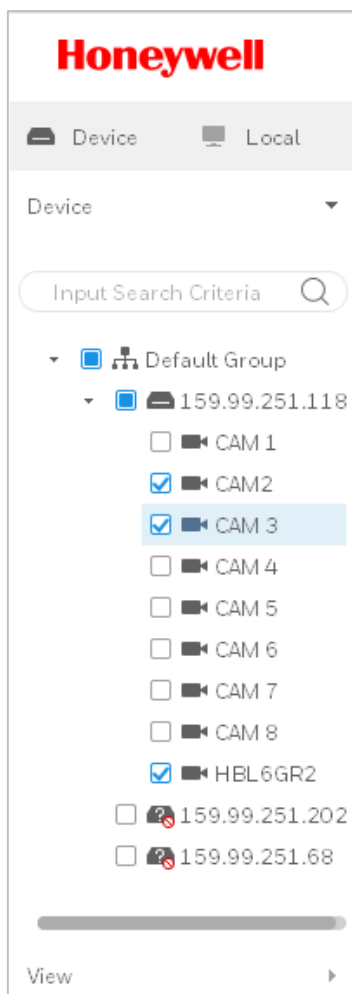
Item	Function
<b>Close Video</b>	Close the window.
<b>Close All Videos</b>	Close all the windows.
<b>Snapshot</b>	Snapshot current window and save one picture.
<b>Audio</b>	Enable/disable audio function.
<b>Window Scale</b>	Adjust window scale. Right click the playback window and select the video aspect ratio from the window scale menu.
<b>IVS Rule</b>	Enable / disable the IVS function.

Item	Function
Full Screen	Switch to full screen mode. You can right click the window and select <b>Exit Full Screen</b> or press <b>Esc</b> to exit.

## Playing Back the Device Pictures

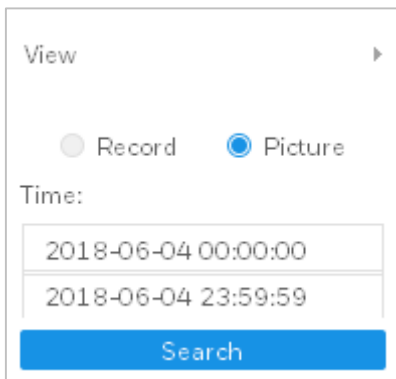
1. Click **Device** option and select device(s) in the **Device** list or a view in the **View** list.

Figure 5-9



2. Select the **Picture** option under the **View** list and select the start time and end time.

Figure 5-10




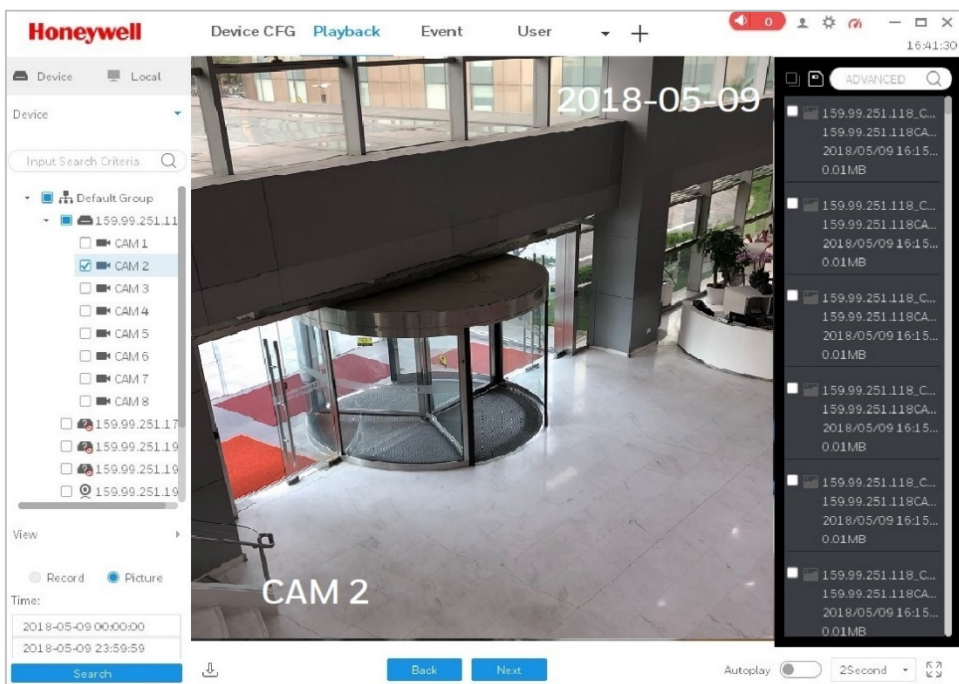

3. Click **Search** to search the recordings and click  on the right to expand or collapse the result list.

Figure 5-11

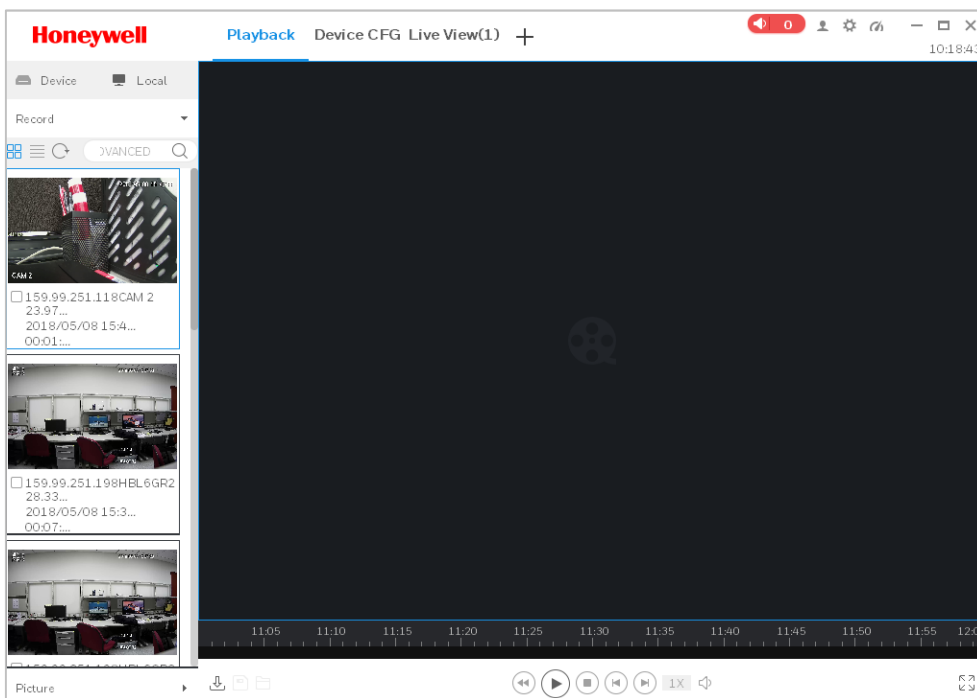


4. Click **Back** or **Next** to view pictures manually or click  and set the time interval to view pictures automatically.

## Playing Back the Local Recordings

1. Click the **Local** option in [Figure 5-1](#) and click the **Record** tab to expand the recording list.

Figure 5-12







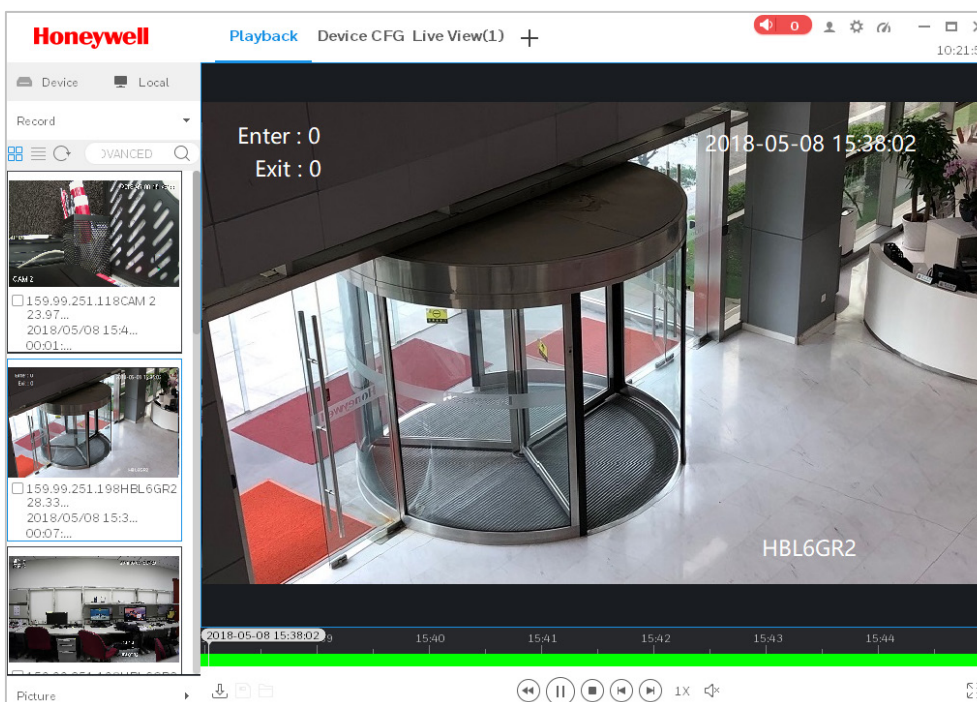
2. Click  or  to switch the displaying mode between list and thumbnail. Click  to refresh the list.
3. Check a recording and click  to play back.

Figure 5-13

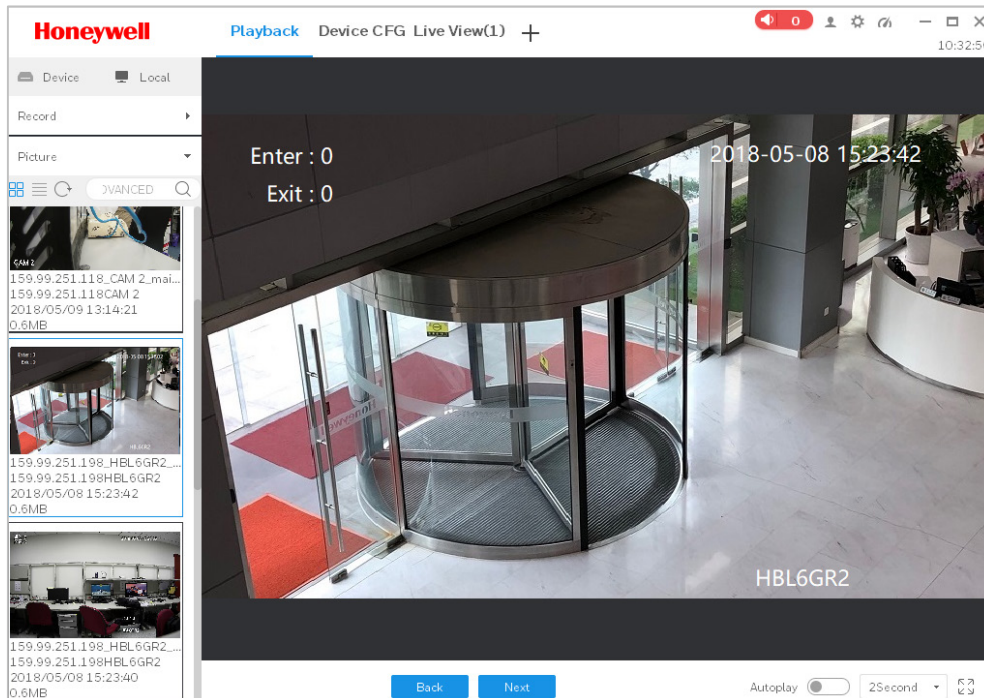




## Playing Back the Local Pictures

1. Click the **Local** option in [Figure 5-1](#) and click the **Picture** tab to expand the picture list.

Figure 5-14



2. Click **Back** or **Next** to view pictures manually or click **Autoplay**  and set the time interval to view pictures automatically.

## Exporting the Device Recordings

Refer to step 1-6 of [Playing Back the Device Recordings](#) on page 46 to play back the recordings.


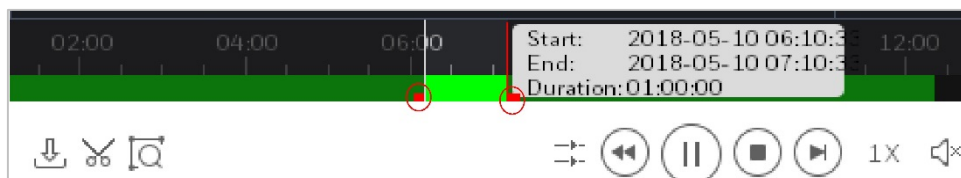
7. Click  and the system randomly selects a recording clip (1-hour by default). Drag the red dot (circled in red) to adjust the start time and the end time of the recording.

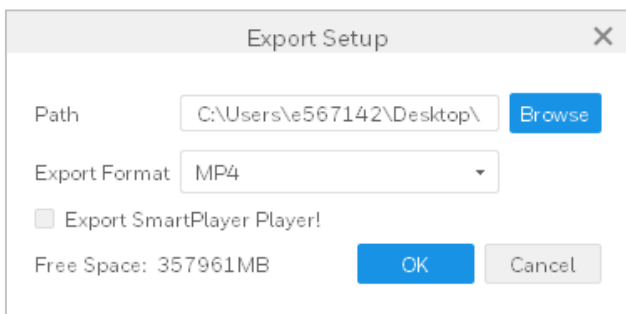
Figure 5-15



8. Click  again to export the recording clip.



Figure 5-16




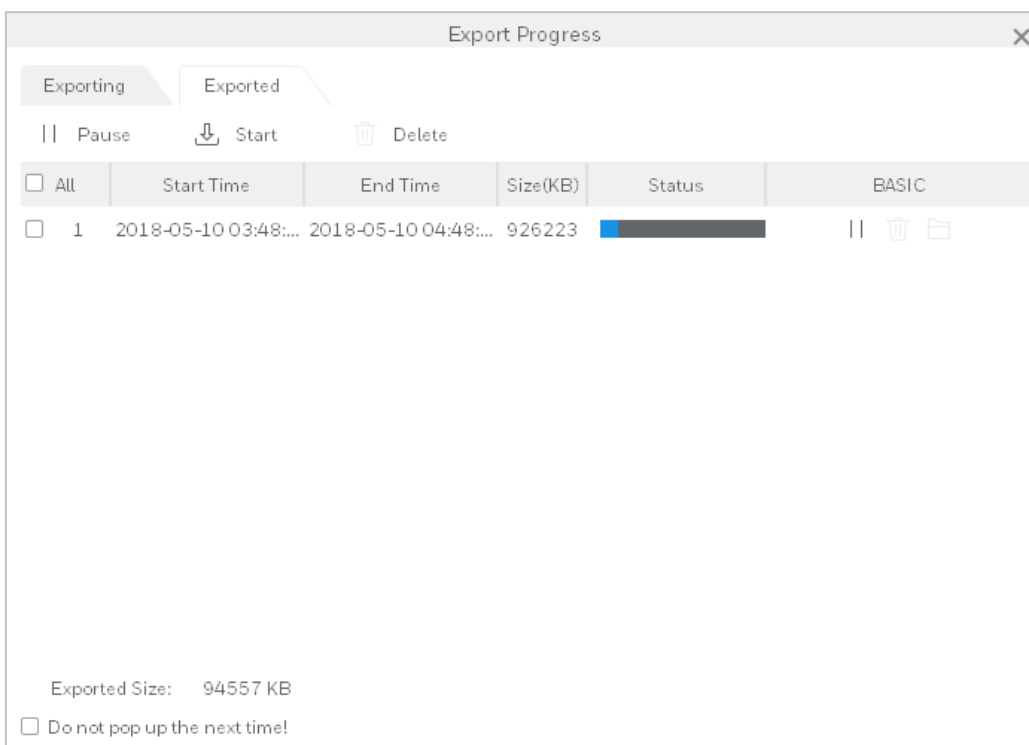
9. Set the storage path and set the export format as **MP4** and click **OK**. Check the below Export SmartPlayer Player to download and install Smart Player if needed.
10. Click  in [Figure 5-15](#) to check the exporting progress and the exported items.

Figure 5-17

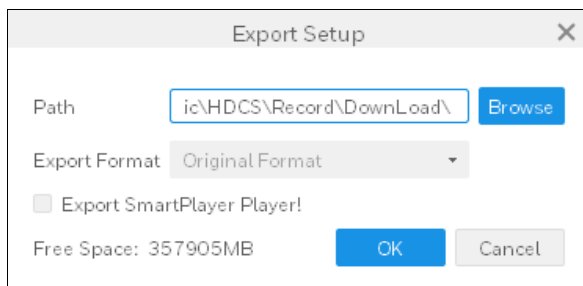



## Exporting the Device Pictures

Refer to step 1-6 of [Playing Back the Device Pictures](#) to play back the pictures.

7. Select the target picture(s) and click . The following window is displayed:

Figure 5-18



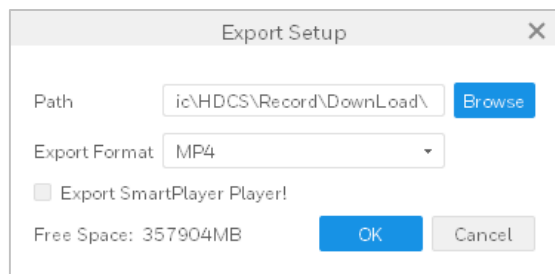
8. Set the storage path and click **OK**. Check the below Export SmartPlayer Player box to download and install Smart Player if needed.
9. Click  to check the exporting progress and the exported items.


## Exporting the Local Recordings

Refer to step 1-3 of [Playing Back the Local Recordings](#) on page 52 to play back the recordings.

4. Select the target recordings and click , the following window is displayed:

Figure 5-19



5. Set the storage path and set the exported format as **MP4** and click **OK**. Check the below Export SmartPlayer Player box to download and install Smart Player if needed.
6. Click  to check the exporting progress and the exported items.

# 6 Log

This chapter contains the following sections:

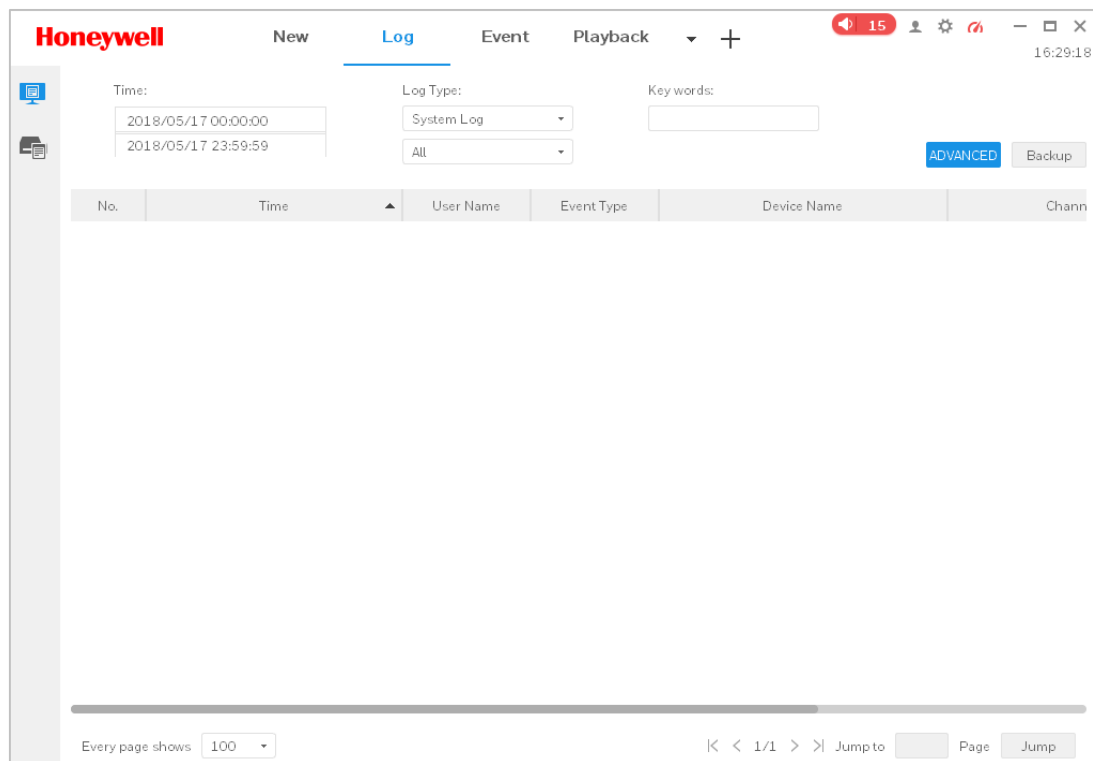
- [Client Log](#) on page 58.
- [Device Log](#) on page 58.

You can search and back up the client log or the device log.




Click **Log** on the **Operation** pane in [Figure 3-2](#) to go to the following interface:


**Figure 6-1**



## Client Log

1. Click  in *Figure 6-1*.
2. Set the start time, end time, log type and device.
3. Click **Search**.
4. Click **Backup** to back up all the log to local directory.

## Device Log

1. Click  in *Figure 6-1*.
2. Set the start time, end time, log type and key words.
3. Click **Search**.
4. Click **Backup** to back up all the log to local directory.

# 7 Search

This chapter contains the following sections:

- [Video Wall](#) on page 59.
- [E-Map](#) on page 66.
- [People Counting](#) on page 75.
- [Heat Map](#) on page 76.

## Video Wall

Video can be output on video wall if video wall configuration is set.

---

**Note**

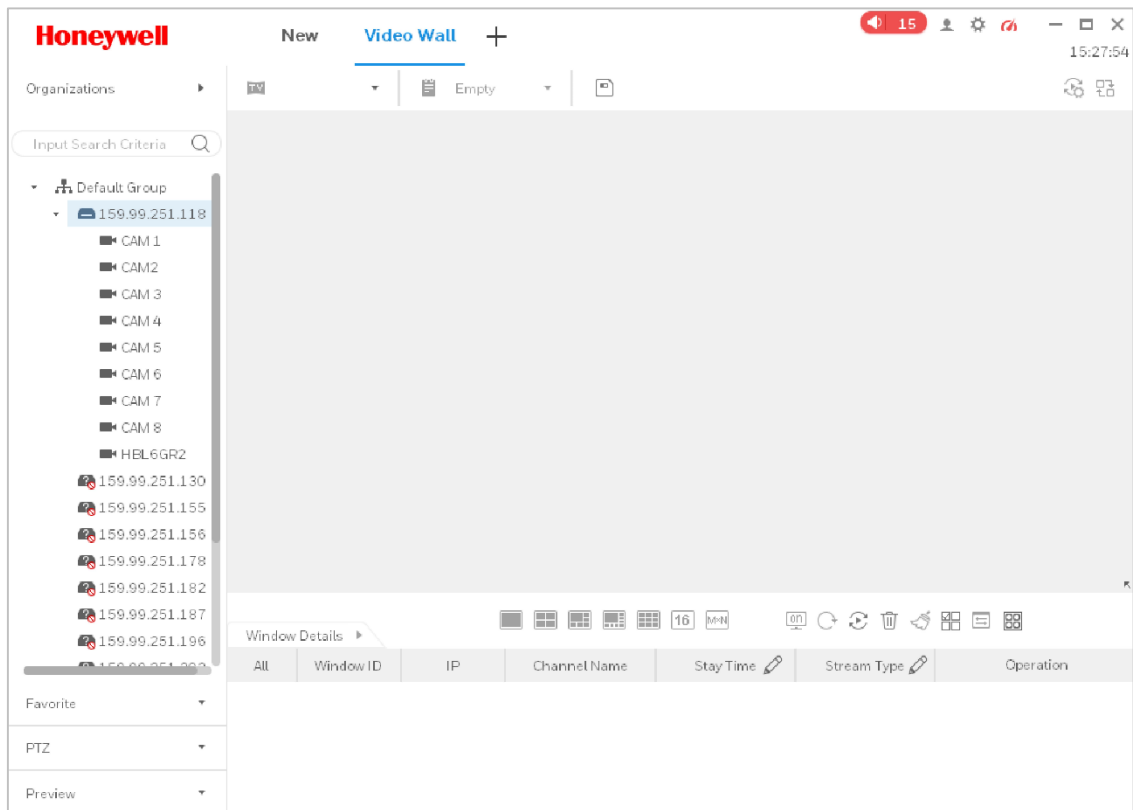
To operate the video wall function, decoder(s) must be connected to the system in advanced..

---



Click **Video Wall** on the **Search** pane in [Figure 3-2](#) to go to the following interface.

Figure 7-1

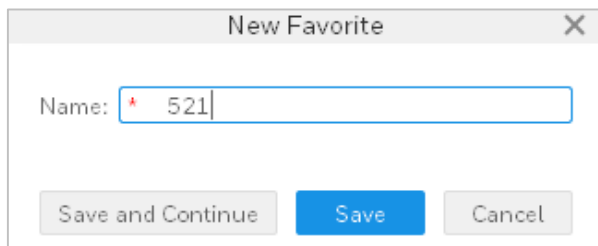


## Configuring the Favorite

### Adding a Favorite

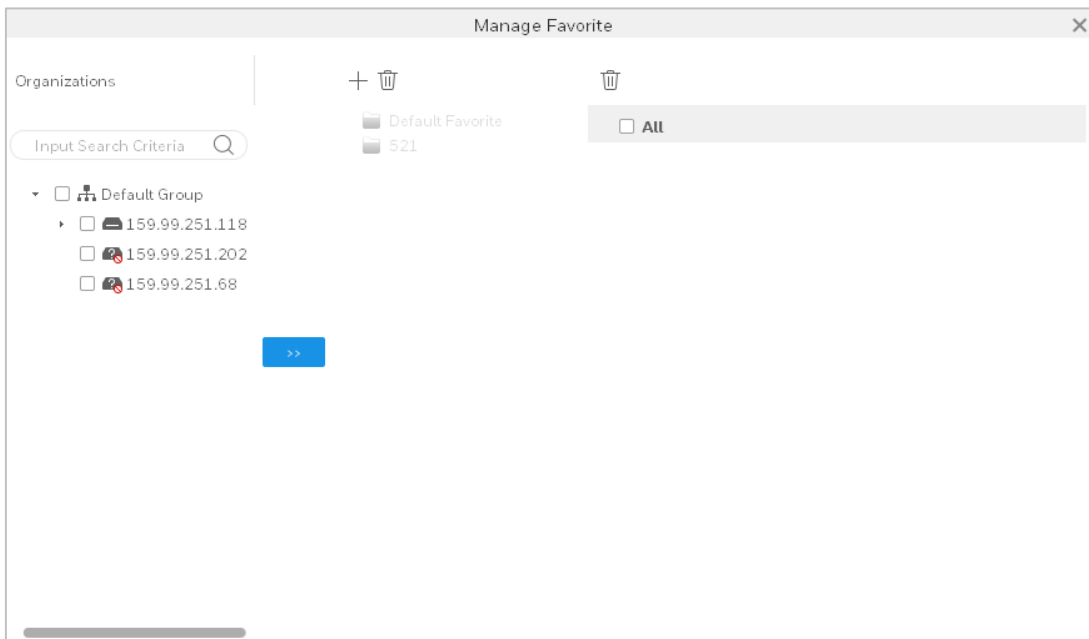
1. Click the **Favorite** tab in [Figure 7-1](#) and click **New Favorite**. The following window is displayed:

Figure 7-2



2. Enter the favorite name and click **Save**. The newly added favorite is displayed in the favorite list. Click **Save and Continue** to add another favorite.
3. Right click the favorite name and select **Manage Favorite**. The following interface is displayed:

Figure 7-3




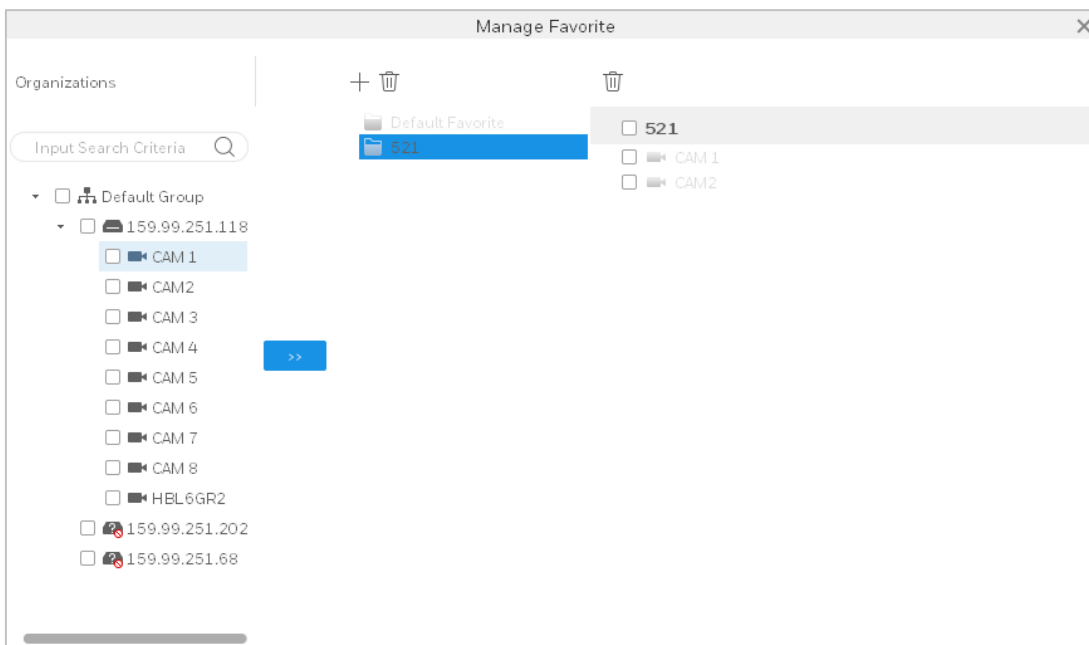

4. Select device(s) from the organization list on the left pane and select a favorite folder on the middle pane. Click  to add the device(s) to the favorite folder.


Figure 7-4



5. Click  to exit the **Manage Favorite**.

### Deleting a Favorite

Perform one of the following two methods to delete a favorite.

- Select a favorite folder on the middle pane in [Figure 7-4](#) and click  above.
- Right click a favorite name in [Figure 7-1](#) and select **Delete Favorite**.


---

**Note** The default favorite folder cannot be deleted.

---

### Deleting a Device in a Favorite

Perform one of the following two methods to delete a device in a favorite.

- Select a favorite folder on the middle pane in [Figure 7-4](#) and select device(s) under the favorite on the right pane, and then click  above.
- Right click a device name in a favorite in [Figure 7-1](#) and select **Delete View**.

### Modifying a Favorite Name

Right click a favorite name in [Figure 7-1](#) and select **Change Favorite Name**.

## Setting the Video Wall and Output

Before setting the video wall, make sure the decoder is correctly added.



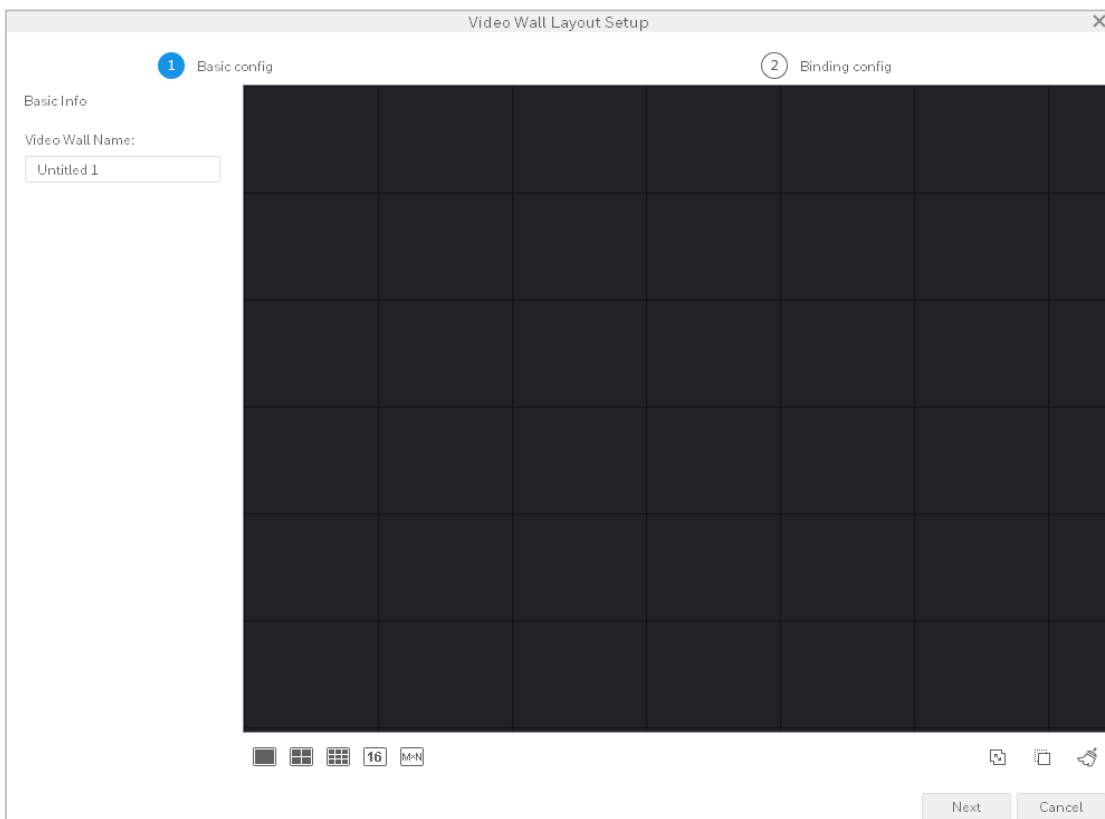
1. Click  in [Figure 7-1](#) and then click . The following interface is displayed:



Figure 7-5








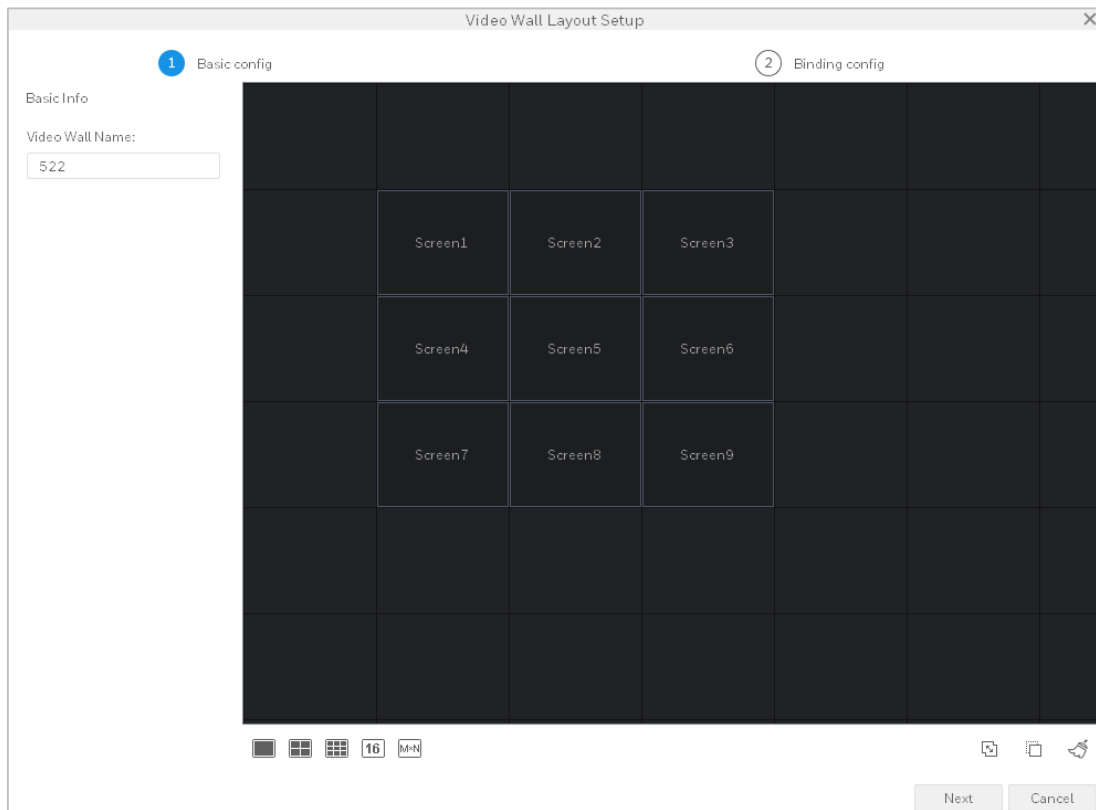
2. Enter the video wall name on the left pane.
3. Set the video wall layout:
  - a. Click      to select the number of screens and click anywhere of the window to place the screens to the desired area. You can set the layout by dragging each screen.

Figure 7-6






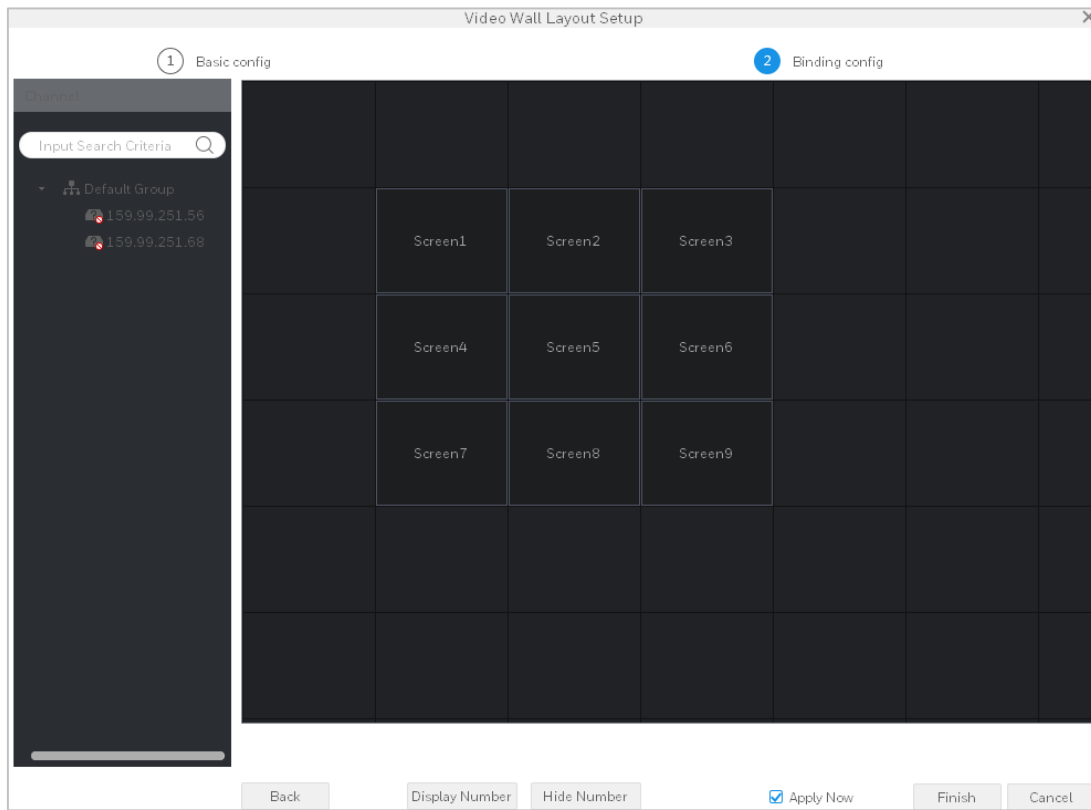
- Click  to splice screens which are next to each other.
  - Click  to cancel splicing the screens.
  - Click  to remove all the screens and layouts.
4. Click **Next** and the following interface is displayed:


Figure 7-7



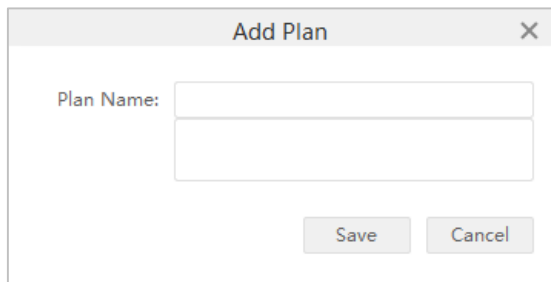
5. Drag an encoder on the left pane to a screen. Repeat this operation to bind the rest encoders and screens.
  - To show the screen No., click **Display Number**.
  - To hide the screen No., click **Hide Number**.
  - To unbind the screen to a decoder, right click the screen and select **Cancel Binding**.
6. Click **Apply Now** to apply the settings immediately and the interface turns to the video wall. Click **Finish** to complete the settings.

## Setting a Tour


Perform the following steps to set up a tour.

1. Select a video wall layout in [Figure 7-1](#) and bind it to devices.
2. Click .and the following window is displayed:

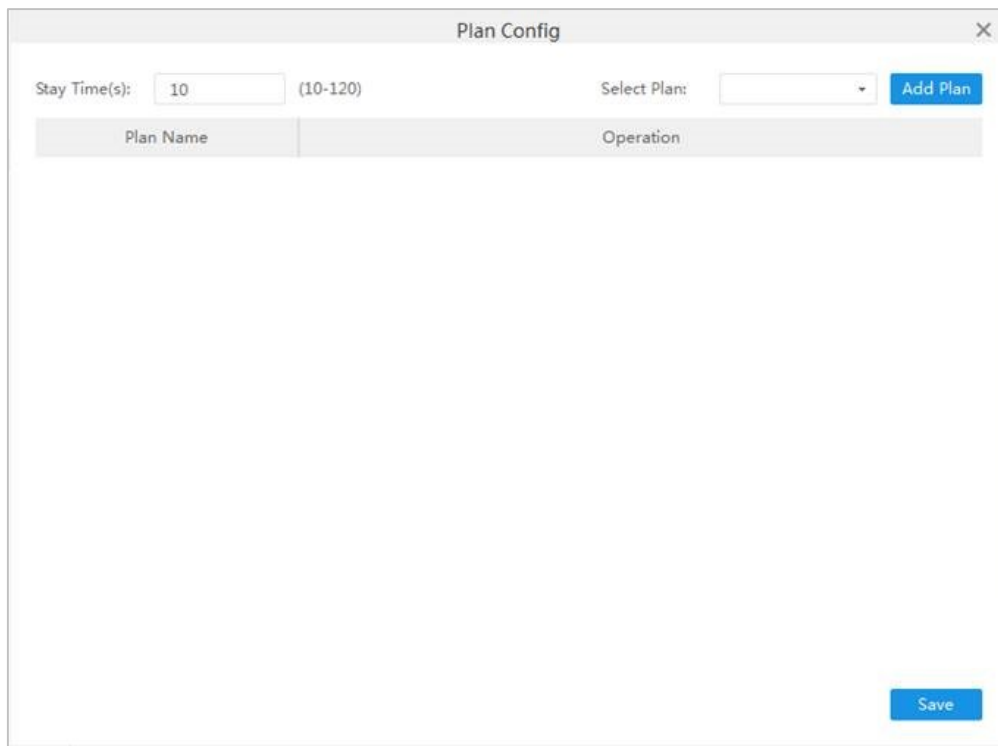
**Figure 7-8**



The 'Add Plan' dialog box features a title bar with a close button (X). Below the title bar, there is a label 'Plan Name:' followed by a text input field. At the bottom of the dialog, there are two buttons: 'Save' and 'Cancel'.



3. Enter the plan name and click **Save**.
4. Click  and the following window is displayed:

**Figure 7-9**



The 'Plan Config' window has a title bar with a close button (X). It contains a 'Stay Time(s):' field with the value '10' and a range '(10-120)'. To the right is a 'Select Plan:' dropdown menu and a blue 'Add Plan' button. Below these is a table with two columns: 'Plan Name' and 'Operation'. At the bottom right of the window is a blue 'Save' button.

Plan Name	Operation
-----------	-----------

5. Set the stay time and select the plan from the dropdown list.
6. Click **Add Plan** and **Save**.
7. Click  to enable the scheme tour or click  to disable the scheme tour.

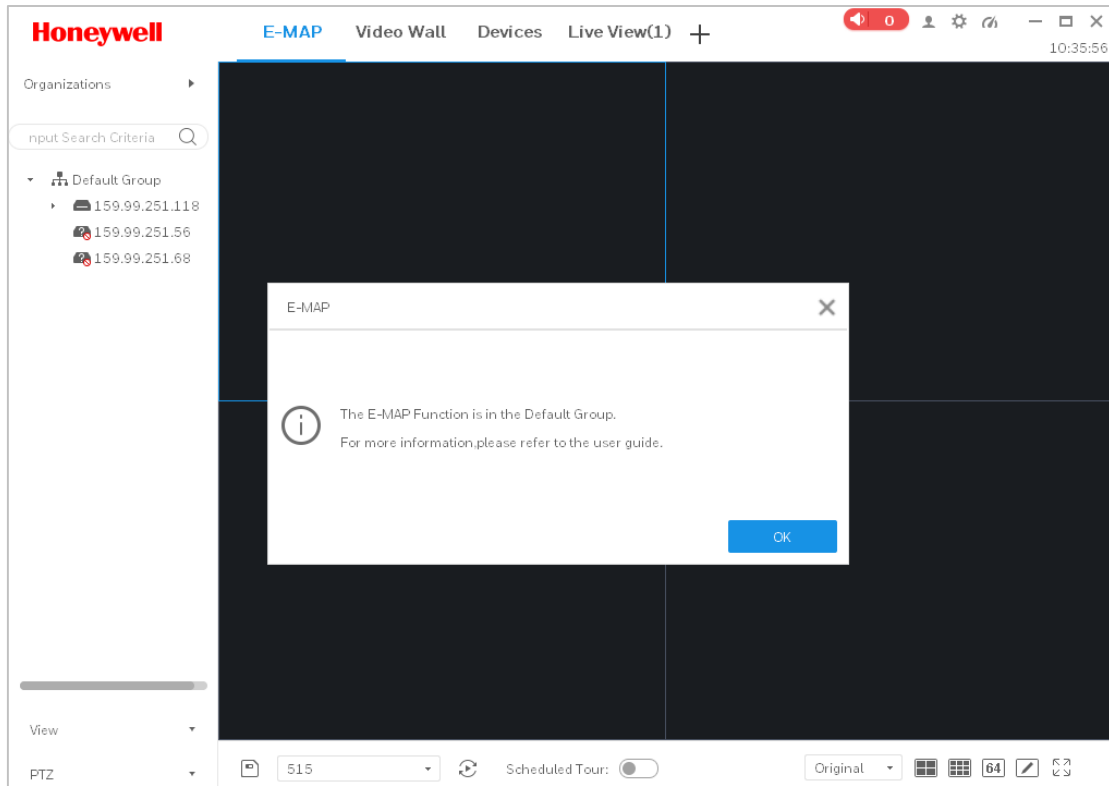
## E-Map

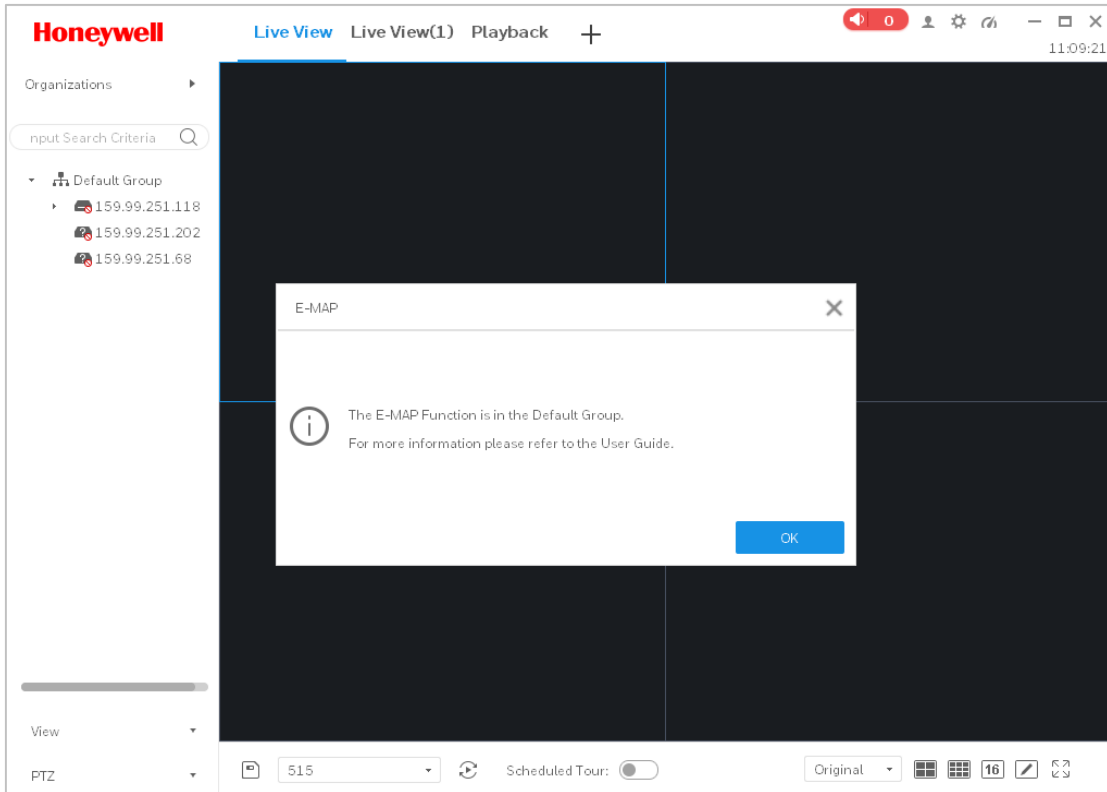
On the map, you can check the added device's location and live view. When an alarm occurs to the added device, there are dynamic indications on the map.



Click **E-MAP** on the **Search** pane in [Figure 3-2](#) to go to the following interface:

**Figure 7-10**

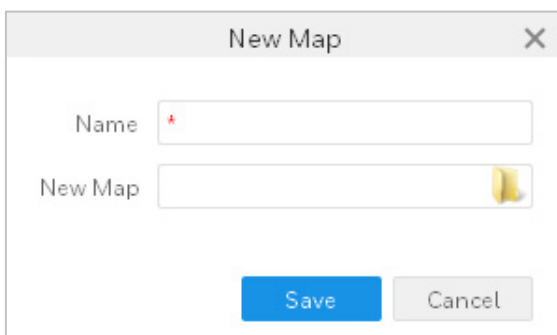




## Adding a New E-map

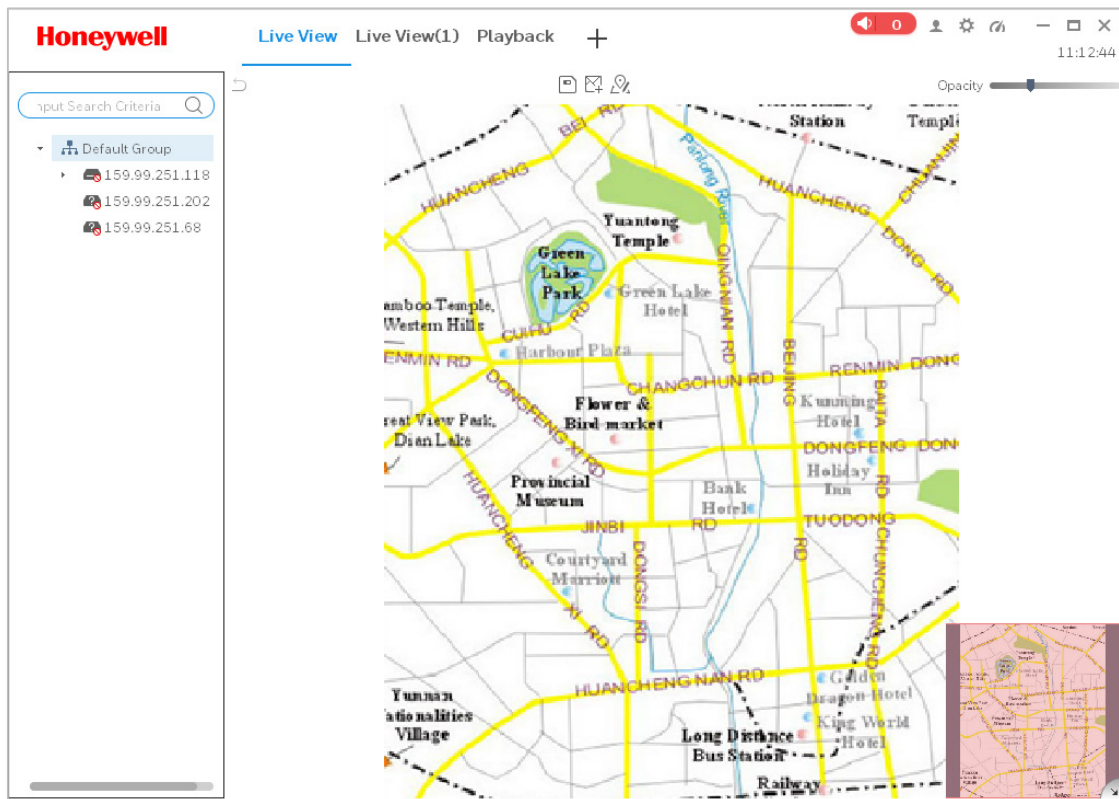
1. Right click the Default Group on the left pane and select **New Map**. The following window is displayed:

Figure 7-11



2. Enter the name and select a picture.
3. Click **Save** and the following interface is displayed:

Figure 7-12






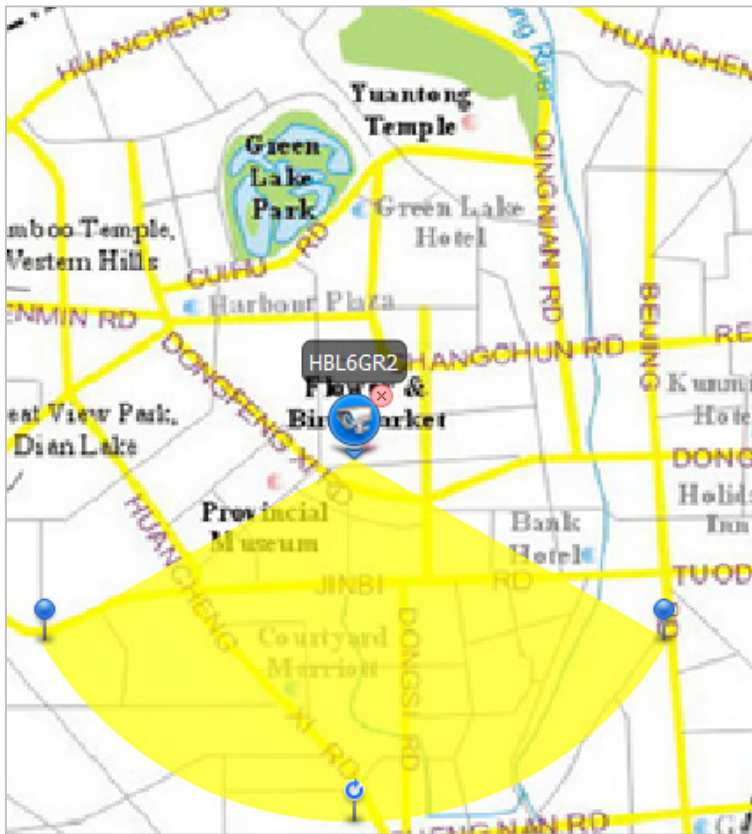
- Click **Opacity**  to adjust the transparency.
  - Click  at the lower right corner to collapse the top view and click  to expand the top view.
4. Drag device(s) on the left pane in [Figure 7-12](#) to the map:

Figure 7-13





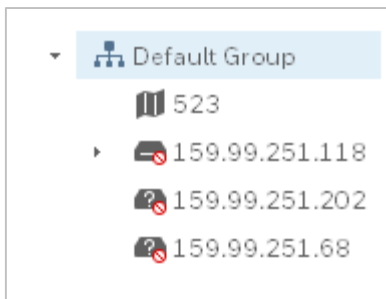
5. Drag  to adjust the monitoring range.
6. Click  to save this e-map. The newly added e-map is displayed in the Default Group on the left pane.

Figure 7-14



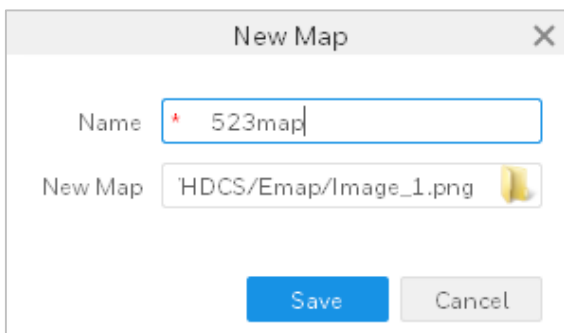
## Modifying a E-Map

### Changing the Map

Click  in [Figure 7-12](#) to change the map with a new map.



Figure 7-15

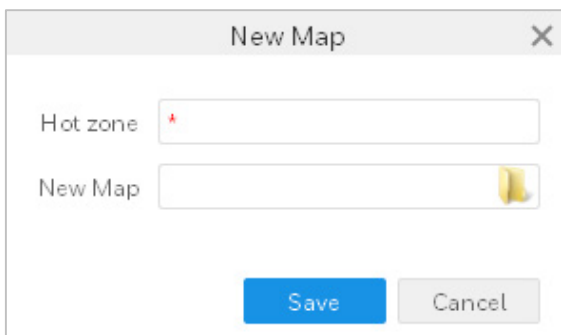


The screenshot shows a dialog box titled "New Map" with a close button (X) in the top right corner. It contains two input fields: "Name" with the text "523map" and a red asterisk to its left, and "New Map" with the text "HDCS/Emap/Image\_1.png" and a folder icon to its right. At the bottom, there are two buttons: "Save" (highlighted in blue) and "Cancel" (greyed out).

### Adding a New Hot Zone

1. Click  in [Figure 7-12](#) to add a new hot zone.

Figure 7-16



The screenshot shows a dialog box titled "New Map" with a close button (X) in the top right corner. It contains two input fields: "Hot zone" which is empty and has a red asterisk to its left, and "New Map" which is empty and has a folder icon to its right. At the bottom, there are two buttons: "Save" (highlighted in blue) and "Cancel" (greyed out).

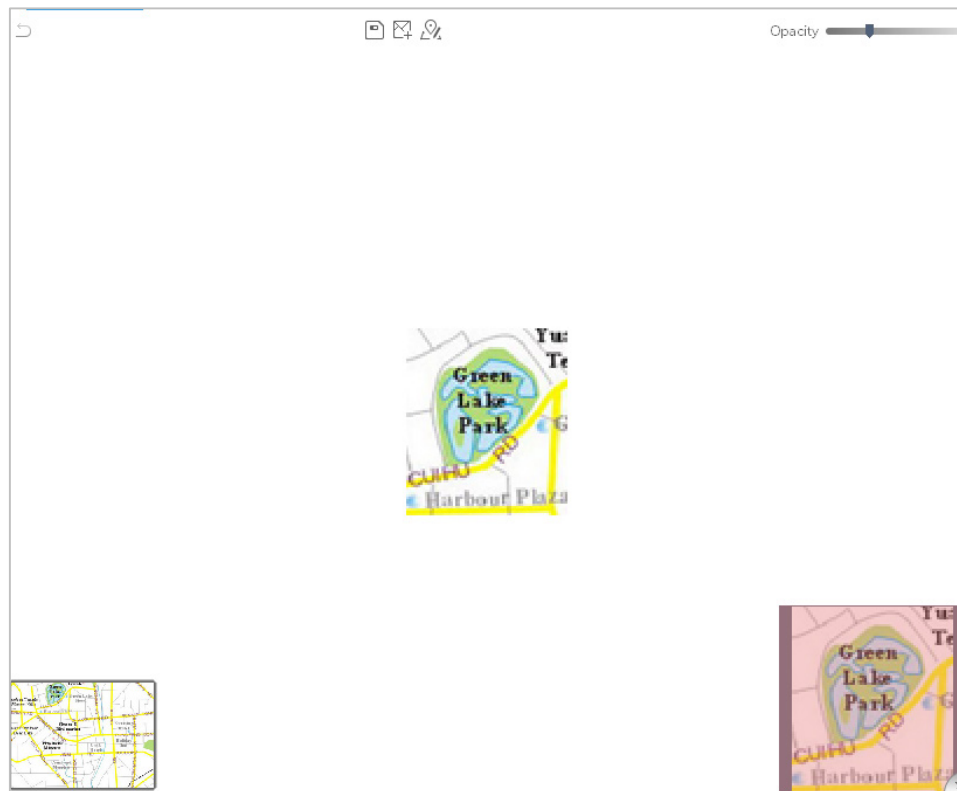
2. Enter the hot zone name and select a hot zone picture. Click **Save** and the following interface is displayed:

Figure 7-17



Double click the hot zone icon to show its map.

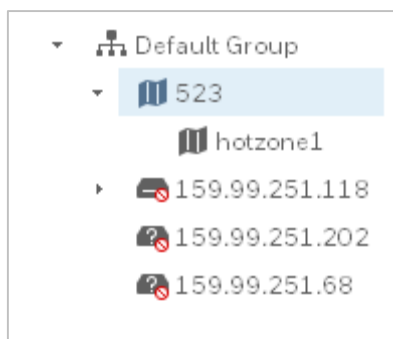
Figure 7-18



Click the e-map thumbnail at the lower left corner to switch back to the E-map.

3. The newly hot zone is displayed under the e-map folder on the left pane.

Figure 7-19



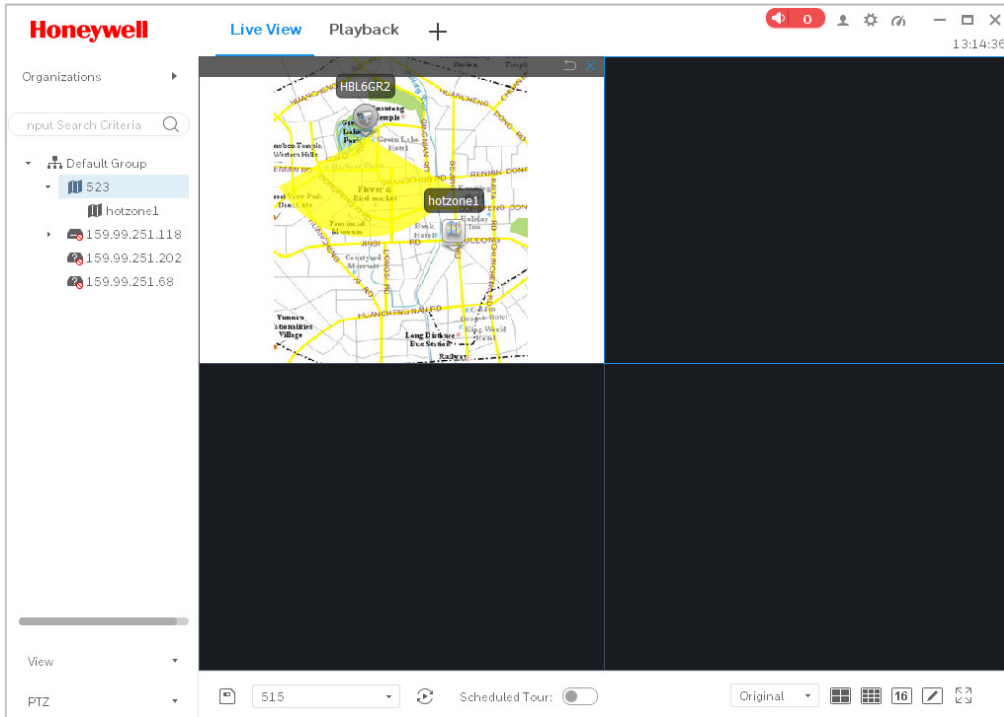
## Deleting a E-map

Right click an e-map name in [Figure 7-20](#) and select **Delete**.

## Liveview E-map

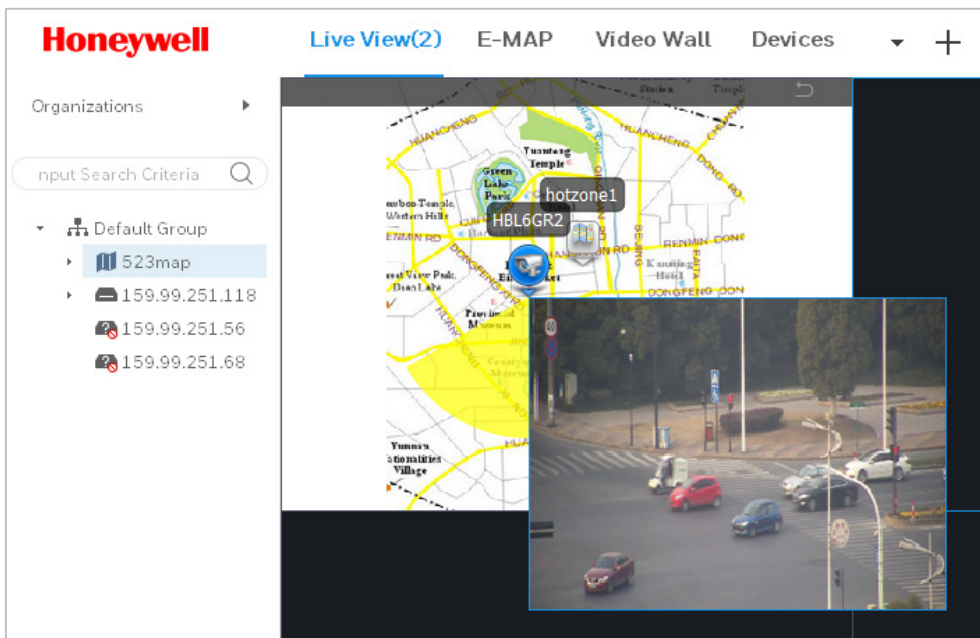
1. Drag an e-map from Default Group to a window on Live View interface.

Figure 7-20



2. Click the camera icon on the map to view the video in a pop-up window.

Figure 7-21



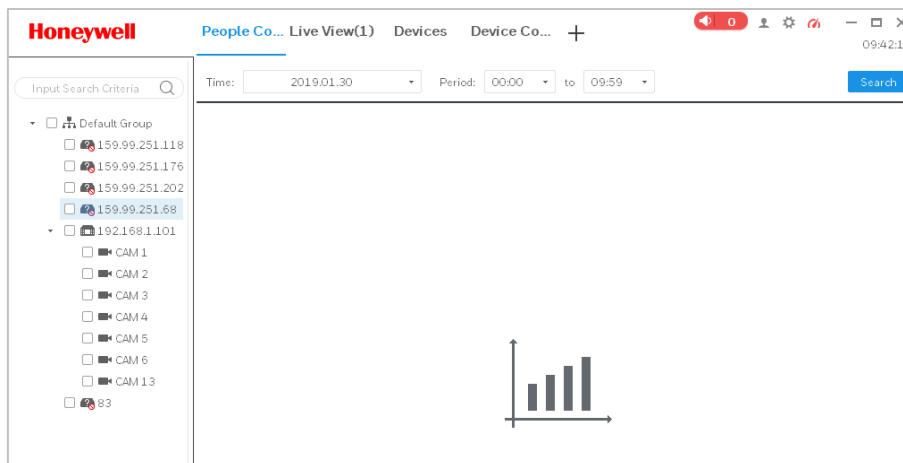
# People Counting

You can better understand the closing ratio and identify opportunities for improvement by counting and reporting the number of people entering and exiting a specific area.



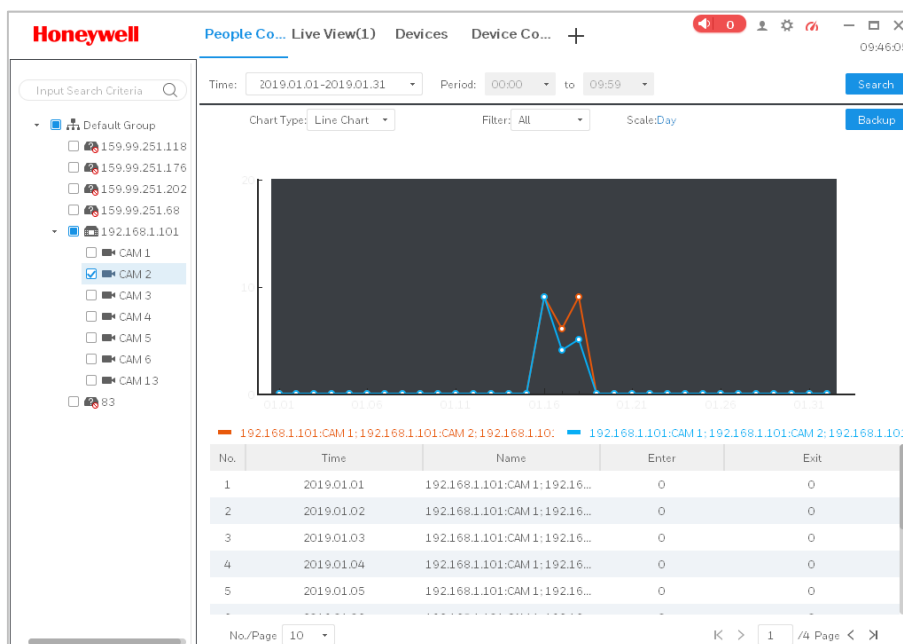
Click **People Counting** on the **Search** pane in *Figure 3-2* to go to the following interface:

Figure 7-22



1. Check a camera and input the date and the specific time period.
2. Click **Search** to generate a people counting report as displayed below:

Figure 7-23



3. Click **Backup** to back up the report as an individual file (.xlsx) locally.

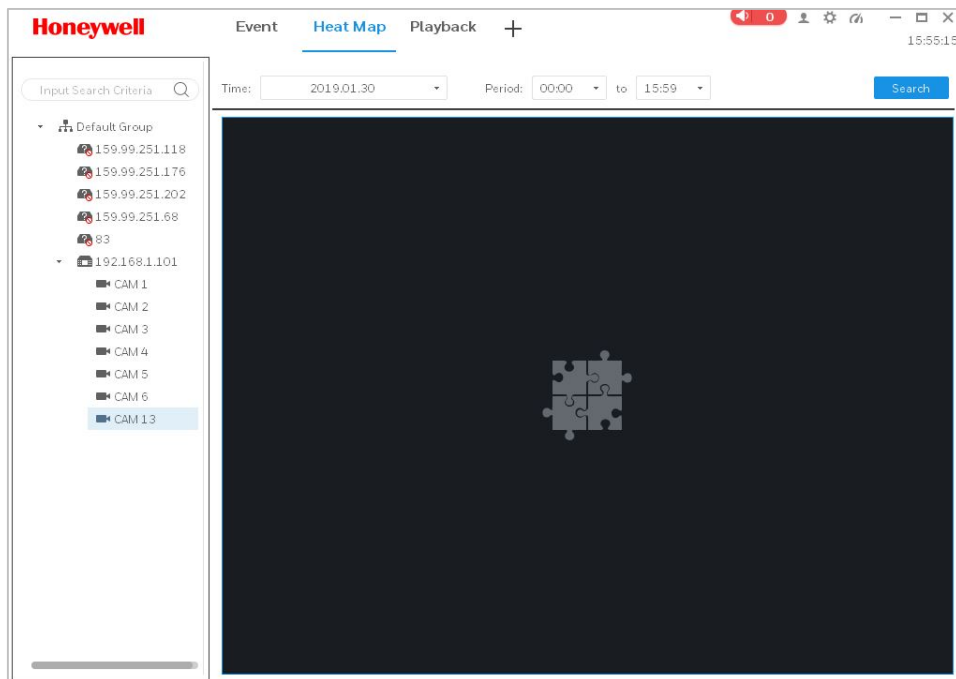
## Heat Map

Heat map is the most-used intuitive tool for representing complex statistical data by warm-to-cool colors and it can identify where the objects are moving the most by collecting the real-time data.



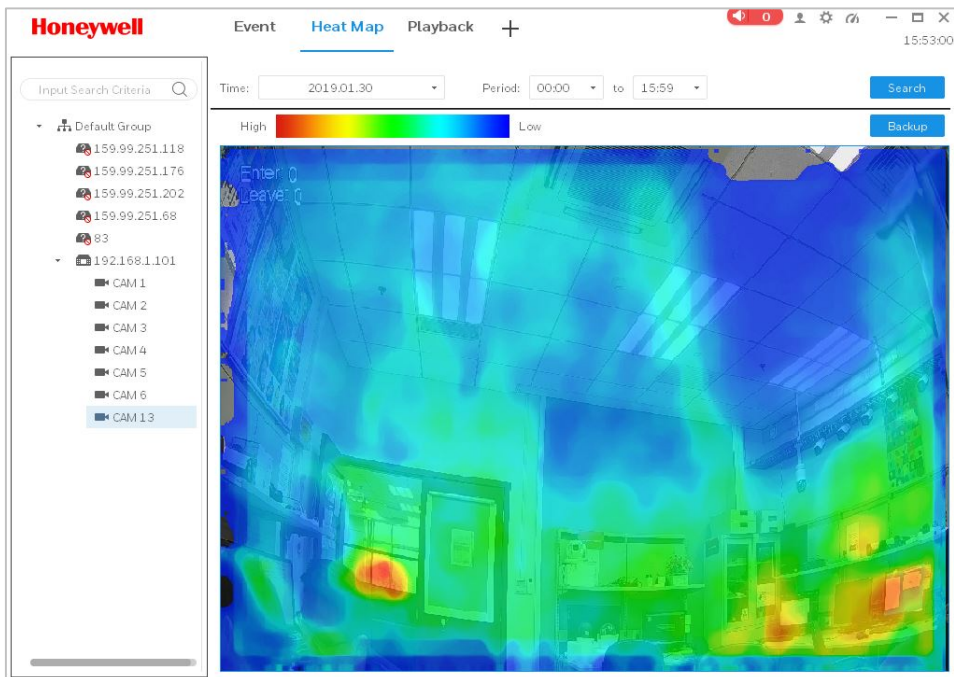
Click **Heat Map** on the **Search** pane in [Figure 3-2](#) to go to the following interface:

**Figure 7-24**



1. Check a camera and input the date and the specific time period.
2. Click **Search** to generate a heat map report as displayed below:

Figure 7-25



3. Click **Backup** to export the report as an image file (.bmp .png .jpg) locally.

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