

Honeywell

HVMV

User Manual

Table of Contents

1	Overview and Environment.....	1
	Overview	1
	Recommended Configuration & Capability.....	2
2	Install HVMV	3
3	Settings.....	6
	Login Interface.....	6
	Main Interface	7
	User.....	8
	Devices.....	11
	Adding a Device.....	12
	Modifying a Device	17
	Deleting a Device.....	18
	Event Configuration	18
	Adding an Event.....	18
	Modifying an Event.....	27
	Deleting an Event	27
	E-Map Config	28
	Adding E-Map	28
	Modifying E-Map.....	29
	Deleting E-Map	33
	Tour & Task	33
	Adding a Tour	34
	Modifying a Tour.....	35
	Deleting a Tour.....	36
	System Management.....	36
	SMTP	36
	Preferences	37
	Import and Export Utility.....	39
	Export Utility	39
	Import Utility	40

	HVMV Service Control Tool	41
4	Live View	43
	Live Viewing	43
	Video Settings	44
	Digital Zoom	46
	Editing Display Information	46
	Broadcast (Reserved)	47
	Configuring Views	47
	E-Map Viewing	49
	Alarm in / Alarm out	50
5	Playback	51
	Playback Control Panel	52
	Time Search	52
	Time Indicator	53
	Synchronous Playback	53
	Playback Control Button	53
	Speed Control	53
	Export Clips	53
	Events Color Indicator	54
	Timescale Control	54
	Playback Video Window Toolbar	54
6	Log	56
7	Search	58
	Event Search	58
	Searching Events	58
	Handling Events	59
	Exporting Events	61
	Smart Search	61
	E-Map View	64

1 Overview and Environment

This chapter contains the following sections:

- [Overview on page 1.](#)
- [System Requirements on page 2.](#)

Overview

HVMV is a professional video surveillance system designed for 30 series NVR on managing security surveillance devices conveniently and efficiently. It supports live view, playback, tour & task, E-Map, Event trigger management, smart search and other services. The main features of HVMV are listed as below:

- View real-time video of multiple camera channels.
- Auto Streaming Size for Clients, saving decode and streaming bandwidth.
- Supports various view settings: time, bandwidth, codec, etc.
- Customized layouts can also be displayed on standalone player.
- View the playback video files from various cameras and synchronized playback.
- Multiple monitors configurable to display live view, tour, E-map or event views.
- Manually export event clips.
- Smart search.
- Support multiple scheduled events to realize auto surveillance.
- Support E-Map: clearly view and manage all devices at different locations.
- Multiple Fisheye Dewarping modes.
- Customizable layouts for unique camera types, e.g., corridor or panoramic.
- Log / Alarm Search & Export.

Recommended Configuration & Capability

System supports up to 2048 video channel connections, up to 64-channel live view in a single screen. See the following table for the max live view channels with different camera parameters.

See the following table for system requirements:

Table 1-1 Recommended Configuration & Capability

Item	Requirements	
Operating System	Windows 10	
Client (Display Channels) *	H.264, D1, 1Mbps for Each Channel	48-CH
	H.264, 720P, 2Mbps for Each Channel	30-CH
	H.264, 1080P, 4Mbps for Each Channel	19-CH
	H.264, 5MP, 8Mbps for Each Channel	9-CH
	H.264, 8MP, 16Mbps for Each Channel	5-CH
	H.265, D1, 768Mbps for Each Channel	64-CH
	H.265, 720P, 1.5Mbps for Each Channel	40-CH
	H.265, 1080P, 3Mbps for Each Channel	25-CH
	H.265, 5MP, 6Mbps for Each Channel	11-CH
H.265, 8MP, 6Mbps for Each Channel	6--CH	
CPU	6 th Generation Intel® Core™ i7 Processors	
RAM**	8 GB or above	
Graphics Card***	1GB RAM	
Network Interface Card	Ethernet, 1Gbit recommended	
* Display requirements of a fisheye camera is equal to same resolution camera.		
** Please use a dual-channel memory configuration.		
*** Please update to the latest GPU driver.		

2 Install HVMV

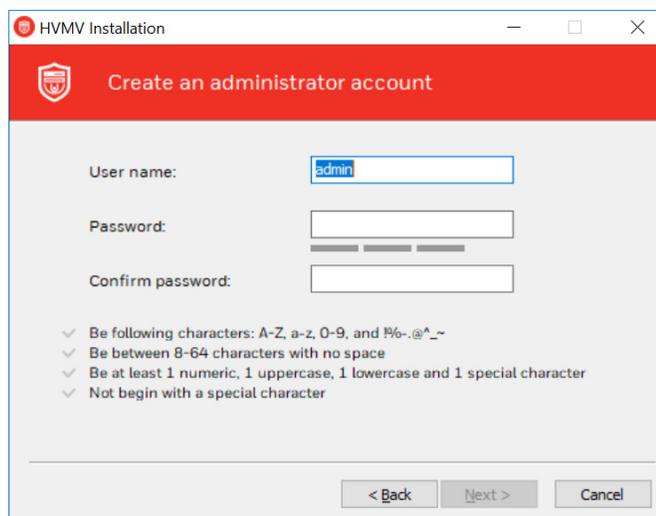
1. Download the latest version of HVMV installation program from <https://mywebtech.honeywell.com>.
2. Double click the installation program  and the following window is displayed.

Figure 2-1 Read License Agreement

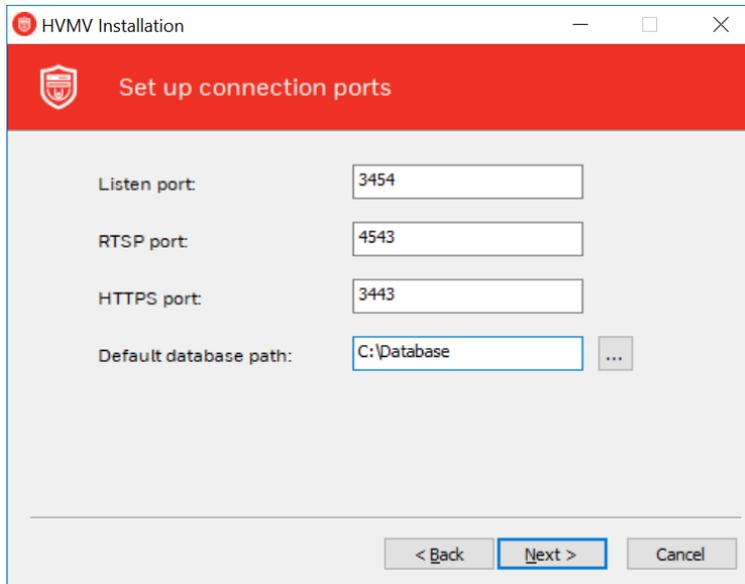


3. Click **I agree** and the following window is displayed:

Figure 2-2 Create an Administrator Account

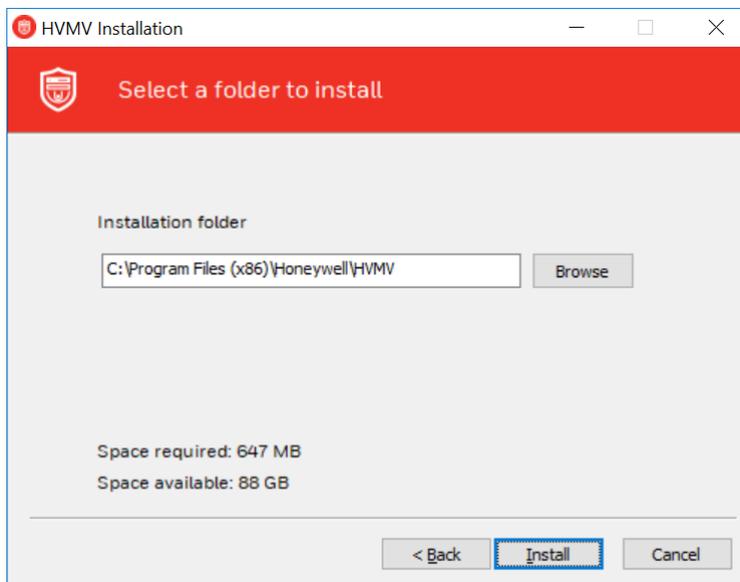


4. Enter the user name, password and confirm password. Click **Next**.



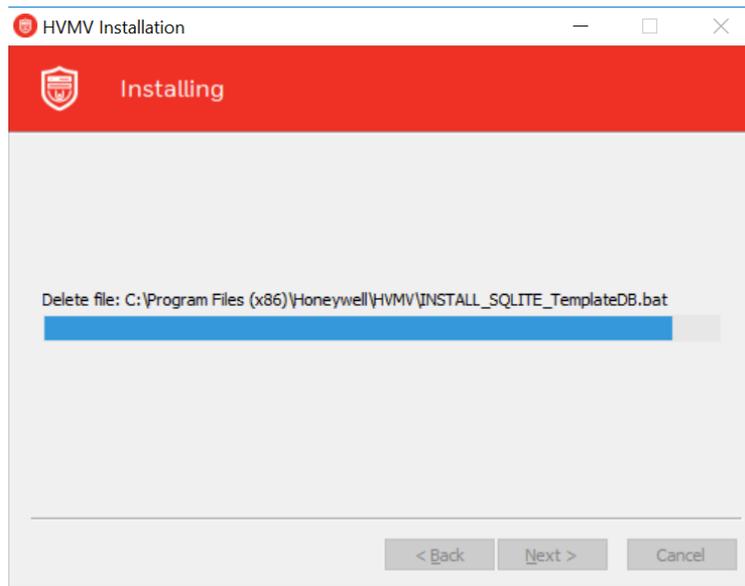
5. Leave the port as default and modify the default database path if necessary. Click **Next**.

Figure 2-3 Select a Folder to Install



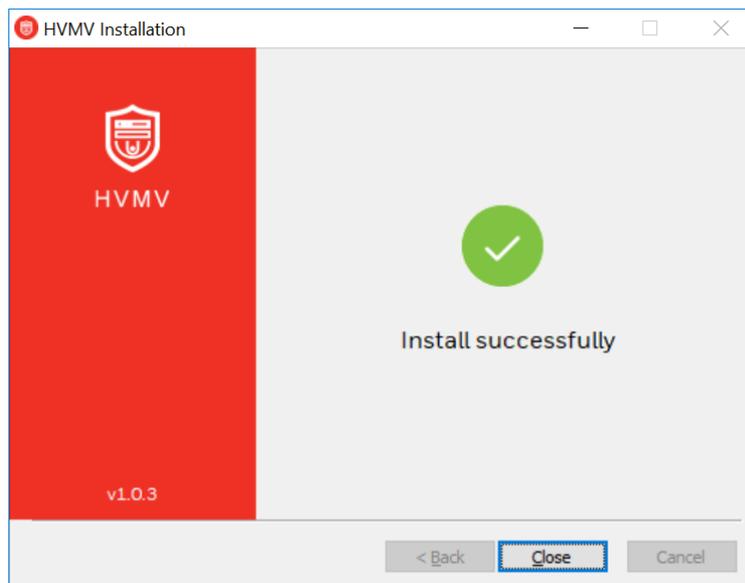
6. Select the installation path and click **Install**.

Figure 2-4 Installing



7. Wait for the installation to progress.

Figure 2-5 Install Successfully



8. Click **Close** when the installation is done.

3 Settings

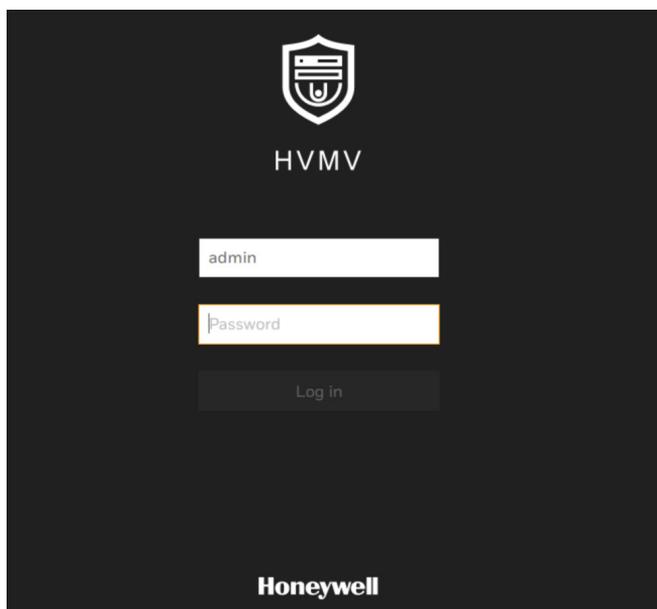
This chapter contains the following sections:

- [Login Interface](#) on page 6.
- [Main Interface](#) on page 7.
- [User](#) on page 8.
- [Device](#) on page 11.
- [Event Configuration](#) on page 18.
- [Tour & Task](#) on page 33.
- [System Management](#) on page 36.

Login Interface

Double click the HVMV icon  on the desktop, and the login interface is displayed:

Figure 3-1 Login



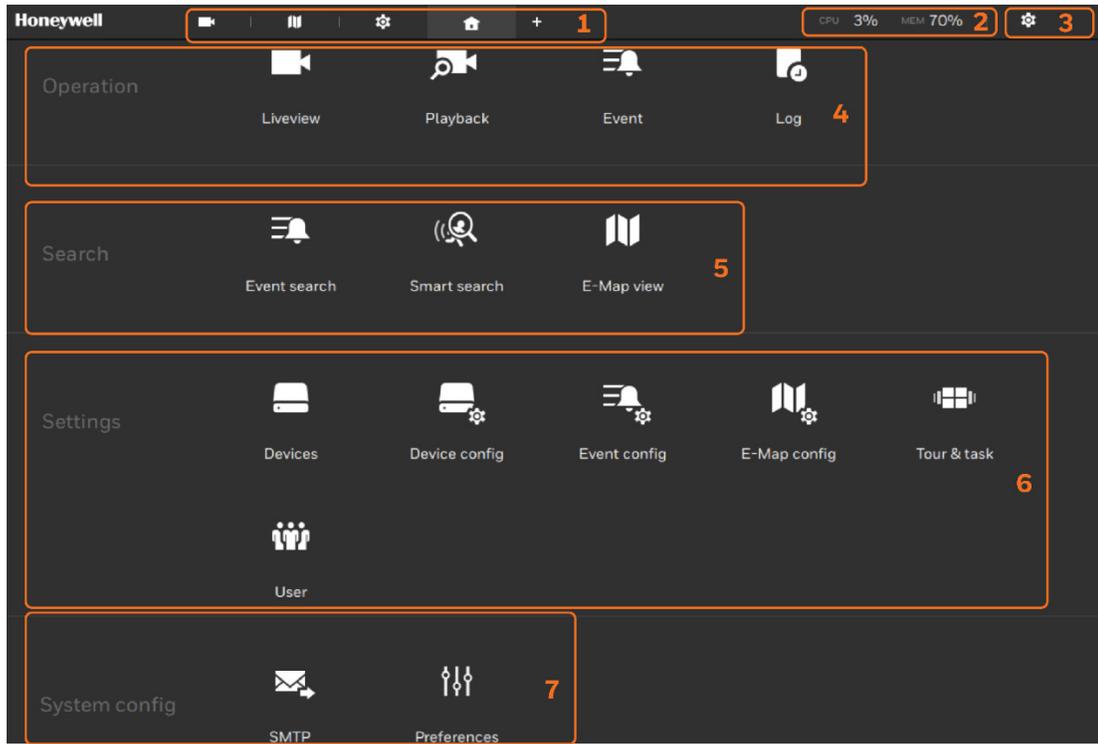
For the first time logging in, use the admin account and enter the password you set in [Install HVMV](#) on page 3.

You can create other accounts as described in [User](#) on page 8 and log in with other accounts.

Main Interface

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

Figure 3-2 Main Page



See the following table for detailed information.

Table 3-1 Main Page

SN	Function
1	View the main page icons and active tabs. Click  to add a function tab on the top pane.
2	Monitor the performance of CPU and Memory.
3	It includes Settings, Full screen, Help, About and Log out . Settings: Click to access the Devices Management, Event Management, User Management, E-Map Management or System Management . Full screen: Click to enter the full screen mode. Press Esc on the keyboard to exit the mode. Help: Click to open the help document. About: Click to view the version and copyright information. Log out: Click to log out the current user.
4	It includes Liveview, Playback, Event and Log . Click an icon to open the function in a new tab.
5	It includes Event search, Smart search and E-Map view . Click an icon to open the function in a new tab.
6	It includes Devices, Device Config, Event Config, E-Map config, Tour & Task and User . Click an icon to open the function in a new tab.
7	It includes SMTP and Preferences . Click an icon to open the function in a new tab.

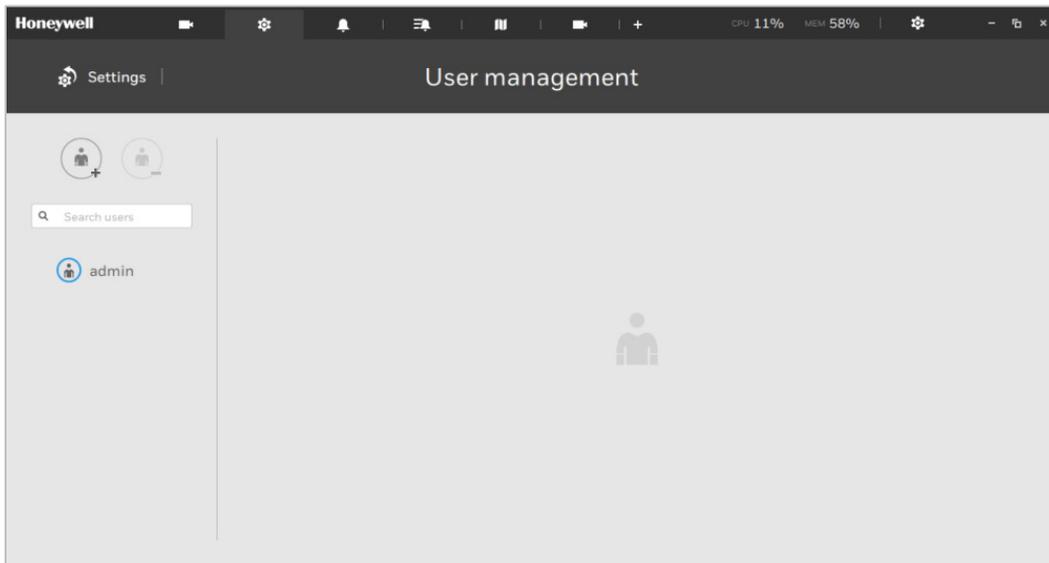
User

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



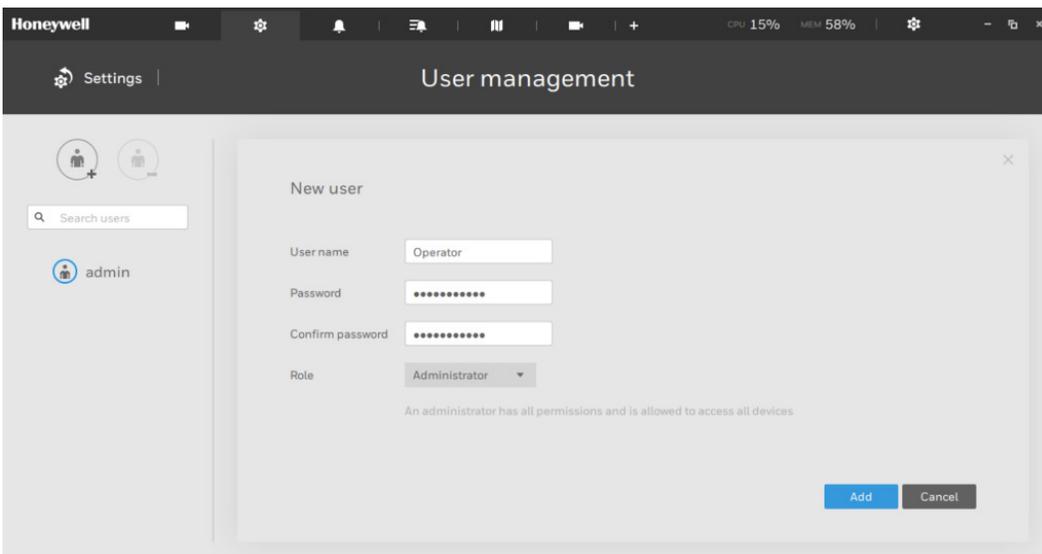
Click **User** on the **Settings** pane in [Figure 3-2](#) to go to the following interface:

Figure 3-3 User Config Interface



Click  to add a new user.

Figure 3-4 New User

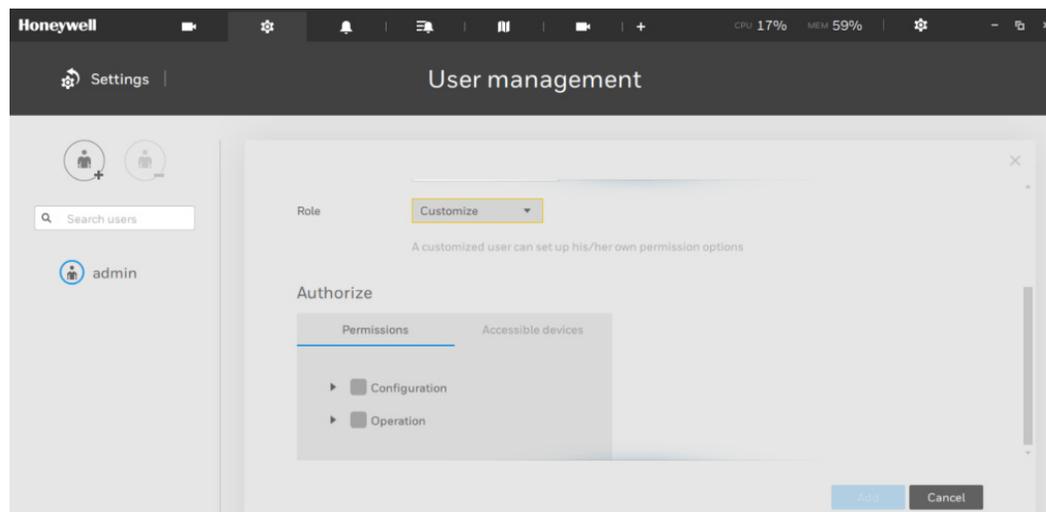


Enter the user name, password, confirm password and select a role from **Administrator** and **Customize**.

Table 3-2 Role

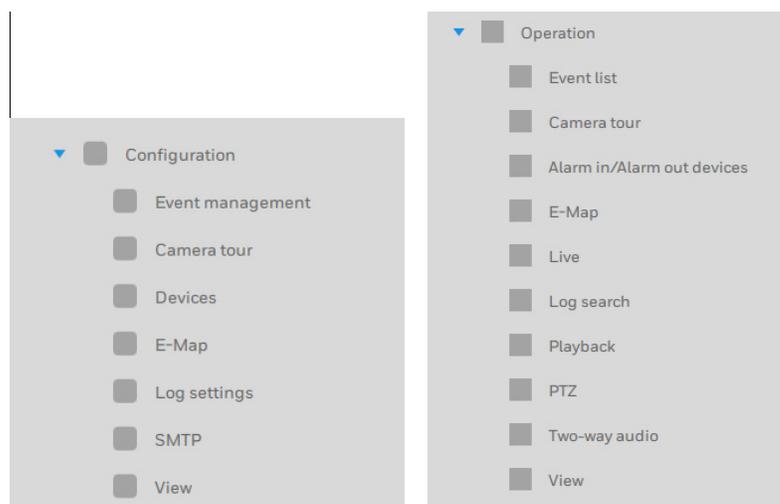
Type	Description
Administrator	An administrator has all permissions and is allowed to access all devices.
Customize	A customized user has customized permissions and is allowed to access customized devices. To create users with the permissions for different operational capabilities, select Customize in the Role menu, and then select the options in the Permissions and/or the Accessible devices menus.

Figure 3-5 Permissions and Accessible Devices



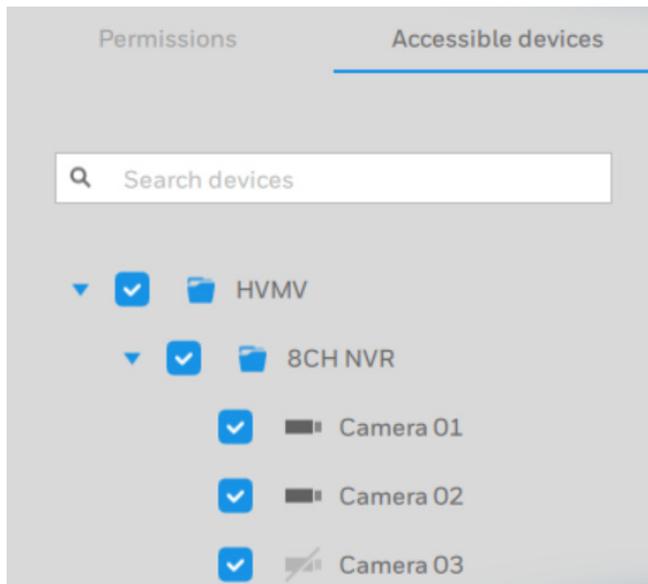
In the Permissions tab, click  to unfold the Configuration and Operation menus. Select or deselect the checkboxes to configure the user privileges. For example, you may not want a user to operate Event and E-Map, deselect these checkboxes.

Figure 3-6 Operation and Configurations Menus



In the Accessible devices tab, click to select the cameras that a user can access. Some users may only need to access specific devices.

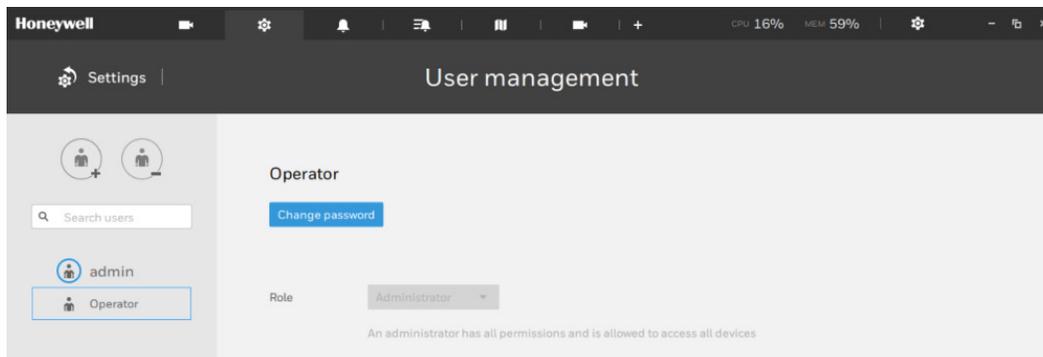
Figure 3-7 Accessible Devices



After the settings are done, click **Add** to create a new user.

The new users will be listed under the admin's icon . Repeat the process to create more users.

Figure 3-8 Users List



If you want to change the password, click **Change password**.

Devices

You can add a single device or a batch of devices automatically or manually.

Adding a Device

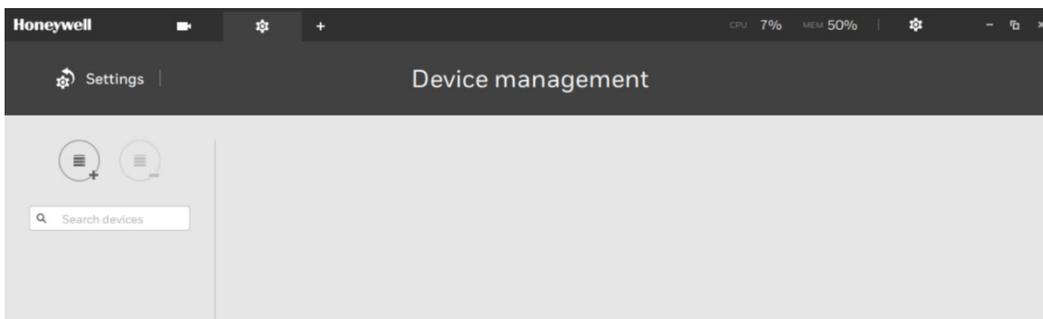
You can add new devices via:

- P2P
- IP/Domain
- Auto search



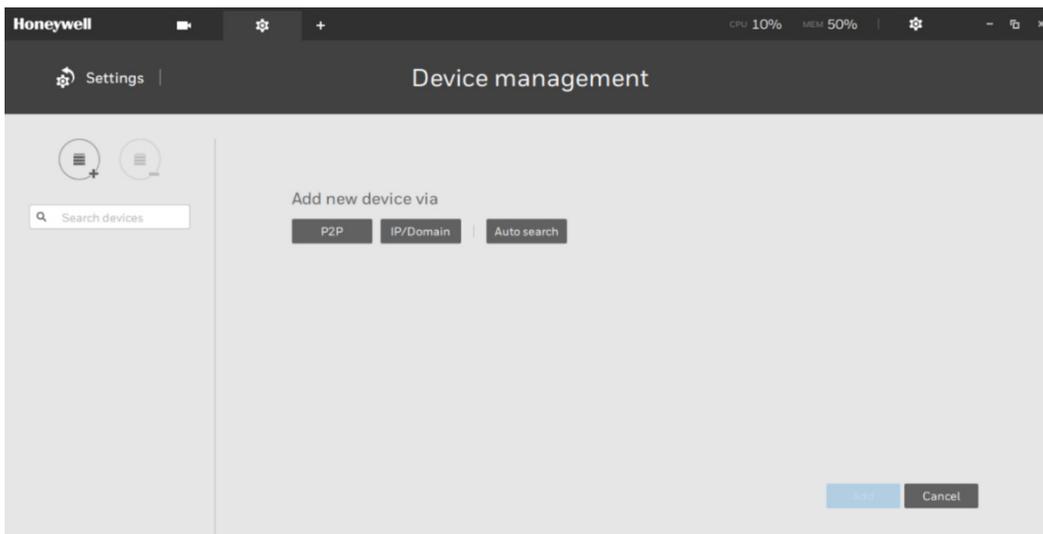
Click  on the **Settings** pane in [Figure 3-2](#) to go to the following interface:

Figure 3-9 Device Management Interface



Click  to add a device:

Figure 3-10 Add New Device



Adding New Device via P2P

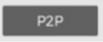
1. Click  as shown in [Figure 3-10](#) and the following interface is displayed:

Figure 3-11 P2P

The screenshot shows the Honeywell Device management interface. At the top, there is a header with 'Honeywell' on the left, a settings gear icon, and a plus sign. On the right, system status is shown: 'CPU 5%' and 'MEM 63%'. Below the header is a 'Settings' button and the title 'Device management'. The main area is titled 'Add new device via' and has three tabs: 'P2P', 'IP/Domain', and 'Auto search'. The 'P2P' tab is selected. Below the tabs are three input fields: 'Serial number' (empty), 'Port' (set to '443' with a dropdown arrow and 'SSL only' text), and 'NVR password' (empty). At the bottom right, there are 'Add' and 'Cancel' buttons.

2. Enter the serial number and the admin user's password of NVR. Click **Add** and the devices will be added in the devices list in the left pane, see [Figure 3-16](#).

Adding Devices via IP/Domain

1. Click **IP/Domain** as shown in [Figure 3-10](#) and the following interface is displayed:

Figure 3-12 Adding Devices via IP/Domain

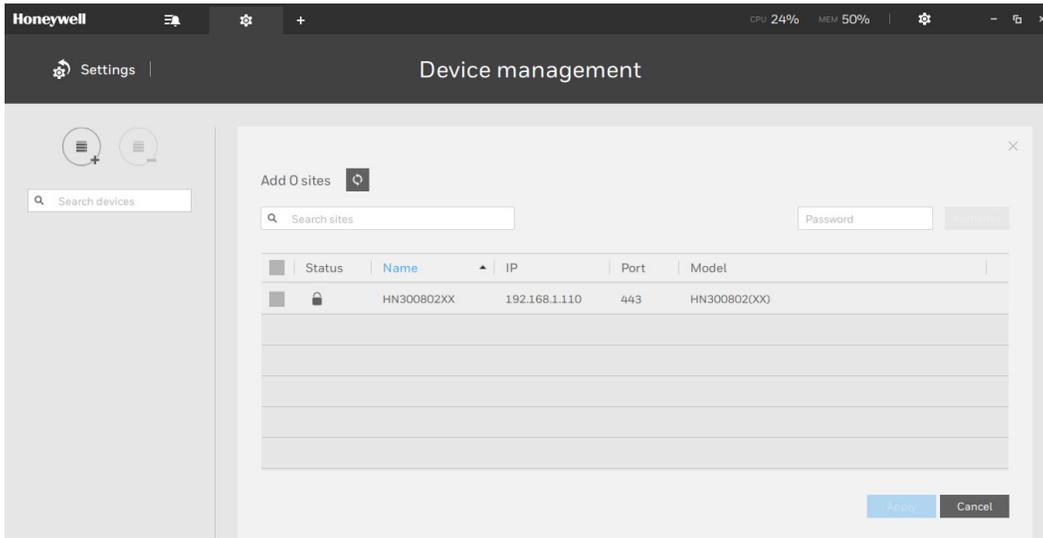
The screenshot shows the Honeywell Device management interface. At the top, there is a header with 'Honeywell' on the left, a settings gear icon, and a plus sign. On the right, system status is shown: 'CPU 8%' and 'MEM 64%'. Below the header is a 'Settings' button and the title 'Device management'. The main area is titled 'Add new device via' and has three tabs: 'P2P', 'IP/Domain', and 'Auto search'. The 'IP/Domain' tab is selected. Below the tabs are three input fields: 'IP/Domain name' (empty), 'Port' (set to '443' with a dropdown arrow and 'SSL only' text), and 'NVR password' (empty). At the bottom right, there are 'Add' and 'Cancel' buttons.

2. Enter the IP/Domain name and the password of NVR. Click **Add** and the devices will be added in the devices list in the left pane, see [Figure 3-16](#).

Adding Devices via Auto Search

1. Click **Auto search** as shown in [Figure 3-10](#), the system will search the devices in the same network segment. After the search is completed, the following interface is displayed:

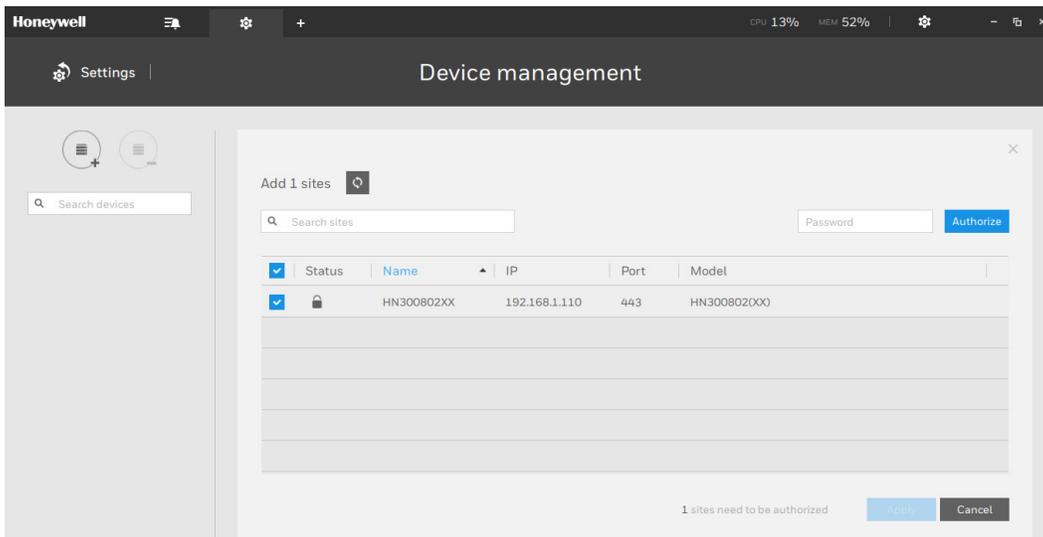
Figure 3-13 Adding Devices via Auto Search



Note You need to authorize the devices first. Before the authorization, the devices will be locked and shown as .

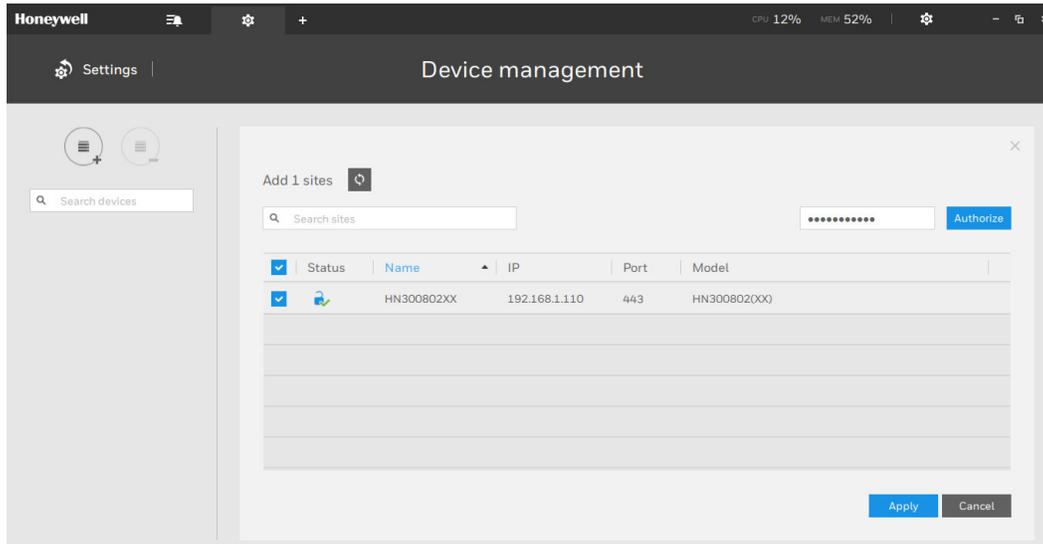
2. Select the target device from the device list.

Figure 3-14 Select Target Device



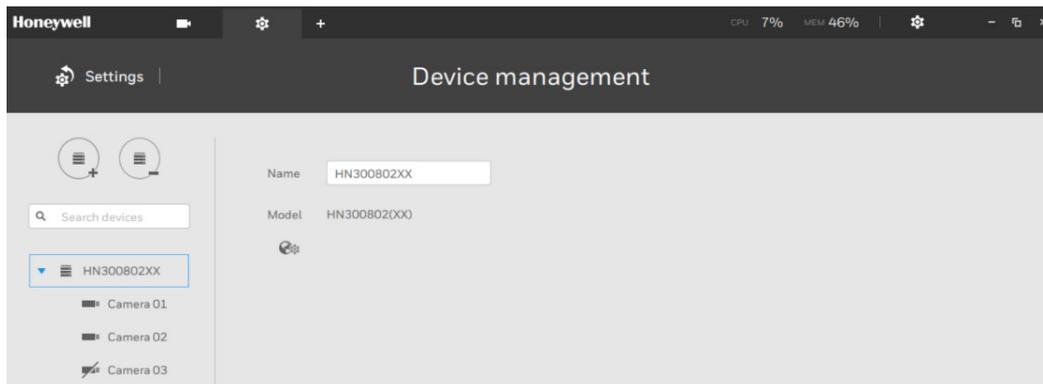
3. Enter the admin user's password of the device and click **Authorize**.

Figure 3-15 Device Authorized



4. The device will be unlocked and the status of the device will change to . Click **Apply** and the device will be added to the devices list in the left pane.

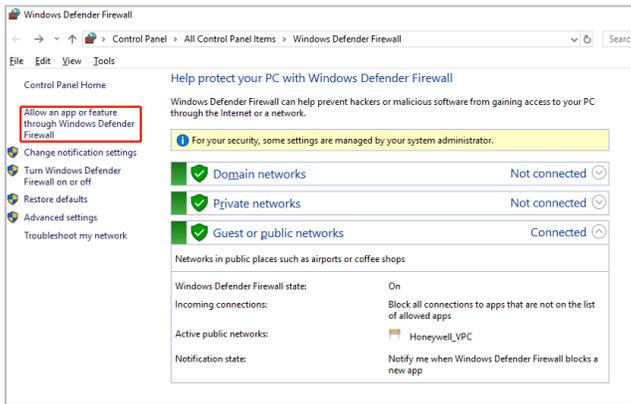
Figure 3-16 Devices List



If your devices cannot be added via auto search, perform the following steps:

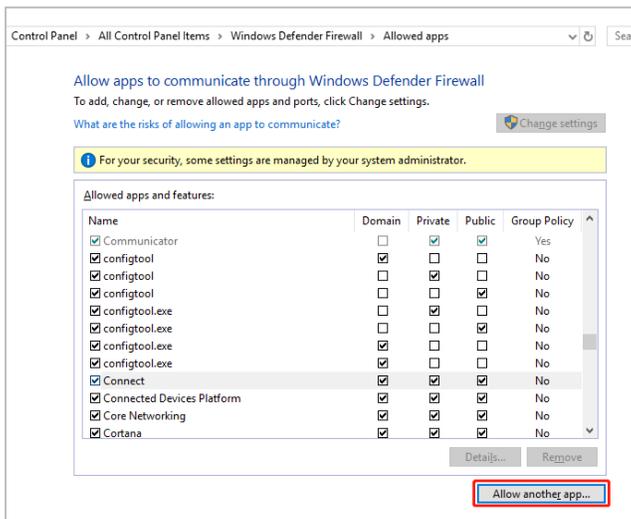
1. Go to **Control Panel**→**All Control Panel Items**→**Windows Defender Firewall**.
2. Click **Allow an app or feature through Windows Defender Firewall**.

Figure 3-17 Allow an app or feature through Windows Defender Firewall



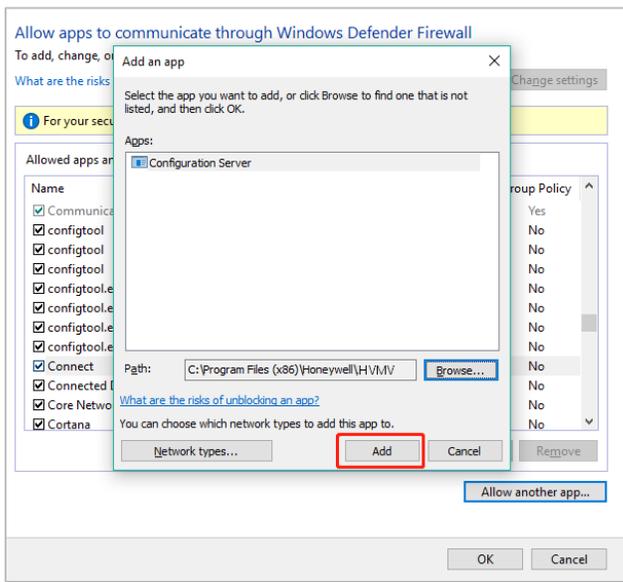
3. Click **Allow another app**.

Figure 3-18 Click Allow Another App



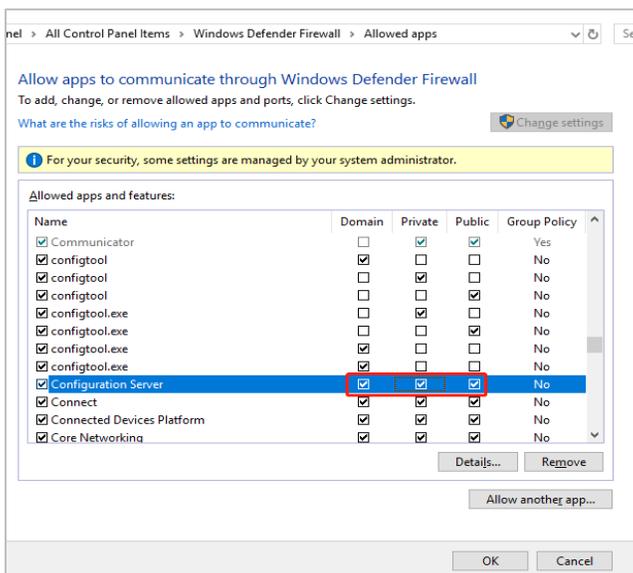
4. Click **Browse**, go to C:\Program Files (x86)\Honeywell\HVMV\Server and add **Configuration Server** in the Apps list.

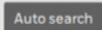
Figure 3-19 Add Configuration Server



5. Enable **Domain**, **Private** and **Public** in the **Allowed apps and features** list.

Figure 3-20 Enable Domain Private and Public



6. Click **OK**. After the settings are completed, click  as shown in [Figure 3-10](#) to search the devices automatically.

Modifying a Device

- In [Figure 3-16](#), change the name of the device in the **Name** field.
- Right click the device that you want to modify and select **Rename**.

- Click  to make more settings on the web client of the NVR.

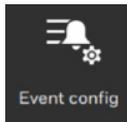
Deleting a Device

- In [Figure 3-16](#), right click the device that you want to modify and select **Delete**.
- Select a device in the devices list, click  as shown in [Figure 3-16](#).

Event Configuration

You can pre-configure a series of actions for HVMV to react to different events. For example, HVMV can start a recording or send an Email notification when Motion detection is triggered.

Adding an Event



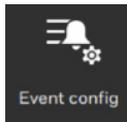
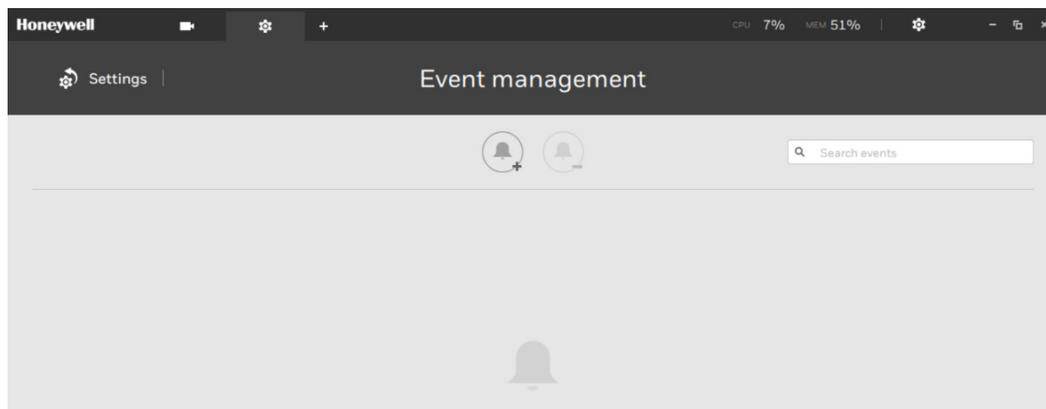
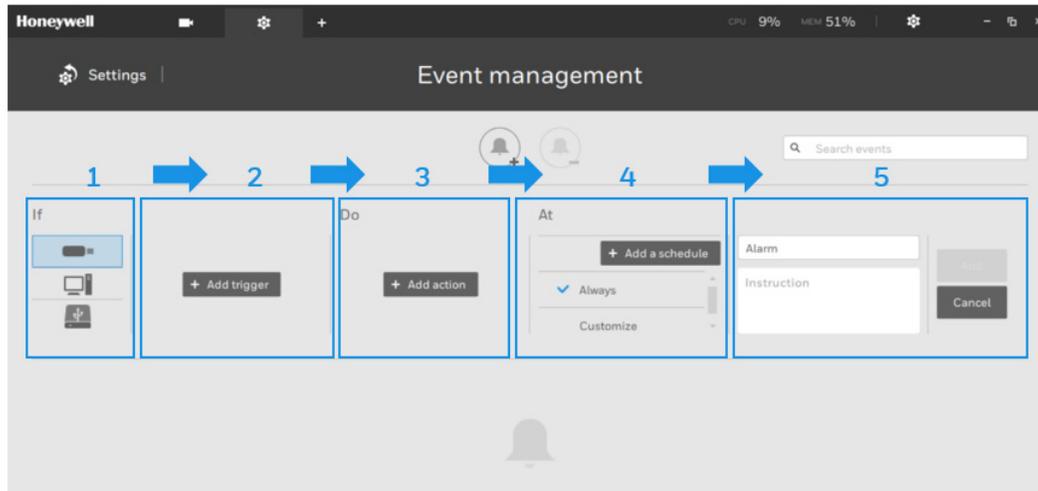
Click  on the **Settings** pane in [Figure 3-2](#) to go to the following interface:

Figure 3-21 Event Config



Click  to add an event.

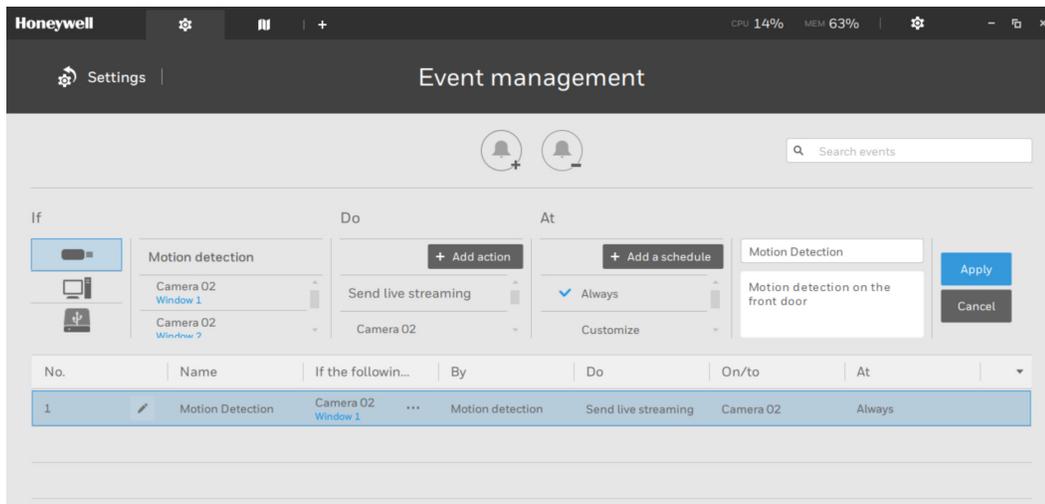
Figure 3-22 Add Event



Perform the following steps to add an event as shown in the above figure:

1. Select an event type among
 - Camera event , see [Camera Event](#) on page 20.
 - System event , see [System Event](#) on page 21.
 - External device event , see [External Device Event](#) on page 22.
2. Click **Add trigger** to select trigger and source. After it is completed, click **Add**.
3. Click **Add action** to select a corresponding action, such as sending HTTPS request, sending live streaming, sending an Email, going to camera preset, going to E-Map or sounding the event. For details, see [Adding Action](#) on page 23. After it is completed, click **Add**.
4. Configure a schedule during which the event configuration will take effect.
 - If no special time is needed, you can simply select **Always**.
 - To configure a schedule, click **Customize**. For details, see [Add a Schedule](#) on page 26.
5. Enter a name for your event, and add description for your configuration, e.g., "motion detected on the front door." Click **Add** and the event configuration will be listed as shown in the following figure.

Figure 3-23 Event List

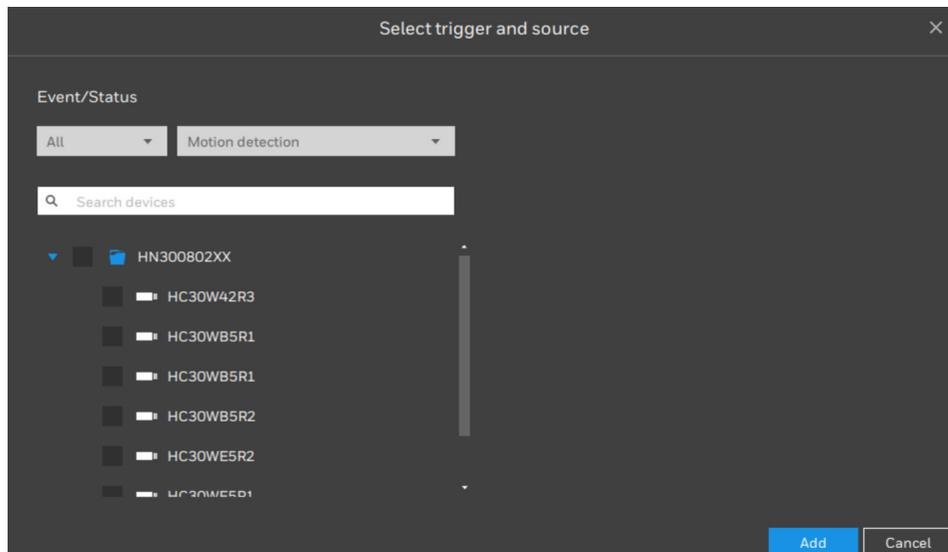


Selecting Event and Trigger

Camera Event

Click  and click **Add Trigger** as shown in [Figure 3-22](#), the following figure is displayed:

Figure 3-24 Select Trigger and Source – Camera Event



See the following table for camera events available in the system:

Table 3-3 Camera Event

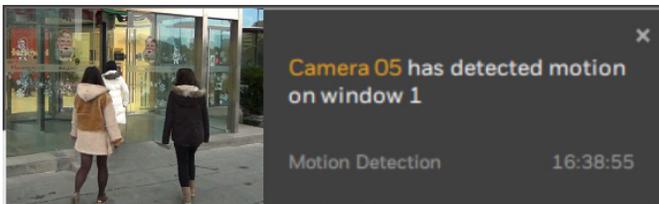
Event	Description
Motion Detection	The object is moving.
Tampering Detection	The video is tampered.

Camera Disconnected	The network is abnormal.
Camera Alarm In	The alarm in device connected to Camera is triggered.
Camera Alarm Out	The alarm out device connected to Camera is triggered.

Note Some of the triggers require that you configure the settings on the web page of NVR or local NVR. For example, the motion detection windows have to be manually configured on each camera before they can be configured in the Event settings.

An event prompt will pop up on the screen when a triggering condition is met. For example, a motion is detected, the sample prompt is shown below. The related video can be played back by clicking on the video on the event prompt.

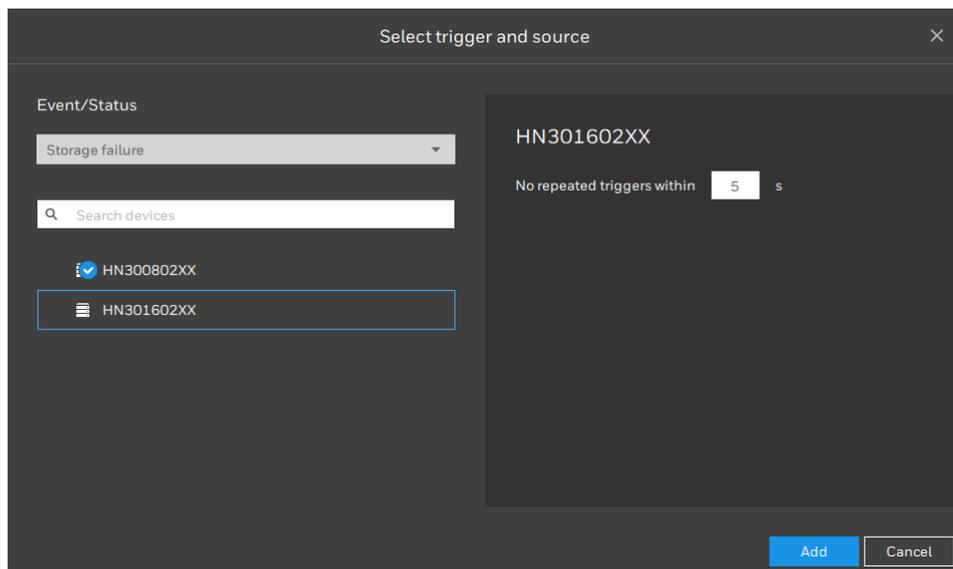
Figure 3-25 Event Prompt



System Event

Click  and click **Add Trigger** as shown in [Figure 3-22](#), the following figure is displayed:

Figure 3-26 Select Trigger and Source – System Event



See the following table for system events available in the system:

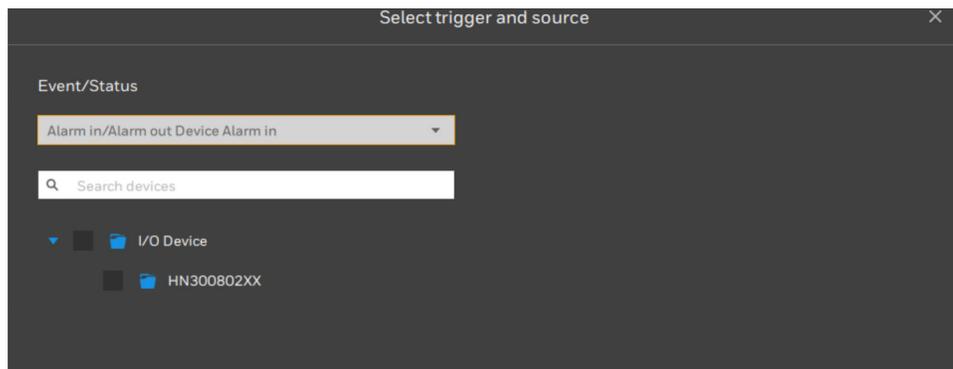
Table 3-4 System Event

Event	Description
Storage failure	The storage is disconnected.
Storage full	The storage is full.

External Device Event 

Click  and click **Add Trigger** as shown in [Figure 3-22](#), the following figure is displayed:

Figure 3-27 External Device Event



See the following table for camera events available in the system:

Table 3-5 Select Trigger and Source –External Device Event

Event	Description
-------	-------------

Alarm in/Alarm out Device Alarm in	The alarm in device connected to NVR is triggered.
Alarm in/Alarm out Device Alarm out	The alarm out device connected to NVR is triggered.

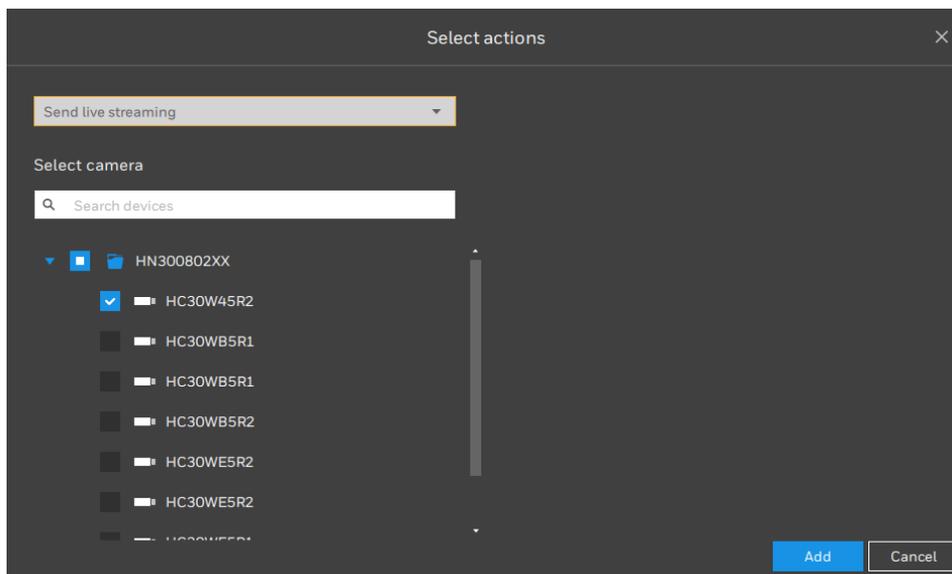
Adding Action

The available actions include: sending HTTPS request, sending live streaming, sending an Email, going to camera preset, going to E-Map and sounding the event.

Send Live Streaming

The action brings up a video prompt on the live view, showing the real-time video feed from a selected camera.

Figure 3-28 Send Live Streaming



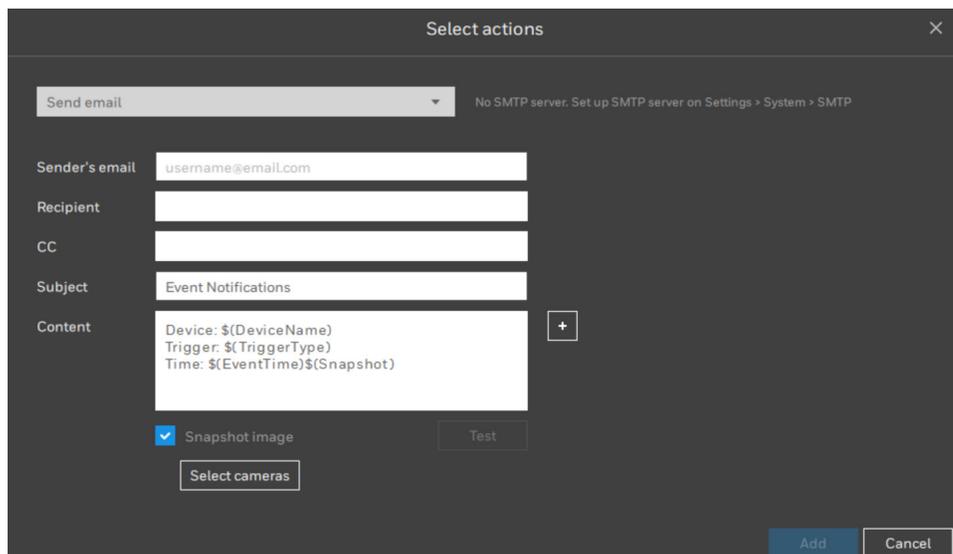
Perform the following steps to add the **Send live streaming** action.

1. Select **Send live streaming** from the dropdown list.
2. Select target camera (s).
3. Click **Add**.

Send an Email

The action sends an Email to the specified recipient(s).

Figure 3-29 Send Email



Perform the following steps to add the **Send Email** action.

1. Select **Send email** from the dropdown list.
2. Enter valid email addresses as sender and recipients. It is required that you configure an SMTP server first for mail delivery, see [SMTP](#) on page 36.
3. Enter subject and contents. Click  to add Device name, Trigger type, Event time, Storage path, Station name, or Data source in the Email to inform the recipient.

Figure 3-30 Email Content

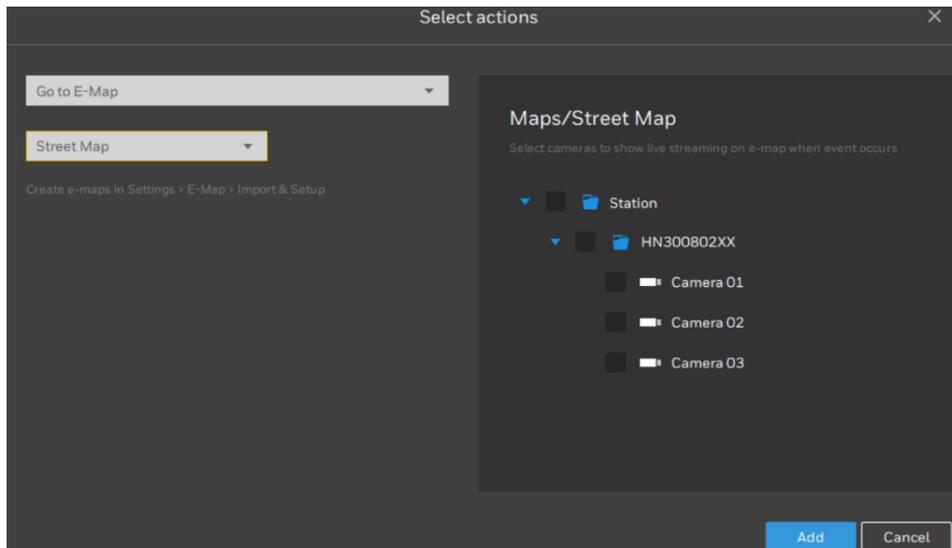


4. If you want to receive a snapshot of the event, select the checkbox of **Snapshot image**. Click **Select Cameras** to select cameras which will take the snapshot.
5. Click **Add**.

Go to E-Map

The action opens a pre-configured E-Map of where the triggering condition occurs. The user can then click on the camera icon on the E-Map for an instant viewing.

Figure 3-31 Go to E-Map



Perform the following steps to add the **Go to E-map** action.

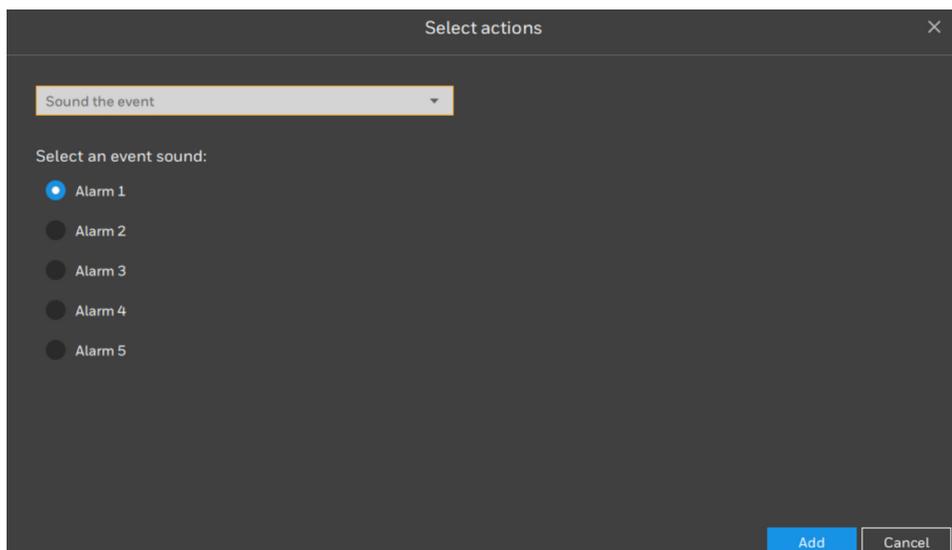
1. Select **Go to E-map** from the dropdown list of actions.
2. Select the target map from the dropdown list of maps.
3. Select cameras to show live streaming on E-map when event occurs.

Sound the Event

This function should be used in conjunction with NVR's **Send to HVMV**. Create an event action on NVR and select **Send to HVMV**. Create an event action on HVMV and selects **Sound the Event**. The HVMV sounds alarm when the event is triggered.

The action provides 5 alarm sounds that will be sounded on the HVMV client. Your HVMV client should have speakers for playing the audible alarm.

Figure 3-32 Sound the Event



Perform the following steps to add the **Sound the event** action.

1. Select **Sound the event** from the dropdown list.
2. Select an event sound from Alarm 1, Alarm 2, Alarm 3, Alarm 4 or Alarm 5.
3. Click **Add**.

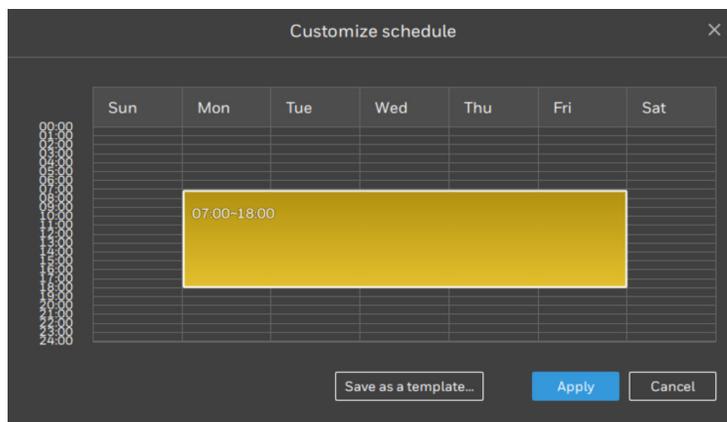
Add a Schedule

You can customize a schedule or add a schedule template to specify a time for the event.

Customizing Schedule

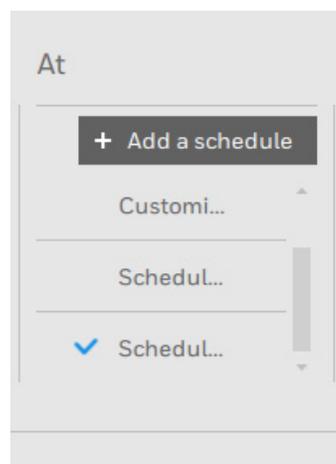
Click **Customize** as shown in [Figure 3-22](#). Drag a time period as shown in yellow and click **Apply**. The minimum unit of the time period is half an hour.

Figure 3-33 Customize Schedule



- You can click **Save as a template** and enter the schedule name to save the schedule as a template. The schedule template will be listed as shown in the following figure:

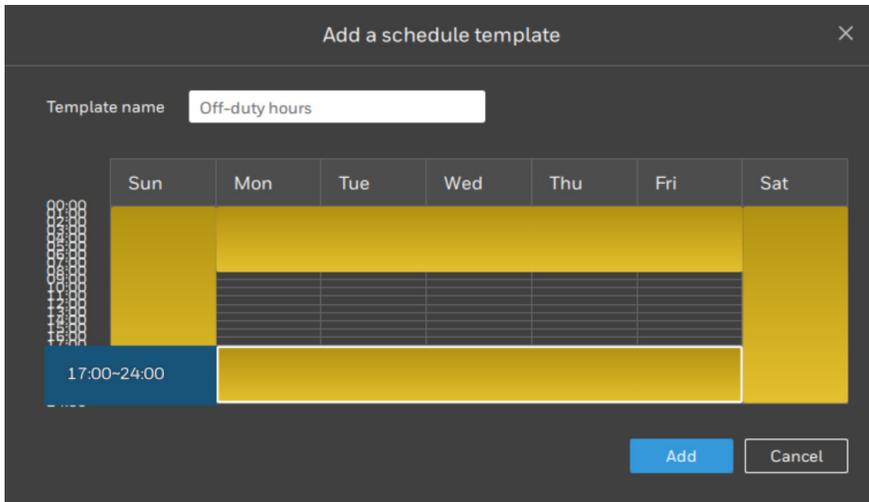
Figure 3-34 Schedule Template List



- To delete the time period, right-click the time period and select **Clear** or **Clear all**.

Adding a Schedule Template

Click **Add a schedule** as shown in [Figure 3-22](#).

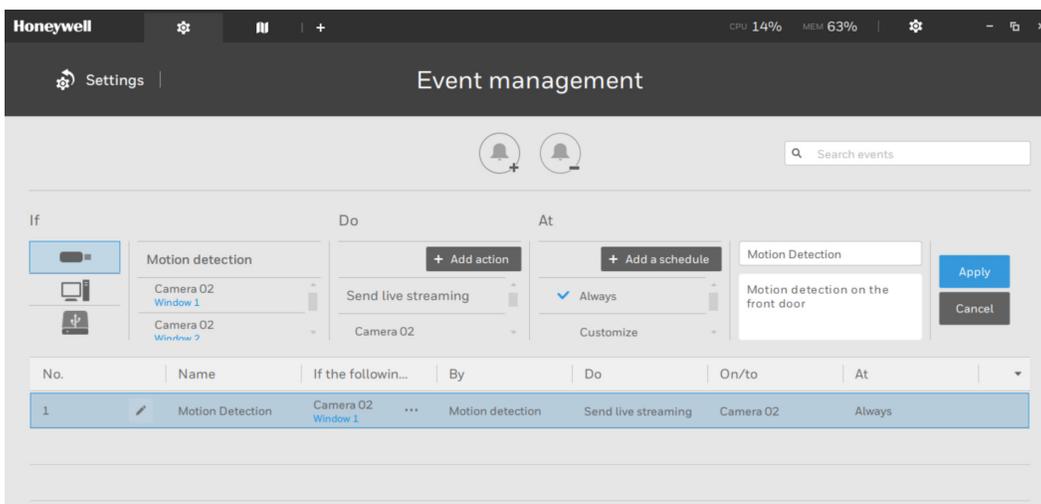


Enter a template name, drag the time period and click **Add**. The schedule template will be listed as shown in [Figure 3-34](#).

Modifying an Event

Select the target event, click  and you can modify the trigger, action, schedule, event name and notes. For details, see [Adding an Event](#) on page 18.

Figure 3-35 Modify an Event



Deleting an Event

As shown in [Figure 3-35](#), Select the target event, click .

E-Map Config

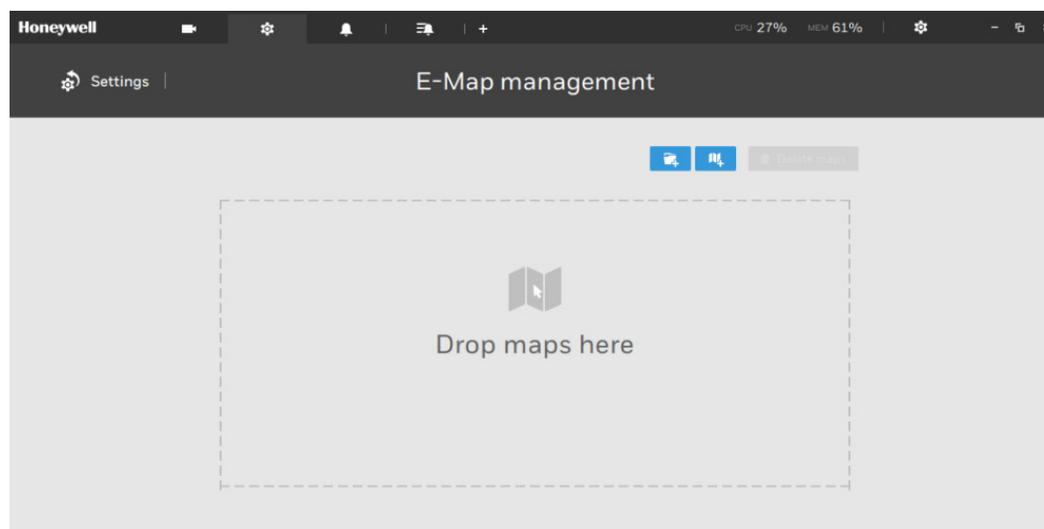
You can import an E-Map or an E-Map folder, deploy cameras, maps and alarm in/out devices on the map to show the deployment of surveillance devices and alarm in/out devices in an area.

Adding E-Map



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

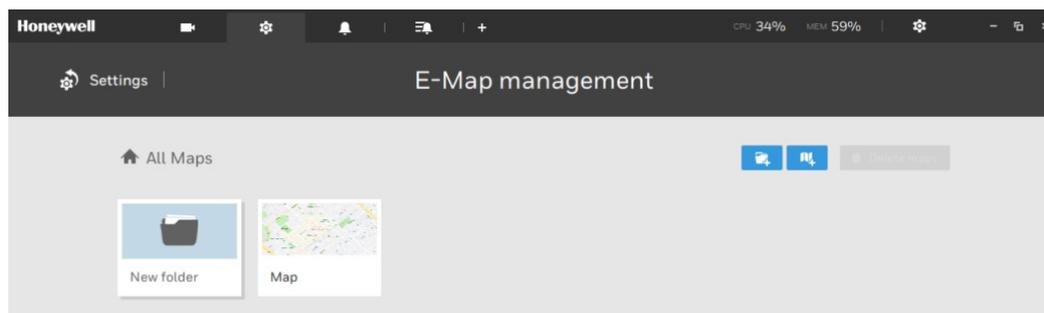
Figure 3-36 E-Map Management



Perform the following steps to configure the E-Map.

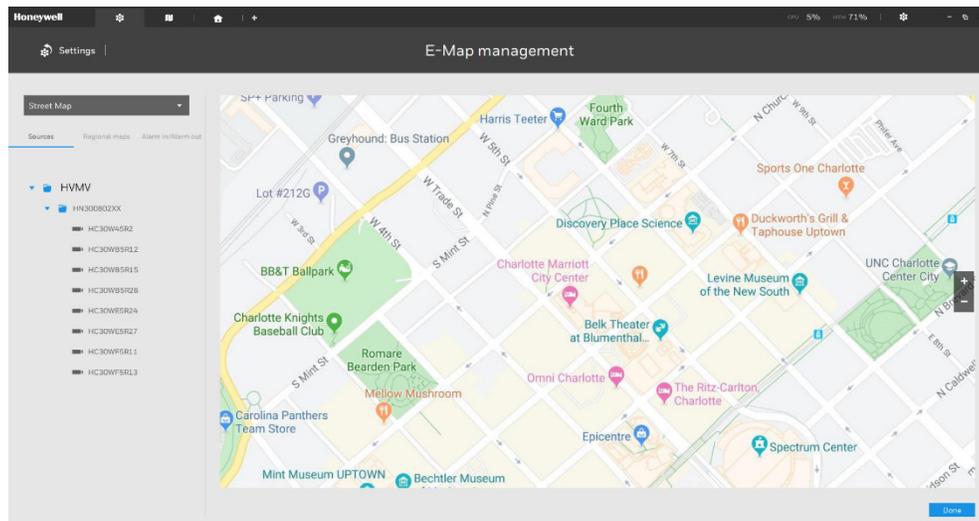
1. Import a map or a map folder.
 - Click  to import a map folder or click  to import a map.

Figure 3-37 Import Map



2. Double-click an E-Map image to configure the E-Map. Your cameras, regional maps and alarm in/out devices will be listed on the left.

Figure 3-38 Configure an E-Map



3. Drag the cameras, E-Maps or Alarm in/out devices to the target locations on the map. See [Deploying Cameras on E-Map](#) on page 29, [Deploying Regional Maps on E-Map](#) on page 31, [Deploying Alarm In/out Devices on E-Map](#) on page 31.
4. Click **Done**.

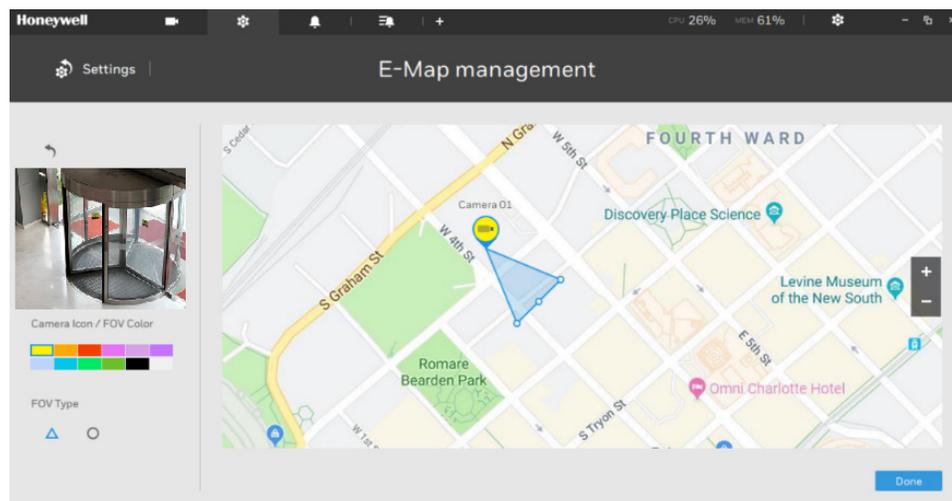
Modifying E-Map

Deploying Cameras on E-Map

Cameras can be deployed into an E-Map.

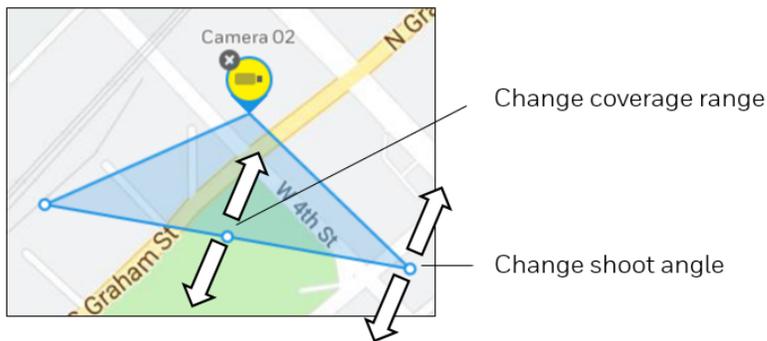
As shown in [Figure 3-38](#), drag cameras from the **Sources** list to the target location on E-Map and the following figure is displayed.

Figure 3-39 Deploy Cameras on E-Map



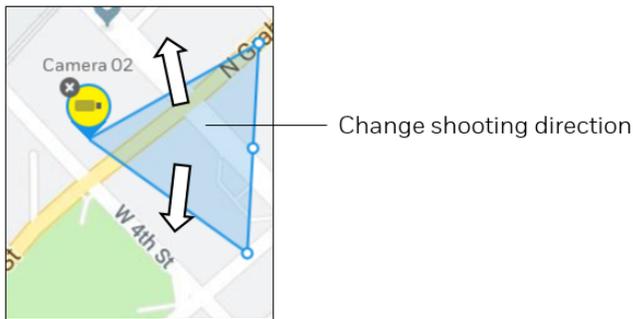
When the camera is in place, drag the FOV indicators on the edge to change the shooting angle and the coverage range.

Figure 3-40 Change Shoot Angle and Coverage Range



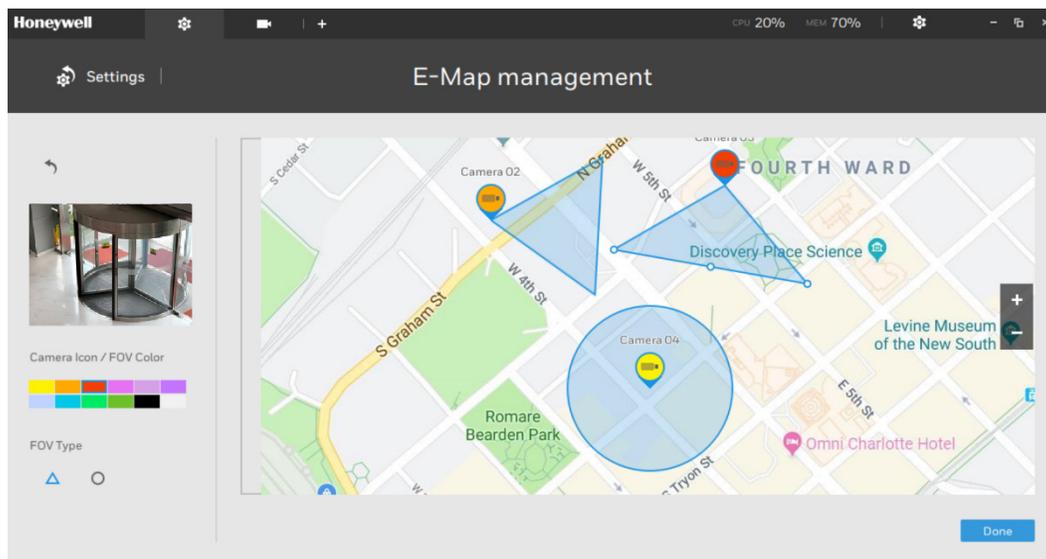
Drag the FOV to change the shooting direction to match the actual installation.

Figure 3-41 Change Shooting Direction



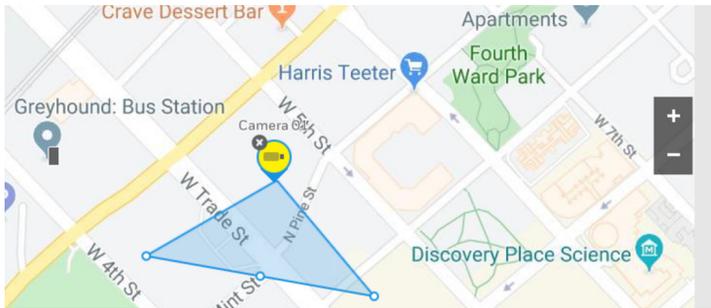
Click on the camera icon, you can also change the color of camera icon and the FOV type. Fisheye cameras, when ceiling mounted, have a round shape coverage.

Figure 3-42 Change Camera Color and FOV Type



To delete the camera on the map, click  on the target camera icon.

Figure 3-43 Delete a Camera

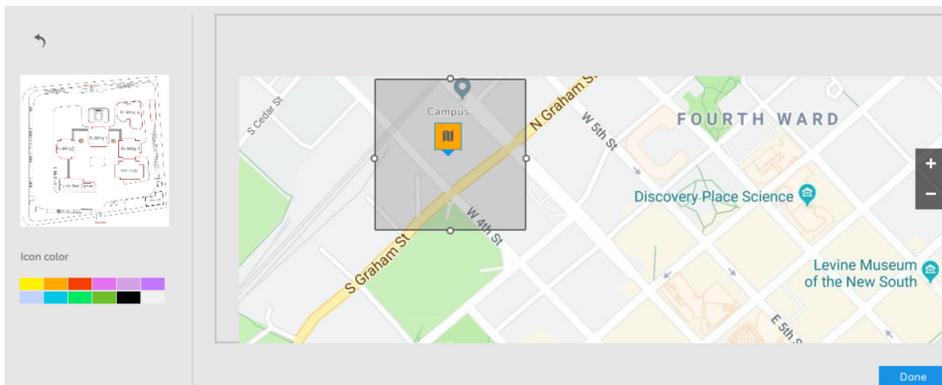


Deploying Regional Maps on E-Map

Regional maps can also be deployed into an E-Map.

As shown in [Figure 3-38](#), drag a map from the **Regional maps** list to the target location on E-Map and the following figure is displayed.

Figure 3-44 Deploy Maps on E-Map



You can change the color of map icon. Double click the map icon, you can go to the map configuration page to deploy cameras, maps and alarm in/out devices on the map.

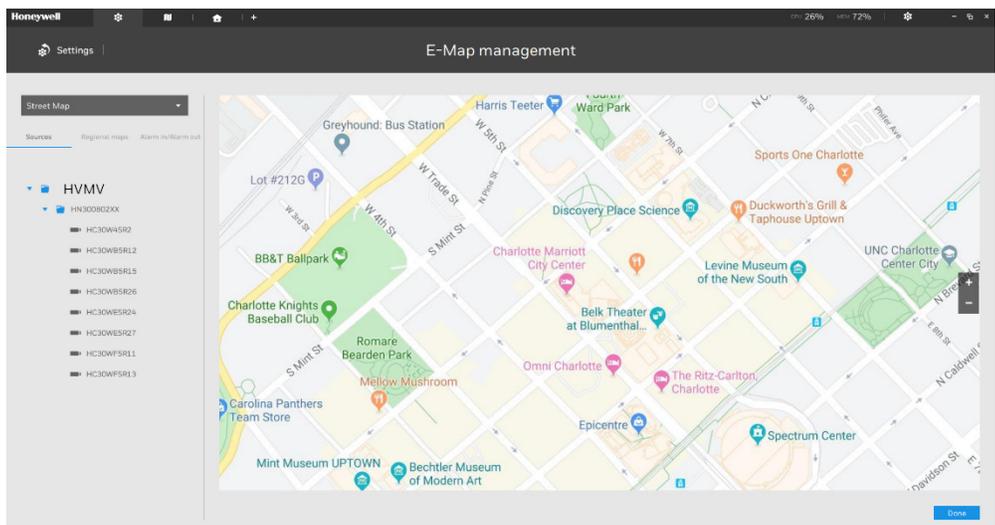
To delete the regional map on the map, click  on the target map icon.

Deploying Alarm In/out Devices on E-Map

Alarm In/out devices can also be deployed into an E-Map, such as alarm or various kinds of detectors.

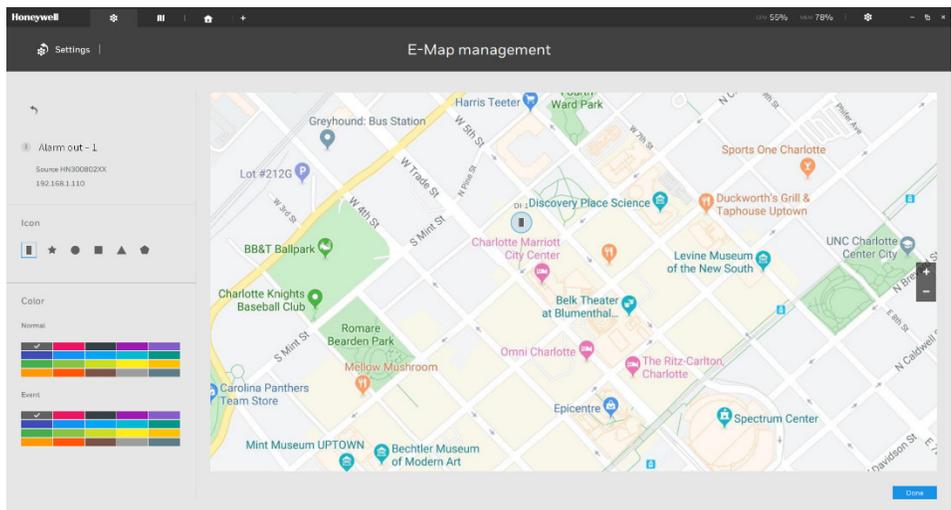
1. Select a map from the pull-down menu on the left pane.

Figure 3-45 Select a map



2. In the Alarm In/Alarm out tab, drag an alarm in/out device to a preferred location on map. You can use  or  to zoom in or zoom out the map.
3. When an alarm in/out device is selected, you can select the display colors of its icons. Configure different colors for the device status when it is normal or triggered.

Figure 3-46 Configure Icon and Color



4. When all alarm in/out devices are deployed, click **Done** on the lower right of the screen.

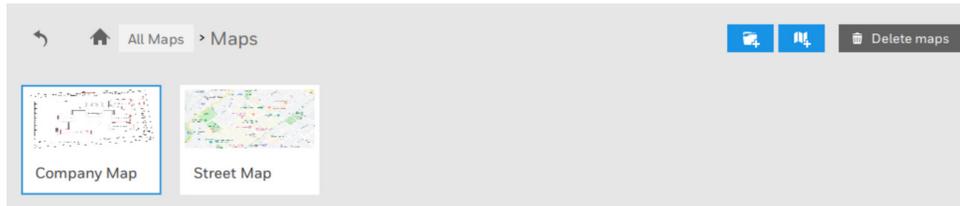
To delete the alarm in / alarm out devices on the map, click  on the target alarm in / alarm out device icon.

Deleting E-Map

Select a map or map folder, click

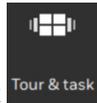


Figure 3-47 Delete E-map



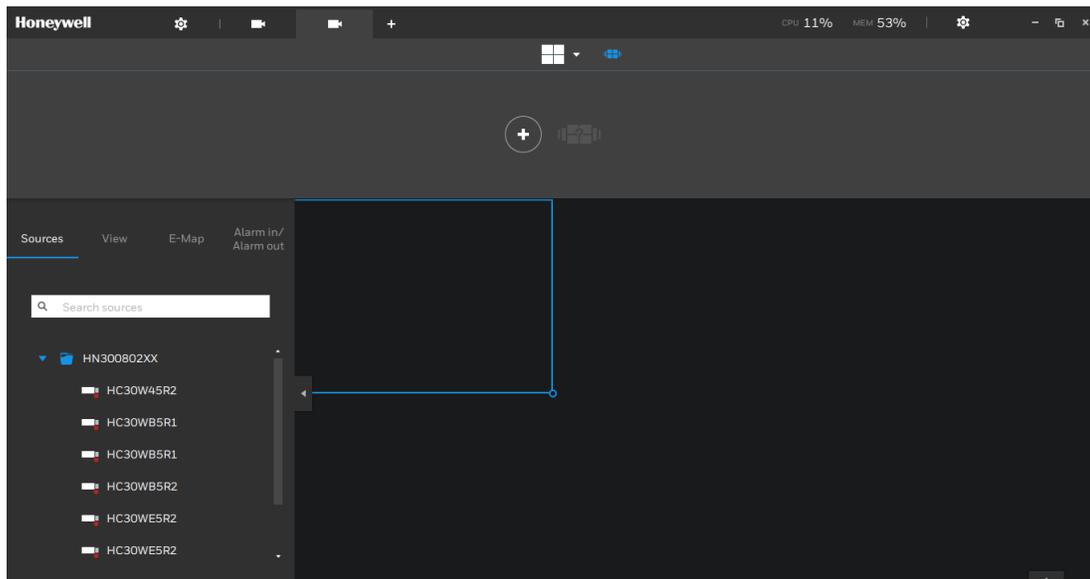
Tour & Task

You can configure a tour & task to display multiple pre-configured views one by one in a timed pattern and monitor tour among different windows. For how to configure a view, see [Configuring Views](#) on page 47.



To configure a tour & task, click **Tour & task** on the **Settings** pane in [Figure 3-2](#) to go to the following interface:

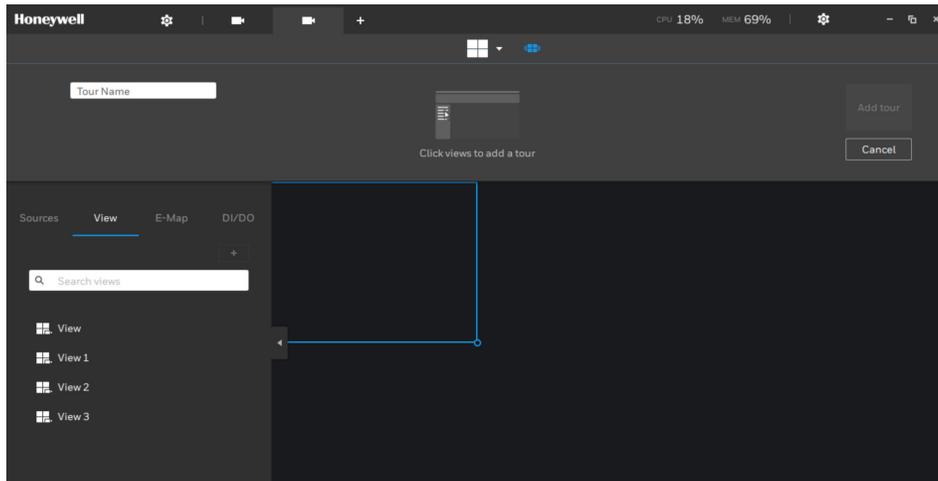
Figure 3-48 Tour & Task



Adding a Tour

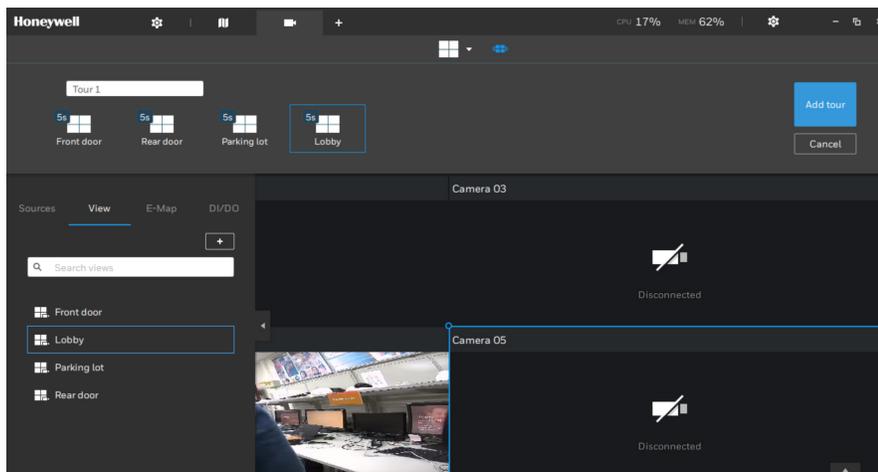
1. Click  and the following interface is displayed:

Figure 3-49 Add Tour



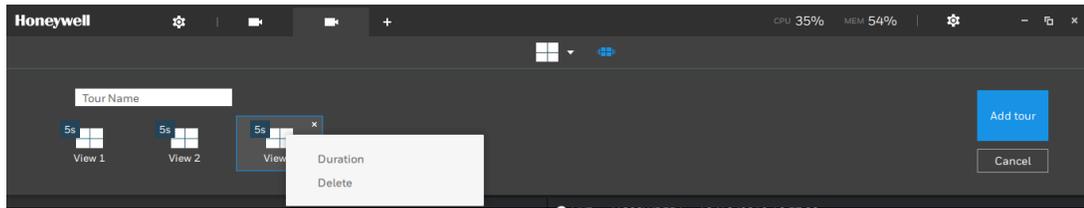
2. Enter a name for the tour.
3. Click target views from the View tab and the views will be added to the tour. Click **Add tour**.

Figure 3-50 Add View to Tour



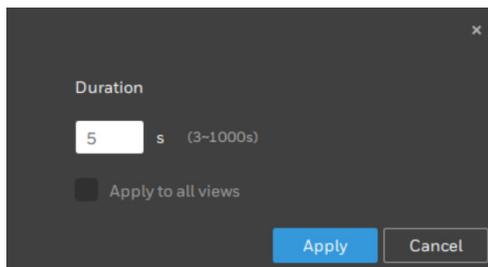
The default for the duration of the display of each view is 5 seconds. You can right-click on each view to display the Duration of each view.

Figure 3-51 Context Menu of View



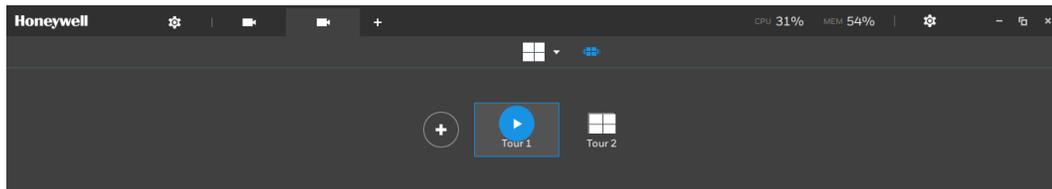
You can apply the same duration of all views, or allow each view to display on screen for a different span of time.

Figure 3-52 Set Duration



After the tour is added, mouse over a configured tour, and then click  to start a tour.

Figure 3-53 Start a Tour

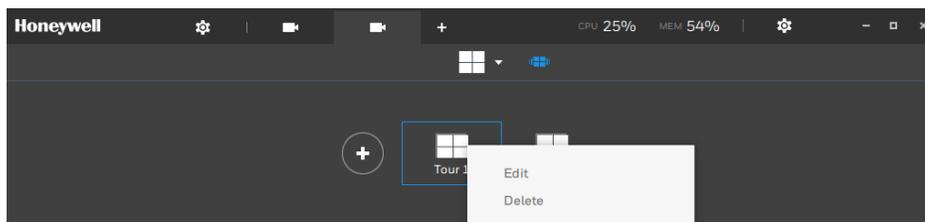


To stop the tour, left-click or right-click on the screen.

Modifying a Tour

To modify a tour, right click the tour and select **Edit**.

Figure 3-54 Modify a Tour



Then you can add or delete views, modify the name of the tour, change the duration, etc. After it is completed, click **Apply**.

Deleting a Tour

To delete a tour, right click the tour and select **Delete** as shown in [Figure 3-54](#).

System Management

You can set up SMTP and Preferences here.

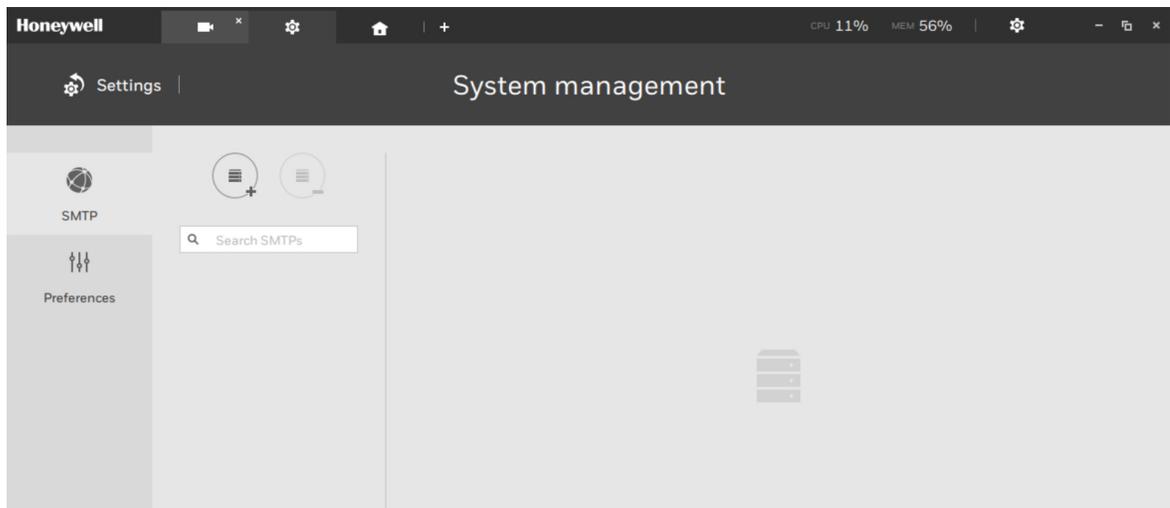
SMTP

You can configure a mail server via which the system alarms or notifications can be delivered to a receiver.



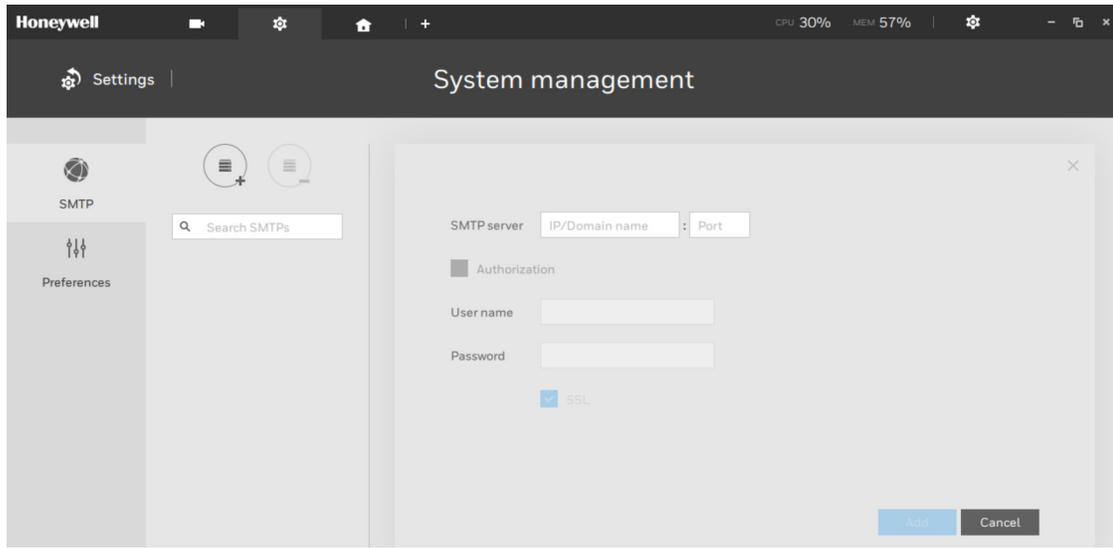
Click **SMTP** on the main interface in [Figure 3-2](#) to go to the following interface:

Figure 3-55 SMPT



Click  to add an SMTP server.

Figure 3-56 Add SMTP



Enter your mail server's domain name or IP address. Enter credentials for access to the mail service.

If SSL encrypted transmission is preferred, select its checkbox.

Click **Add** to complete the configuration.

Note

The system uses the first SMTP server by default. If the first SMTP server is failed, it will use the second one, and so on in a similar fashion.

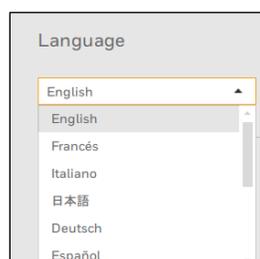
Preferences

You can configure language, downloads path, on startup settings, event and log preferences.

Language

Select a language from the dropdown list.

Figure 3-57 Language



Export

Figure 3-58 Export Settings



Location: Configure a default destination for exporting video, snapshots, or configuration backups. The default location is:

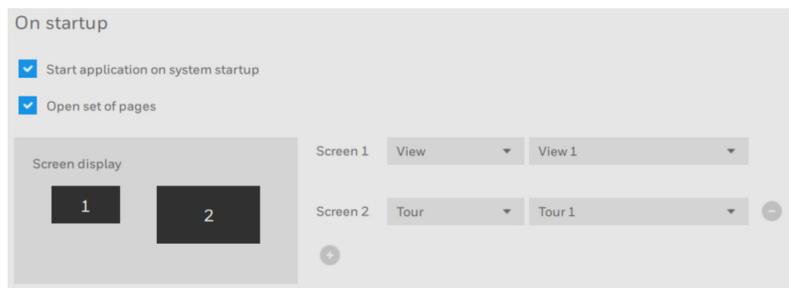
"C:/Users/Public/Documents/Honeywell Inc/HVMV/Downloads".

Snapshot format: Select from **JPG** or **PNG**.

On Startup

You can use multiple monitor screens to display Live view, Tour & Task, E-Map, or Event prompts. The precondition is that you should configure one or many views before making the Startup configuration. Below is a server/client with dual monitors, you can select one view to be displayed on one monitor, or display a tour on another.

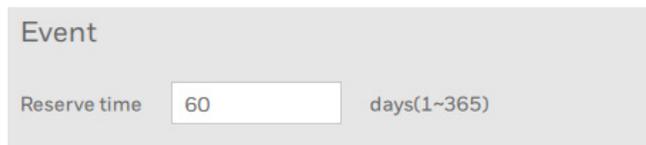
Figure 3-59 On Startup



Event

Reserve Time: Configure the preservation time of the events and logs. Configuring a preservation time can help reduce the use of storage space on server.

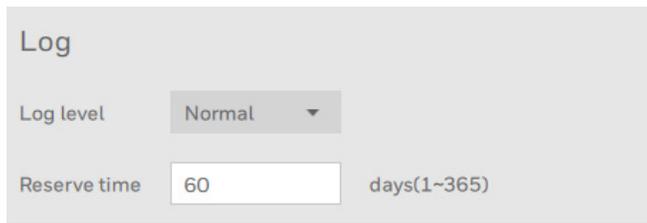
Figure 3-60 Event Reserve Time



Log

Configure the preservation time of the **Major** or **Normal** logs.

Figure 3-61 Log Settings



Log

Log level: Normal

Reserve time: 60 days(1-365)

Log level: Select a log level. It will save the logs of and above the selected log level.

Reserve time: Configure the preservation time of the logs.

After all of the above settings are completed, click **Apply** for the configuration to take effect.

Import and Export Utility

HVMV supports import and export utility for user to keep record of all server settings. You can use the export file to copy the configuration on another host.

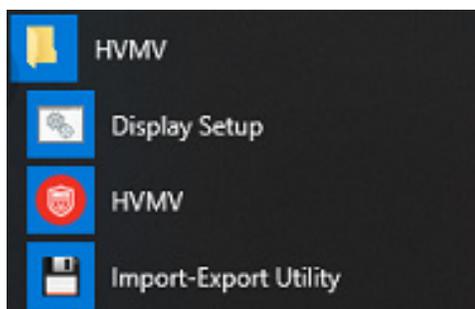
Note When exporting or importing the server settings, it will stop the server.

Export Utility

Perform the following steps to export the server settings:

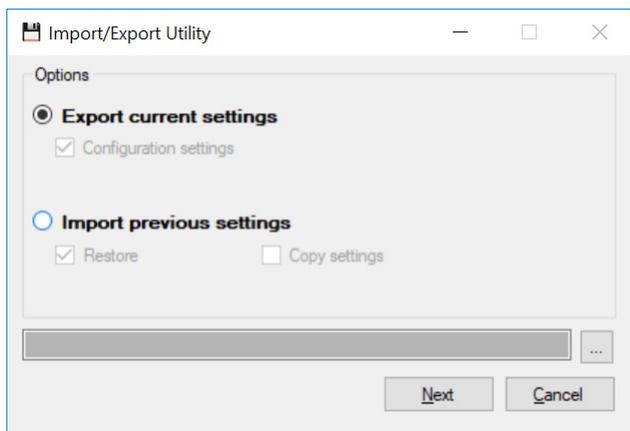
1. Under the Microsoft Windows Start menu, navigate to **Honeywell HVMV → Import-Export Utility**.

Figure 3-62 Import-Export Utility



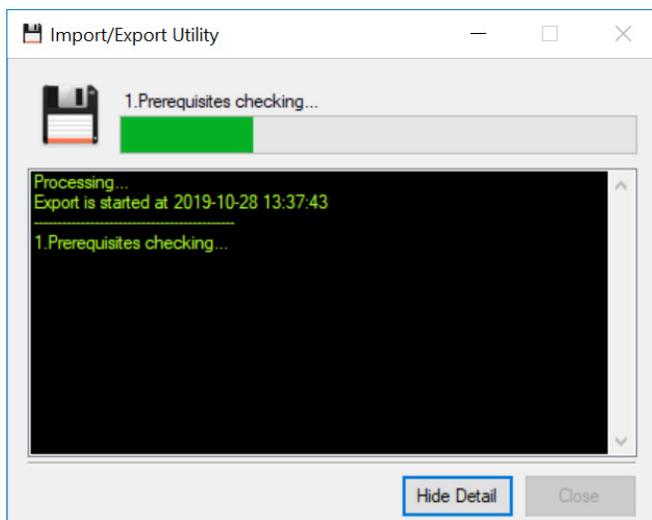
2. The Import/Export Utility window will pop up as shown in the following figure:

Figure 3-63 Import/Export Utility Window



3. Select **Export current settings**, click  to select a target folder, and click **Next**. The system will start to export a .bin file.

Figure 3-64 Export Current Settings



4. After the exporting is completed, click **Close**.

Import Utility

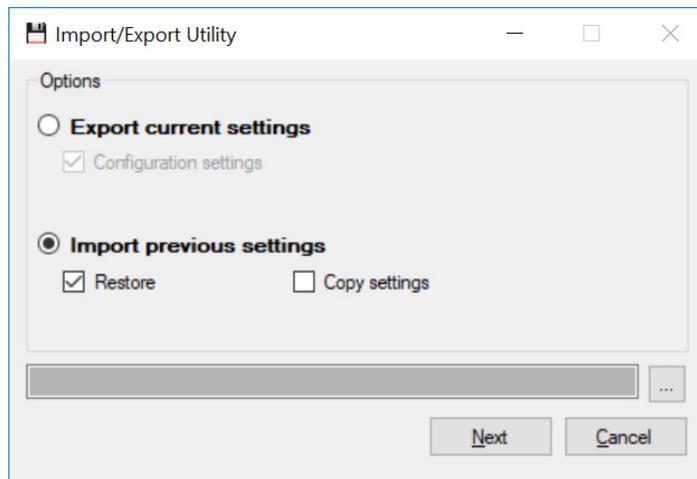
Perform the following steps to import the server settings:

1. Repeat Steps 1 and 2 of [Export Utility](#) on page 39.
2. Select **Import previous settings**, click  to select a file to be imported and select the checkbox of Restore or Copy settings.

Restore: If this is selected, the VAST server GUID will also be restored. This option applies when you need to restore as crashed server.

Copy Settings: You can use the exported profile to duplicate your configuration to multiple computers. A new server GUID will be generated.

Figure 3-65 Import Previous Settings



3. Click **Next**. After the importing is completed, click **Close**.

HVMV Service Control Tool

HVMV service control tool is a tool for server control and for user to be aware of the HVMV Server status. It starts up as Windows OS startup.

Under the Microsoft Windows Start menu, navigate to **Honeywell HVMV → Service Control**.

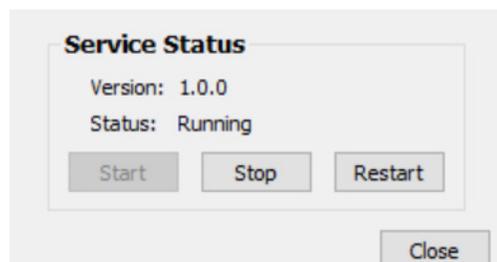
You may also find it in the system tray icon of the tool bar, which indicates that the service is running: .

It shows a disconnection icon when the service is stopped: .

A menu for the service control tool will pop up when you right-click on the icon:

Select Open HVMV Service Control and the following figure is displayed:

Figure 3-66 HVMV Service Control



Here you can manually start, stop and restart the service.

If you stop the HVMV Service Control manually, it will show the message “Failed to connect to server” when you log on to the HVMV.

4 Live View

This chapter contains the following sections:

- [Live Viewing](#) on page 43.
- [Configuring Views](#) on page 47.
- [Video Settings](#) on page 44.

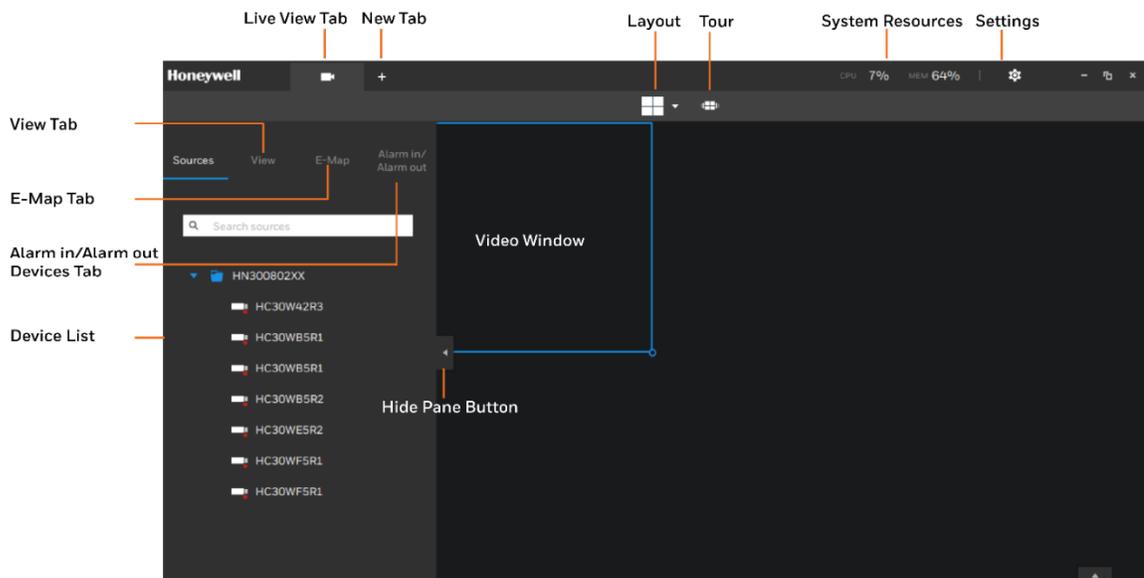
Live Viewing

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



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

Figure 4-1 Live View



Perform the following steps to set a layout and view live view in the selected layout:

1. Click to select a layout.

The available layouts are categorized into 4 types: Equal, Panorama, Focus, and Vertical.

Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8.

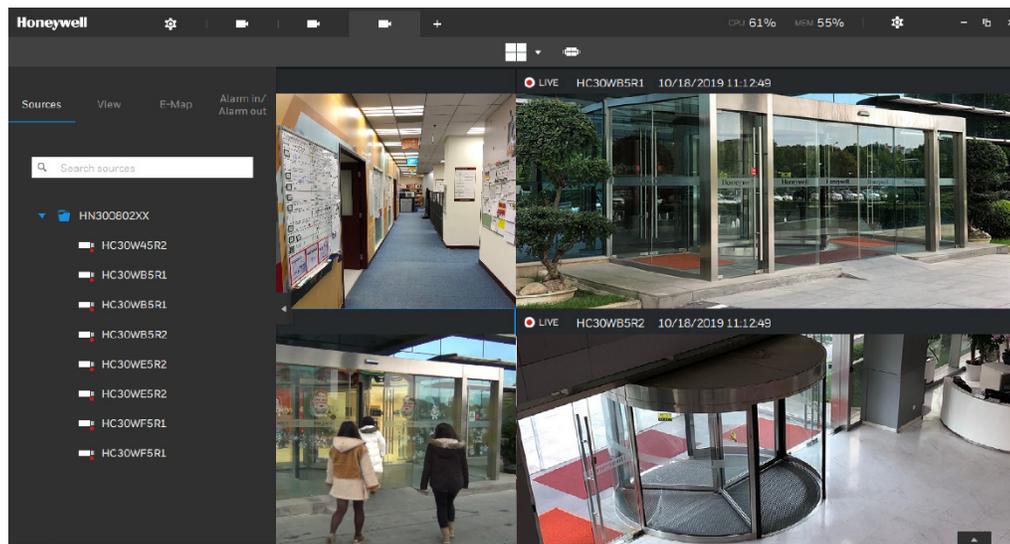
Panorama: 1P(Panoramic)+6, 2P, 2P+3, 3P. (applies to fisheye cameras)

Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8.

Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V. (applies to corridor view)

2. 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 View Live Video



Hover your mouse on top of the video window, a tool bar is displayed. See the following figure and table for tool descriptions.

Figure 4-3 Video Window Tool Bar



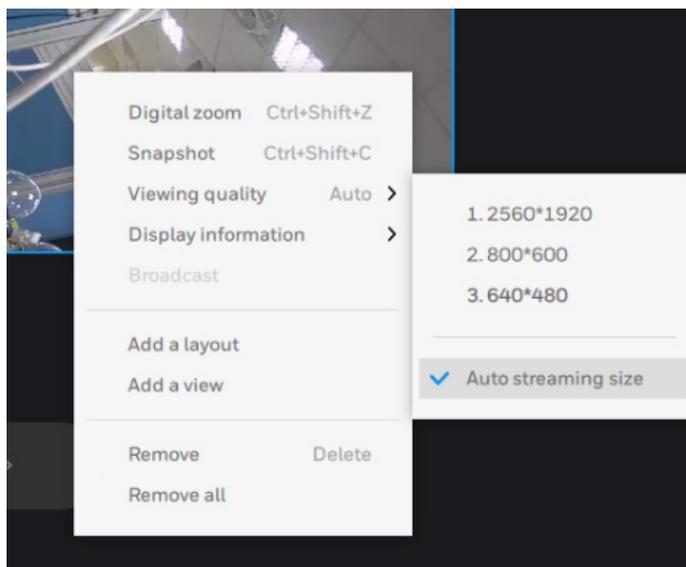
Table 4-1 Video Window Tool Bar

Name	Icon	Description
Fisheye display mode		Click to enter the fisheye dewarping mode. This icon is only available for fisheye cameras.
Snapshot		Click to take a snapshot of the current video.
Smart search		Click to enter the smart search window. For details, see Smart Search on page 61.
Playback		Click to go to the playback view.
Zoom and focus		Click to enter the zoom and focus window. This icon is only available for MFZ cameras.

Video Settings

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

Figure 4-4 Video Settings



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

Table 4-2 Video Settings

Item	Function
Digital zoom	Click to enable the digital zoom function. For details, see Digital Zoom on page 46.
Snapshot	Click to take a snapshot of the current video.
Viewing quality	Click to select a viewing quality from the context menu. If you check Auto streaming size the appropriate resolution will be automatically selected based on your current window size.
Display information	Select it to edit display information on video window. For details, see Editing Display Information on page 46.
Broadcast	If your cameras support the Two Way Audio feature and the microphone and audio output to an amplified speakers have been connected, you can right-click on the camera to display the Broadcast function. Click on the Microphone icon in the middle to start speaking. Click again to stop the Two Way Audio. Note that the Broadcast option only appears when you select a camera that supports the Two Way Audio feature.
Add a layout	Click to add the current layout as a new layout. The new layout will be shown in the customized layout list. To delete the layout, click  as shown in Figure 4-1 and click  .

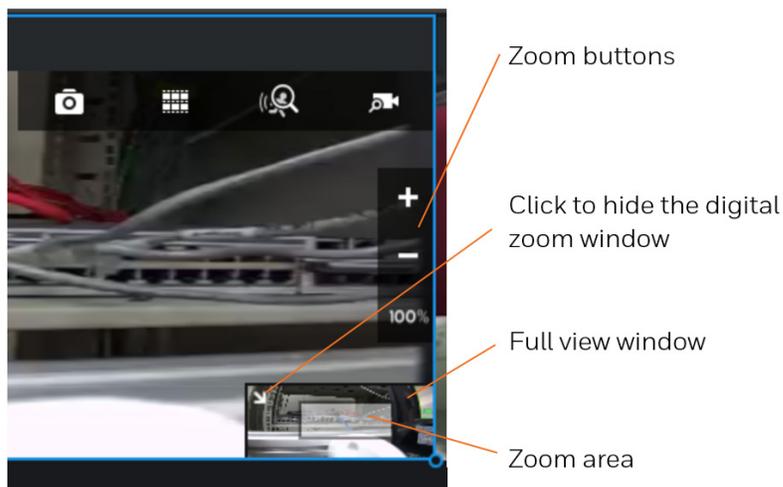
Item	Function
Add a view	Click to add the current view as a new view. For details, see Configuring Views on page 47.
Replace view	Click it and the selected view will be replaced by current layout mode.
Remove	Click to remove the video in selected window.
Remove all	Click to remove all videos in current view.

Digital Zoom

Click **Digital Zoom** to enable the digital zoom operation in a view. The zoom area shows the part of the image being magnified.

- To move to a different area you want to magnify, drag the zoom area.
- To zoom the image, scroll the mouse wheel or click the zoom buttons.

Figure 4-5 Digital Zoom

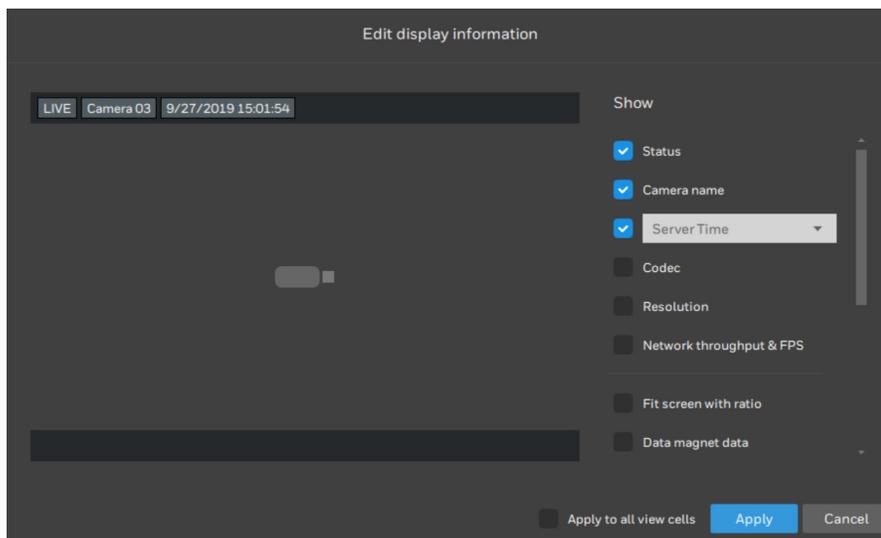


Editing Display Information

Select **Display Information** as shown in [Figure 4-4](#) and select **Edit display information** in the sub menu. Select the checkboxes to determine what kind of text overlay will be displayed on view cells. Note that you can place the overlay either on top or at the lower of the screen. Click and drag an overlay item to a preferred location. After it is completed, click **Apply**.

You can apply your current configuration to all view cells by selecting the **Apply to all view cells** checkbox.

Figure 4-6 Edit Display Information



Broadcast (Reserved)

If your cameras support the Two Way Audio feature and the microphone and audio output to an amplified speaker have been connected, you can right-click on the camera to display the Broadcast function. Click on the Microphone icon in the middle to start speaking. Click again to stop the Two Way Audio.

Note

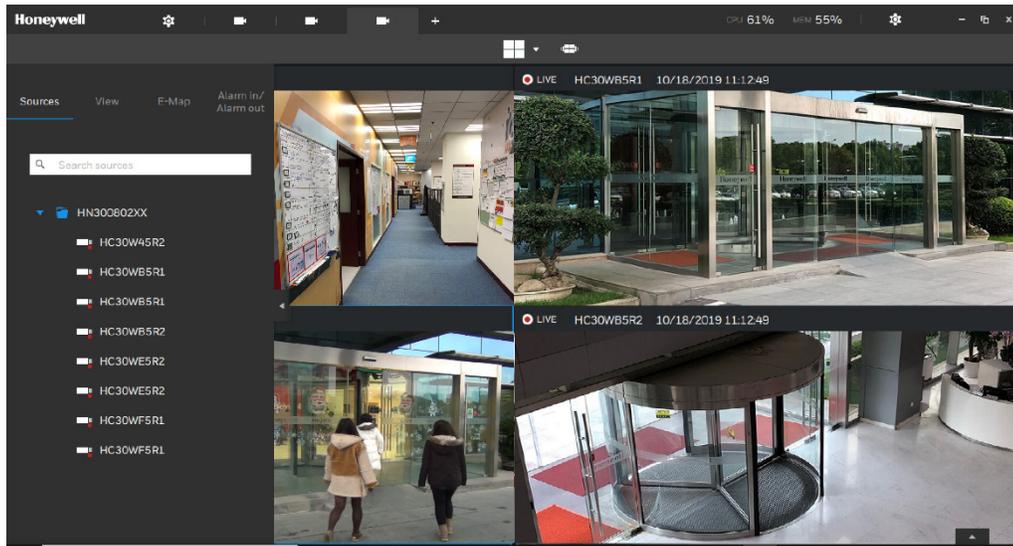
The Broadcast option is only available when you select a camera that supports the Two Way Audio feature.

Configuring Views

You can save a view with a certain layout.

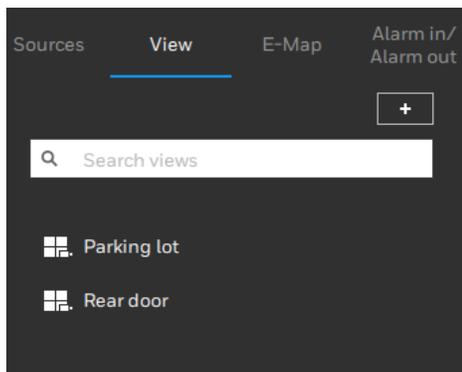
1. Click  as shown in [Figure 4-1](#) to select the window layout.
2. Drag camera(s) or map on the left pane to the video window.

Figure 4-7 Drag Cameras



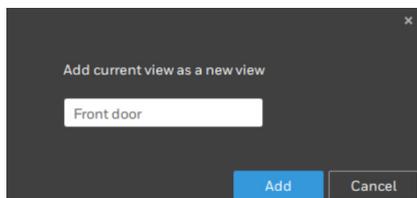
3. In the **View** tab, Click ;

Figure 4-8 Add View



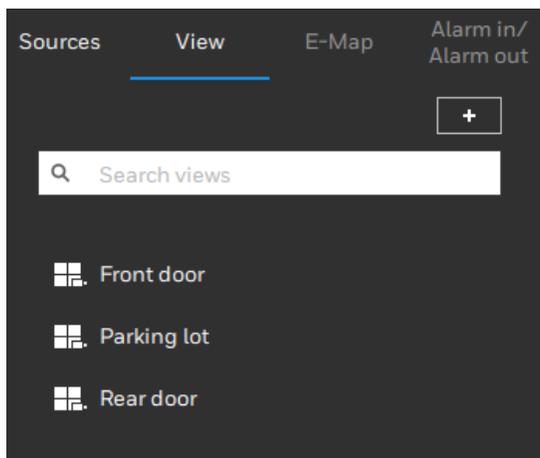
4. Enter the name of the view, click **Add**.

Figure 4-9 Enter View Name

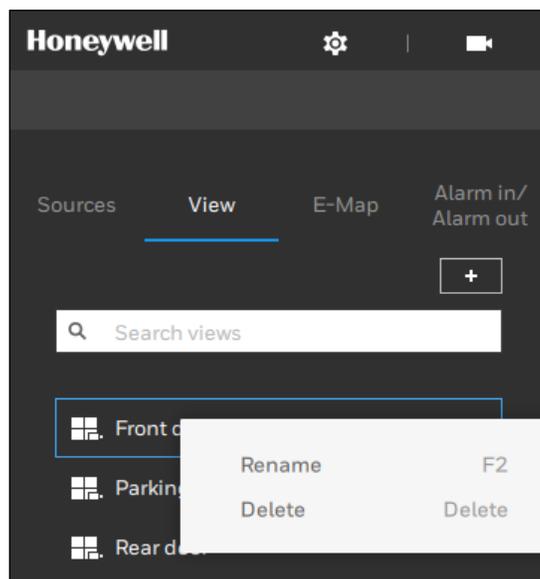


5. The view will be listed in the left pane under the View tab.

Figure 4-10 View List



To delete a view, right-click the target view and select **Delete**.

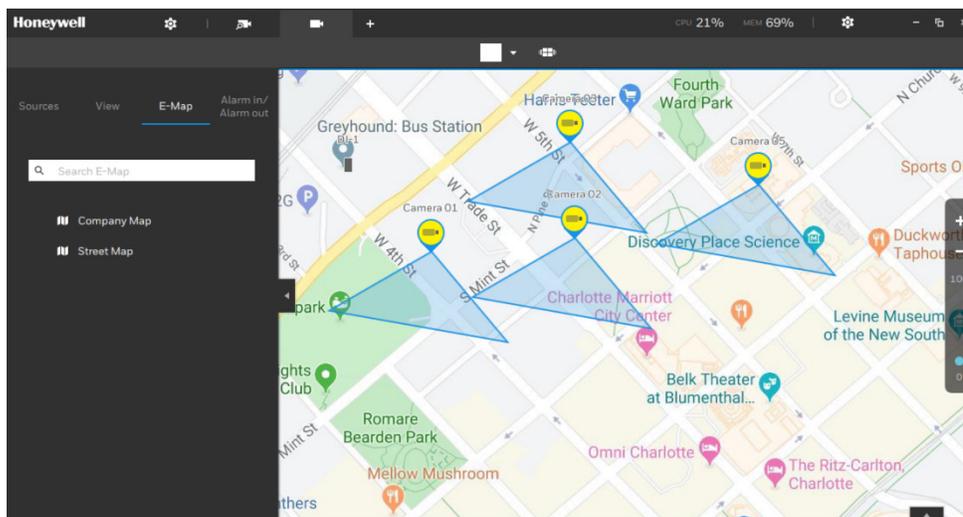


E-Map Viewing

You can also drag an E-Map into a view window. Click on the E-Map tab as shown in [Figure 4-1](#). Note that an E-Map should be placed into a larger view cell.

Depending on the resolution of your monitor, a view window can be too small for an E-Map. For example, for an HD monitor (1920x1080), a single view window from a 3x3 layout will have a resolution of 640x360. View windows larger than 330 (width) x 300 (height) pixels can contain an E-Map.

Figure 4-11 E-Map Viewing



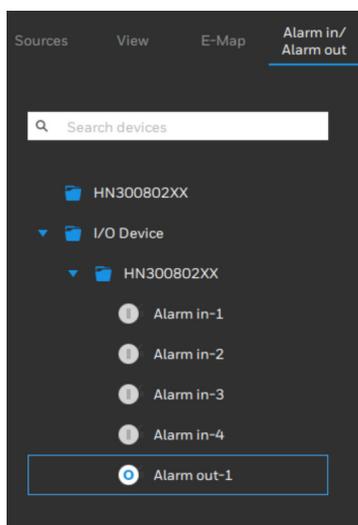
For how to operate the E-Maps, see [E-Map View](#) on page 64.

Alarm in / Alarm out

In this tab, you can view the status of alarm in / alarm out devices connected to the NVR.

- If the icon is in grey, it means the alarm in device is offline and the alarm out device is not triggered.
- If the icon is in blue, it means the alarm in device is online and the alarm out device is triggered. You can turn off the alarm by clicking the icon.

Figure 4-12 Alarm in/Alarm out

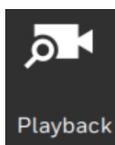


5 Playback

This chapter contains the following sections:

- [Playback Control Panel](#) on page 52.
- [Overview and Environment](#) on page 1.

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



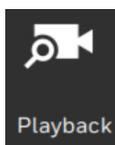
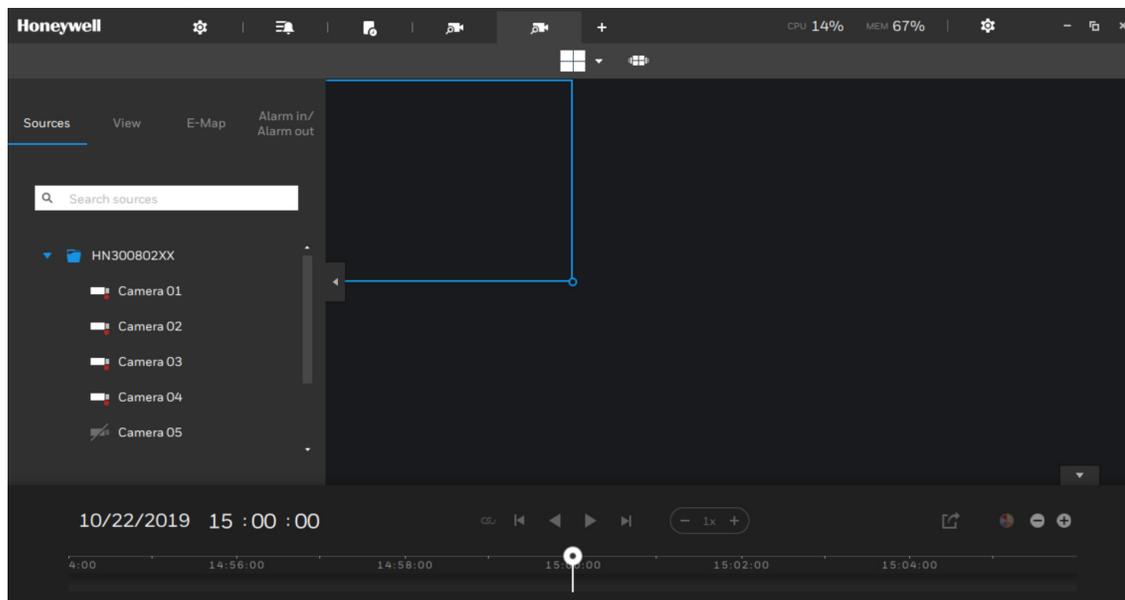
Click  on the **Operation** pane in [Figure 3-2](#) to go to the following interface:

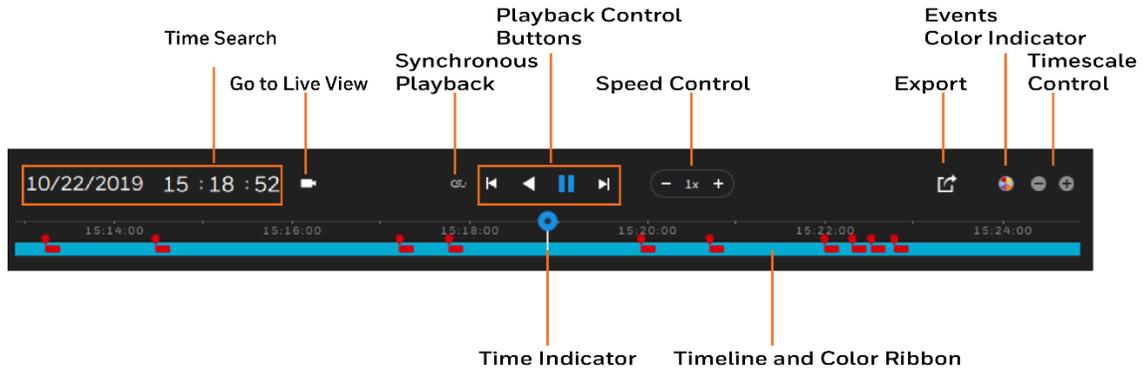
Figure 5-1 Playback



Drag a device to the target video window, and the video window will play back the video of the device.

Playback Control Panel

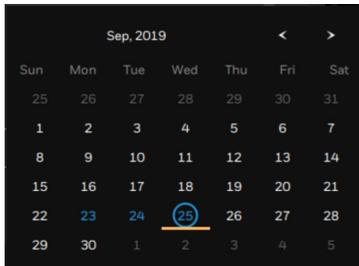
Figure 5-2 Playback Control Panel



Time Search

Click on the current date to open a calendar. If you want to review videos recorded in another day, select it from the calendar.

Figure 5-3 Calendar



Blue: dates with recordings.

Orange bottom line: Today.

White: dates with no recordings.

Click on the current time on the timeline. You can use the arrow buttons to change the time you wish to playback, or simply enter a specified number. You can also drag the time indicator along the timeline.

Figure 5-4 Change Time



Time Indicator

It shows the current playback time. You can drag the time indicator along the timeline.

Synchronous Playback

Click  to play back video of all cameras in the same view at the same time. It is recommended you create a 2x2 layout, select and insert camera views into it, and begin the Synchronous playback.

Playback Control Button



: Click to play backward/forward the video frames.



: Click to view the video in the reverse/forward playback manner.

Speed Control

The selectable speed ranges from 1/64x to 64x. When you play back videos at a speed above 16x, it will play back the video at an interval of 10s.

Note

Under the P2P mode, the performance of speed is corresponding to the network performance.

Export Clips

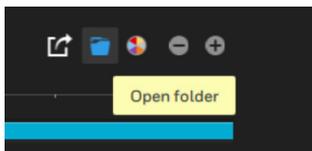
Click  as shown in [Figure 5-2](#), a range selector will appear. Drag the ends to set the time period you want to export. After it is completed, click  to export the clip.

Figure 5-5 Export Clips



When the export is completed, a shortcut to the exported clips is shown. You may then open the folder where the clips are located.

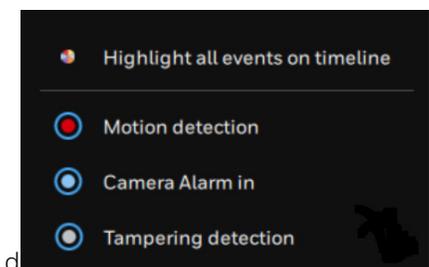
Figure 5-6 Open Folder



Events Color Indicator

It indicates the color of each type of events. The corresponding color of each type of event will be shown on the timeline.

Figure 5-7 Events Color Indicator



The following is an example of the motion detection event indicated on the timeline.

Figure 5-8 Color Indicator of Motion Detection on Timeline



Timescale Control

The default timescale is 12 mins. You can change the scale for easier browsing. Click the Zoom in and Zoom out buttons to change the timescale. The following timescales are available: 3 days, 1 day, 12 hr, 6 hr, 3 hr, 1 hr, 12 mins and 1 min.

Playback Video Window Toolbar

Hover your mouse on top of the video window, a tool bar is displayed. See the following figure and table for tool descriptions.

Figure 5-9 Playback Video Window Toolbar



Table 5-1 Playback Video Window Toolbar

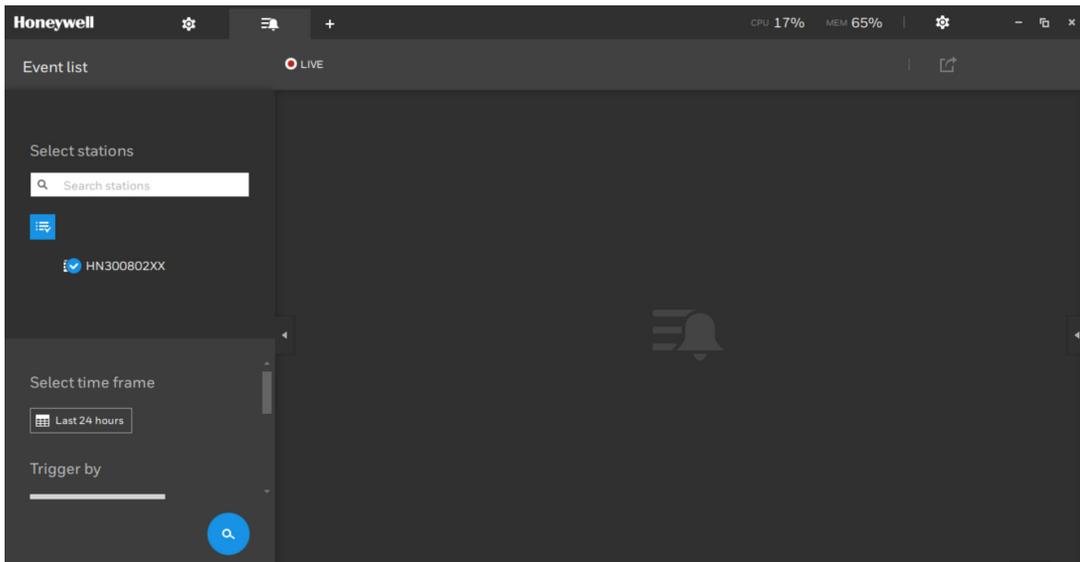
Name	Icon	Description
Snapshot		Click to take a snapshot of the current video.
Smart Search		Click to enter the smart search window. For details, see Smart Search on page 61.
Live View		Click to go to the live view.

6 Log



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

Figure 6-1 Log Search



You can search specific events by category, log type, severity, status, search criteria or by the time of occurrence using the calendar tool.

Figure 6-2 Log Results

The screenshot shows the Honeywell Log Search interface. At the top, it displays 'Log Search' and '11 results'. Below this is a table with columns: #, Time, Category, Type, User, and Description. The table contains 11 rows of log entries. On the left side, there are filters for 'Select stations' (with a search bar and a dropdown menu showing 'HN300802XX'), 'Select time frame' (with a 'Last hour' button), and 'Category' (with a search bar). An export icon (a square with an arrow pointing out) is located in the top right corner of the table area.

#	Time	Category	Type	User	Description
1	2019/10/14 14:17:51	Event	System event - Substation connected		Target station i
2	2019/10/14 14:17:51	Operation	Site - Insert station	server	New station na
3	2019/10/14 14:15:24	Operation	Login/out - Login	admin	User account=
4	2019/10/14 14:15:13	Operation	Login/out - Logout	admin	User account=
5	2019/10/14 14:14:50	Event	System event - Substation disconnected		Target station i
6	2019/10/14 14:14:50	Operation	Site - Delete station	server	Target station i
7	2019/10/14 14:13:43	Event	System event - Substation connected		Target station i
8	2019/10/14 14:13:43	Operation	Site - Insert station	server	New station na
9	2019/10/14 14:12:58	Event	System event - Substation disconnected		Target station i
10	2019/10/14 14:12:58	Operation	Site - Delete station	server	Target station i
11	2019/10/14 14:08:39	Operation	Login/out - Login	admin	User account=

Click  to export the system log as an individual log file.

Note

The “z” on the log file name of the exported file indicates the daylight saving time.

7 Search

This chapter contains the following sections:

- [Event Search](#) on page 58.
- [Smart Search](#) on page 61.
- [E-Map View](#) on page 64.

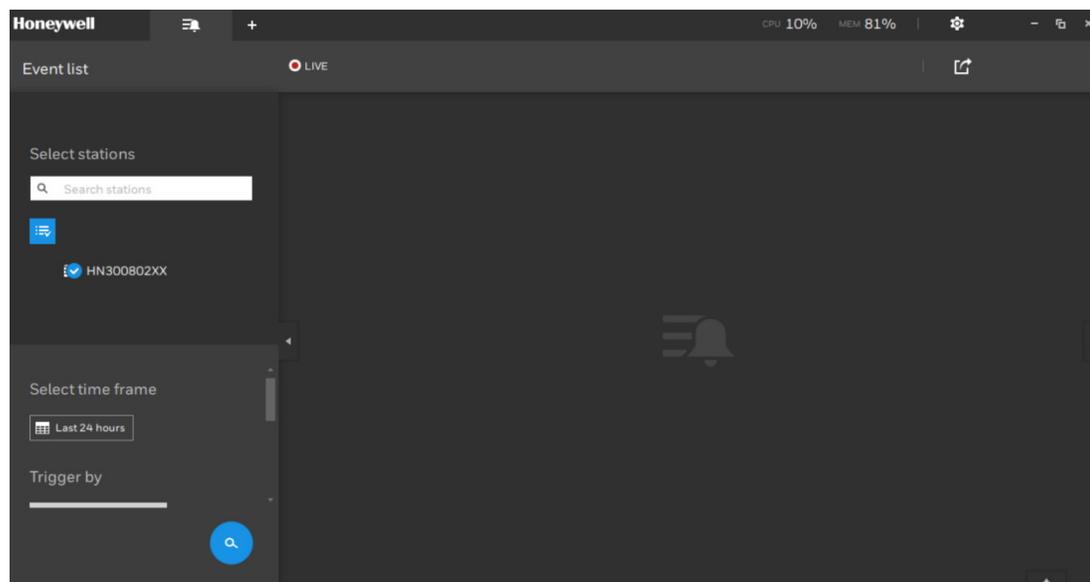
Event Search

Searching Events



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

Figure 7-1 Event Search



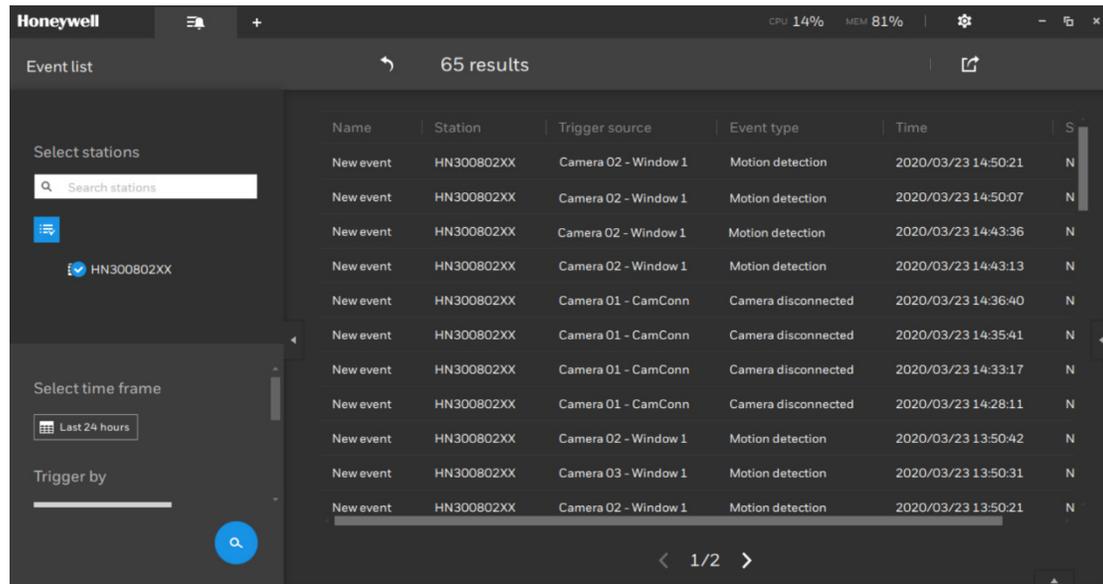
Before searching, you can use the following filtering tool to narrow down your search:

- **Time Frame:** Click  to specify the time frame you want to search for events.
- **Trigger by:** Select event triggers from All triggers, Camera, System/Site or External devices.

- **Status:** Select event status from All status, New, In progress, False event or Close.
- **Search Criteria:** Enter a keyword in the **Search Criteria** field to search the event by name or trigger source. Click  to add a criteria or click  to remove a criteria.

Click  and the following figure is displayed:

Figure 7-2 Event List



The screenshot shows the Honeywell Event List interface. On the left, there are filters for 'Select stations' (with a search box and a selected station 'HN300802XX') and 'Select time frame' (set to 'Last 24 hours'). The main area displays a table with 65 results. The table has the following columns: Name, Station, Trigger source, Event type, and Time. The events listed are:

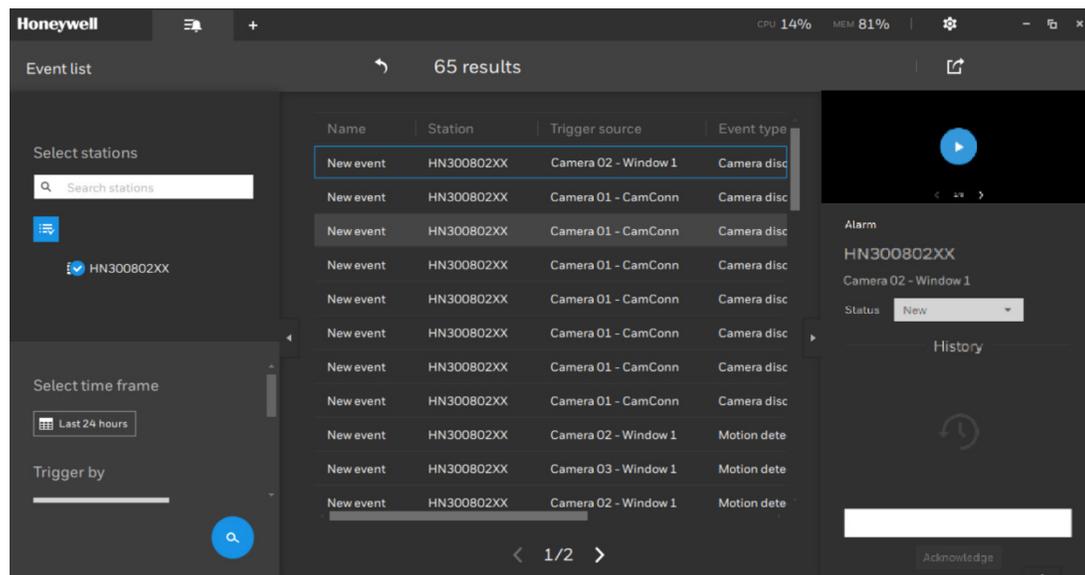
Name	Station	Trigger source	Event type	Time
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 14:50:21
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 14:50:07
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 14:43:36
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 14:43:13
New event	HN300802XX	Camera 01 - CamConn	Camera disconnected	2020/03/23 14:36:40
New event	HN300802XX	Camera 01 - CamConn	Camera disconnected	2020/03/23 14:35:41
New event	HN300802XX	Camera 01 - CamConn	Camera disconnected	2020/03/23 14:33:17
New event	HN300802XX	Camera 01 - CamConn	Camera disconnected	2020/03/23 14:28:11
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 13:50:42
New event	HN300802XX	Camera 03 - Window 1	Motion detection	2020/03/23 13:50:31
New event	HN300802XX	Camera 02 - Window 1	Motion detection	2020/03/23 13:50:21

At the bottom of the table, there is a pagination control showing '< 1/2 >'. The interface also shows system status at the top: CPU 14%, MEM 81%.

Handling Events

Double click an event and the event operation panel is displayed in the right pane.

Figure 7-3 Event Operation Panel



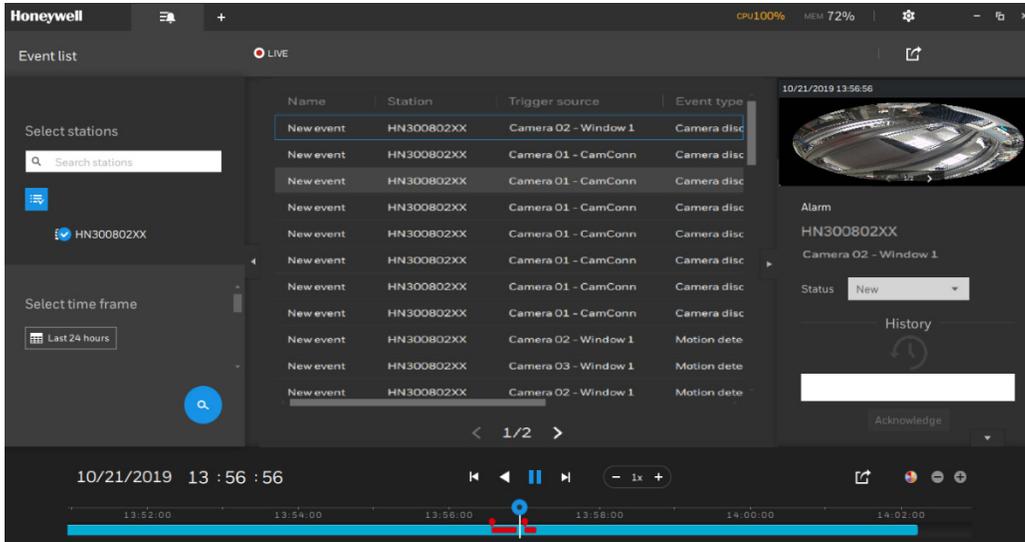
The screenshot shows the Honeywell Event List interface with the Event Operation Panel open for a selected event. The table of 65 results is visible, with the event 'New event' at 'Station' 'HN300802XX' and 'Trigger source' 'Camera 02 - Window 1' selected. The Event Operation Panel on the right displays the following information:

- Alarm:** HN300802XX
- Camera:** Camera 02 - Window 1
- Status:** New
- History:** A section for viewing the event history.
- Acknowledge:** A button to acknowledge the event.

The interface also shows system status at the top: CPU 14%, MEM 81%.

You can click  to view the video recorded by the camera when the event occurs.

Figure 7-4 Event Video



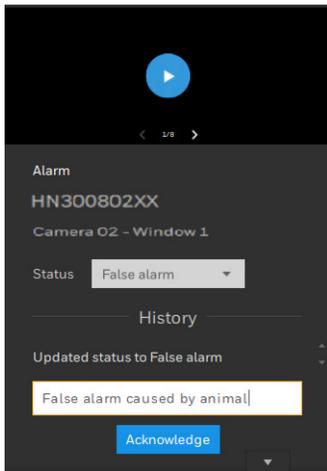
In the dropdown list of **Status**, you can change the status of the event. See the following table for the description of event status:

Table 7-1 Event Status

Status	Description
New	An event to be handled.
In progress	Select to indicate that the event is being handled, e.g., a security staff has been sent to verify the cause of the event.
False alarm	Select to indicate the event has been verified as a false alarm.
Close	Select to remove the event from the event list.

After a status is selected, click **Acknowledge** to confirm the operation. Enter a note, if any. The operation history will be recorded in the **History** list.

Figure 7-5 Acknowledge the Event



Exporting Events

As shown in [Figure 7-2](#), you can click  to export a full list of all triggered events into a CSV file.

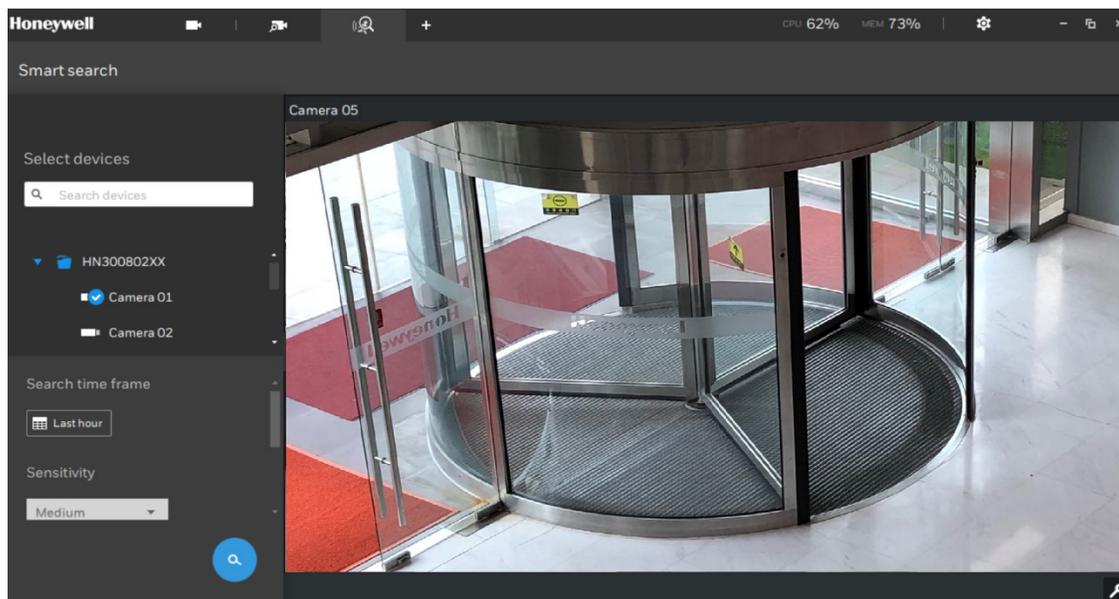
Smart Search

The Smart search function enables a quick glimpse of activities occurred within a user configurable detection area from the recorded videos.



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

Figure 7-6 Smart Search



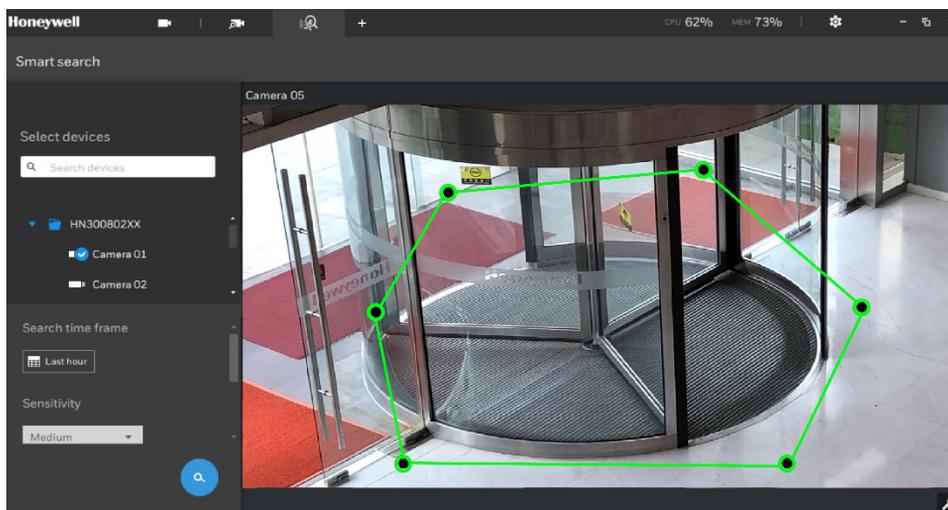
Before searching, you can use the following filtering tool to narrow down your search:

- **Time frame:** Click  to specify the time frame you want to search for events.
- **Sensitivity:** Configure the sensitivity for the detection of the activities in scene. Low for near scene, high sensitivity for long distance scenes.
- **Continuous detection for exclusion:** If the detected motion persists for longer than the time threshold, the motion will be counted as a detection result.
- **Intervals between search results:** The intervals for defining and revealing the detection search results.

Perform the following steps to execute the smart search:

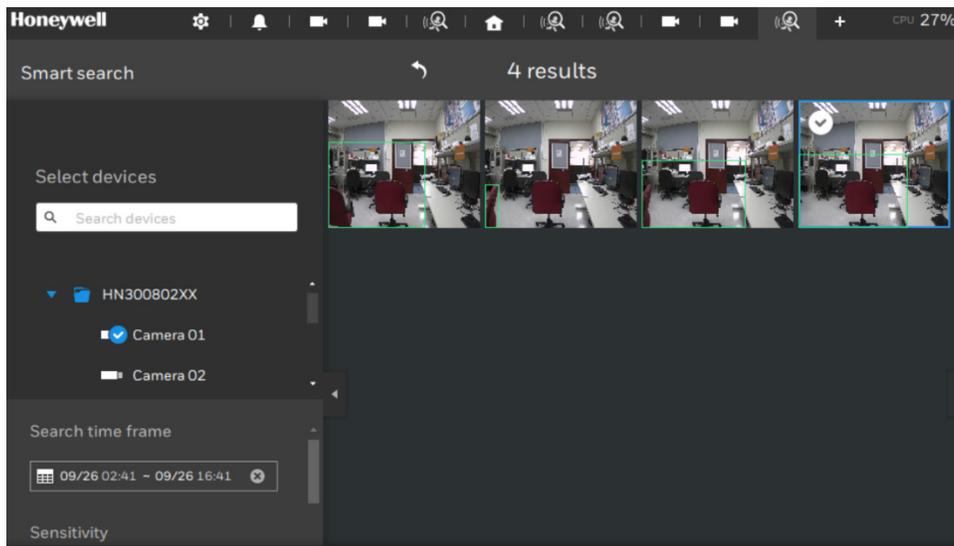
1. Draw a polygon with multiple mouse clicks to set areas where activities of your interest occurred. Double-click to close a polygon.

Figure 7-7 Draw a Polygon



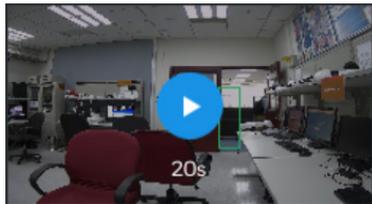
- Click . The search results display as the snapshots of the associated video clips.

Figure 7-8 Smart Search Result



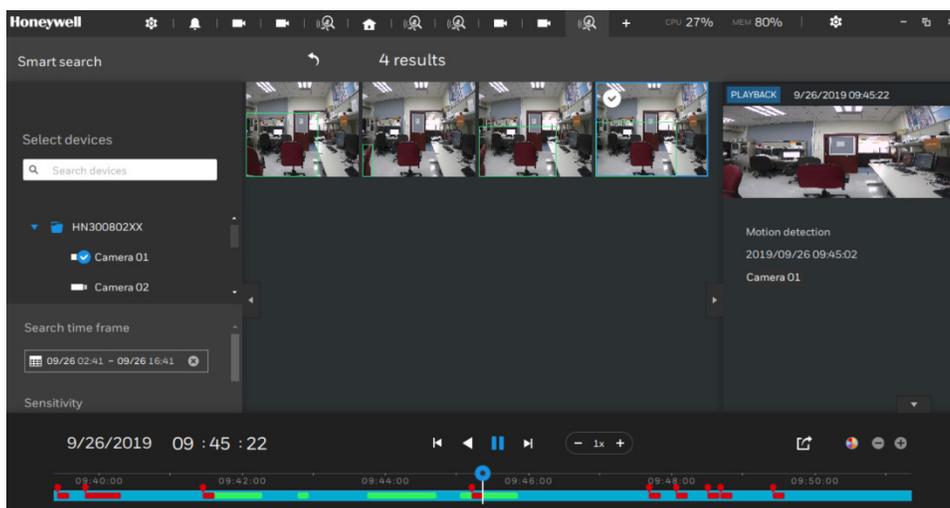
Hover the screen with your mouse, and the length of each video clip is displayed.

Figure 7-9 Video Clip Length



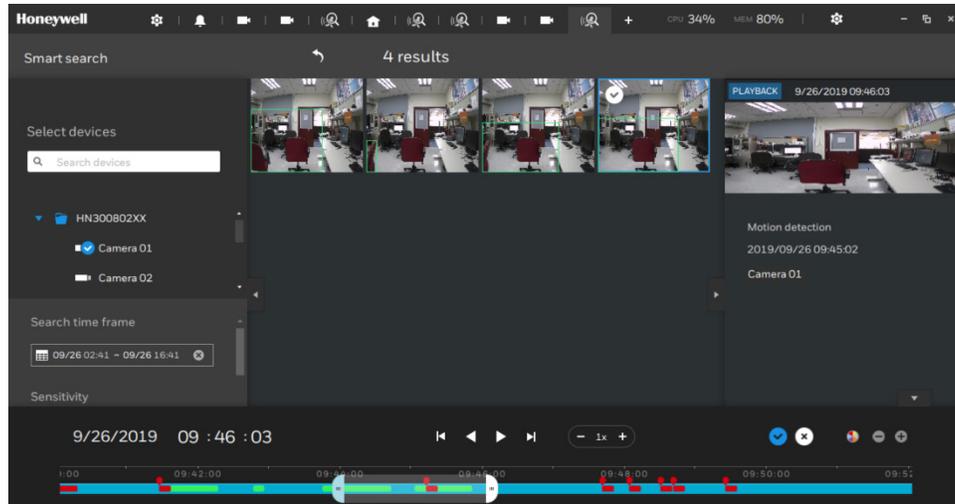
- Click to playback the video clips with activities in the detection zones. Note that unless interrupted, the playback continues with all detection zone clips, by continuing to the successive clips.

Figure 7-10 View Search Video Clip



4. If you find important events, use the Export function to mark the start and end points on the timeline to export a video clip. Use the ends on time line to determine the clip length. By default, the clip length is 2 minutes long. The playback control panel in the Smart search window is identical to that on the Playback window.

Figure 7-11 Export Video Clip

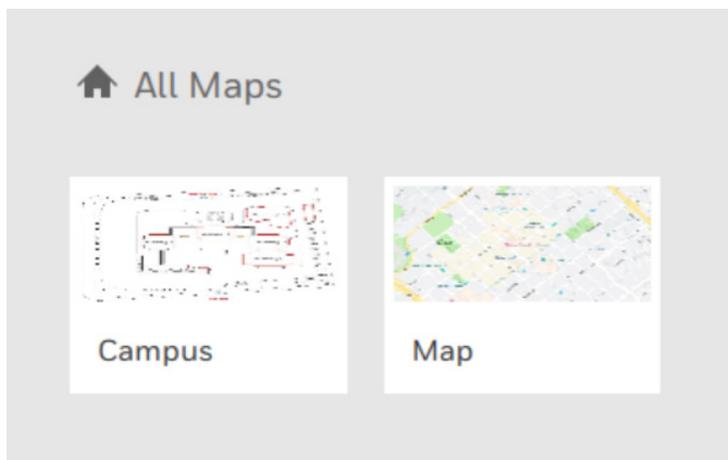


E-Map View



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

Figure 7-12 E-Map View



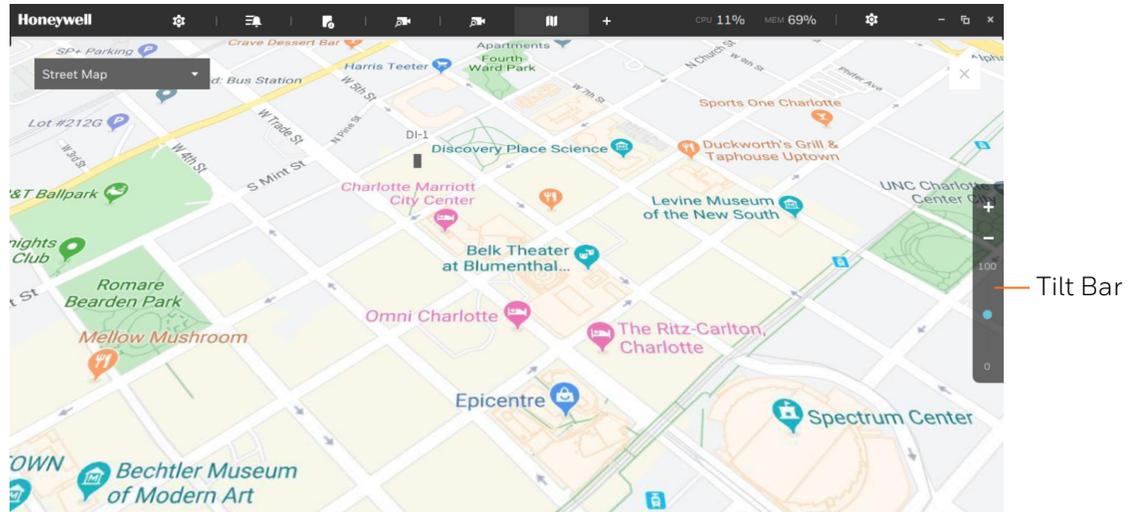
Double-click the target map to view the map.

To zoom in or zoom out the map, click **+** or **-** scroll the mouse forward or backward.

You can use the tilt bar on the right to tilt the E-Map image. Doing so creates a sense of distance and depth of view.

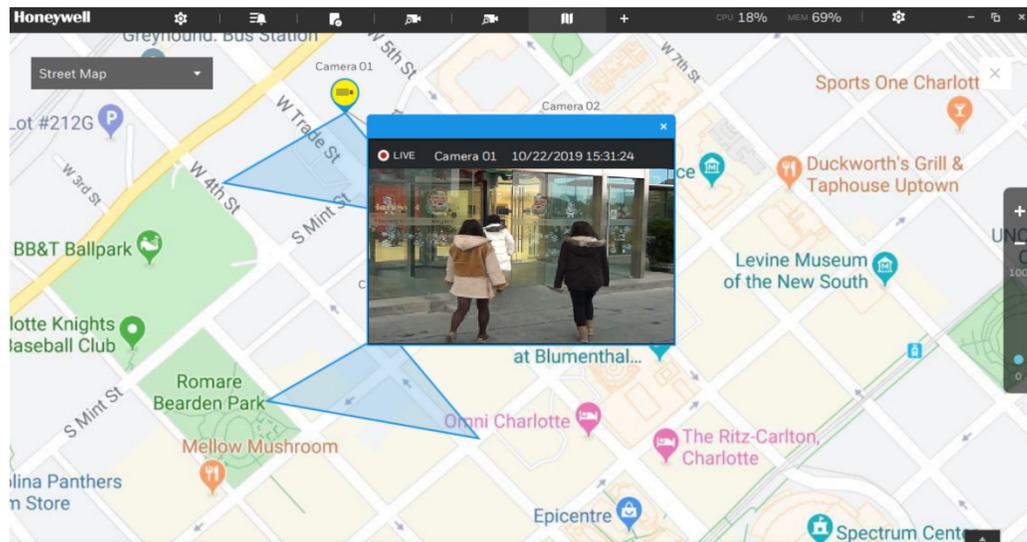
To view other maps, select other maps from the dropdown list on the top left corner.

Figure 7-13 Tilt E-Map Image



To see live streams from cameras, click on the camera icons in the E-Map.

Figure 7-14 View Live Streams from Camera



Honeywell Building Technologies – Security Americas (Head Office)

Honeywell Commercial Security

715 Peachtree St. NE

Atlanta, GA 30308

www.security.honeywell.com/

☎ +1 800 323 4576

Honeywell Building Technologies – Security Mexico

Mexico: Av. Santa Fe 94, Torre A, Piso 1, Col. Zedec,

CP 0121, CDMX, Mexico.

Colombia: Edificio Punto 99, Carrera 11a.

98-50, Piso 7, Bogota, Colombia.

clarsupport@honeywell.com

www.honeywell.com

☎ 01.800.083.59.25

Honeywell Colombia SAS

Carrera 11A # 98-50, Edificio Punto 99, Piso 7

Bogotá DC, Colombia

Honeywell Building Technologies – Security Middle East/N. Africa

Emaar Business Park, Sheikh Zayed Road

Building No. 2, 2nd floor, 201

Post Office Box 232362

Dubai, United Arab Emirates

www.honeywell.com/security/me

☎ +971 44541704

Honeywell Building Technologies – Security Europe/South Africa

Aston Fields Road, Whitehouse Industrial Estate

Runcorn, WA7 3DL, United Kingdom

www.honeywell.com/security/uk

☎ 08448 000 235

Honeywell Building Technologies – Security Northern Europe

Stationsplein Z-W 961, 1117 CE Schiphol-Oost, The Netherlands

www.security.honeywell.com/nl

☎ +31 (0) 299 410 200

Honeywell Building Technologies – Security Deutschland

Johannes-Mauthe-Straße 14 72458 Albstadt, Germany

www.security.honeywell.de

☎ +49 (0) 7431 801-0

Honeywell Building Technologies – Security France

Immeuble Lavoisier

Parc de Haute Technologie 3-7 rue Georges Besse

92160 Antony, France

www.security.honeywell.com/fr

☎ +33 (0) 1 40 96 20 50

Honeywell Building Technologies – Security Italia SpA

Via Achille Grandi 22, 20097 San Donato Milanese (MI),

ITALY

www.security.honeywell.com/it

Honeywell Building Technologies – Security España

Josefa Valcárcel, 24

28027 - Madrid

España

www.honeywell.com

☎ +34 902 667 800

Honeywell Building Technologies – Security Россия и СНГ

121059 Moscow, Ul, Kiev 7 Russia

www.security.honeywell.com/ru

☎ +7 (495) 797-93-71

Honeywell Building Technologies – Security Asia Pacific

Building #1, 555 Huanke Road, Zhang Jiang Hi-Tech Park

Pudong New Area, Shanghai, 201203, China

www.asia.security.honeywell.com

☎ 400 840 2233

Honeywell Building Technologies – Security and Fire (ASEAN)

Honeywell International Sdn Bhd

Level 25, UOA Corp Tower, Lobby B, Avenue 10, The Vertical,

Bangsar South City, 59200, Kuala Lumpur, Malaysia

Visit Partner Connect: www.partnerconnect.honeywell.com

Email: buildings.asean@honeywell.com

Technical support (Small & Medium Business):

Vietnam: +84 4 4458 3369

Thailand: +66 2 0182439

Indonesia: +62 21 2188 9000

Malaysia: +60 3 7624 1530

Singapore: +65 3158 6830

Philippines: +63 2 231 3380

Honeywell Home and Building Technologies (India)

HBT India Buildings

Unitech Trade Centre, 5th Floor,

Sector – 43, Block C, Sushant Lok Phase – 1,

Gurgaon – 122002, Haryana, India

Visit Partner Connect: www.partnerconnect.honeywell.com

Email: HBT-IndiaBuildings@honeywell.com

Toll Free No: 1-800-103-0339

☎ +91 124 4975000

Honeywell Building Technologies – Security and Fire (Korea)

Honeywell Co., Ltd. (Korea)

5F SangAm IT Tower,

434, Worldcup Buk-ro, Mapo-gu,

Seoul 03922, Korea

Visit: <http://www.honeywell.com>

Email: info.security@honeywell.com

Customer support: HSG-CS-KR@honeywell.com; +82 1522-8779

☎ +82-2-799-6114

Honeywell Building Technologies – Security & Fire (Pacific)

Honeywell Ltd

9 Columbia Way

BAULKHAM HILLS NSW 2153

Visit: www.honeywellsecurity.com.au

Email: hsf.comms.pacific@Honeywell.com

Technical support:

Australia: 1300 220 345

New Zealand: +64 9 623 5050

Honeywell

www.honeywell.com/security

+1 800 323 4576 (North America only)

<https://www.honeywellsystems.com/ss/techsupp/index.html>

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