

Surveillance Station User's Guide - Based on version 9.0

Synology

Table of Contents

Get Started with Surveillance Station	3
Surveillance Station Desktop	3
Taskbar	4
Deploy IP Cameras	6
Install IP Cameras	6
Utilize Camera Features	8
Set up event detection and receive notifications	10
Large-Scale Deployment	11
Monitor Camera Feeds	15
View camera feeds through Monitor Center	15
Configure Monitor Center layout	16
Take snapshots of important events	17
Configure instant alerts in Monitor Center	17
Set up scheduled patrol with PTZ Control and Action Rule	18
Stream live video	19
Manage Video Recordings	21
Manage video recordings	21
Manage video archives	22
Smart Time Lapse	24
Work with I/O Modules	25
Install I/O modules	25
Notification	27
Receive notifications via different channels	27
Configure additional notification settings	30
Action Rules	32
Set up action rules	32
Track action rule history	33
Modify action rule storage	34
Archive Vault	35
Configure archiving tasks	35
Configure bandwidth control	36
License	37
Install licenses on Surveillance Station	37
Purchase licenses	38
CMS	39

Operate CMS Servers	39
CMS Failover	41
Additional Features	43
Home mode	43
Maps	44
Snapshot	44
Log	45

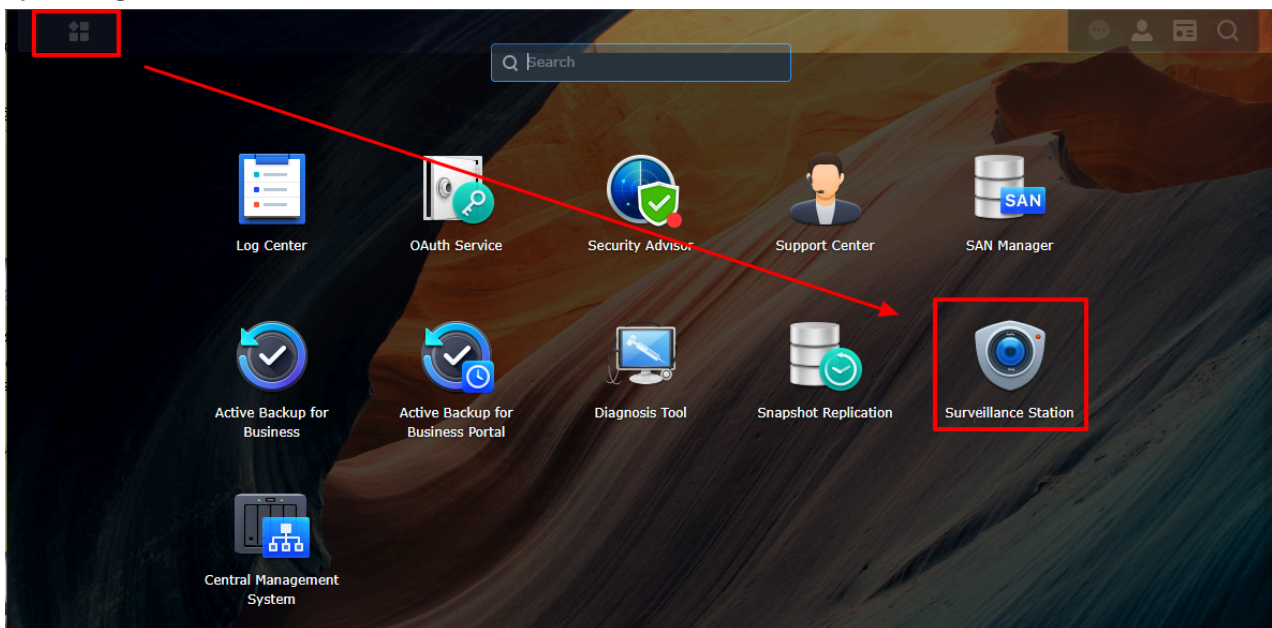
Get Started with Surveillance Station

Surveillance Station is a professional Network Video Recording (NVR) package. You can use Surveillance Station along with existing surveillance equipment to gain situational awareness, allowing you to make informed decisions to safeguard your home and office environment efficiently.

Assuming that you have completed the hardware setup and installation of your Synology DiskStation Manager (DSM) or Network Video Recorder (NVR), this chapter will navigate you through the Surveillance Station desktop.

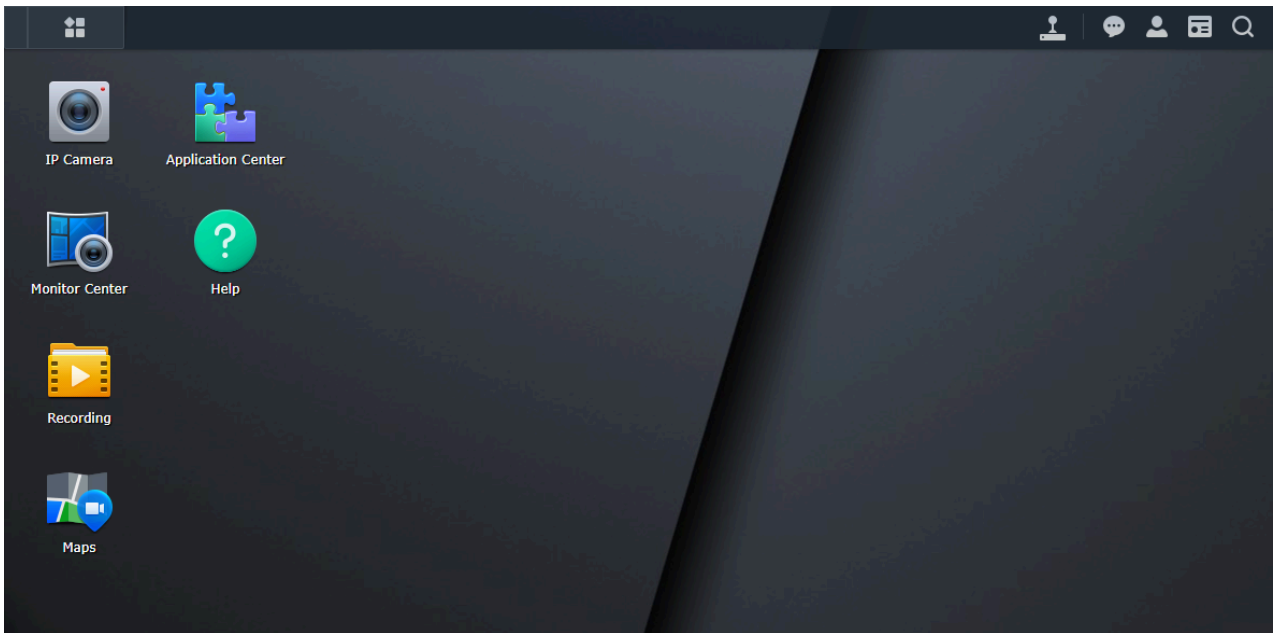
Surveillance Station Desktop

After making sure Surveillance Station has been successfully installed on your Synology storage system, go to **Main Menu > Surveillance Station** to launch Surveillance Station.



Desktop

Once Surveillance Station has launched, you will see the desktop. This is where your applications and package windows are displayed. You can also create shortcuts to frequently used applications.



Taskbar

The taskbar is located at the top of the screen and includes the following items:



1	Show desktop	Minimize all open application windows
2	Main Menu	View and open applications in Surveillance Station. You can also drag and drop icons to create desktop shortcuts.
3	Open applications	Open applications are displayed here. You can right-click and pin applications to the taskbar for convenient access in the future.
4	Security Lock	Lock/unlock the CMS pairing status. This will appear only when Surveillance Station is set up as a Recording Server.
5	Joystick	Configure the hotkey pairing of a connected joystick. This will appear only when joystick support is enabled in Add-ons > Joystick .
6	Notifications	Notifications, e.g., camera disconnected and other status updates can be viewed here.
7	Options	Sign out (when logged in using Application Portal) or customize personal account options.
8	Search	Quickly find specific applications and Surveillance Station Help articles here.

The taskbar provides quick access to messages, personal settings, widgets, connected devices, and system statuses.

Deploy IP Cameras

In Surveillance Station, you can easily configure and organize your IP cameras to enhance management. This chapter explains how to add/delete IP cameras, navigates you through IP camera features including device settings, recording schedules, event detection, and introduces major camera-grouping functions.

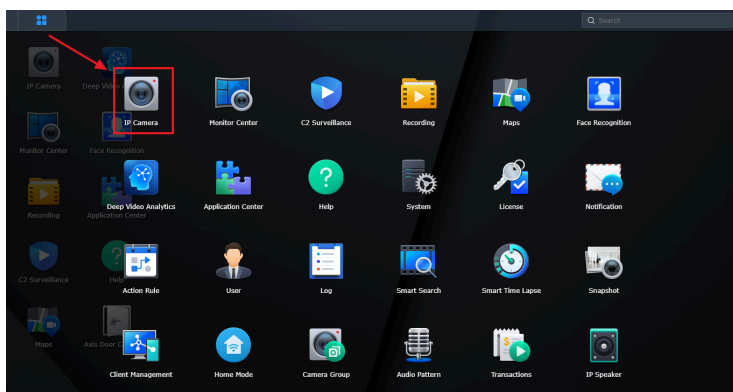
Install IP Cameras

Add an IP camera to Surveillance Station

Surveillance Station provides strong device compatibility and supports for various IP cameras. For a guaranteed seamless experience, we recommend using [Synology Camera](#), IP cameras that are specifically designed and tested for optimal performance with Surveillance Station.

Before installing any camera, please check the [IP camera Support List](#) for compatibility. If you have an existing camera not on the list, you can still try to add it manually using **Add an IP Camera Which Is Not on the Support List**, or **Add a User-Defined IP Camera**. To add a camera:

1. Power on an IP camera that has been connected to the same local area network as your Synology device
2. Go to **Surveillance Station > IP Camera**.



3. To add a Synology Camera:
 - Click **Add Now** from the pop-up message or click **Add**. Follow [these steps](#) in the **Add Camera Wizard** to add your camera.

To add a third-party camera:

- Click **Add** and follow [these steps](#) in the **Add Camera Wizard** to add your camera.
1. After completing the installation, you can [configure further settings](#) such as basic options, recording settings, event detection settings, and other usage optimization settings for your IP

cameras.

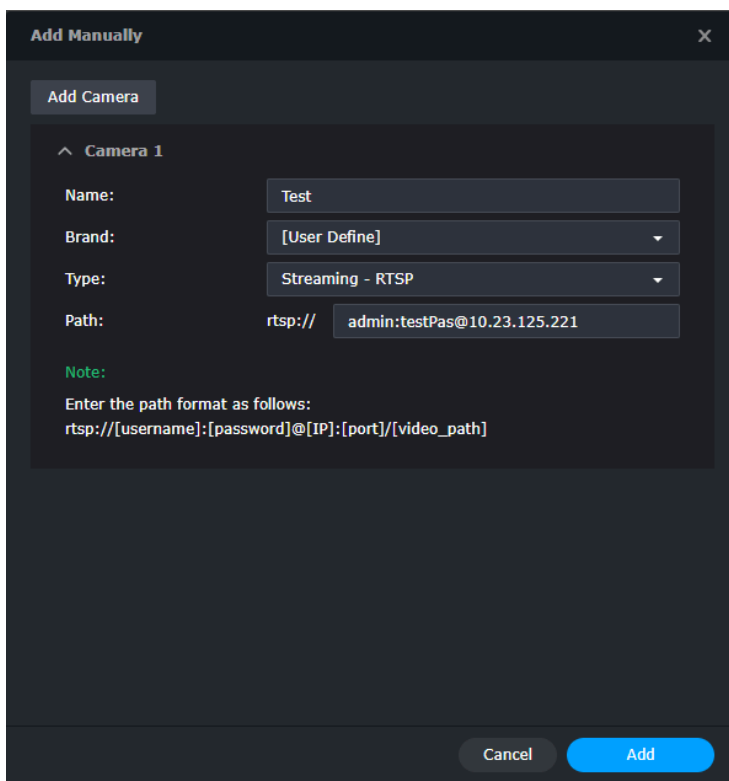
Note:

- By default, a Synology NAS comes with two free licenses, and depending on the actual mode, an NVR comes with multiple pre-installed licenses.

Add a user-defined IP camera

If you are adding a device that you are not sure is compatible with Surveillance Station, the User Defined option will offer the best compatibility. You can try connecting different types of network video streaming devices.

1. Follow steps 1 to 2 of [Add an IP Camera to Surveillance Station](#).
2. Click **Add Manually** and select **[User Define]** from the **Brand** drop-down menu.
3. Enter a **Name**, select a file transfer **Type**, and set the **Path** in the format of `[Username[:Password]@]IP:port/video_path`. If you have any questions, please contact your camera manufacturer.



4. Follow the [rest of the steps](#) in the **Add Camera Wizard** to finish configuration.

Add an ONVIF IP camera

In addition to supported models, Synology is a member of ONVIF and supports all ONVIF protocol cameras. This means that camera functions and settings can be automatically loaded, even if the

camera is not listed on the [compatibility list](#).

1. Power on an IP camera that has been connected to the same local area network as your Synology device
2. Go to **IP Camera**.
3. Do either of the following steps:
 - In the search bar, type ONVIF to filter all ONVIF cameras.
 - Click **Add Manually**, and select [ONVIF] or your camera's brand name from the Brand drop-down menu. Then select **All functions** or **Streaming only** from the Camera mode drop-down menu.
4. Select the ONVIF cameras you want to add.
5. **Authenticate** the camera if necessary and follow the [rest of the steps](#) in the **Add Camera Wizard** to finish configuration.

Delete IP cameras

To remove an IP camera from Surveillance Station, simply find your target cameras in the IP Camera application and click **Delete**. To select multiple cameras, press and hold the Shift or Ctrl key. You will be asked to decide whether to keep or remove previous recordings.

Notes:

- All configurations of deleted cameras will also be erased.
- To replace an IP camera device, we recommend editing the existing entry rather than deleting then adding again.

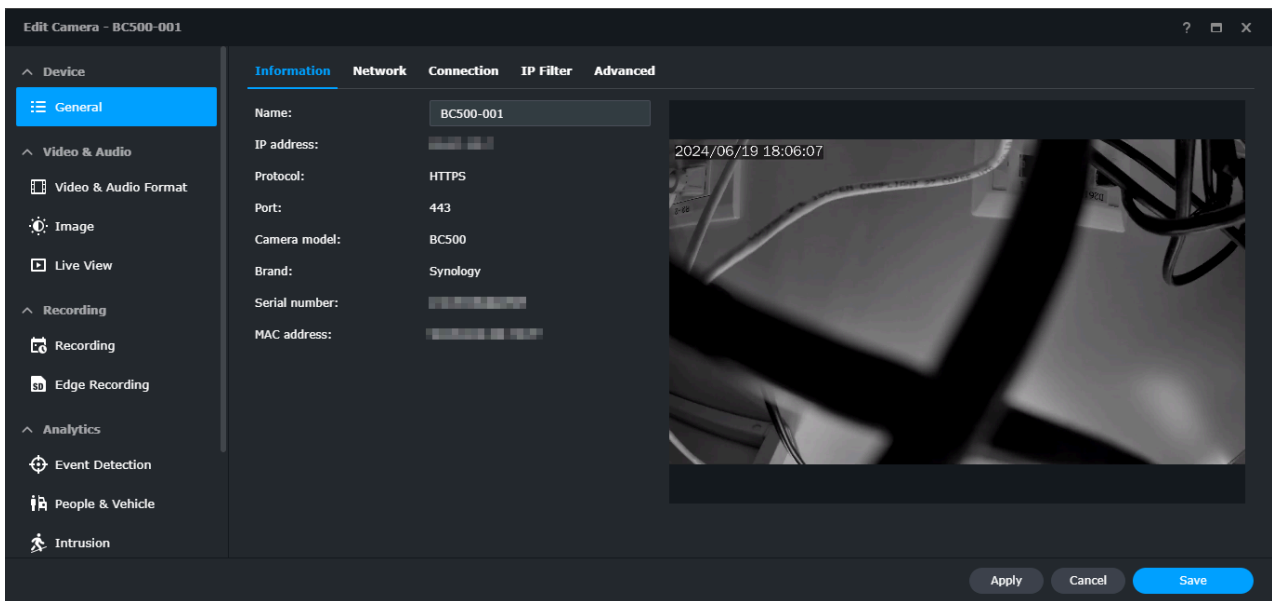
Disable IP cameras

If you wish to temporarily disconnect certain cameras, select the cameras in **IP Camera**, click the drop-down button next to **Enable**, and select **Disable**. Click **Enable** to resume services.

Utilize Camera Features

After setting up your IP camera, you can fine-tune settings to best suit your recording environment. Go to **IP Camera**, select your target camera, and click **Edit** > **Edit** for detailed configuration.

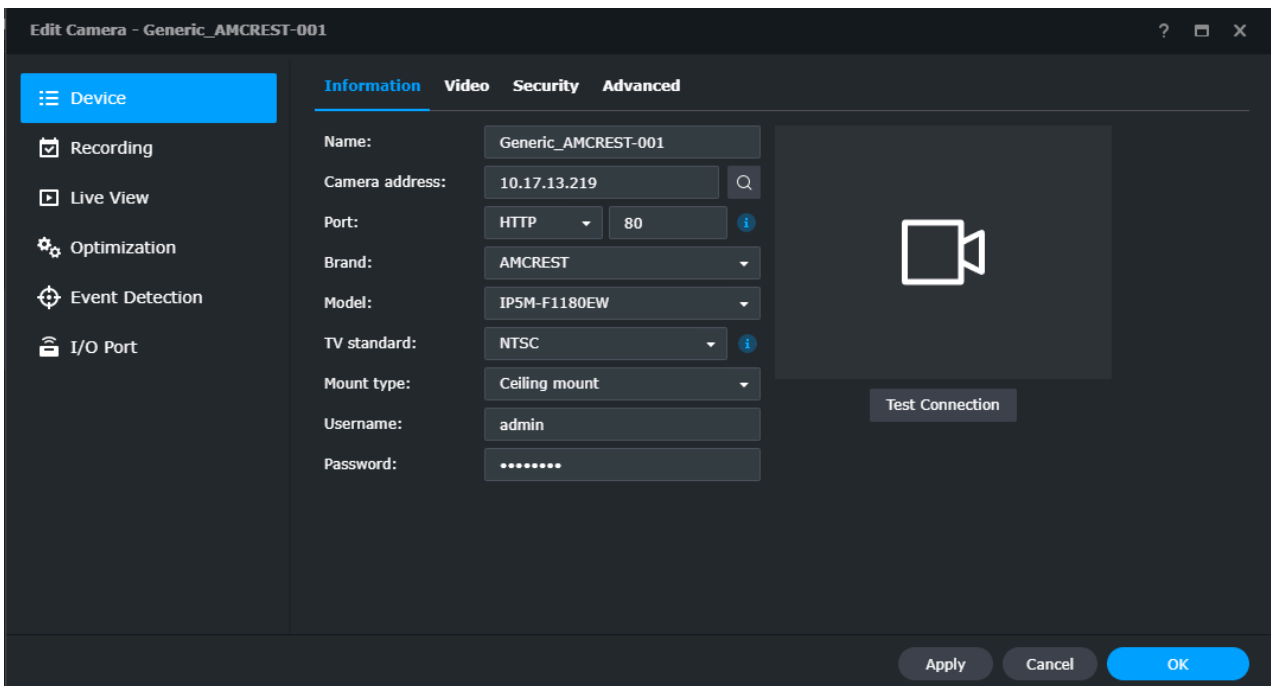
Configure Synology Camera settings



Synology Camera provides flexible options for customization.

- **General:** Configure general camera information, network settings, security settings, and other protocols.
- **Video & Audio Format:** Configure the video and audio format, resolution, FPS, and noise cancellation.
- **Image:** Configure image settings and privacy masking.
- **Live View:** Configure live stream settings.
- **Recording:** Configure recording, schedule, stream, Dual Recording, and archive settings.
- **Edge Recording:** Configure SD card storage settings.
- **Event Detection:** Configure motion, audio, and tamper detection.
- **People and Vehicle Detection:** Configure people and vehicle detection target, area, and detailed parameters.
- **Intrusion Detection:** Configure intrusion detection target, area, and detailed parameters.
- **Counting:** Detection target and calculation mode
- **License Plate (BC800Z only):**
- **Smoke Detection (BC800Z only):** Triggered time and detection zone
- **I/O Port:** Configure digital input settings.
- **Maintenance:** Configure camera time, update camera firmware, reset and restart the camera.

Configure third-party camera settings



You can tailor your camera settings to your preferences.

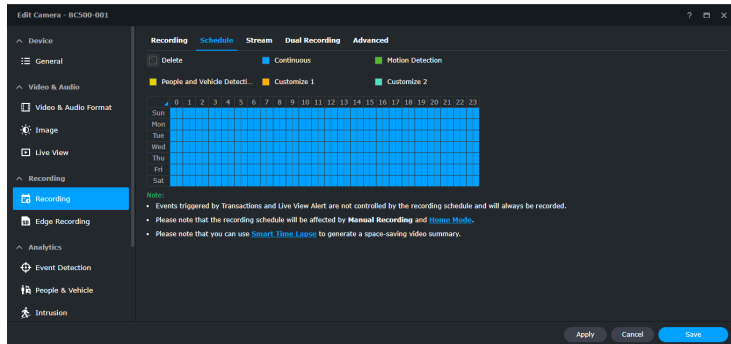
- **Device:** Configure general camera information, video stream, security settings, and other protocols.
- **Recording:** Configure recording, schedule, stream, Dual Recording, and archive settings.
- **Live View:** Configure live stream settings
- **Optimization:** Configure camera time, OSD (on-screen display), and restart the camera.
- **Intercom:** Configure intercom connection, door, and doorbell notification.
- **Event Detection:** Configure Motion, ACAP VMD, Audio, Tampering, PIR, and Advanced Event Detection settings.
- **I/O Port:** Configure the digital input/output and external digital input.
- **Edge Recording:** Configure edge recording and video retrieval.

Set up event detection and receive notifications

If your camera supports the corresponding functions, Event Detection allows IP Cameras to be triggered to record when certain events occur.

Configure Synology Camera

1. Set up a recording schedule for the desired detection event at **IP Camera** > *Select a camera* > **Edit** > **Recording** > **Schedule**.



2. Configure event detection settings under **Analytics**. You can configure one or more of the following event detection settings:
 - **Event Detection**: Set up **Motion Detection**, **Audio Detection**, or **Tampering Detection**.
 - **People and Vehicle Detection**
 - **Intrusion Detection**
3. Go to the **Main Menu** > **Notification** to configure email, SMS, Push Service, or webhook notifications. Under **Rules**, **enable notifications** for each event to start receiving notifications.

Third-party camera

1. Set up a recording schedule for the desired detection event at **IP Camera** > *Select a camera* > **Edit** > **Recording Settings** > **Schedule**.
2. Go to **Event Detection** and go to your desired detection type (e.g., motion, audio, and tampering).
3. Select a **Detection source**.
 - Select **By camera** if you wish to use the built-in motion detection features of your device. Enable **Keep original camera settings** to apply the current camera settings, or leave the checkbox unticked to fine-tune the values of **Detection Area**, **Sensitivity**, **History**, **Threshold**, **Object size**, and **Trigger percentage** (available parameters are subject to camera capability).
 - Select **By Surveillance Station** for more detailed and precise settings.
4. Go to the **Main Menu** > **Notification** to configure email, SMS, Push Service, or webhook notifications. Under **Rules**, **enable notifications** for each event to start receiving notifications.

Large-Scale Deployment

For multi-camera setups, **IP Camera** offers flexible grouping features to streamline management and simplify configuration. Easily import or export your camera settings to quickly replicate your

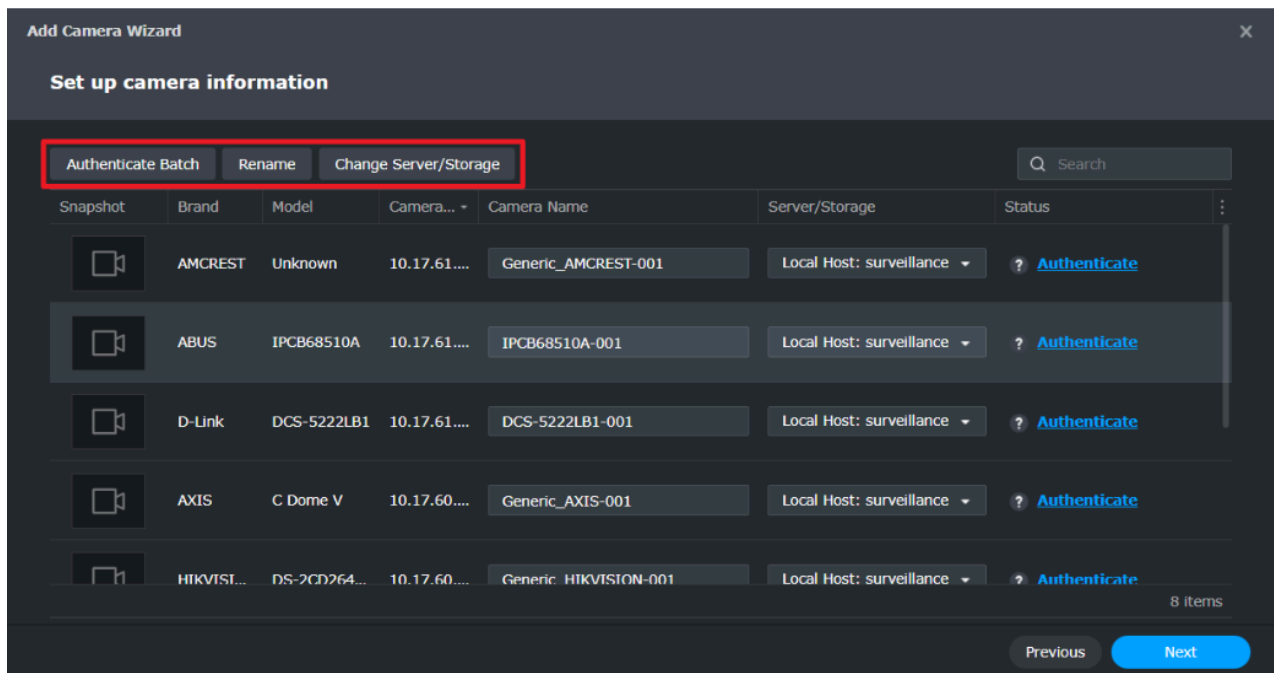
preferred setup across multiple devices.

Batch add cameras

Scan IP Range

You can add multiple cameras from different locations to selected servers.

1. Power on IP cameras connected to the same local area network as your Synology NAS.
2. Go to **IP Camera > Add > Scan IP Range**. Enter the IP range or camera information.
3. Authenticate, rename, and assign the recording storage or servers in batch.
4. Select **Complete Setup** and customize the configurations.



Import configuration list

1. Go to **IP Camera > More > Import**.
2. Select **Camera list**.
3. Download a template, fill in the information, and upload the file.

Import Camera Wizard

Import from camera list

Using a list of camera information and configurations, you can add multiple cameras at once, no matter if they are online.

Step 1: Prepare a camera list

Download the template and fill in the camera information. The camera name, IP address, port, brand, and model are required.

[Download](#)

Step 2: Upload the prepared list

Upload the completed camera list here.

Licenses on all servers: Total: 18 | Available: 8 | In use: 10

Camera list (.xlsx): [Browse](#)

[Back](#) [Next](#)

Batch edit cameras

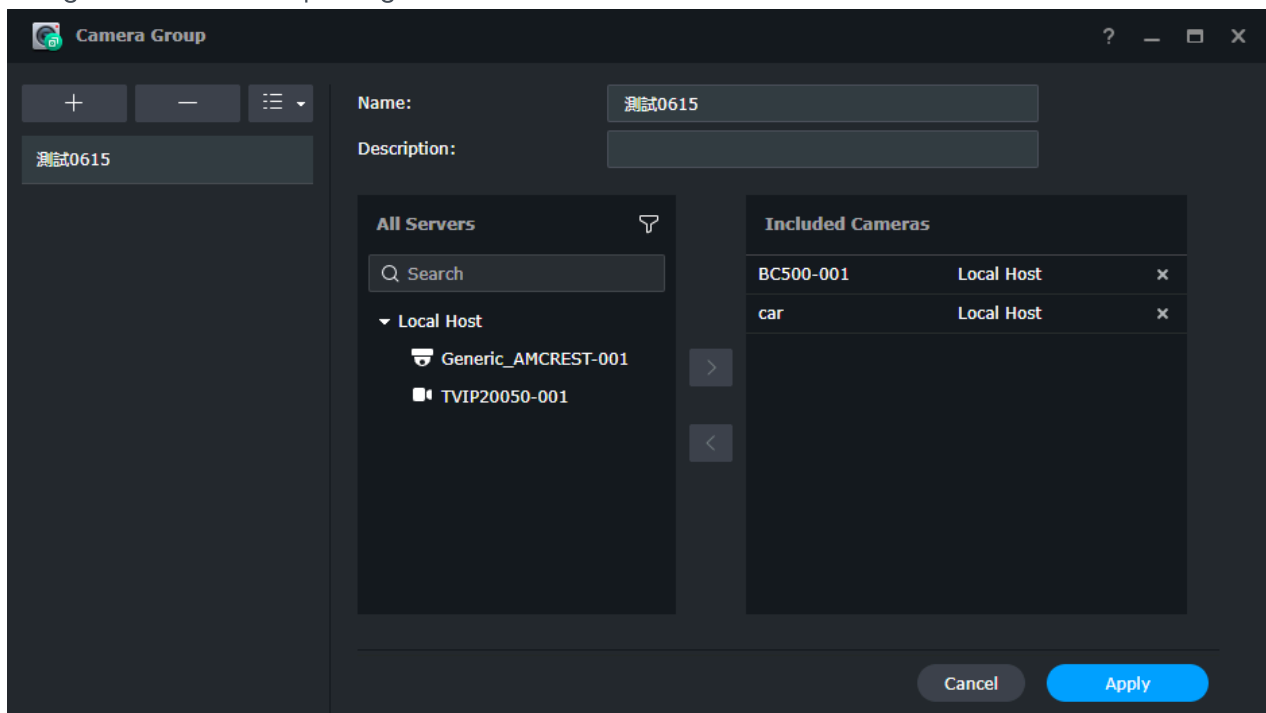
1. Go to **IP Camera > Edit > Copy Settings**. Select a camera to act as the copy source.
2. Select the attributes you wish to replicate under the **Value** column. Please note that attributes marked with an asterisk (*) can only be applied to cameras of the same model as the source camera, and only the attributes supported by the source camera can be applied to the other cameras.
3. Select the cameras or camera groups you want to apply the attributes previously selected.

Notes:

- Due to compatibility issues, some attributes cannot be applied to certain devices. "-" will show when you tick such a camera.
- The similarity of two ONVIF cameras is determined by their actual abilities rather than their brands and models.
- **Recording storage** can only be applied when your target cameras are installed on the same Synology product as the source camera.

Group IP cameras

In **Surveillance Station > Camera Group**, you can group devices for easy management, for instance by camera location, recording mode, or uses. Groups can be used to create Monitor Center layouts and grant user camera privileges.



For more information, go to Synology Surveillance Help > [Camera Group](#).

Import or export camera configurations

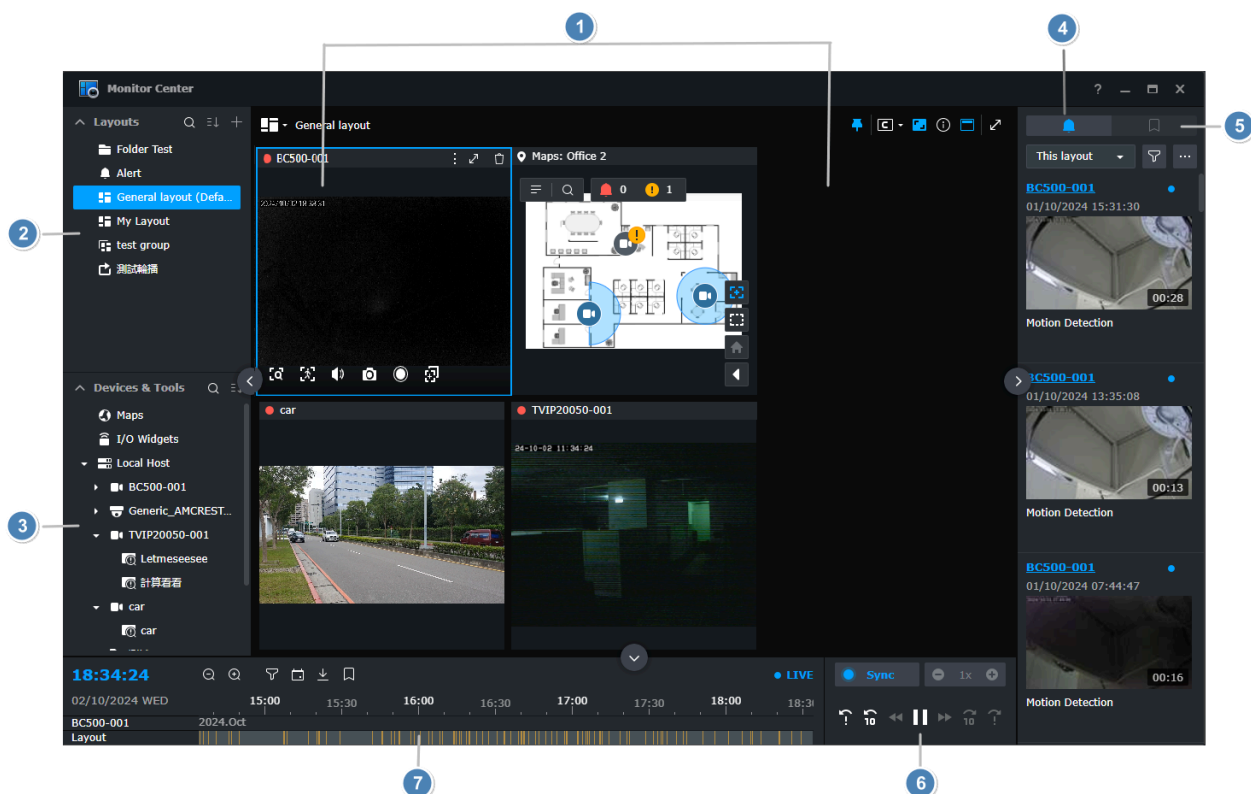
To save copies of current camera settings or replace current configurations with older ones, go to **IP Camera > More**, select **Import** or **Export**, and follow the steps in the wizard. The .conf files will be saved in the designated folder in **DSM > File Station**.

Monitor Camera Feeds

Once your camera deployment is complete, you can start monitoring target areas with **Monitor Center**. This chapter introduces the basics of arranging **Monitor Center** layouts, receiving alerts from camera events, as well as setting up preset positions to schedule patrol routes.

View camera feeds through Monitor Center

In **Monitor Center**, you can view real-time video feeds of all the IP cameras paired with Surveillance Station, directly operate and trigger I/O devices, manage viewing with on-screen display buttons and playback controls. Customize your camera feed layout to match your specific monitoring needs.



1. Monitor Center Layout: Displays video feeds from IP cameras. You can click a camera feed to select it and use the PTZ Controls to change viewing options. The currently selected camera feed is highlighted with a yellow frame. Double-clicking any camera feed enlarges the image of that feed. Double-clicking again returns to the normal layout.
2. Layouts: Edit **Monitor Center** layouts or enable/disable layout-related features here. For quick configuration of your camera feed layout, please refer to [Configure Monitor Center layout](#).
3. Devices and tools: Devices that have been added to Surveillance Station, I/O widgets, and configured maps can be seen here. Drag-and-drop one or LIVE more to the center layout panel to

quickly add them to the current layout.

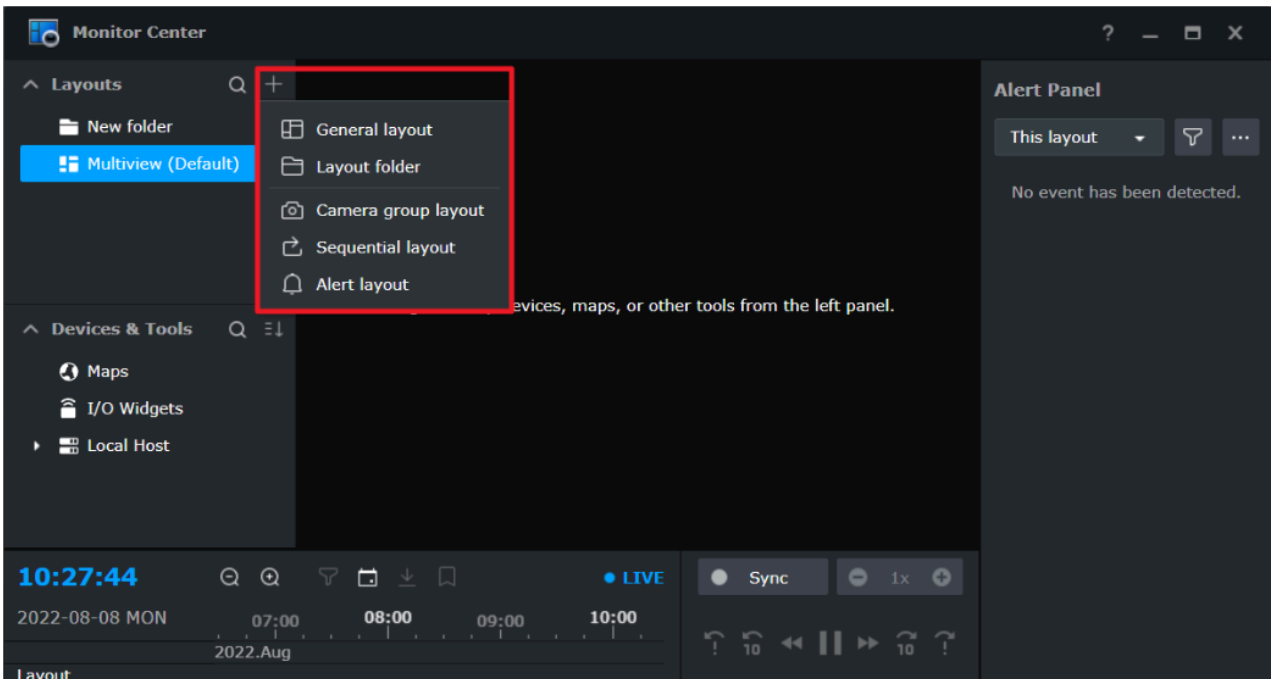
4. Alerts panel: Manage alert settings or display alerted video clips here.
5. Bookmarks panel: Manage bookmark settings or display bookmarked video clips here.
6. Playback controls: Use these buttons to play, pause, rewind, or fast forward 10 seconds, jump to the previous or next event, or jump to the previous or next second.
7. Timeline tools: Use the timeline to quickly find past recordings.

For more information, please refer to Surveillance Station Help > [Monitor Center](#).

Configure Monitor Center layout

Go to the **Layouts** panel to customize your Monitor Center layouts. You can create multiple layouts and add different combinations of devices and tools to suit your needs.

To create a new layout, click the + button in the **Layouts** panel and select an option. You can then freely adjust the size and position of each camera feed by dragging and dropping the window borders or channels.

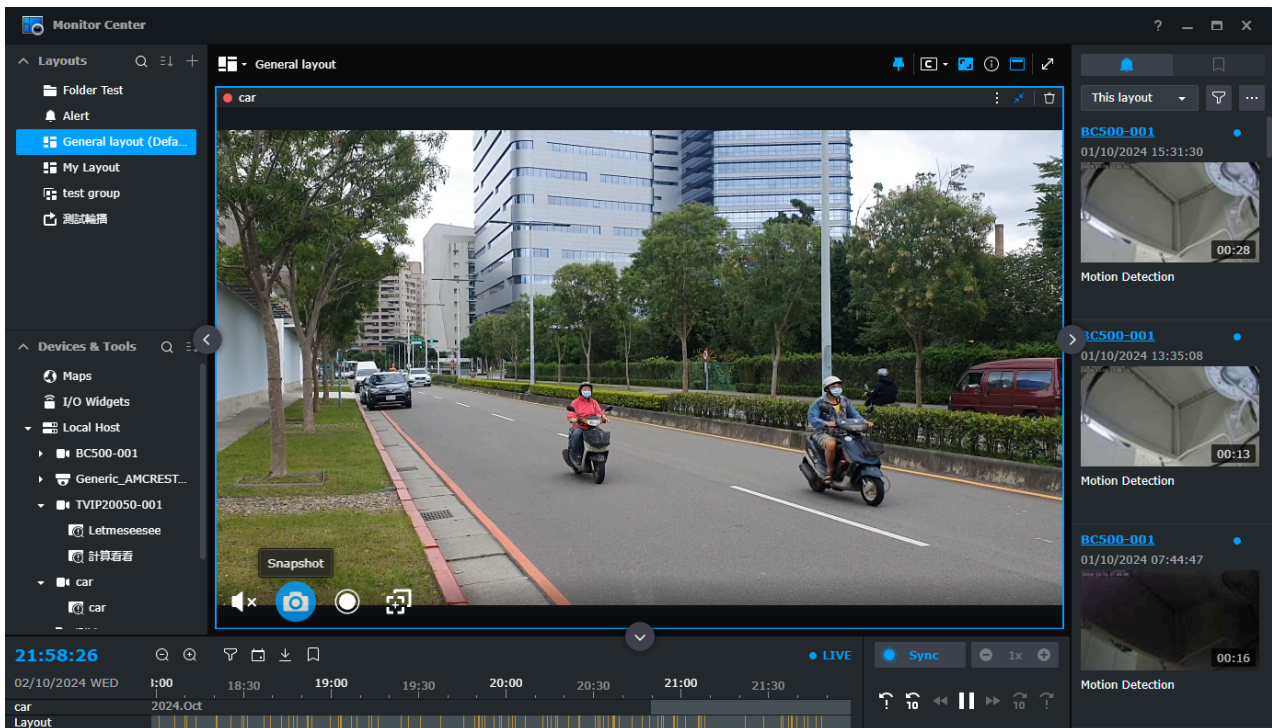


For more information, please refer to Surveillance Station Help > Monitor Center > [Layout Management](#).

Take snapshots of important events

Once your Monitor Center layout is configured, you can use the on-screen snapshot button to take snapshots and record important events. The button can be used in all Surveillance Station players

(e.g., Recording and IP Camera).



Configure instant alerts in Monitor Center

The **Alert Panel** displays all triggered alerts in Surveillance Station, regardless of their visibility in the current layout. You can customize the events and types of warnings displayed in Monitor Center.

To enable alerts, click on the more button and go to **Alert settings**. Enable the devices and desired events under the **Alert** column. You can also check and edit event configurations by selecting the event, and then clicking **Edit**.

Notes:

- Events and edit options will only appear if the corresponding device supports the function.

For more information, please refer to Surveillance Station Help > Monitor Center > [Instant Alerts](#).

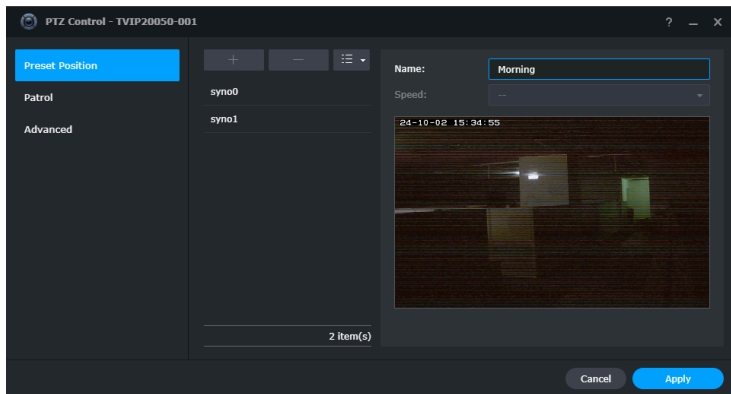
Set up scheduled patrol with PTZ Control and Action Rule

If your IP camera supports PTZ features, you can customize multiple preset positions to monitor locations that require extra attention and set up patrol paths composed of a serial concatenation of

existing preset positions.

Patrol paths can be configured at **IP Camera** > *select a PTZ-supported camera* > **Preview** > **Show PTZ Panel** > **Settings**.

1. Go to **Preset Position** and add [preset positions](#) to form a patrol path.
2. Go **Patrol** and click the **Add** button.
3. Specify and name, determine the interval for the camera to repeat the patrol path, and adjust the moving speed (if supported).
4. Select preset positions and adjust the sequence.



After configuring a patrol path, go to **Surveillance Station** > **Action Rule** to configure an action rule.

1. Click **Add**.
2. Specify the **Name** and set the **Rule Type** as **Scheduled**.
3. Set the **Action device** as **Camera**, the **Device** as the PTZ camera with preset positions and patrol paths configured, and the **Action** as **Patrol**. Specify the **Patrol** path you have configured and specify your preferred **Loops per cycle** and **Interval**.
4. Set up a schedule for when the action rule will be active.

Add Action Rule Wizard ✕

Action

^ **Action 1**

Action device:	Camera
Server:	Local Host
Device:	TVIP20050-001
Action:	Patrol
Patrol:	Test
Loops per cycle:	1
Return position:	None

For more information, please refer to Surveillance Station Help > IP Camera > [PTZ Control](#) and [Action Rule](#).

Stream live video

Besides monitoring with Monitor Center, you can also share video streams using **RTSP**, **RTSP-over-HTTP**, and **Multicast** URLs.

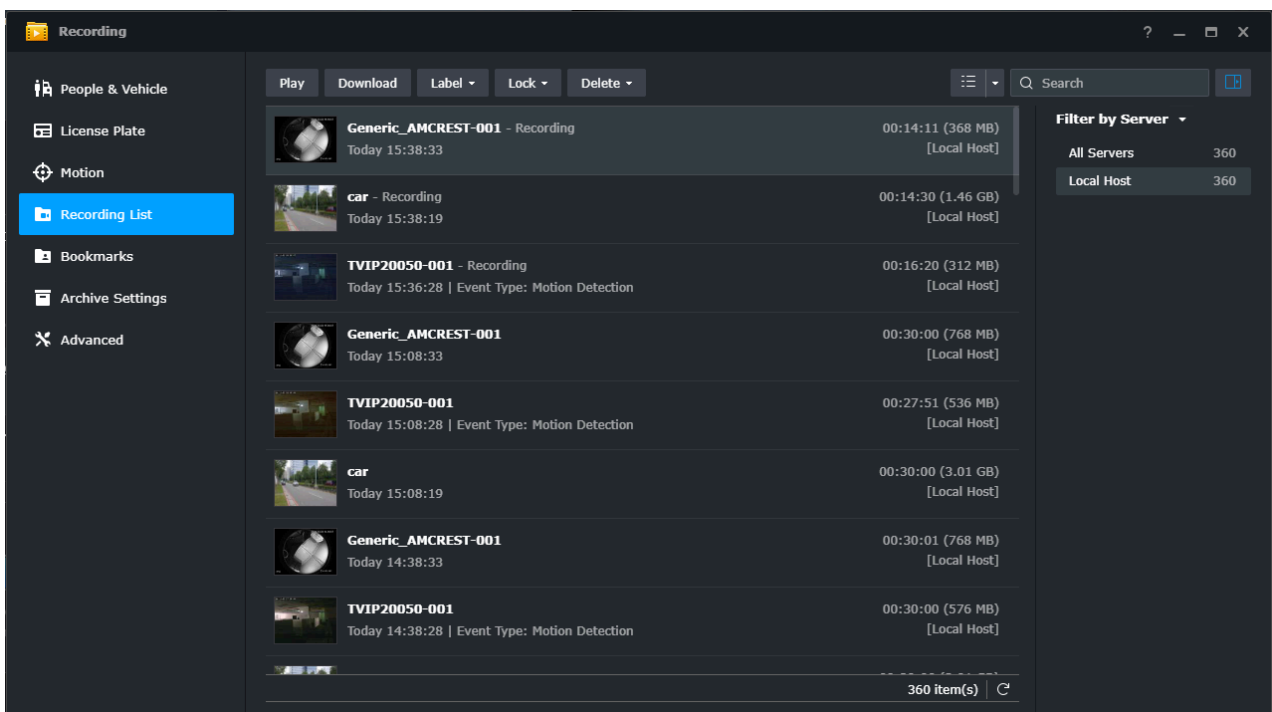
In **IP Camera**, right-click on any camera and select **Share stream path**.

Manage Video Recordings

In **Surveillance Station > Recording**, you can view a list of footage recorded with IP cameras. Recording files can be played back, downloaded, or locked to ensure important events are not accidentally deleted. You can also create archives to manage video files.

Manage video recordings

View Recorded Video Files



To play back a saved recording file in **Recording**, go to the **Recording List** page, select a video, and click **Play**.

You can also define what recordings are displayed from the top right Search box. To quickly target certain files, set the filter criteria according to camera, source server, event type, lock status, bookmark, label, date, start/end time, or week.

Truncate a Video File in Process of Being Recorded

If you wish to truncate the video clip that is being recorded, right-click on the clip marked "-Recording", and select **Truncate the recording** to immediately stop recording and archive the recorded portion.

Notes:

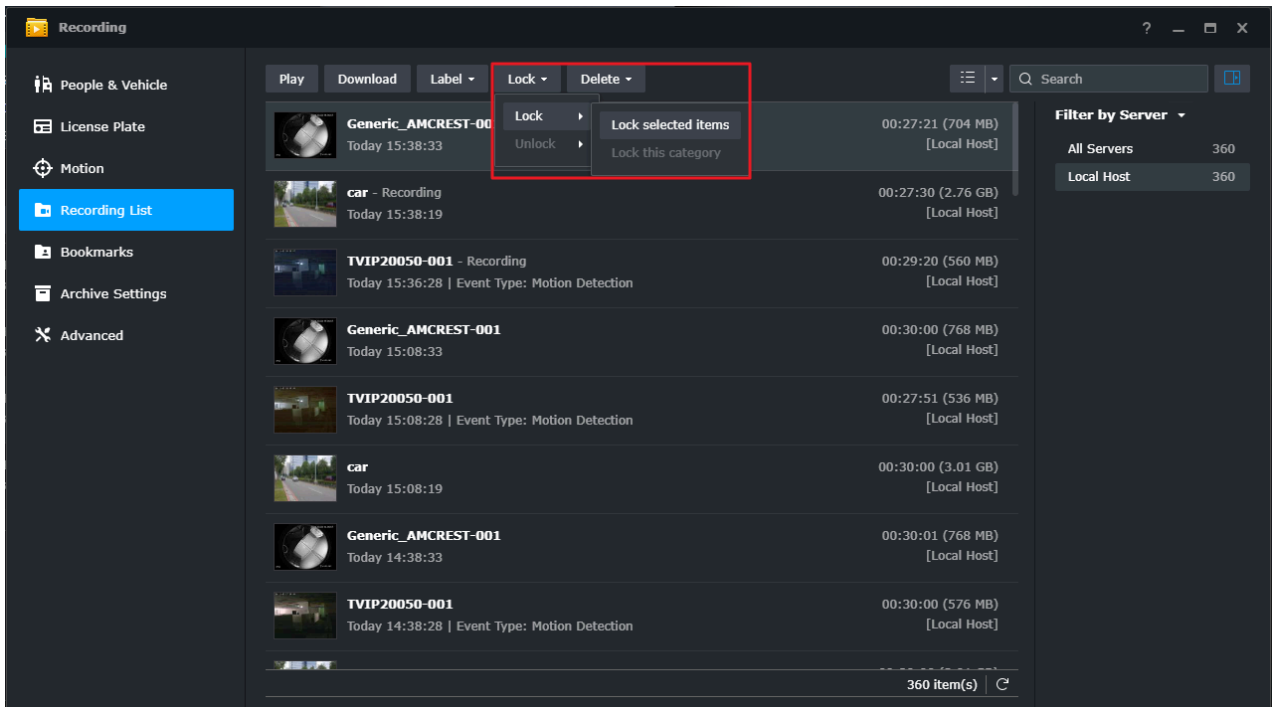
- Surveillance Station will start another clip for continuous recording. For more information, refer to Surveillance Station Help > Recording > [List](#).

Lock a recording

Important recordings can be locked in order to ensure they are not accidentally deleted when the system wipes old files.

To lock recordings, right-click on the selected recording, then select **Lock**.

You can also lock multiple recordings by selecting the desired recordings and clicking **Lock > Lock selected items** or **Lock selected category**.

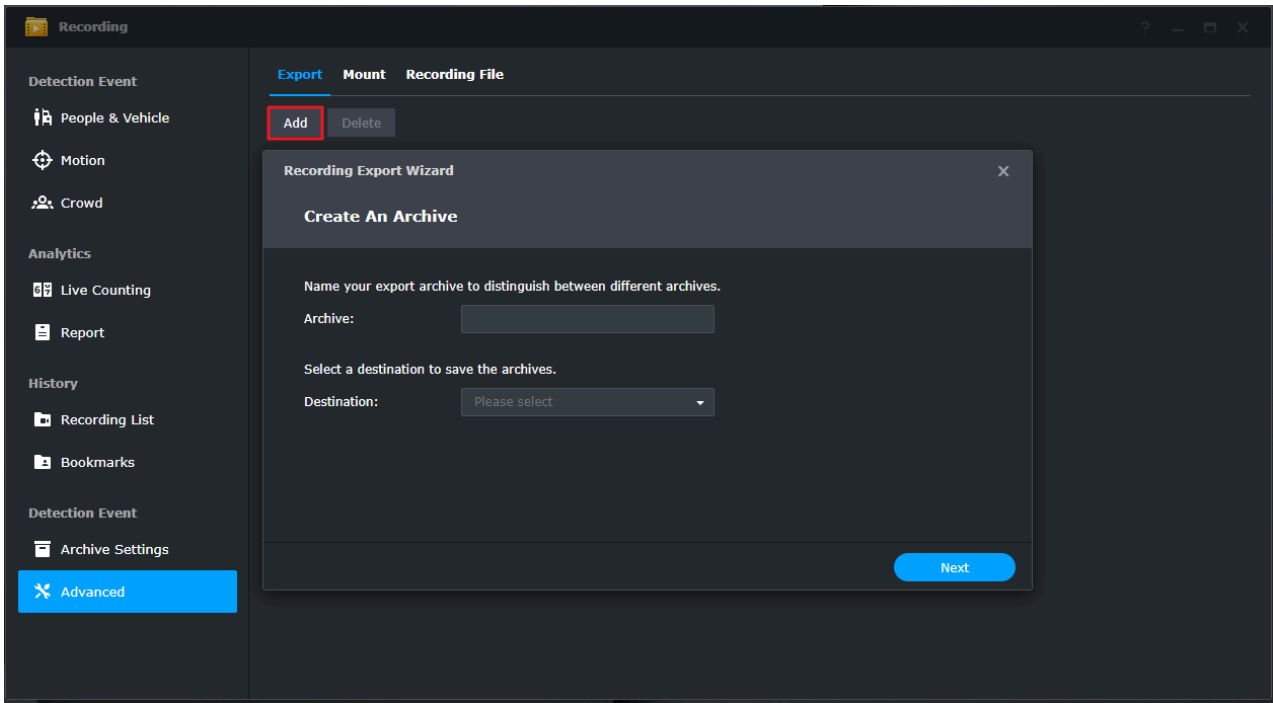


Manage video archives

Export videos as an archive

Recordings from Surveillance Station can be exported to any shared folder or external storage device via USB or eSATA interface. By specifying the camera and time range, recordings within the range will be exported as an archive.

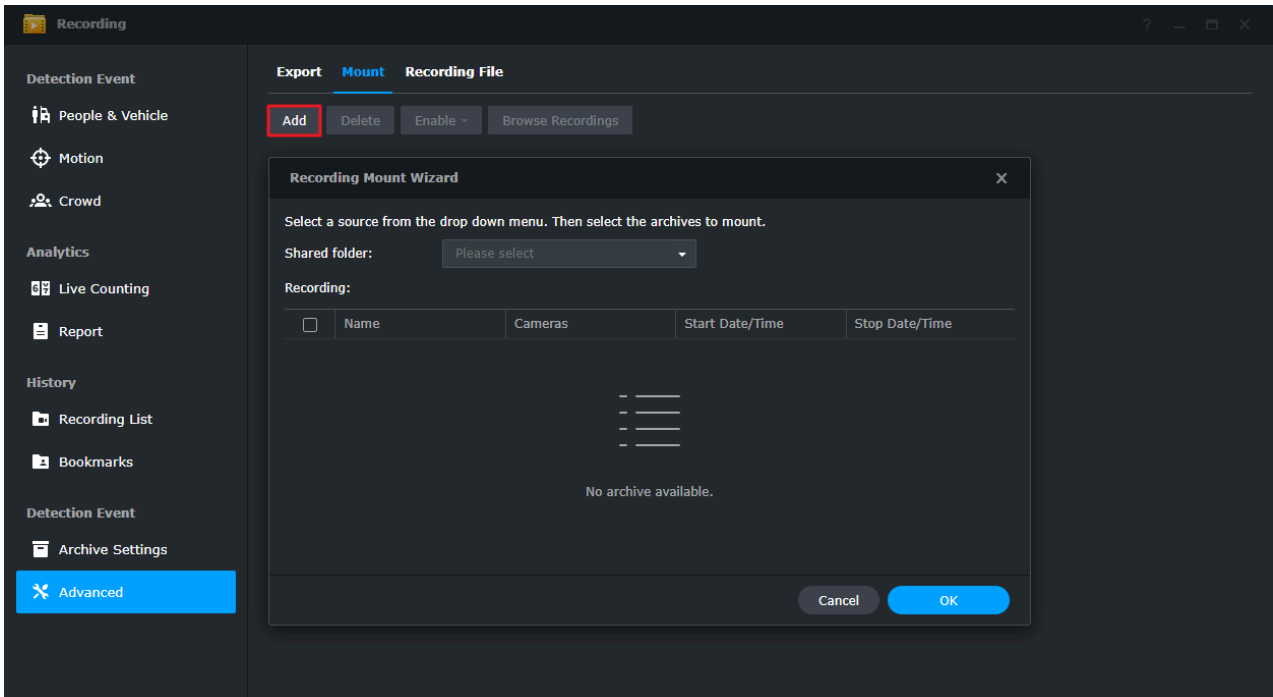
To export videos, go to **Recording > Advanced > Export**. Click the **Add** button and [follow the steps](#) in the **Recording Export Wizard**.



Mount archives to Surveillance Station

You can mount exported archives onto Surveillance Station. The recordings in mounted archives can be played in **Recording**.

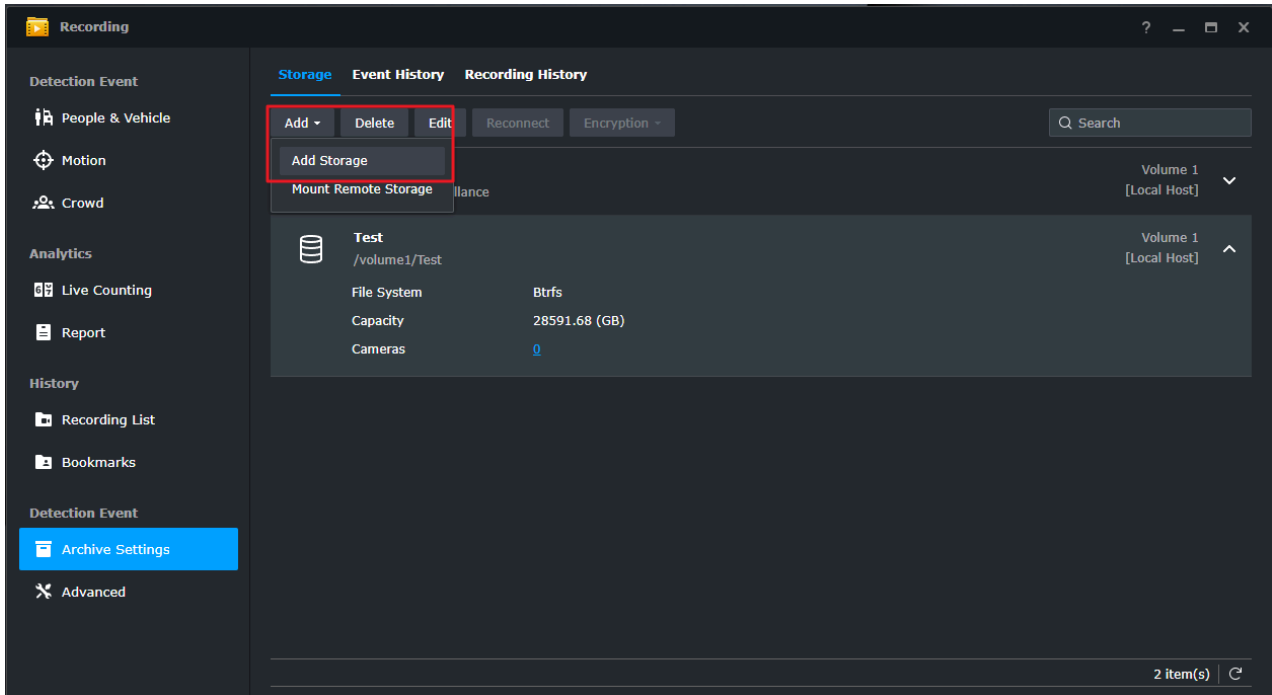
To mount archives, go to **Recording > Advanced > Mount**. Click the **Add** button and [follow the steps](#) in the **Recording Mount Wizard**.



Add a recording storage

In Surveillance Station, you can use existing shared folders or add new encrypted folders as recording storage.

To add a recording storage, go to **Recording > Archive Settings > Storage > Add > Add Storage**. You can choose to **Add shared folder** or **Use an existing folder**.



Smart Time Lapse

Smart Time Lapse condenses lengthy videos into concise clips that last for a few minutes or seconds. This is ideal for reviewing changes in large-scale projects.

To create a Smart Time Lapse clip, go to **Surveillance Station > Main Menu > Smart Time Lapse** and click **Add**.

For more information, refer to Surveillance Station Help > [Smart Time Lapse](#).

Work with I/O Modules

Support for I/O modules allows Surveillance Station to integrate with a wide range of devices with specialized features. You can easily connect smoke detectors, LED lights, electromagnetic locks, and other products to operate Surveillance Station as a centralized security system. This chapter describes how to add and manage I/O modules.

Install I/O modules

To set up I/O modules in Surveillance Station, make sure to properly connect the I/O module, then go to **Surveillance Station > I/O Module**. Click **Add** and [follow the steps](#) in the **Add I/O Module Wizard**.

The screenshot shows the 'Add I/O Module Wizard' interface. The left sidebar has 'I/O Module' selected. The main area has a top bar with 'Add', 'Delete', 'Edit', and 'Enable' buttons, and a search bar. The wizard title is 'Add I/O Module Wizard'. The 'Information' section contains the following fields:

Name:	<input type="text"/>
IP address:	<input type="text"/> <input type="button" value="Q"/>
Port:	<input type="text" value="80"/>
Brand:	<input type="text" value="AXIS"/>
Model:	<input type="text" value="A9161"/>
Username:	<input type="text" value="root"/>
Password:	<input type="password" value="....."/>

Below the Password field is a **Test Connection** button. At the bottom right of the wizard is a blue **Next** button.

For more information on configuring I/O modules, refer to Surveillance Station Help > [I/O Module](#).

You can link devices that are connected to the I/O module with **Action Rules**, allowing different devices to interact with each other. Refer to [Action Rules](#) for more information on configuration.

Delete I/O modules

To remove an I/O module from Surveillance Station, simply select the desired I/O modules and click **Delete**.

Disable I/O modules

If you wish to temporarily end the connection with certain I/O modules, select the desired I/O modules, then click **Enable > Disable**. Click **Enable > Enable** to resume services.

Notification

In **Surveillance Station > Notification**, you can set up notifications to receive messages via email, SMS, or mobile devices when the system status changes or when errors occur. This chapter introduces the basics of setting up notifications and lists some major features.

Receive notifications via different channels

Receive notifications using email

Email notifications can be configured by going to **Notification > Email**.

Notification

Enable email notification service to receive notification messages via email when status changes or errors occur to the system.

Enable email notifications

Recipients:

Subject prefix:

Email server:

Service provider:

Username:

Password:

Attach event snapshot *i*

Enable email interval limit

Minimum interval between each email *i*
(min.):

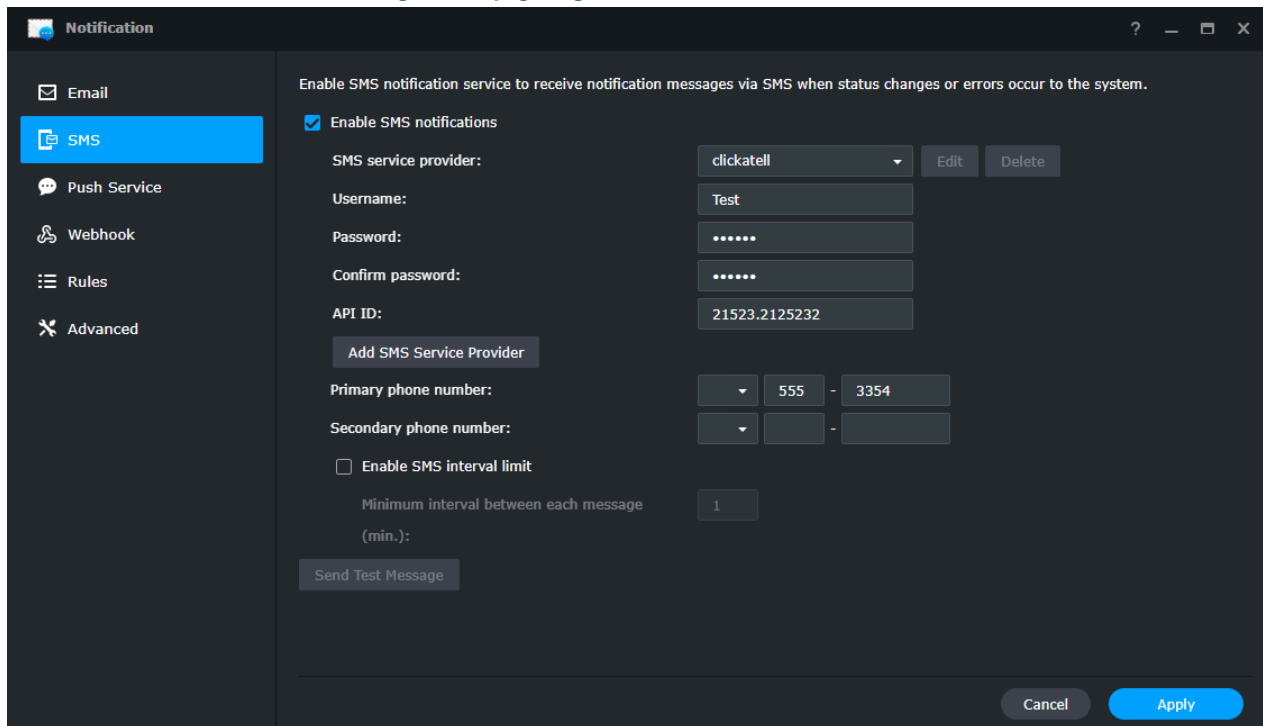
Note:

- If you select Gmail as your service provider, remember to **Log in to Gmail**.
- If you wish to use a custom SMTP server, select **Custom SMTP** server from **Service provider** and enter the required information. The SMTP server can be an IP address or a domain name. If it is a domain name, please make sure a valid DNS server IP address has been configured at **DSM > Control Panel > Network**, and the server is connected to the Internet.

For more information on configuring email notifications, refer to Surveillance Station Help > Notification > [Email](#).

Receive notifications using SMS

SMS notifications can be configured by going to **Notification > SMS**.

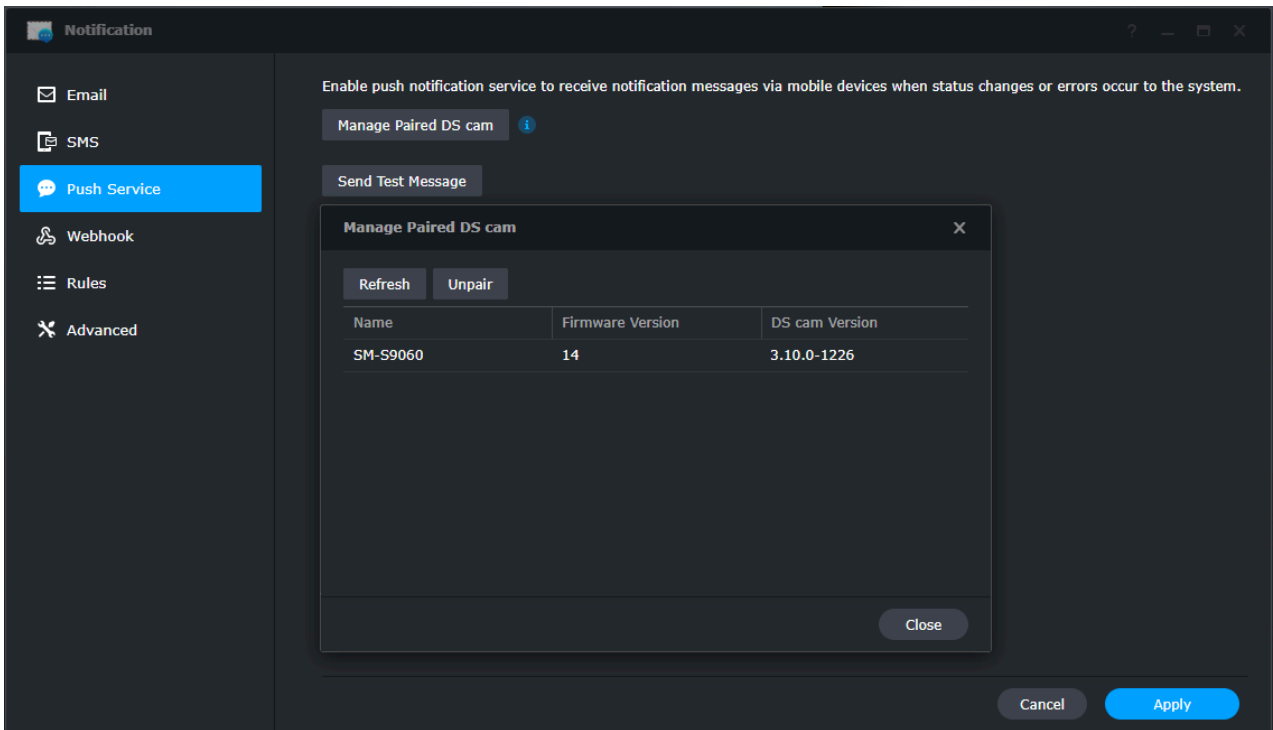


For more information on configuring email notifications, refer to Surveillance Station Help > Notification > [SMS](#).

Receive notifications using push service

To enable mobile device notifications, install and sign in to DS cam on your mobile device. Notifications from Surveillance Station will be sent to your mobile device.

You can manage paired mobile devices by going to **Notification > Push Service > Manage paired DS cam**.

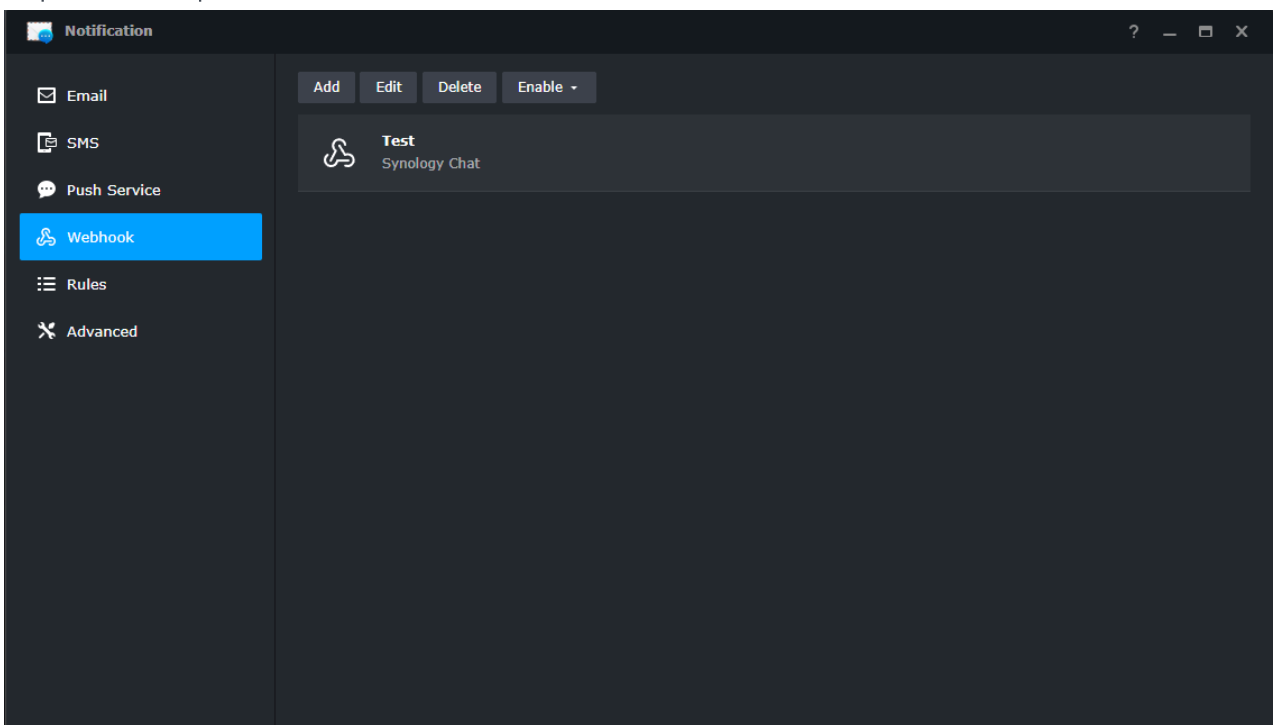


Receiving notifications using webhooks

You can set Surveillance Station to send notifications via webhooks to Synology Chat, Line, Discord, Microsoft Teams, Slack, and other custom webhook providers.

Webhook notifications can be configured by going to **Notification > Webhook**.

Click **Add** and [follow the steps](#) in the **Add Webhook Wizard** to receive Surveillance Station notifications in your preferred messaging platform. A [webhook URL](#) from the service provider is required in the process.



For more information, refer to [this article](#) and Surveillance Station Help > Notification > [Webhook](#).

Configure additional notification settings

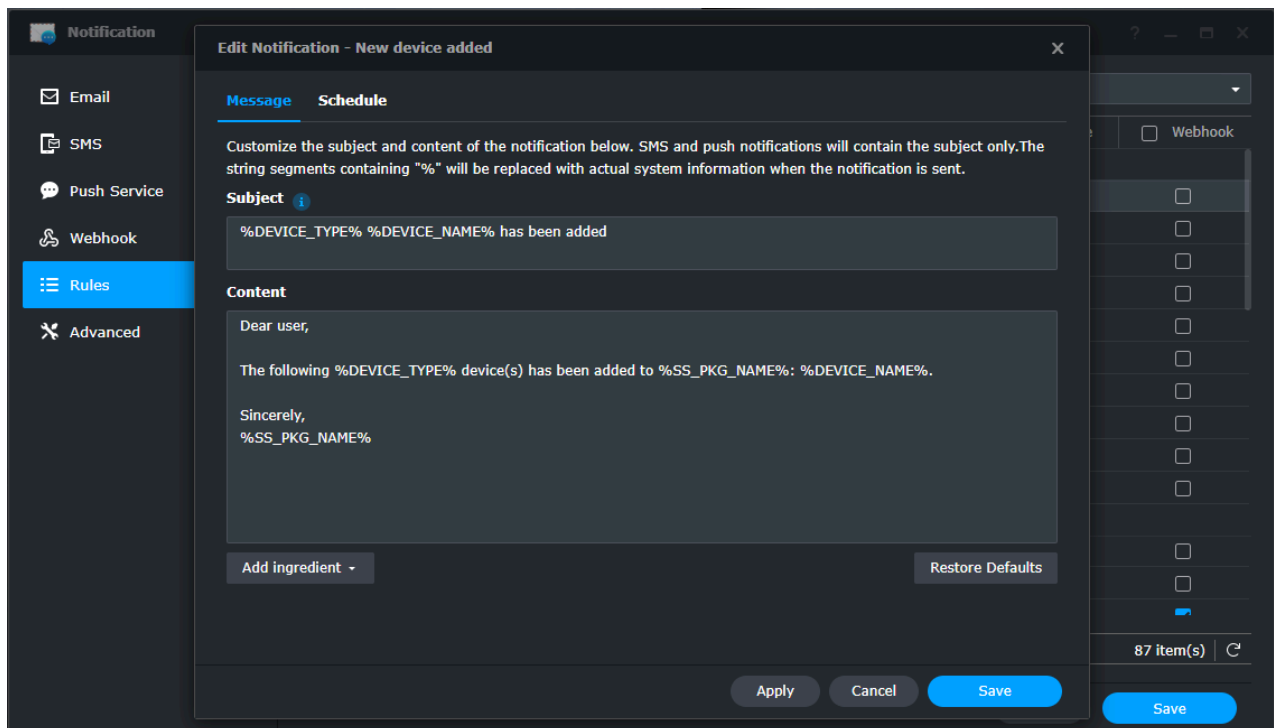
Set up notification rules

You can select which types of events to trigger notifications and configure the notification-sending schedule by going to **Notification > Rules**.

To activate notifications for specific events, check the corresponding boxes for **Email**, **SMS**, **Mobile**, or **Webhook**.

Edit notification events

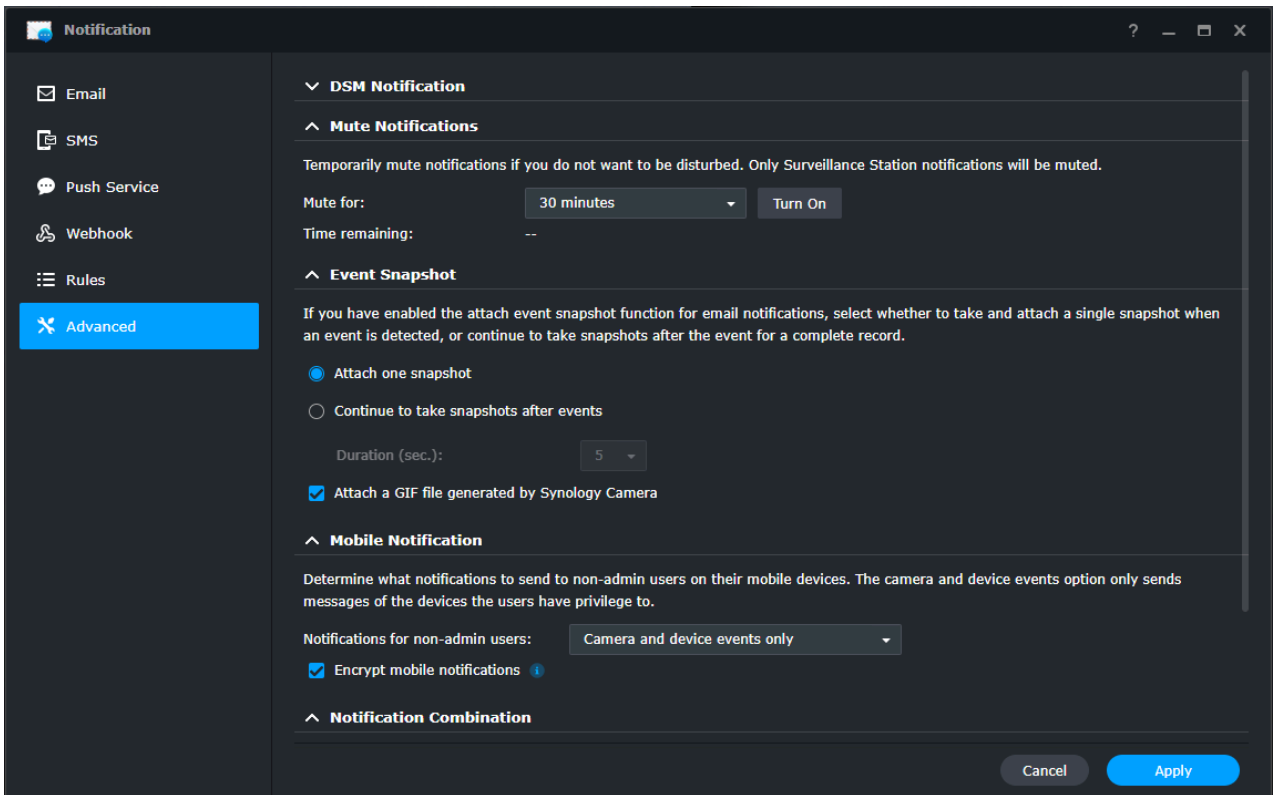
To customize notification contents, select an event and go to **Edit > Message**. You can also specify a schedule for specific notifications under the **Schedule** tab.



For more information, refer to Surveillance Station Help > Notification > [Rules](#).

Manage advanced settings

In **Notification > Advanced**, you can mute notifications, set the notification types for non-admin users, combine the same notifications, and edit notification variables.



For more information, refer to Surveillance Station Help > Notification > [Advanced](#).

Action Rules

In **Surveillance Station > Action Rule**, you can automate various surveillance tasks, reducing manual workload. Combine action rules with features like camera patrols and I/O modules to create customized workflows. Stay informed with real-time notifications for critical events like lost camera connections or tampering.

Set up action rules

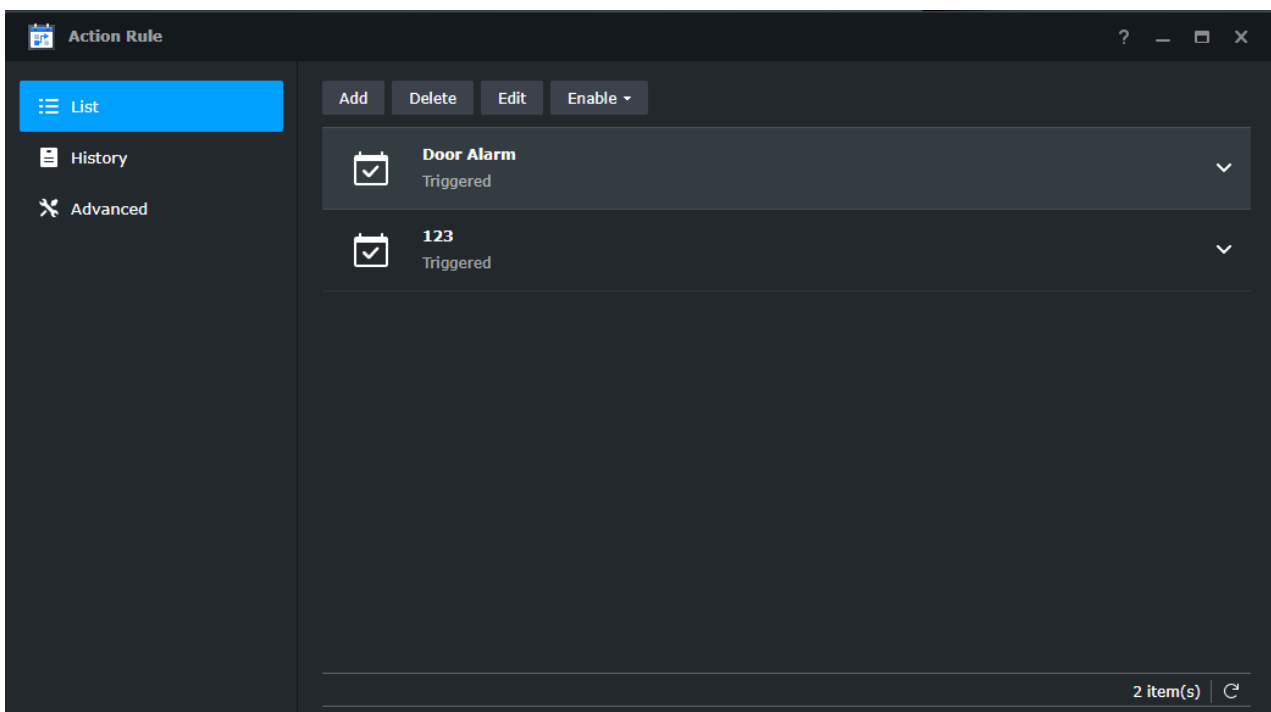
In **Action Rule > List**, you can add, edit, enable, disable, and delete action rules.

You can set up either a triggered or scheduled action rule.

- [Set up triggered rules](#) that are executed when the set event conditions are met.
- [Set up scheduled rules](#) that are executed according to schedule.

When different action rules trigger the same actions at the same time:

- Triggered rules have higher priority than scheduled rules.
- Manually executed actions have higher priority than event-triggered actions.



For more information, refer to Surveillance Station Help > Action Rule > [List](#).

Track action rule history

In the **Action Rule > History**, you can view, clear, and download the automatically generated logs. For triggered action rules, Surveillance Station will generate a log each time an action rule is triggered. For scheduled action rules, Surveillance Station will generate logs both at the start and end of a schedule.

Log types, recorded times, action rule names, action rule types, and action results are displayed.

Action Result states for **triggered** action rules:

States	Description
Start	The action rule was executed successfully.
Failed	The action rule was not executed.
Interrupted	The action rule was interrupted manually or by another rule executing the same action.
Ignored	The action rule was ignored because another rule executed the same action.

Action Result states for **scheduled** action rules:

States	Description
Finished	The action rule has started according to its schedule.
Interrupted	The action rule was interrupted manually or by another rule executing the same action.
Continued	The action rule continued after it was interrupted.
Finished	The action rule has finished successfully according to its schedule.

The screenshot shows the 'Action Rule' window with the 'History' tab selected. The table below represents the data shown in the history list.

Type	Date & Time	Name	Rule Type	Action Result
i	01/10/2024 15:31:49	123	Triggered	Finished
i	01/10/2024 15:31:49	123	Triggered	Finished
i	01/10/2024 15:31:49	123	Triggered	Finished
i	01/10/2024 15:31:49	123	Triggered	Finished
i	01/10/2024 15:31:37	123	Triggered	Finished
i	01/10/2024 15:31:37	123	Triggered	Finished
i	01/10/2024 15:31:37	123	Triggered	Finished
i	01/10/2024 15:31:37	123	Triggered	Finished
i	01/10/2024 13:35:15	123	Triggered	Finished
i	01/10/2024 13:35:15	123	Triggered	Finished
i	01/10/2024 13:35:15	123	Triggered	Finished
i	01/10/2024 13:35:15	123	Triggered	Finished
i	01/10/2024 07:44:53	123	Triggered	Finished
i	01/10/2024 07:44:53	123	Triggered	Finished

At the bottom right of the table, it indicates '45214 item(s)' with a refresh icon.

Modify action rule storage

In **Action Rule > Advanced** tab, rotation rules can be adjusted to best suit your needs. You can set the rules by days, file sizes, and file numbers.

The screenshot shows the 'Action Rule' window with the 'Advanced' tab selected. The 'History Rotation' section is expanded, showing the following settings:

- Keep logs within (days): 30
- Limit the log size up to (MB): 256
- Limit the log number: 100,000

Buttons for 'Cancel' and 'Apply' are visible at the bottom right of the settings panel.

Archive Vault

In **Surveillance Station > Archive Vault**, you can manage archiving tasks and transfer recordings from other servers to your Synology device.

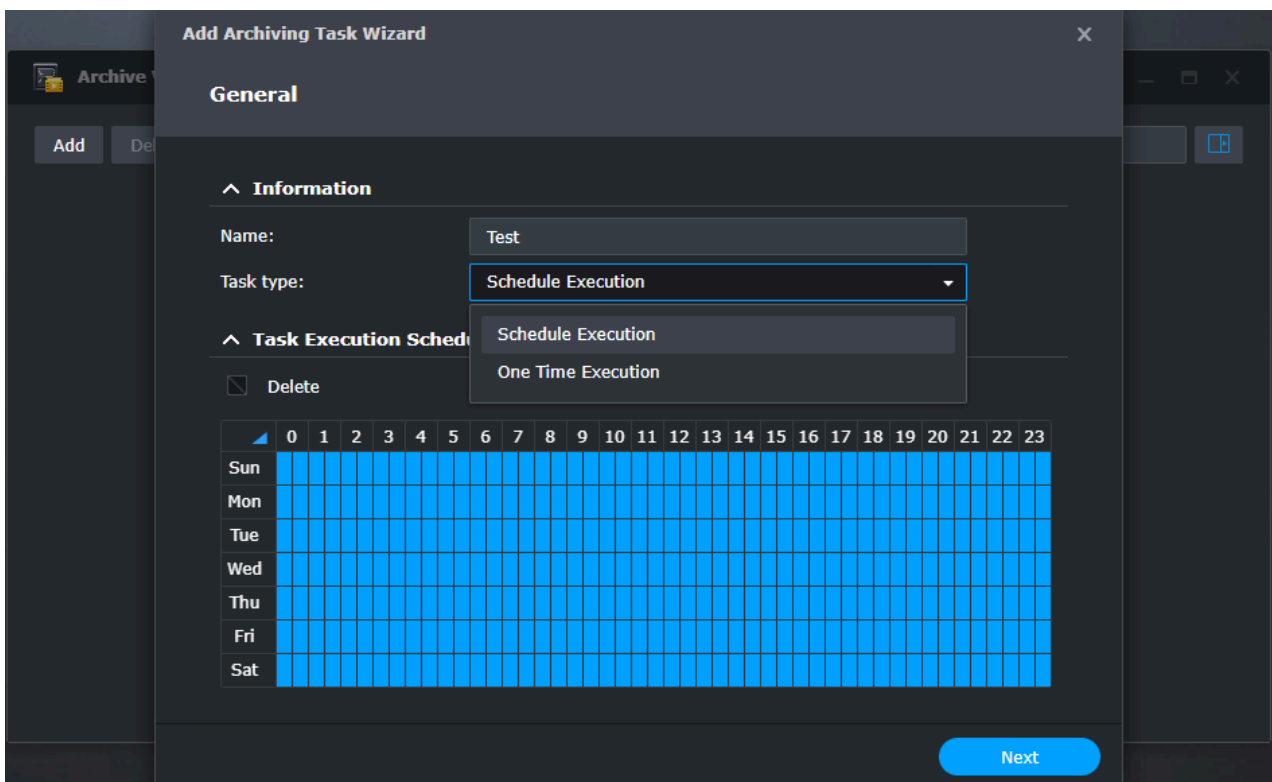
Configure archiving tasks

Add archiving tasks

To configure new archive tasks, go to **Archive Vault > Add** and [follow the steps](#) in the **Add Archiving Tasks Wizard**.

You can choose to **Schedule Execution** or do a **One Time Execution** of the task.

- **Schedule Execution:** Execute the archiving task periodically.
- **One Time Execution:** The archiving task will only be executed once. You can select either **Execute immediately** to allow archiving tasks to be executed once it is added or **Execute at the specified time** and specify when to execute the archiving task.

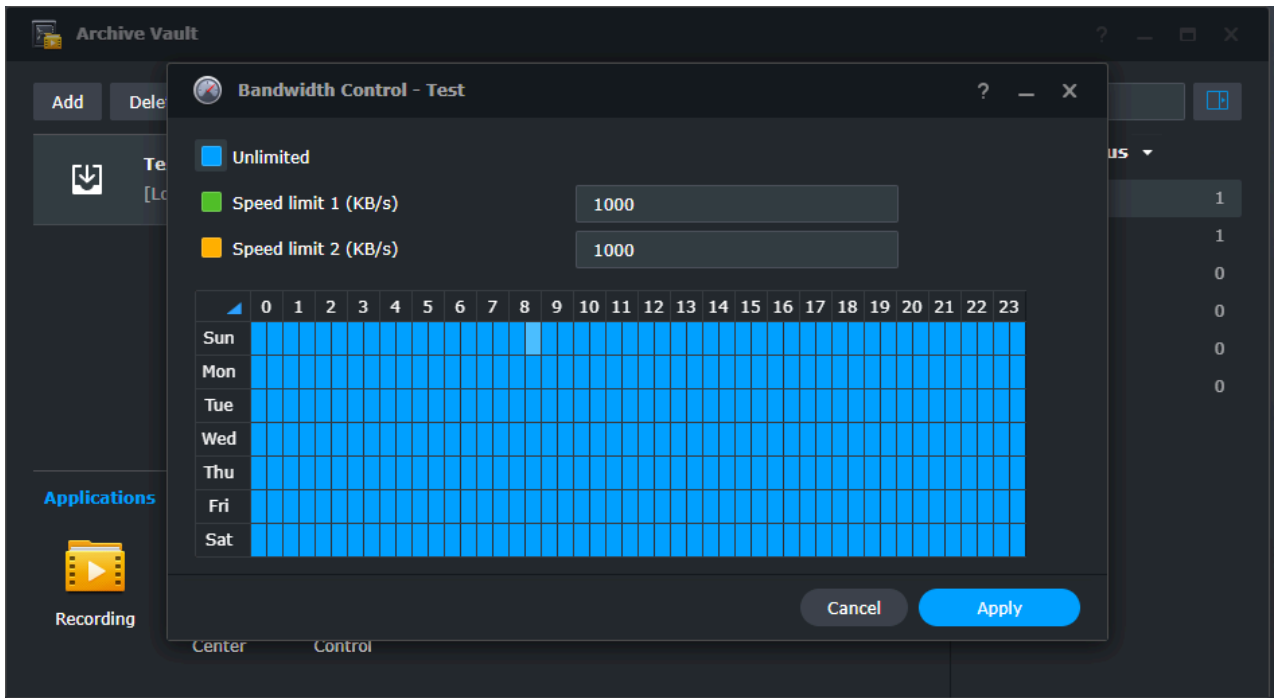


Edit tasks

To edit tasks, simply select your target task and click **Edit**. You can also use the **Batch Edit** function to edit multiple tasks at once.

Configure bandwidth control

In **Archive Vault > Bandwidth Control**, you can view and configure the bandwidth control schedule of the current archiving task. In addition to the default unlimited bandwidth, two sets of speed limits are provided. You can also define your desired bandwidth limit and modify the schedule.



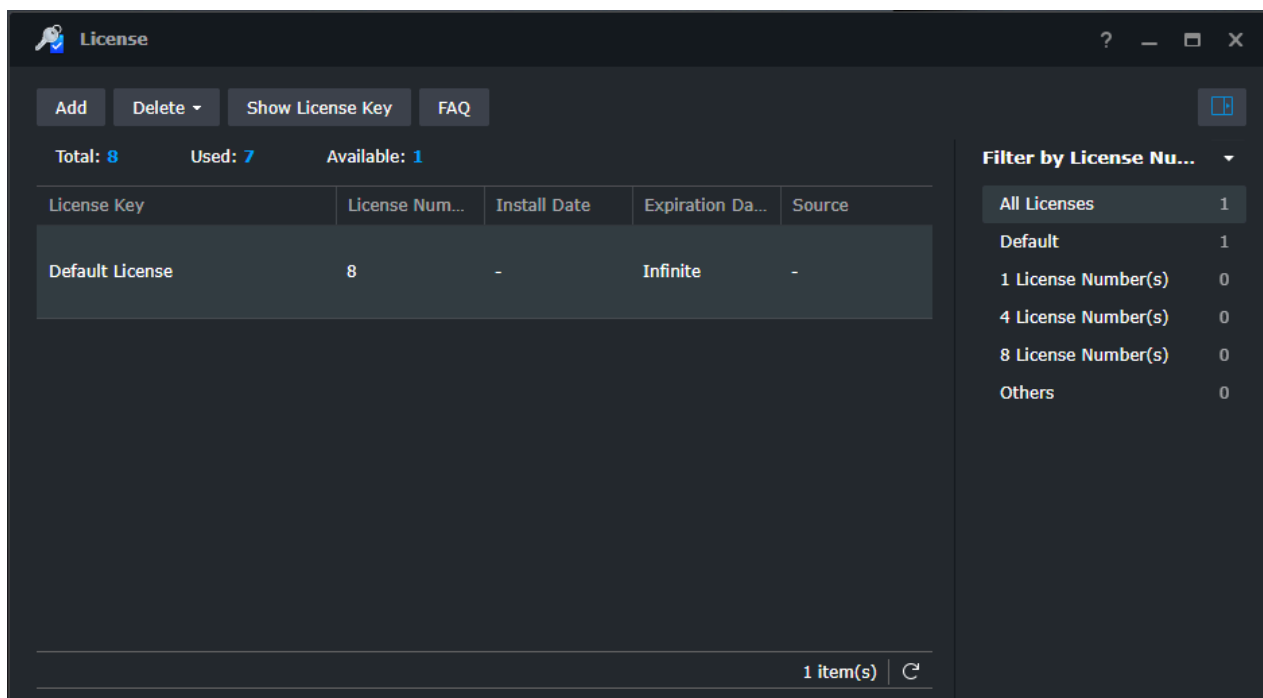
License

In **Surveillance Station > License**, you can view the installed surveillance device licenses and the number of licenses that you have already used.

Install licenses on Surveillance Station

By default, a Synology NAS product comes with two free licenses, and depending on the actual model, an NVR product comes with multiple pre-installed licenses.

To install a new license, go to **License > Add** and [follow the steps](#) provided by the **Add License Wizard**. You can add multiple licenses at once.



Adding or deleting licenses requires an Internet connection to Synology for validation.

Notes:

- If you need to manage licenses offline, you can do so through the mobile app DS cam. For more information, refer to [this article](#).
- If you wish to migrate licenses to another Synology device, please remove the licenses from the current device and install them on the desired NAS/NVR.

Purchase licenses

For additional surveillance devices such as IP cameras, I/O modules, AXIS Door Controllers, and transaction devices, extra licenses can be purchased.

For more information, refer to [Surveillance Device License Pack](#).

Note:

- Neither the pre-installed licenses nor the surveillance device license pack will ever expire.

CMS

CMS (Central Management System) allows you to set your Synology NAS/NVR as a host server while adding multiple Synology devices as recording servers to form a larger surveillance network. The host server will act as the central interface to monitor cameras managed by other recording servers. You can also add multiple Synology devices as failover servers to maximize the uptime of surveillance services.

For more information about CMS failover, refer to the [white paper](#).

Operate CMS Servers

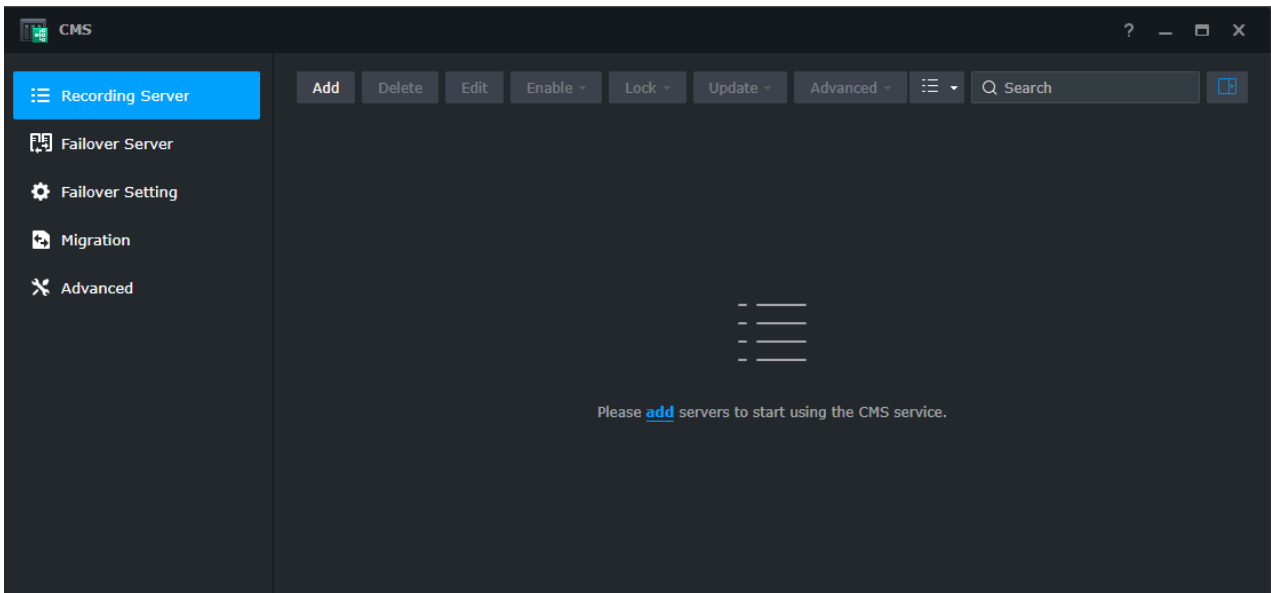
Enable **CMS** in **Surveillance Station** > **Application** to add or update recording servers, and manage cameras installed on such servers.

Add recording servers

Go to **CMS** > **Recording Server** > **Add** and [follow the steps](#) in the **Add Server Wizard** to add a recording server. You will need to authenticate recording servers using administrator credentials during this process.

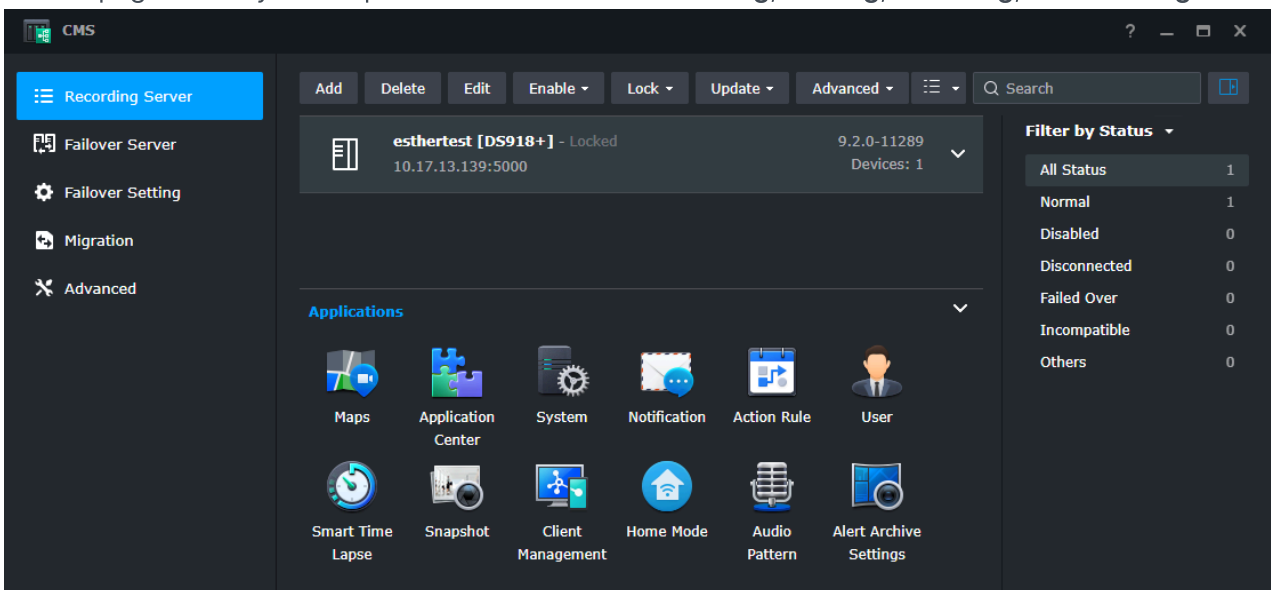
You can apply the following permissions while adding a recording server:

- **Prevent other CMS hosts from pairing with this recording server:** This option locks the recording server from the paired CMS host so that it cannot be added by other CMS hosts.
- **Prevent users on this recording server from making changes to it:** This restricts access to the settings of recording servers by preventing users from performing any operations after login. The admin or users belonging to the administrators group on the recording server will only have access to the Advanced page, where they can modify this option afterward. Users without administrative privileges will not be able to view or modify any settings after login.



Manage recording servers

Once you have successfully added recording servers, they will be listed on the **CMS > Recording Server** page where you can perform actions such as **editing, locking, disabling, and deleting**.

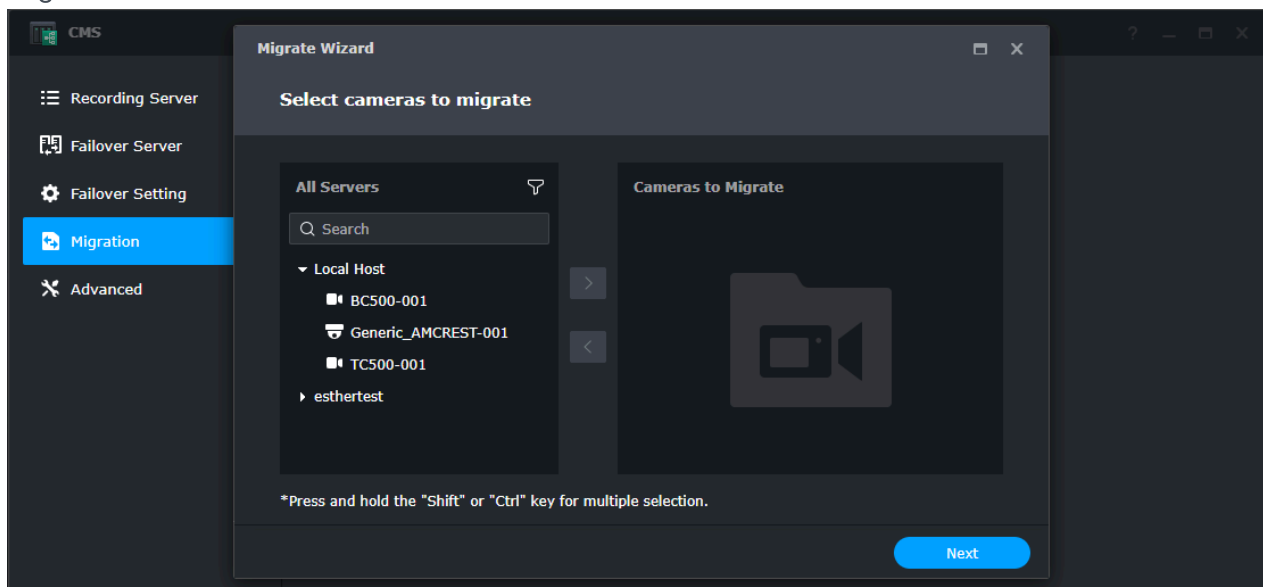


You can change the host server's operation mode on the **Advanced** page.

- **Host server mode:** Enable **Video relay over the Internet automatically** if you need to access a central management system from a different domain.
- **Recording server mode:** Enable **Prevent users on this recording server from making changes to it** so users without administrative privileges will not be able to view or modify any settings after sign-in.
- **Failover server mode:** All the configurations, recordings, and licenses on this server will be cleared when the server is switched to this mode. Before switching to the **Failover server mode**, please back up your data and keep the license keys secure.

Migrate cameras

Once the CMS system has been set up, connected IP cameras from different servers can be migrated from one server to another at **CMS > Migration**. Click **Add** and [follow the steps](#) in the Migrate Wizard.



For more information about migrating cameras, refer to Surveillance Station Help > CMS > [Migration](#).

CMS Failover

To minimize downtime and ensure uninterrupted surveillance, you can add failover servers to take over services when a recording server encounters issues. You can also customize failback settings to determine how services should be restored once the original server is operational again.

Manage failover server

You can ensure uninterrupted service by adding a failover server in **CMS > Failover Server**. When unexpected errors occur, CMS will automatically choose a corresponding server to take over the surveillance services. The failover server will then operate with the same Surveillance Station configuration on the protected recording server. When the recording server becomes operative again, the surveillance services will go back automatically to the original failback settings.

Add one or more failover servers

To add a failover server, click the **Add** button and select **Add Server**. (Selecting **Add Batch** will allow you to add multiple servers at once.) Fill in the required information such as the **Name**, **Connection type**, **IP address**, **Port**, **User name**, and **Password**.

If you want to add a Synology NAS with an inactive CMS service, click **Enable** and enter its admin credentials to enable the CMS service on that device.

Update the server's Surveillance Station

If the failover server's Surveillance Station package version is lower than the current Host server's, it must be updated to use CMS.

You can update servers using **Online update** or using **Manual update**.

For more information about managing failover servers, refer to Surveillance Station Help > CMS Failover > [Failover Server](#).

Enable automatic failover

Automatic failover automatically switches surveillance services to a standby server when specified conditions are met, minimizing downtime and maintaining uninterrupted monitoring.

To set up automatic failover, go to **Failover Setting > Trigger Settings** and select the **Enable automatic failover** checkbox. [Configure the conditions](#) that will trigger the failover. If you enable the option to automatically stop failover, services will be restored based on your failback setting when the failed over recording server resumes normal operation.

You can also automatically restore recordings and snapshots taken during the failover status back to the recording server when it resumes normal operation.

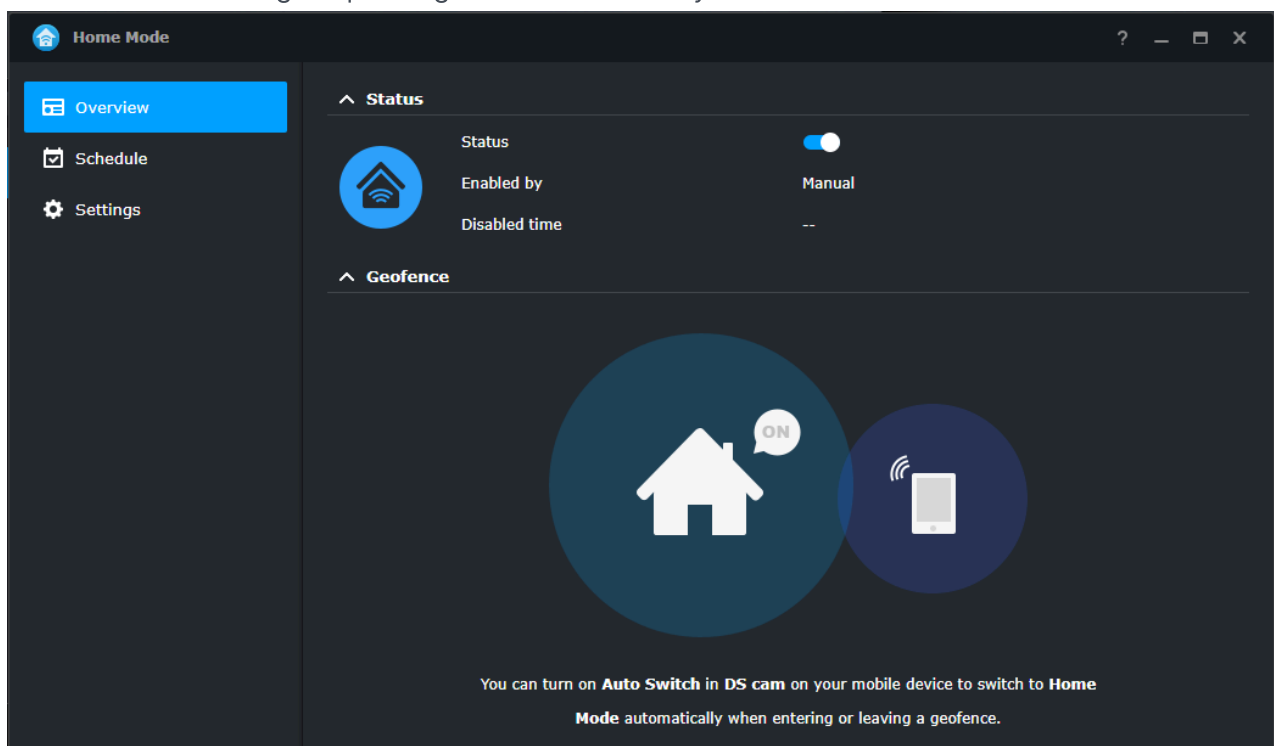
For more information on Failover Setting, refer to Surveillance Station Help > [Failover Setting](#).

Additional Features

Surveillance Station also provides various applications to manage and integrate surveillance features such as recording, notification, stream profile, and action rules efficiently. This chapter introduces some functions to enhance your monitoring experience.

Home mode

In **Surveillance Station > Home Mode**, you can customize recording, notification, stream profile, and action rule settings depending on whether or not you are on site.



To switch to Home Mode manually, go to **Overview >** and enable the toggle next to **Status**.

To switch to Home Mode using geofencing, download and sign in to the DS cam application on your mobile device. On the **Home Mode** page, you can [configure Auto Switch](#), which will allow you to switch to **Home Mode** automatically when your mobile device enters the Home location or connects to the Home Wi-Fi.

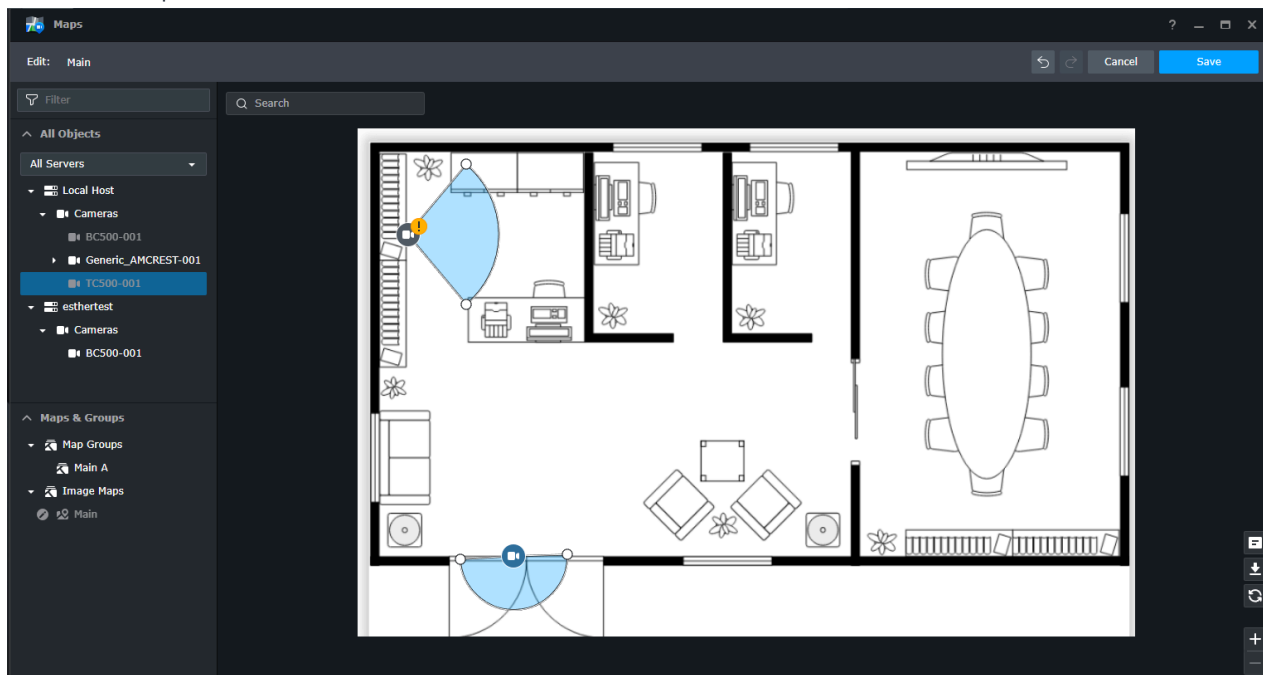
You can also switch to Home Mode by schedule or perform a one-time switch at a specified time in **Home Mode > Schedule**.

In **Home Mode > Settings**, you can modify **Recording**, **Notification**, **Stream Profile**, and **Action Rule** from the corresponding tabs, and select which set of settings to enable and what devices to apply them to

For more information on Home Mode, refer to Surveillance Station Help > [Home Mode](#).

Maps

Surveillance Station > Maps allows you to set up an interactive map where you can visualize your environments, achieve a seamless viewing experience, and automatically track security events across multiple locations.



Sources for a map can either be an image map you upload, through a map service such as OpenStreetMap, Google Map, or a tile server.

o create an image map, click the + button on the top-right corner of **Image Maps**. If you want to use a map from a map service, click on **Map Service > Enable map service**.

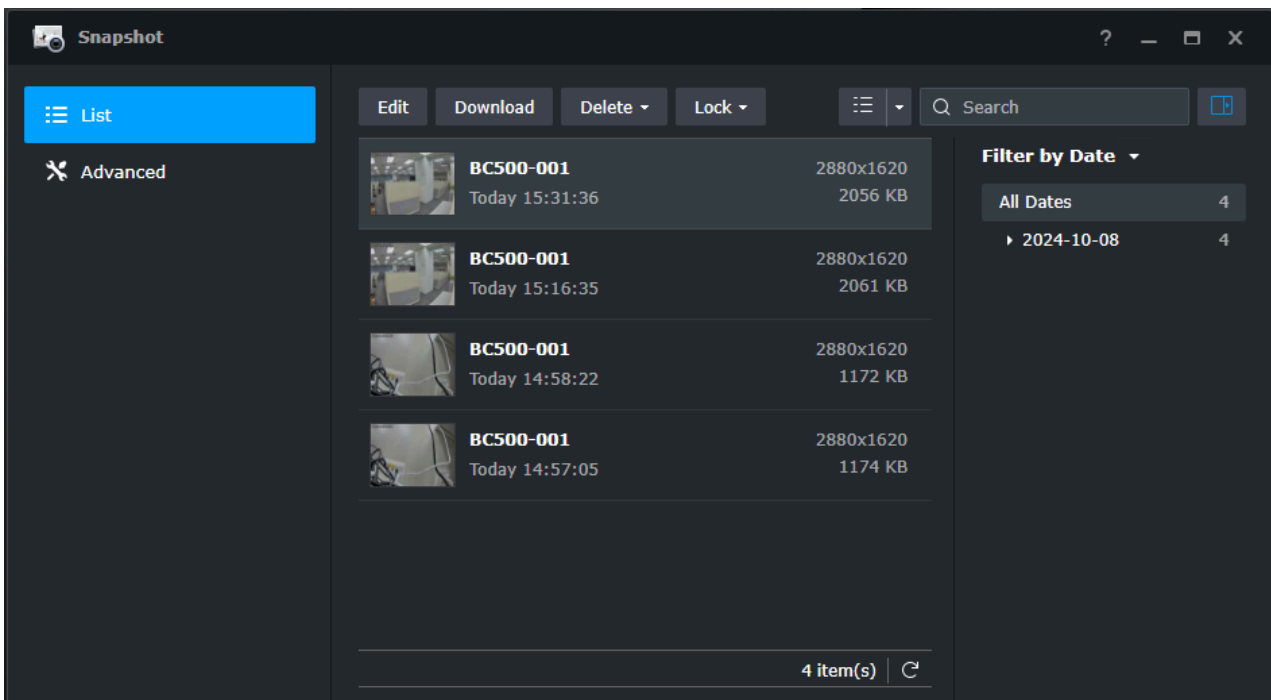
Once a map is created, click on **Edit** to **add** objects, maps, or map groups from their relevant panels to the desired location on the current map. Objects may include network cameras, I/O modules, doors, transaction devices, and network speakers that have already been added to Surveillance Station.

Once a map is complete, it can be used in the **Monitoring Center** to track alerts from relevant devices at locations displayed on the map.

For more information about **Maps**, go to Surveillance Station Help > [Maps](#).

Snapshot

Surveillance Station > Snapshot allows you to track and edit all the snapshots taken from players (e.g., Live View, Recording, or IP Camera) in Surveillance Station.

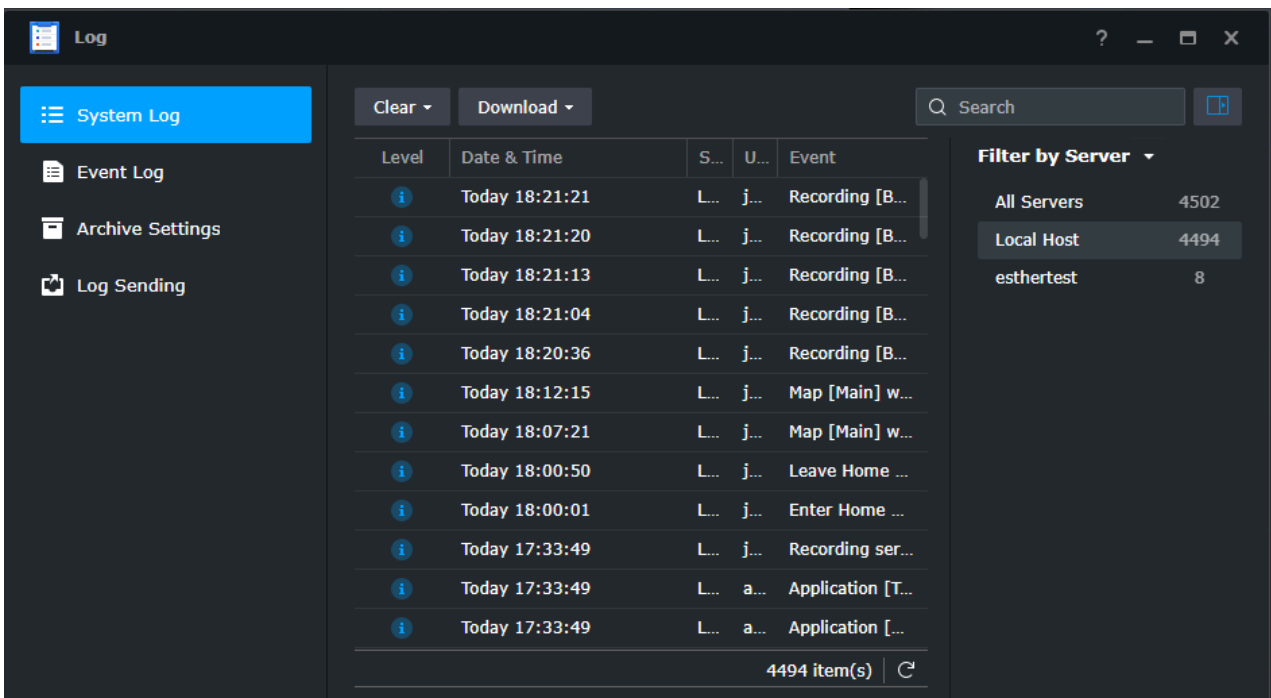


In **Snapshot > List**, you can view the snapshots taken in Surveillance Station players. Select one or more snapshots to **Edit** them.

The **Advanced** page provides options for you to configure the sorting, naming, display, and archive rules of snapshots.

Log

Surveillance Station > Log allows you to view, archive, and manage logs and track everything that occurred in Surveillance Station.

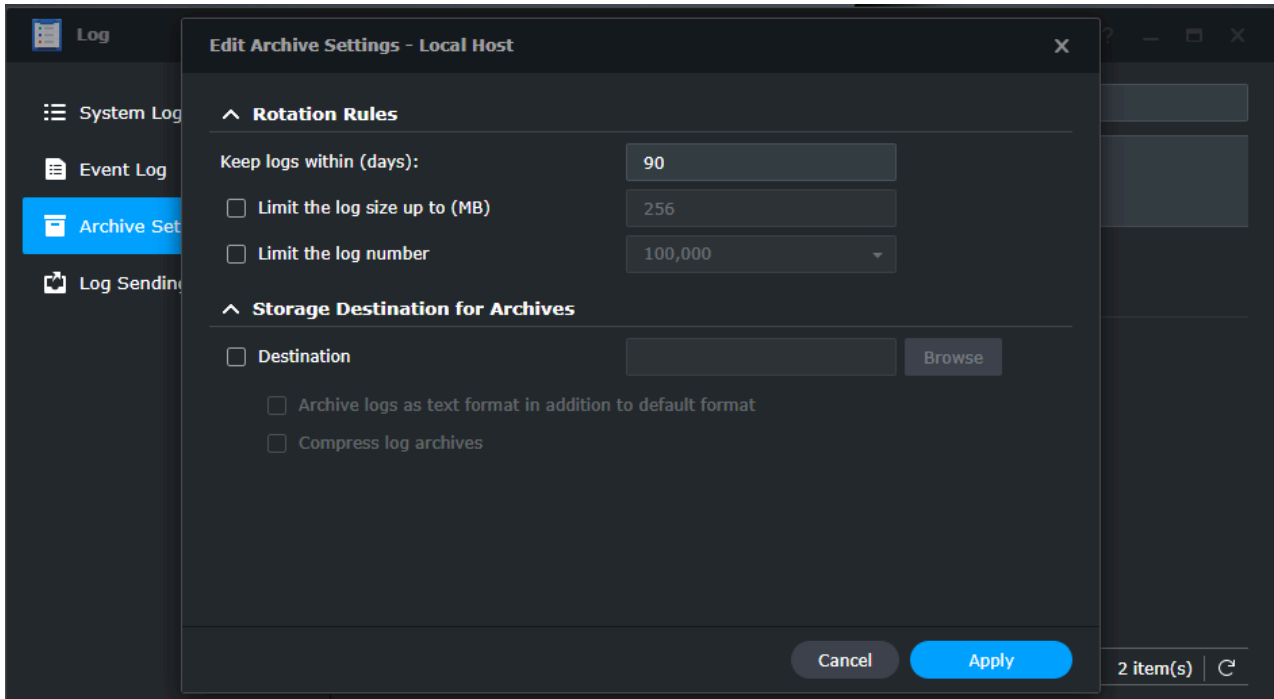


System Log allows you to view and manage logs of all Surveillance Station system operations, e.g., user logins, camera connections, recording storage changes, and application statuses.

Event Log allows you to view all camera logs, I/O module, Face Recognition, and Deep Video Analytics events and playback the corresponding recordings directly.

Both types of logs allow you to **Clear** existing logs or **Download** them.

The rotation and archive rules of the logs can be modified on the **Archive Settings** page.



If you wish to save your logs to a syslog server, go to the **Log Sending** page, select **Send logs to a syslog server**, and enter the required information.

For more information, please refer to Surveillance Station Help > [Log](#).