



Synology Network Video Recorder NVR216 with Surveillance Station

User's Guide

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Appendix A: Specifications







Appendix B: LED Indicator Table

Before You Start

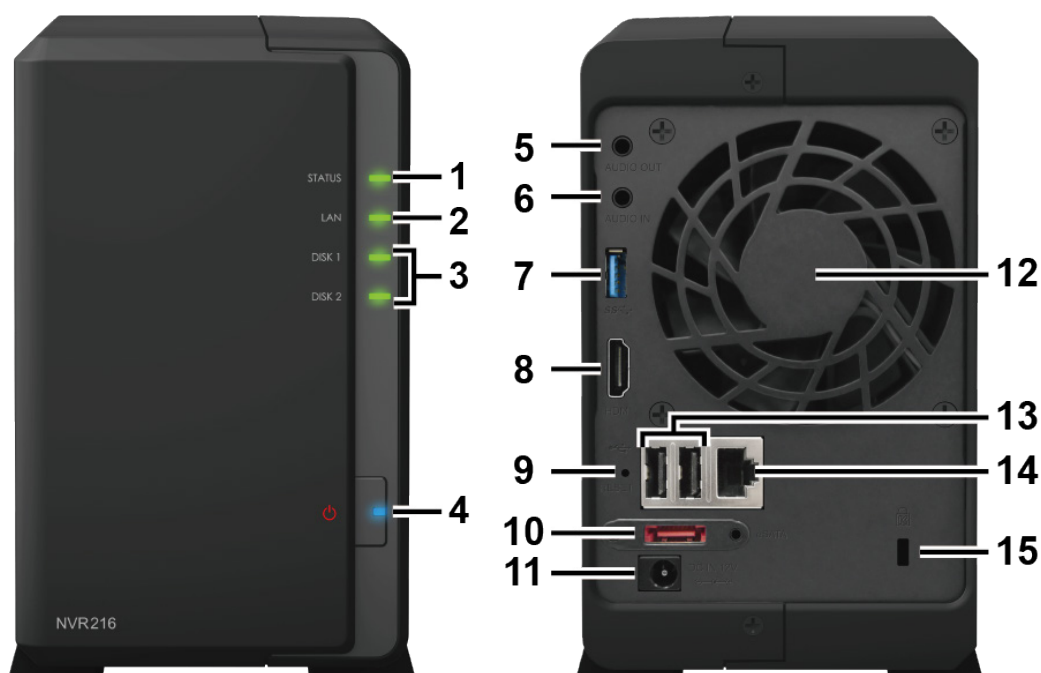
Thank you for purchasing Synology Network Video Recorder (NVR). NVR combines the network-attached storage (NAS) with PC-less configuration, operation, and local display of the network video recording package – Surveillance Station. Before setting up your new NVR, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your NVR.

Note: All images below are for illustrative purposes only, and may differ from the actual product.

Package Contents

Main unit x 1	AC power cord
	
	AC power adapter x 1
	
	RJ-45 LAN cable x 1
	
Screws for drives x 10	Screws for fixing the Synology case x 3
	

Synology NVR at a Glance






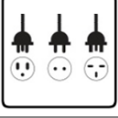
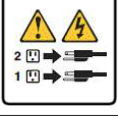



No.	Article Name	Location	Description
1	Status Indicator	Front Panel	Displays the status of the system. For more information, see "Appendix B: LED Indicator Table".
2	LAN Indicator		Displays the status of the network connection. For more information, see "Appendix B: LED Indicator Table".
3	Disk Indicator		Displays the status of the installed drive. For more information, see "Appendix B: LED Indicator Table".
4	Power Button and Indicator		1. Press to power on the NVR. 2. To power off the NVR, press and hold until you hear a beep sound and the Power LED starts blinking.
5	Audio Output	Back Panel	Connect an external speaker or earphone here.
6	Audio Input		Connect a microphone here.
7	USB 3.0 Port		Connect external drives or supported USB devices ¹ to the NVR here.
8	HDMI Output		Connect an HDMI cable here.
9	RESET Button		1. Press and hold until you hear a beep sound to restore the default IP address, DNS server, and password for the admin account. 2. Press and hold until you hear a beep sound, then press and hold again until you hear three beep sounds to return the NVR to "Not Installed" status so that DiskStation Manager (DSM) can be reinstalled.
10	eSATA Port		Connect to Synology Expansion Unit ² here.
11	Power Port		Connect the AC power adapter here.
12	Fan		Disposes of excess heat and cools the system. If the fan malfunctions, the NVR will emit a beeping sound.
13	USB 2.0 Port		Connect external drives or supported USB devices ¹ to the NVR here.
14	LAN Port		Connect an RJ-45 network cable here.
15	Kensington Security Slot		Attach a Kensington security lock here.

¹ Supported USB devices include USB drive, mouse, keyboard, and uninterruptible power supply (UPS). Any other devices are not supported on your NVR.

² For more information about Synology Expansion Unit supported by your NVR, please visit www.synology.com.

Safety Instructions

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
	Place the product right side up at all times.
	Do not place near any liquids.
	Before cleaning, unplug the power cord. Wipe with damp paper towels. Do not use chemical or aerosol cleaners.
	To prevent the unit from falling over, do not place on carts or any unstable surfaces.
	The power cord must plug in to the correct supply voltage. Make sure that the supplied AC voltage is correct and stable.
	To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.
	Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.

Hardware Setup

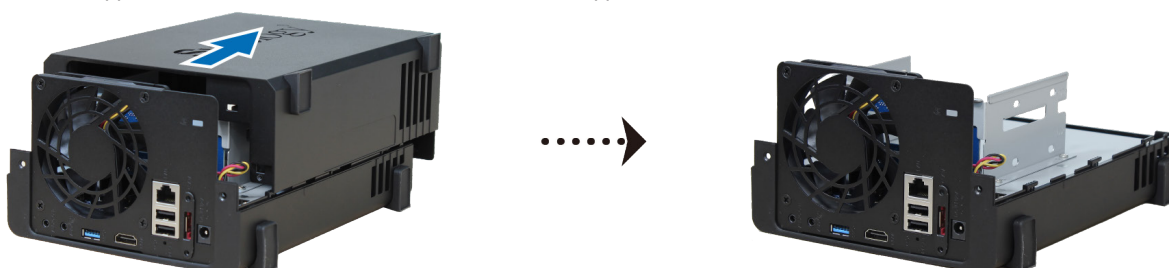
Tools and Parts for Drive Installation

- A screwdriver
- At least one 3.5" or 2.5" SATA drive (please visit www.synology.com for compatible drive models.)

Warning: If you install a drive that contains data, the system will format the drive and erase all existing data. Please back up any important data before installation.

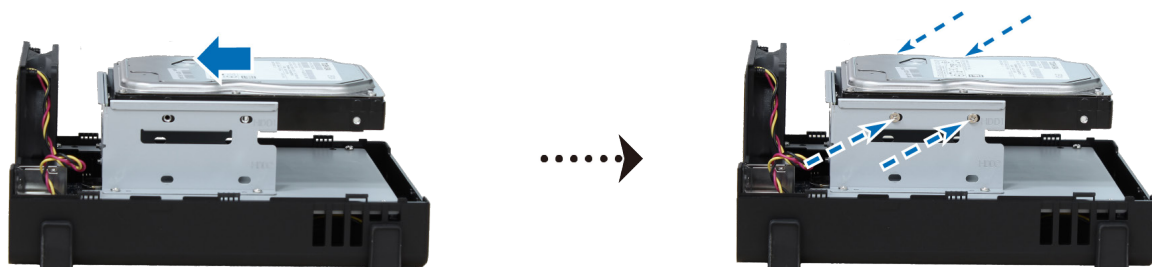
Install Drives

- 1 Push the upper case in the direction as shown below. Lift the upper case and set it aside.

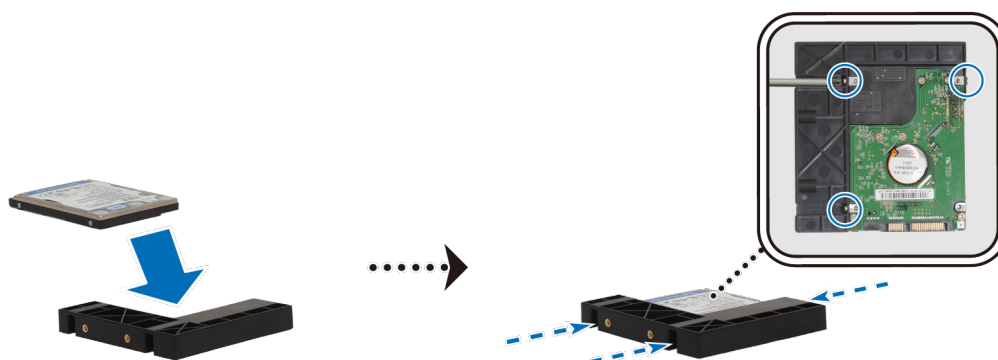


- 2 Install drives:

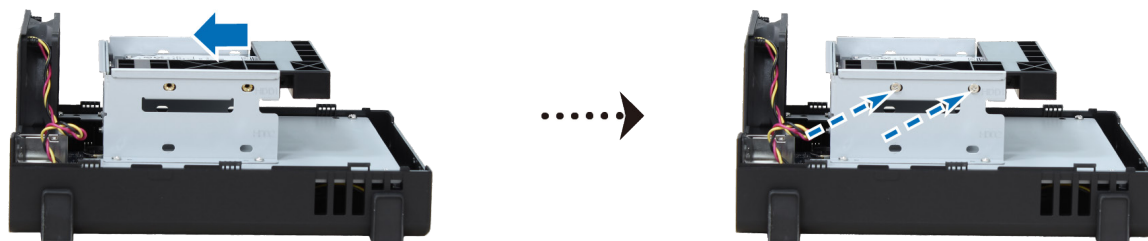
- **For 3.5" drives:** Slide the drive into the drive bay, and push it all the way until it's firmly connected to the SATA connector. Secure the drive with the screws provided.



- **For 2.5" drives:**
 - a Place the drive in the 2.5" Disk Holder (Type C, sold separately), and then tighten the 2.5" screws to secure the drive.



- b Slide the 2.5" Disk Holder into the drive bay, and push it all the way until the drive is firmly connected to the SATA connector. Secure the Disk Holder with the provided screws.

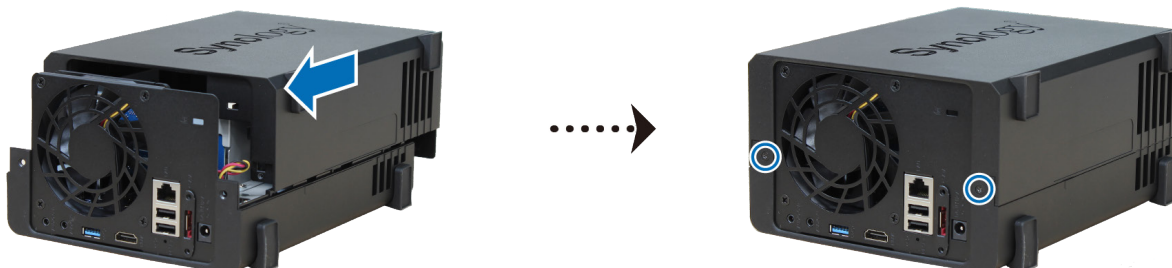


- 3 Repeat the steps above to install the other drive if you have prepared one.
4 The position of drives is as follows:



Note: If you want to create a RAID volume, we recommend that all installed drives are of the same size to make the best use of drive capacity.

- 5 Replace the upper case, and tighten the screws on the back panel.



Start Up Your NVR

- 1 Connect one end of the AC power adapter to the power port of the NVR. Connect the other end to a power outlet.
- 2 Use the LAN cable to connect the NVR to your switch, router, or hub.
- 3 Press the power button to turn on the NVR.



Congratulations! Your NVR is now online and detectable from a network computer.

Install DSM and Surveillance Station on NVR

After hardware setup is finished, please install DiskStation Manager (DSM) – Synology's browser-based operating system – on your NVR.

Install DSM with Web Assistant

Your NVR comes with a built-in tool called **Web Assistant** that helps you download the latest version of DSM from the Internet and install it on your NVR. To use Web Assistant, please follow the steps below.

- 1 Power on the NVR.
- 2 Open a web browser on a computer connected to the same network as the NVR.
- 3 Enter either of the following into the address bar of your browser:
 - a find.synology.com
 - b `nvr:5000`
- 4 Web Assistant will be launched in your web browser. It will search for and find the NVR within the local network. The status of the **NVR** should be **Not Installed**.



- 5 Click **Connect** to start the setup process and follow the onscreen instructions.

Note:

1. The NVR must be connected to the Internet to install DSM with Web Assistant.
2. Suggested browsers: Chrome, Firefox.
3. If you accidentally leave the installation process before it is finished, login to the DSM as **admin** (default administrative account name) with the password left blank.

Get Your NVR Ready

After you finish installing DSM, the system will guide you through the initial configuration of DSM, as well as the installation of Surveillance Station. To get your NVR ready, please follow the steps below.

- 1 Create an account of DSM by entering **Server name**, **Username**, and **Password**. When you finish, please click **Next** to continue.

- 2 Specify how and when the system will update DSM for your NVR. When you finish, please click **Next** to continue.

- 3 After you finish the initial configuration of DSM, your NVR is ready to install Surveillance Station. Please click **Install** to start the installation of Surveillance Station.

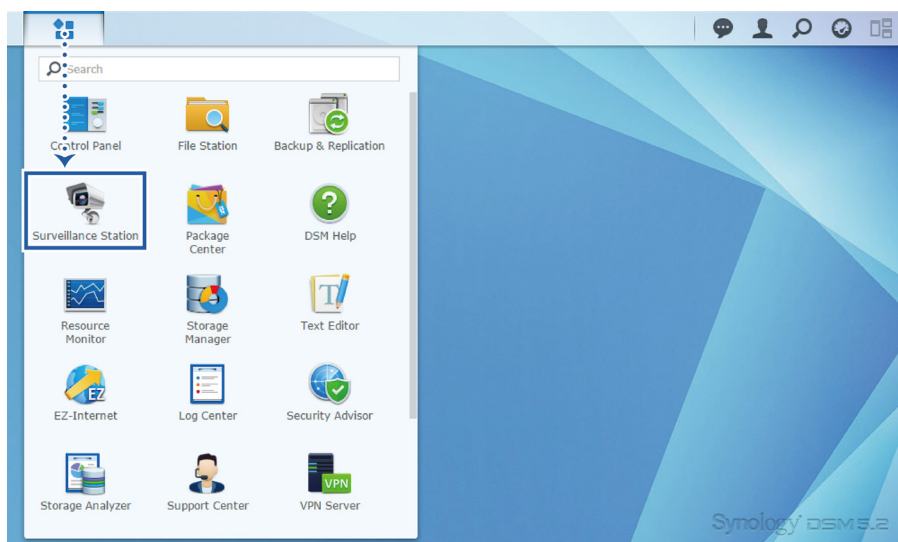
Note: If the installation of Surveillance Station was not completed, please go to **Package Center** in DSM to install **Surveillance Station** manually.

Learn More

Congratulations! Your NVR is now ready for action. For more information or online resources about your NVR, please visit www.synology.com.

Get Started with Surveillance Station

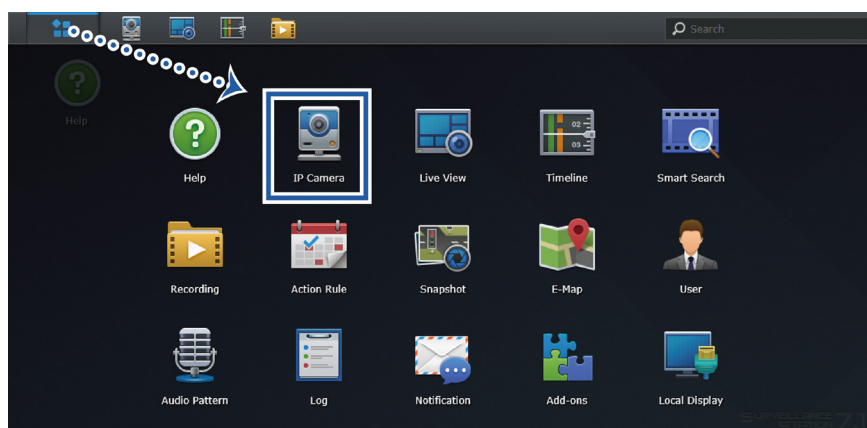
Assuming that your Synology NVR has been connected to the local network and successfully installed DSM and Surveillance Station 7.1 (or above), this chapter will guide you through the main features of Surveillance Station, including configuring IP Camera, monitoring camera feeds with Live View, playing back recordings with Timeline and Recording, and other related add-ons. If you have not yet completed hardware and software setup, please refer to the previous chapters before proceeding. To launch Surveillance Station, please go to **Main Menu > Surveillance Station** in DSM.



Add an IP Camera to Surveillance Station

With Surveillance Station, you can leverage your IP cameras connected to the same local area network as your NVR. To add an IP camera to Surveillance Station, please do the following:

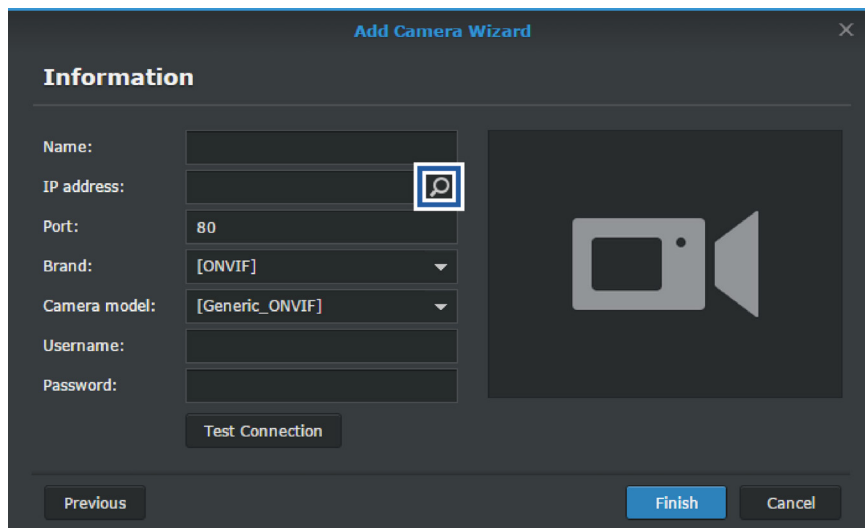
- 1 Make sure you have powered on your IP camera which was connected to the local area network.
- 2 Go to Surveillance Station **Main Menu > IP Camera**.



Note: For more information on Surveillance Station **Main Menu** and **Taskbar**, please refer to Surveillance Station **Help > Surveillance Station Desktop**.

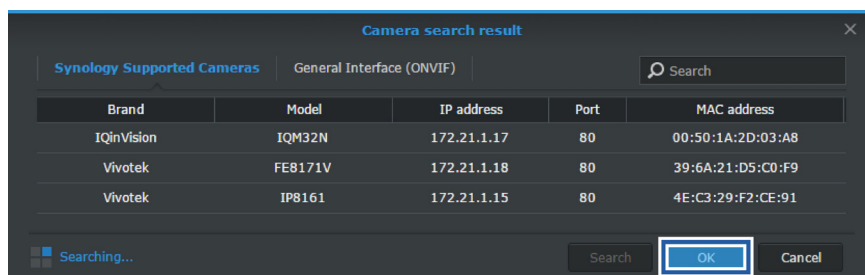
- 3 Click **Add > Add Camera** to launch **Add Camera Wizard**.
- 4 To easily start with IP camera configuration, you can select **Quick Setup** and click **Next**.

- 5 Click the search icon to search for all the IP cameras correctly connected to your local area network.



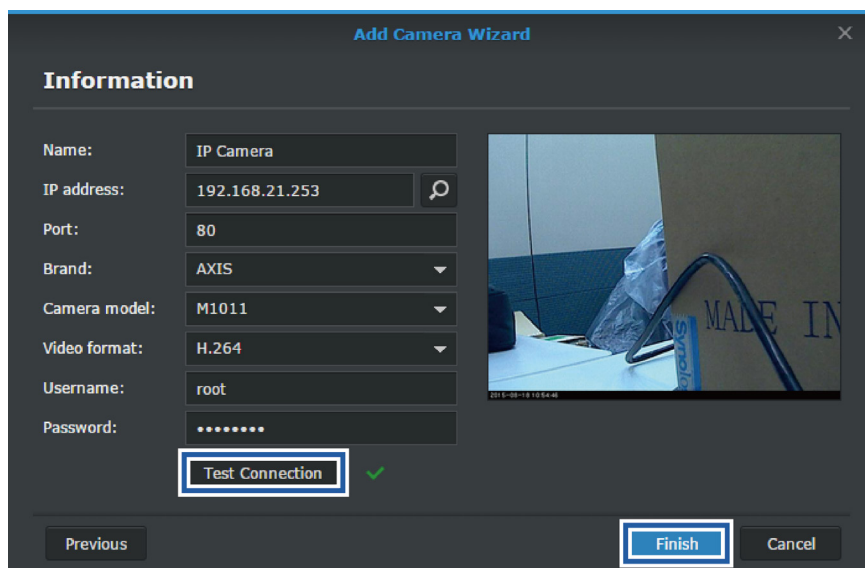
Note: You can also manually enter the camera's information, including **Name**, **IP address**, **Port**, **Brand**, **Camera model**, **Username**, and **Password**.

- 6 In the **Camera Search Result** window, select an IP camera you wish to add to Surveillance Station, and click **OK**.



Brand	Model	IP address	Port	MAC address
IQinVision	IQM32N	172.21.1.17	80	00:50:1A:2D:03:A8
Vivitek	FE8171V	172.21.1.18	80	39:6A:21:D5:C0:F9
Vivitek	IP8161	172.21.1.15	80	4E:C3:29:F2:CE:91

- 7 You can click **Test Connection** to check if your IP camera has been correctly configured. Click **Finish** to complete the procedure.

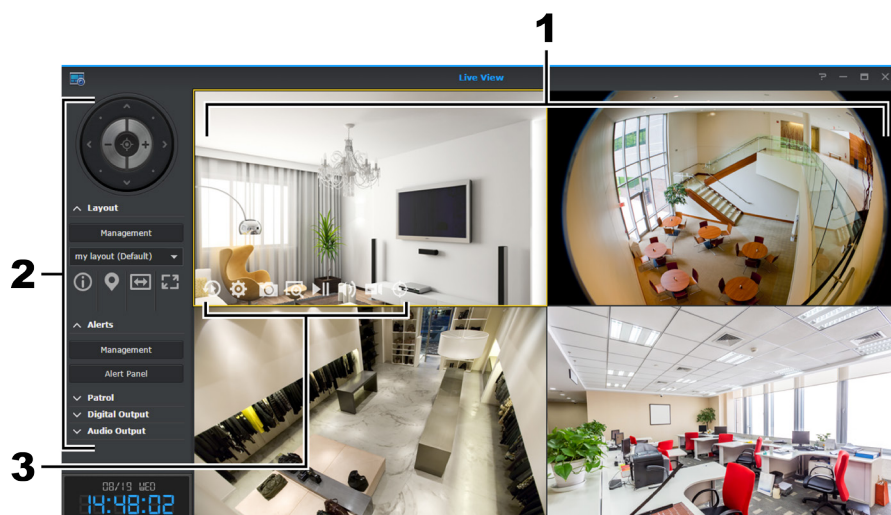


You can now operate various network video recording features of Surveillance Station with your IP camera. To configure further settings for your IP cameras, such as recording, live view, and event detection settings, please refer to corresponding articles under Surveillance Station **Help > IP Camera > Configure Camera Settings**.

Note: Your NVR comes with either of 4-channel or 9-channel configuration. You can add up to 4 or 9 cameras according to the configuration of the NVR you purchased.

Monitor Camera Feeds with Live View

In **Live View**, you can monitor real-time video feeds from IP cameras paired with your NVR, capture snapshots, or adjust camera feeds with pan, tilt, and zoom (PTZ) controls. Camera feeds can be arranged in layouts and customized depending on your individual surveillance needs.



No.	Name		Function
1	Live View Layout		Displays video feeds from IP cameras.
2	Left Panels	PTZ Controls	Adjust angle and zoom of cameras that support PTZ (pan, tilt, zoom) controls. These controls are grayed out when the selected camera does not support PTZ controls. Functions of the buttons are listed as follows: 1. Arrow buttons adjust the angle of the currently selected camera. 2. Home button returns the selected camera to its default position. 3. Plus and minus buttons adjust the optical zoom of the selected camera.
		Layout Panel	Edit live view layouts, or enable/disable layout related features here. For quick configuration of your camera feed layout, please refer to "Start Monitoring by Configuring Live View Layout" section below.
		Alerts Panel	Manage alerts settings or display alerted video clips here. For quick configuration of live view analytics, please refer to "Get Alerted with Live View Analytics" section below.
		Patrol Panel	Switch patrol settings here. For quick setup of patrol paths and schedules, please refer to "Setup Scheduled Patrol with PTZ Control and Action Rule" section below.
		Digital Output/Audio Output	Activate/deactivate digital output and/or audio output here.
3	On-screen Buttons		Hover the pointer over the selected camera feed to display the on-screen buttons. These buttons will show according to the features supported by your cameras. For more information, please refer to Surveillance Station Help > Live View > Monitor Live Views .

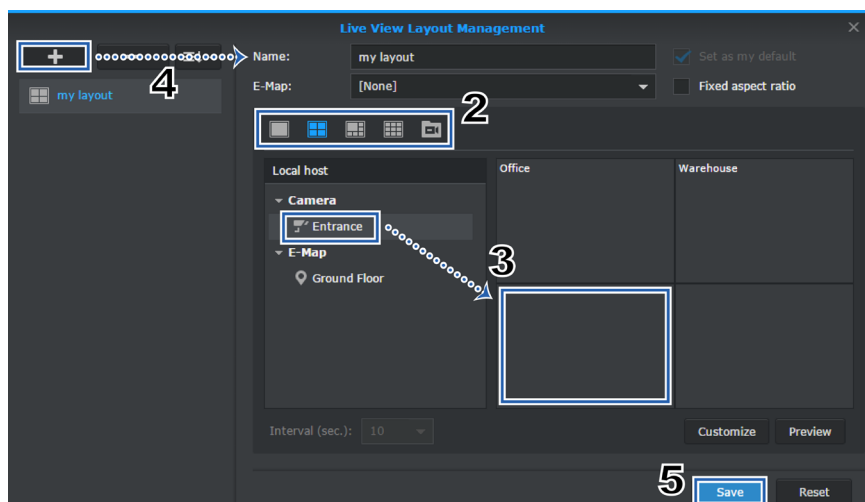
Start Monitoring by Configuring Live View Layout

To configure your live view layout and start monitoring your camera feeds, please do the following:

- 1 Click **Management** on the **Layout Panel**.
- 2 Select your preferred type of live view layout. For details, please refer to Surveillance Station **Help > Live View > Monitor Live Views**.

Note: Supported number of channels depends on the configuration of the NVR you purchased.

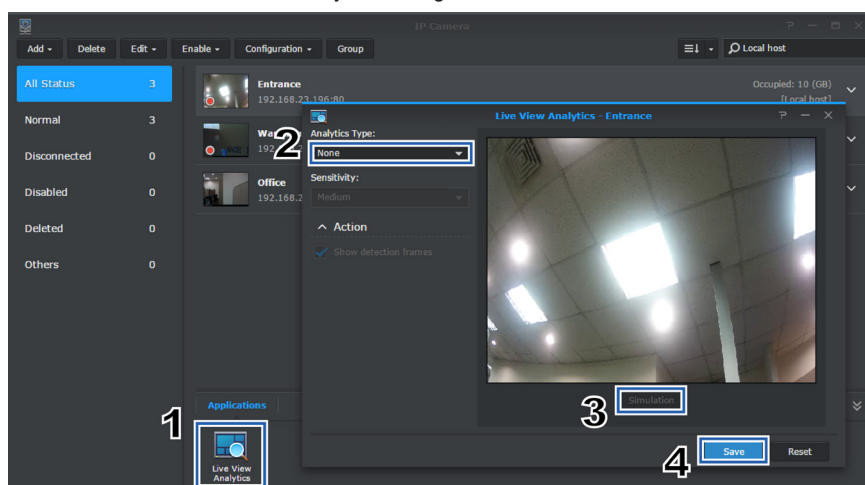
- 3 Drag an IP camera and drop it onto a certain channel of the layout. Repeat this step to display more video feeds on your live view layout.
- 4 According to your surveillance requirements, you can add more layouts by clicking the plus button, enter the **Name**, and repeat steps 2 and 3. After finishing the configuration, you can quickly switch among the saved layouts on the **Layout Panel**.
- 5 Click **Save** to finish the configuration.



Get Alerted with Live View Analytics

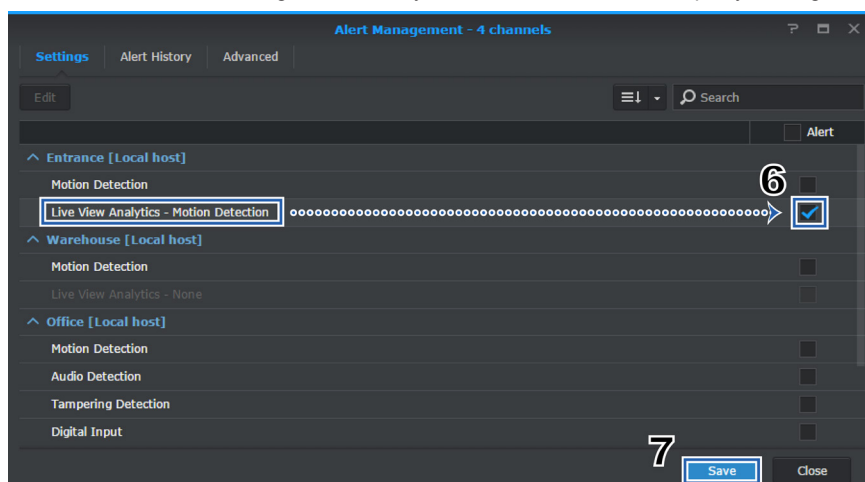
With Alerts feature, you can easily choose from several alert events for your IP cameras, and track suspicious events intelligently to trigger recording on-the-fly. For more information, please refer to Surveillance Station **Help > Live View > Alerts**. To track events with live view analytics, please do the following:

- 1 Go to Surveillance Station **Main Menu > IP Camera**, select a camera, and click **Live View Analytics**.
- 2 Select an **Analytics Type** from the drop-down list. For detailed functions and settings of each analytics type, please refer to Surveillance Station **Help > IP Camera > Live View Analytics**.
- 3 You can click **Simulation** to fine-tune the sensitivity, detection zone, and object size for individual cameras to obtain the best results. To stop simulation mode, please click the button again.
- 4 Click **Save** to finish Live View Analytics settings.



- 5 Go to Surveillance Station **Main Menu > Live View**, and click **Management** on the **Alerts Panel**.

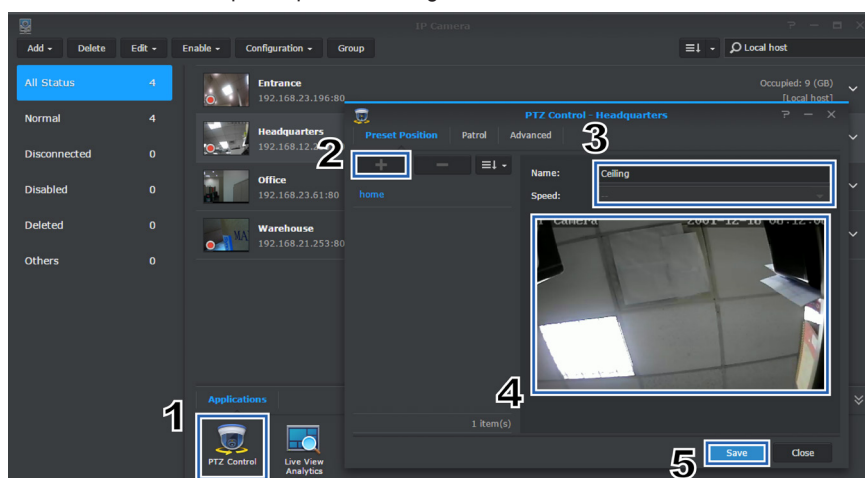
- 6 Tick the **Alert** checkbox for the Live View Analytics item which was just now configured in **IP Camera**.
- 7 Click **Save** to finish the configuration. Now you can track alerted video clips by clicking **Alert Panel** on **Alerts Panel**.



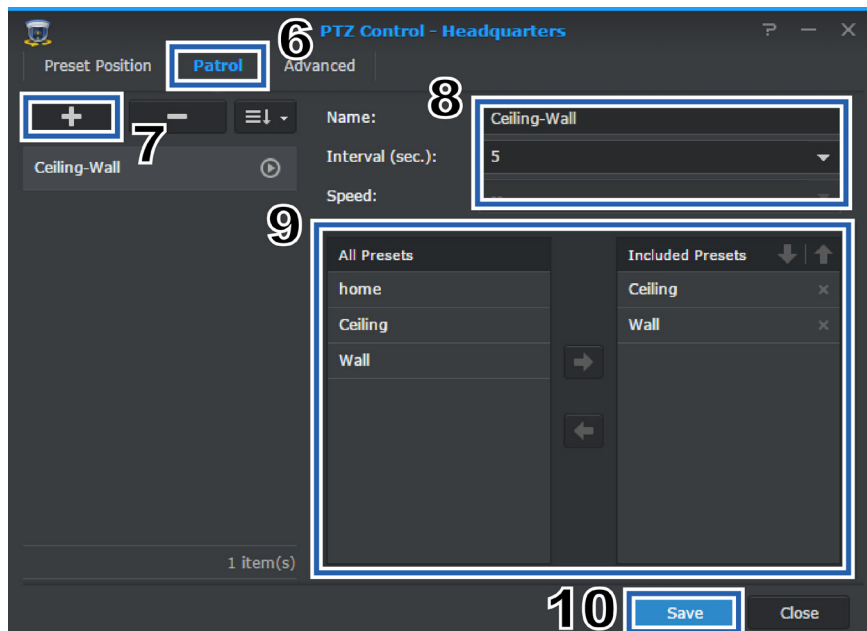
Setup Scheduled Patrol with PTZ Control and Action Rule

If your IP cameras support PTZ control and preset position, you can customize several preset positions, and setup patrol paths composed of a serial concatenation of existing preset positions. To setup patrol paths, please do the following:

- 1 Go to Surveillance Station **Main Menu** > **IP Camera**, select a PTZ-supported camera, and click **PTZ Control**.
- 2 Click the plus button to add a preset position.
- 3 Enter the **Name** of the newly added preset position, and specify the moving **Speed** (if supported by your camera).
- 4 Adjust your desired viewing angle with the on-screen PTZ controls. Repeat steps 2 to 4 to add more preset positions.
- 5 Click **Save** to finish the preset position settings.

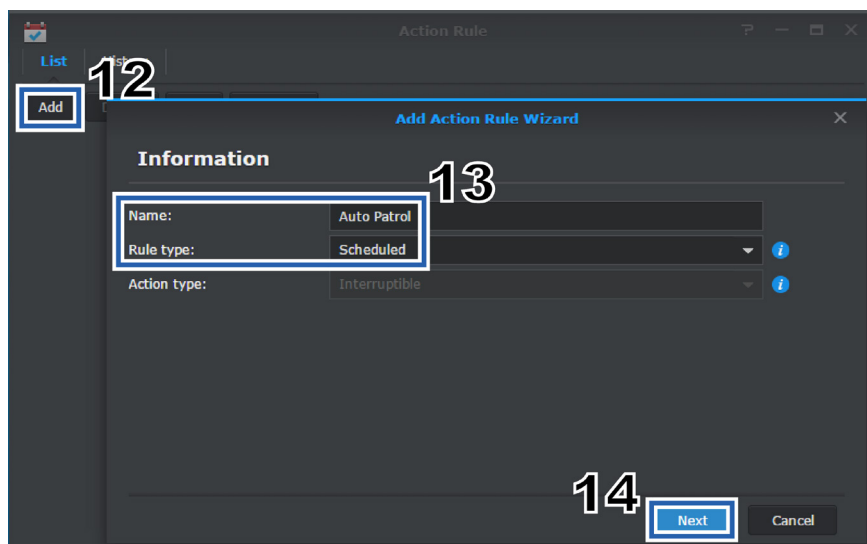


- 6 Go to **Patrol** tab in **PTZ Control**.
- 7 Click the plus button to add a patrol path.
- 8 Enter the **Name** of the newly added patrol path. Select **Interval (sec.)** to have the patrol repeat after a specified time in seconds. Specify **Speed** to adjust the moving speed level when patrol is executing (if camera supported).
- 9 Add preset positions from **All Presets** list to **Included Presets** list. Adjust the preset positions' sequence by clicking the **Up** or **Down** arrow.
- 10 Click **Save** to finish the patrol settings.



Now you can switch patrol paths on **Patrol Panel**. To automatically repeat the set up patrol path, please do the following:

- 11 Go to Surveillance Station **Main Menu** > **Action Rule**.
- 12 Click **Add** to create an action rule.
- 13 Enter the **Name** of the action rule, and set the **Rule Type** as **Scheduled**.
- 14 Click **Next** to continue.



15 Set the **Action Device** as **Camera**. Select the **Device** as the PTZ camera you have configured preset positions and patrol paths. Select **Action** as **Patrol**. Specify the **Patrol** path you have configured. Specify your preferred **Loops per cycle** and **Interval**.

16 Click **Next** to continue.

The screenshot shows the 'Add Action Rule Wizard' window with the 'Action' tab selected. A blue box highlights the configuration fields for 'Action 1'. The fields are: 'Action device:' (Camera), 'Device:' (Headquarters), 'Action:' (Patrol), 'Patrol:' (Ceiling-Wall), 'Loops per cycle:' (1), and 'Interval:' (Second(s) 5). A large number '15' is overlaid on the left side of the configuration area. At the bottom, a blue box highlights the 'Next' button, with a large number '16' overlaid next to it. The 'Previous' and 'Cancel' buttons are also visible.

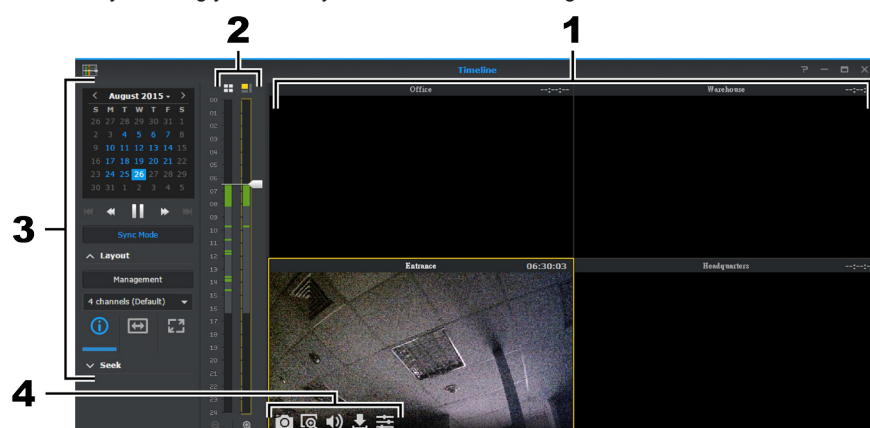
17 Determine when the action rule will be active by selecting cells on the grid. You can select an entire day by clicking on a day and a specific time by clicking on the hour.

18 Click **Finish** to complete the configuration.

The screenshot shows the 'Add Action Rule Wizard' window with the 'Schedule' tab selected. A blue box highlights the schedule grid. The grid has columns for hours (0-23) and rows for days of the week (Sun-Sat). A large number '17' is overlaid on the right side of the grid. Below the grid, a note states: '*Disabled cells are currently used by other rules for this device.' At the bottom, a blue box highlights the 'Finish' button, with a large number '18' overlaid next to it. The 'Previous' and 'Cancel' buttons are also visible.

Playback Video Recordings with Timeline

In **Timeline**, you can play back recordings that were captured with IP cameras and stored on your NVR. Recordings can be filtered based on camera or date. In addition, footage recorded at different times or with different cameras can be watched simultaneously, allowing you to easily have a full understanding of the entire environment.



No.	Name	Function
1	Recordings Viewer	Displays video feeds from IP cameras. Click a camera feed to select it. Once a camera feed is selected, you can use Controller Panel 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	Timeline	Search for recordings according to time captured. There are two columns, the left one representing all camera feeds, and the right one representing the currently selected camera feed.
3	Controller Panel	Controls for recordings playback. Controller functions are listed as follows: 1. Choose to play back recordings captured on specific dates of the calendar. Any dates that have recordings are shown in blue. 2. Control recording playback with the buttons below the calendar, including play/pause, fast forward/slow motion, next/previous, and next frame/previous frame.
4	Layout Panel	Edit timeline layouts, or enable/disable layout related features here. For basic information on configuring layout, please refer to "Start Monitoring by Configuring Live View Layout" section above.
5	Seek Panel	Specify the hour , minute , and second , and click Go To to quickly search the specific time in a camera feed. You can also launch Smart Search to obtain more accurate search results. For more information, please refer to Surveillance Station Help > Smart Search .
6	On-screen Buttons	Hover the pointer over the selected camera feed to display the on-screen buttons. For more information, please refer to Surveillance Station Help > Timeline Playback > Work with Timeline .

Manage Archived Video Recordings

In **Recording**, you can view a list of footage recorded with IP cameras. Recording files can be played back, downloaded, or locked to ensure important recordings are not accidentally deleted.

Recordings are saved on the NVR. Recordings can be filtered according to source server, camera, recording mode, lock status, or start/end time. You can define what recordings are displayed by clicking the button with magnifying glass icon on the top right corner and configuring filter criteria.

Download Recorded Video Files to PC

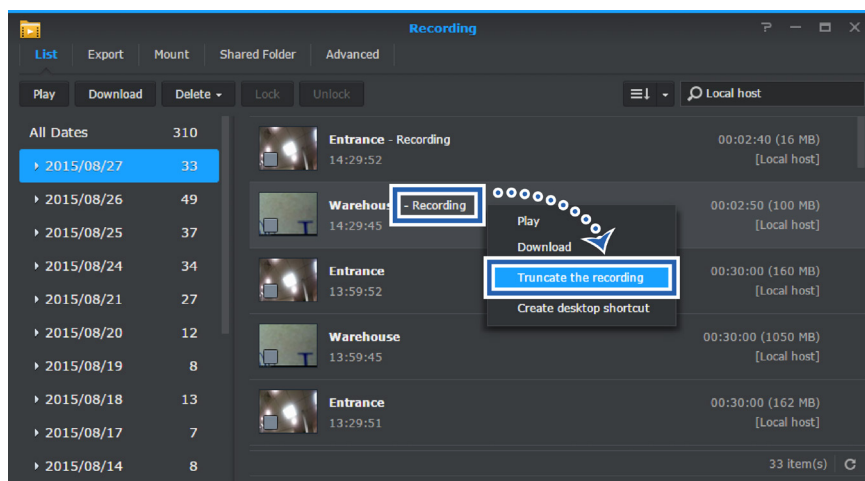
To download a recording from the NVR to your PC, you can simply right-click on the recording you wish to download, and click **Download**.

Lock a Recording to Prevent Deletion

Important recordings can be locked in order to ensure they are not accidentally deleted when the system wipes old files. To lock recordings, you can simply right-click on the recording you wish to lock, and click **Lock**.

Truncate a Video File in Process of Being Recorded

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



Note: Surveillance Station will start another clip for continuous recording. For more information, please refer to Surveillance Station **Help > Recording > List**.

Authorize User Privileges

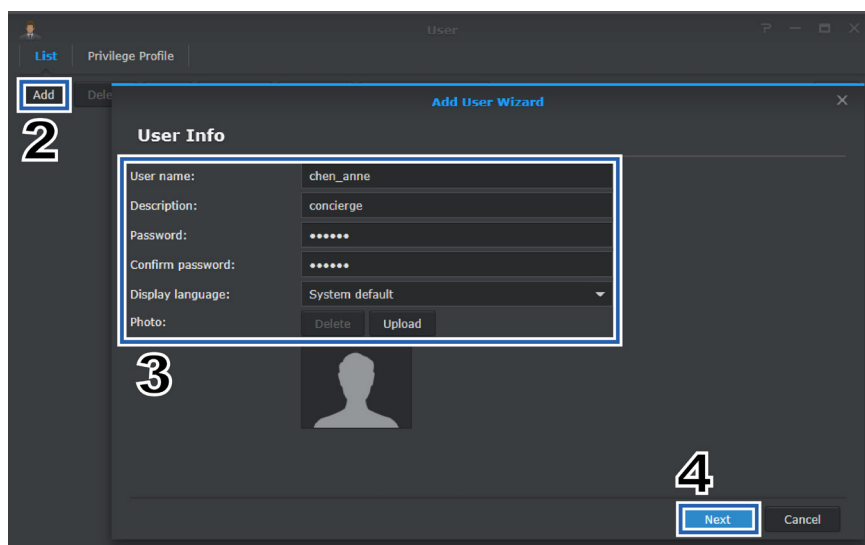
In **User**, you can create user accounts for individual members of your family or business. Creating users allows you to flexibly manage permissions for each person, such as the privileges of live-viewing and playing back, and the privileges of editing or viewing for individual e-maps, live view layouts, and more advanced features.

Note: The users that are configured here are different from the Administrator/Spectator for Local Display. For more information, please refer to "Chapter 5: Setup and Operate Surveillance Station Local Display".

Create a User of Spectator Type

You can authorize limited permissions of certain features to your staff members in charge of the safeguard, while reserving the privileges of other advanced configurations. To quickly create a user of **Spectator** type, please do the following:

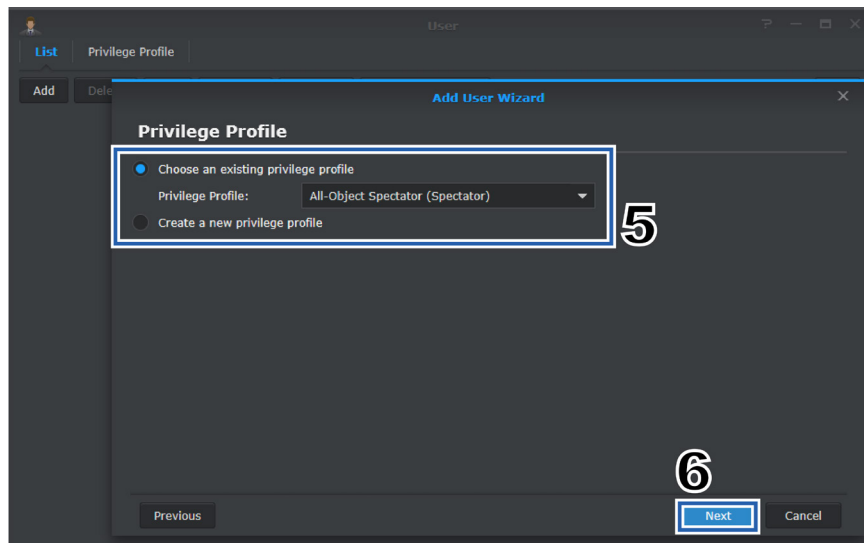
- 1 Go to Surveillance Station **Main Menu > User**.
- 2 Click **Add** in the **List** tab.
- 3 Enter the **User name**, **Description**, and **Password** for the new user. You can specify his or her **Display language**, and upload a **Photo** for the user.
- 4 Click **Next** to continue.



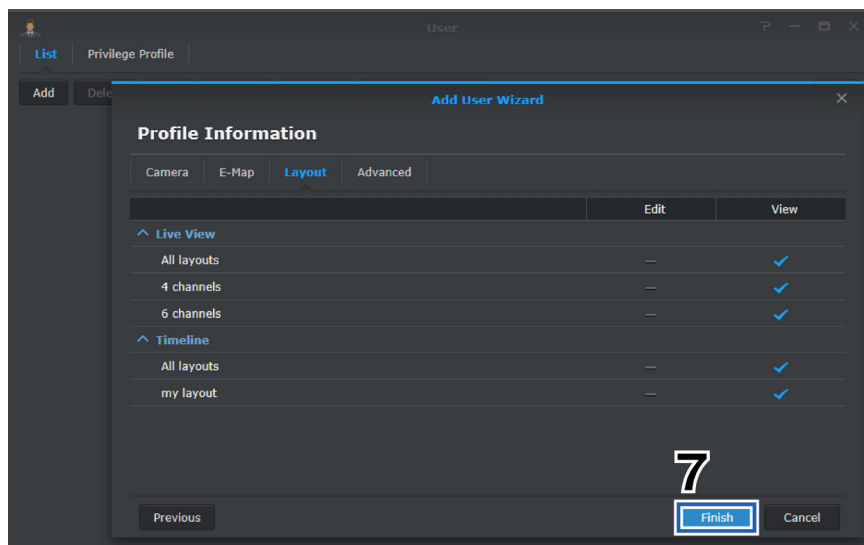
- 5 Select **Choose an existing privilege profile**, and select the default **All-Object Spectator (Spectator)** from the drop-down list.

Note: You can also choose **Create a new privilege profile** to customize the privileges that you wish to grant to the new user. For more information, please refer to Surveillance Station **Help > User > List**.

- 6 Click **Next** to continue.



- 7 After checking the profile information, click **Finish** to complete the procedure.



Discover More Features with Add-ons

Synology Surveillance Station provides varieties of add-ons to enhance your surveillance abilities and incorporate more supplementary features. You can leverage the following Surveillance Station add-ons on your NVR:

Local Display

Local Display is designed to support local live view, playback, and managements of your NVR. You can update it in Surveillance Station **Main Menu > Add-ons** or download it directly from Synology's **Download Center**. For more information, please see "Chapter 5: Setup and Operate Surveillance Station Local Display".

Note: Surveillance Station Local Display is activated by default. To disable Local Display feature, please go to Surveillance Station **Main Menu > Add-ons** to stop this add-on.

Device Pack

Device Pack enhances the camera compatibility of Surveillance Station. You can update it in Surveillance Station **Main Menu > Add-ons** or download it directly from Synology's **Download Center**. For more information, please go to **Help > Add-ons > Device Pack** in Surveillance Station.

CMS

In a Central Management System (CMS), your NVR can be set as a **recording server** to create a larger surveillance network. To enable the CMS feature, please go to Surveillance Station **Main Menu > Add-ons** to run this add-on. For more information, please refer to the articles under **Help > Add-ons > CMS** in Surveillance Station.

VisualStation

Synology VisualStation is a live view and playback solution designed to supplement and enhance your Surveillance Station configuration. With a **VisualStation** device, you can enjoy the rich features of Surveillance Station without the need to constantly keep a computer running. To start using your VisualStation feature, please go to Surveillance Station **Main Menu > Add-ons** to run this add-on. For more information, please go to **Help > Add-ons > VisualStation** in Surveillance Station, as well as the user's guide for your Synology VisualStation product.

Joystick

For quicker and more flexible deployment, Surveillance Station has integrated joystick control and offers you an alternative way to manage your camera preview and live view. To start using a joystick, please plug in a joystick to your computer, and go to Surveillance Station **Main Menu > Add-ons** to run this add-on. For more information, please go to **Help > Add-ons > Joystick** in Surveillance Station.

Axis Door Controller

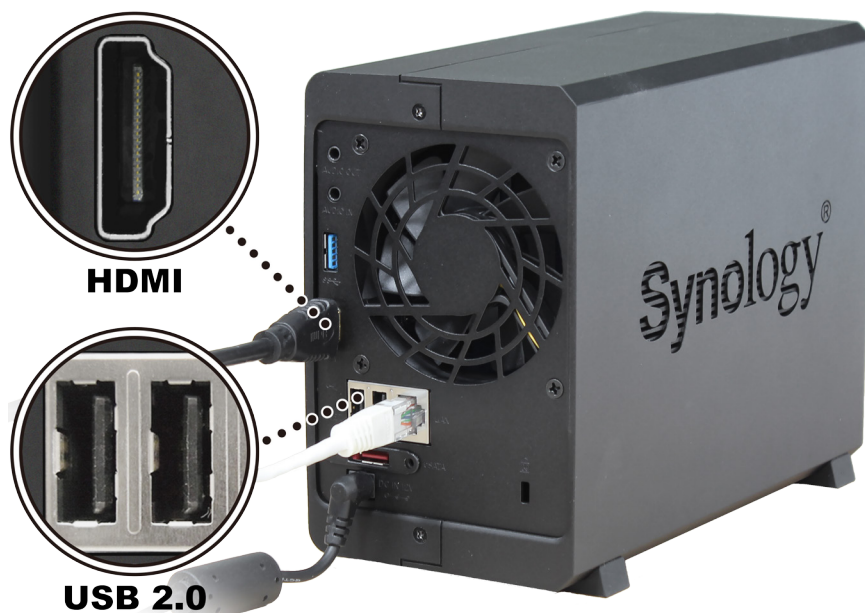
Axis Door Controller allows Surveillance Station to interface with your Axis controller. In Surveillance Station **Main Menu > Axis Door Controller**, you can centrally manage controllers, cardholders, and logs, as well as pair a camera with your controller to monitor a particular door and provide enhanced situational awareness. Before using your access control system, please go to Surveillance Station **Main Menu > Add-ons** to run this add-on. For more information, please refer to the articles under **Help > Add-ons > Axis Door Controller** in Surveillance Station.

Setup and Operate Surveillance Station Local Display

Connect a Monitor to Your NVR

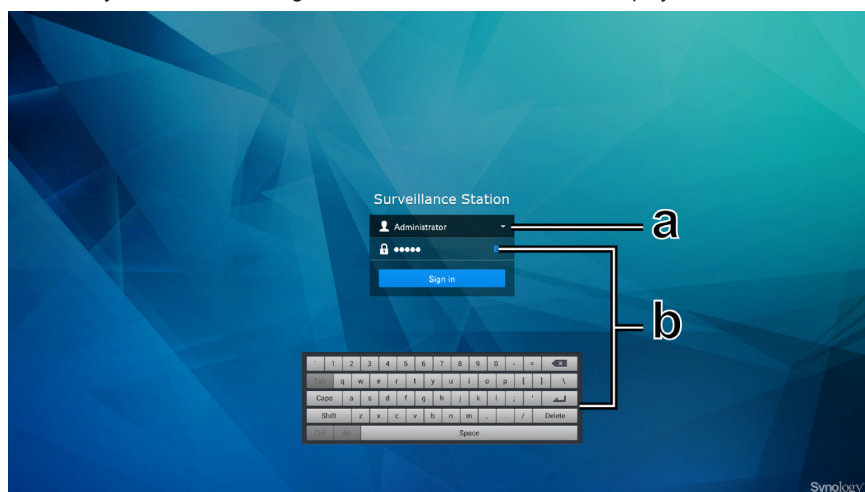
Having set up your NVR with DSM and Surveillance Station installed, you can leverage the local display feature of the network video recording system. Please prepare an HDMI monitor and an HDMI cable, and do the following:

- 1 Connect one end of the HDMI cable to the HDMI port of the NVR, and connect the other end to a monitor. You need at least a mouse connected to a USB 2.0 port of the NVR to conduct basic operations. You can plug in a keyboard to the other USB 2.0 port to facilitate your operations.



Note: We recommend that the USB 3.0 port is reserved for connection to an external storage device.

- 2 Power on your monitor, and login to Surveillance Station Local Display.

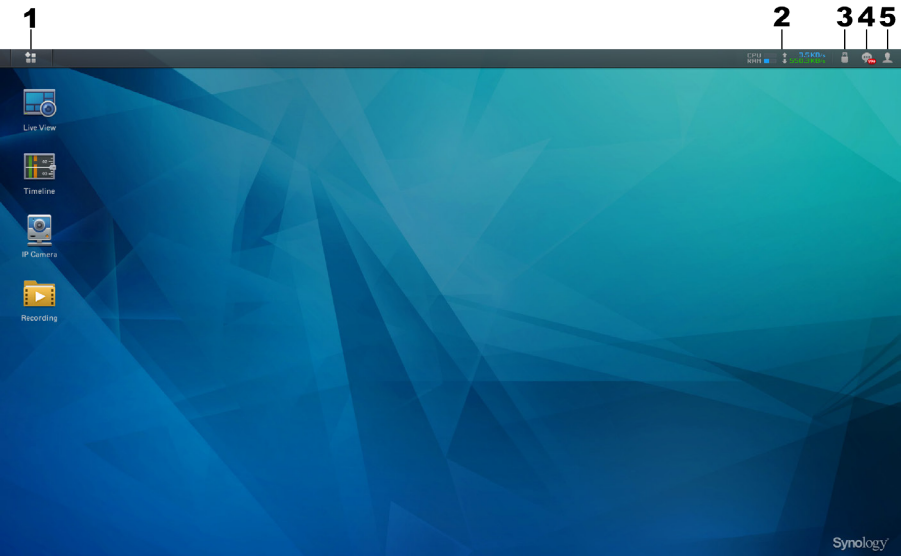


- a Choose to login as **Administrator** or **Spectator**, enter the password, and click **Sign in**.
- b To enter the password, if no keyboard is connected to your NVR, you can click the keyboard icon to open the on-screen keyboard.

Note: Default password of Local Display **Administrator** and **Spectator** is kept empty. To change the passwords, please refer to the "Options" section below. You can also login to your NVR from a PC browser and configure the settings in Surveillance Station **Main Menu** > **Local Display**.

Navigate Local Display Desktop

Surveillance Station Local Display delivers a consistent user experience. You can easily switch between the operations in Local Display on a monitor directly connected to your NVR, and in Surveillance Station and DSM on your PC.



No.	Name	Function
1	Main Menu	<p>This menu includes the following applications: Live View, Timeline, Recording, IP Camera, E-Map, Snapshot, License, Log, and System.</p> <p>Note:</p> <ol style="list-style-type: none">For System, please refer to the "System" section below for details.For the other applications, please refer to the corresponding articles in Surveillance Station Help.Certain surveillance features are unavailable in the Local Display environment. Please refer to the "Function Limitations" section below for details.
2	Resource Monitor	Monitor basic information of your NVR's performances, including CPU and RAM usage, and data transfer speeds. You can determine to show/hide the resource monitor in Local Display Options > Others .
3	USB Device	View and/or eject the USB external devices plugged in to your NVR.
4	Notifications	View and/or clear notifications, such as system messages, warnings, etc.
5	Options	<p>This menu includes the following:</p> <ol style="list-style-type: none">Options: Configure the settings related to Local Display login. Please refer to the "Options" section below.Reboot: Reboot your NVR.Shutdown: Shutdown your NVR.Logout: Sign out from Local Display.

Options

The **Options** window contains the following two tabs:

- 1 **Login**: Change the password and display language for the currently logged in Local Display user. The Setting of **Auto Login at Startup** (configurable for Administrator only) facilitates the access to Local Display.

The screenshot shows the 'Options' window with the 'Login' tab selected. It features a settings icon and a close button. The 'Auto Login at Startup' section has a checked checkbox for 'Automatically sign in as:' with a dropdown menu set to 'Spectator'. The 'Administrator' section includes fields for 'Password:' and 'Confirm password:' (both masked with dots) and a 'Display language:' dropdown set to 'System default'. At the bottom are 'Save' and 'Close' buttons.

- 2 **Others**: You can determine to show/hide resource monitor, as well as other settings related to Local Display login. For more information, please refer to Surveillance Station **Help > Surveillance Station Desktop > Options > Others**.

The screenshot shows the 'Options' window with the 'Others' tab selected. It includes a settings icon and a close button. The 'Show resource monitor' checkbox is checked. Below it is an unchecked checkbox for 'Restore previous session windows upon login'. The 'Run the application below upon login' checkbox is checked, with a dropdown menu set to 'Live View'. An unchecked checkbox for 'Expand Alert Panel' is also present. At the bottom of this section is a 'Reset Surveillance Station desktop to default:' label and a 'Reset Desktop' button. The 'Save' and 'Close' buttons are at the bottom right.

Note: If Local Display is set to run **Live View** or **Live View - Full Screen** upon login, you can tick/untick the checkbox to determine whether to expand Alert Panel automatically.

Function Limitations

In order to optimize the overall performances of Local Display on your NVR, certain functions can only be operated in the Surveillance Station package via a PC. For detailed information, please see the following:

Apps	Function Limitations
Live View	1. Live View Analytics is not supported in Local Display.
Timeline	1. Timeline layouts in Local Display can be switched among 1 x 1 , 2 x 2 and 3 x 2 only. 2. Drag/Zoom , Smart Search features are not supported in Local Display.
Recording	1. Drag/Zoom feature are not supported in Local Display. 2. In the recording list, the All Dates category is unavailable in Local Display.
IP Camera	1. Mount/Export , Camera Group , Live View Analytics , Fisheye Dewarping are not supported in Local Display. 2. Camera search can be conducted with keywords only. Other filtering criteria are not supported.

System

In **System**, you can view the the information of your NVR and configure settings for Surveillance Station.

Information

In the **Information** tab, you can view the basic information of your NVR and the following items:

- 1 Version information of **DSM**, **Surveillance Station**, **Local Display**, and **Device Pack**
- 2 Time server and time zone
- 3 External devices

Storage

In the **Storage** tab, you can view the information of the volumes and drives in your NVR, as well as configure the **Cache Management** setting. You can also configure the Cache Management setting in DSM **Main Menu > Storage Manager > HDD/SSD > General**. For more information, please refer to DSM **Help > Storage Manager > HDD/SSD**.

Network

In the **Network** tab, you can configure the network settings of your NVR. You can also configure the settings in DSM **Main Menu > Control Panel > Network > Network Interface**. For more information, please refer to DSM **Help > Control Panel > System > Regional Options > Time**.

Time

In the **Time** tab, you can view the current time, and configure time settings. You can also configure the settings in DSM **Main Menu > Control Panel > Regional Options > Time**. For more information, please refer to DSM **Help > Control Panel > Connectivity > Network**.

Firmware Upgrade

In the **Firmware Upgrade** tab, you can monitor the version status of your Surveillance Station package, and determine to enable/disable auto-update of Surveillance Station.

Note:

1. If you enable **auto-update**, Surveillance Station will be automatically updated to the latest version. During the installation of the new version, Local Display will be temporarily out of service.
2. If you disable **auto-update**, when a new version of Surveillance Station is available, you can click **Update Now** to manually install the latest version.

Specifications

Item	NVR216
Internal Drive	3.5" / 2.5" SATA III / SATA II x 2
Maximum Raw Capacity	<ul style="list-style-type: none"> • 16 TB (2 x 8 TB HDD) • 32 TB with DX213 (expansion unit)
External Device Port	<ul style="list-style-type: none"> • USB 3.0 x 1 • USB 2.0 x 2 • eSATA x 1 • HDMI Output x 1 • Audio Output x 1 • Audio Input x 1
Supported Video Output Resolution	1920 x 1080 (1080p), 60 Hz
LAN Port	1GbE (RJ-45) x 1
Size (H x W x D) (mm)	165 x 100 x 225.5
Weight (kg)	0.9
Supported Client	<ul style="list-style-type: none"> • Windows 7 onward • Mac OS X 10.7 onward • Ubuntu 12 onward
Supported Browser	<ul style="list-style-type: none"> • On Windows: Firefox, IE 11 onwards (exclude Microsoft Edge) • On OS X: Safari 7.0 onwards
File System	<ul style="list-style-type: none"> • Internal: ext4 • External: ext4, ext3, FAT, NTFS, HFS+ (read only)
Supported RAID Type	<ul style="list-style-type: none"> • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 (with DX213) • Synology Hybrid RAID (Up to 2-Disk Fault Tolerance with DX213)
Agency Certification	• FCC Class B • CE Class B • BSMI Class B
Scheduled Power On/Off	Yes
Wake on LAN	Yes
Language Localization	<ul style="list-style-type: none"> • English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk • Nederlands • Русский • Polski • Magyar • Português do Brasil • Português Europeu • Türkçe • Český • 日本語 • 한국어 • 繁體中文 • 简体中文
Environment Requirement	<ul style="list-style-type: none"> • Line voltage: 100V to 240V AC • Frequency: 50/60Hz • Operating Temperature: 40 to 113°F (5 to 45°C) • Storage Temperature: -5 to 140°F (-20 to 60°C) • Relative Humidity: 5% to 95% RH

Note: Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

LED Indicator Table

LED Indicator	Color	Status	Description
Power	Blue	Static	Powered on
		Blinking	Booting up / Shutting down
	Off		Powered off
STATUS	Green	Static	Volume normal
	Orange	Blinking	Volume degraded / Volume crashed
			Volume not created
			DSM not installed
	Off		HDD hibernation
LAN	Green	Static	Network connected
		Blinking	Network active
	Off		No network
DISK	Green	Static	Drive ready and idle
		Blinking	Accessing drive
	Orange	Static	Drive error / Port disabled ¹
	Off		No internal drive

Note: Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

¹ Please try to restart your NVR or re-insert the drive(s), and then run the HDD/SSD manufacturer's diagnostic tool to check the health status of the drive(s). If you can log into DSM, please run the built-in S.M.A.R.T. test to scan the drive(s). If the problem remains unresolved, please contact Synology Technical Support for help.

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Section 3. Limitations of Liability

3.1 Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).

3.2 Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY

ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3.3 Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

Section 4. Miscellaneous

4.1 Proprietary Rights. The Product and any accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.

4.2 Assignment. Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.

4.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.

4.4 Applicable Law. Unless expressly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.

4.5 Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a

single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 4.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese.

The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

4.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

4.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

4.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.

4.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.