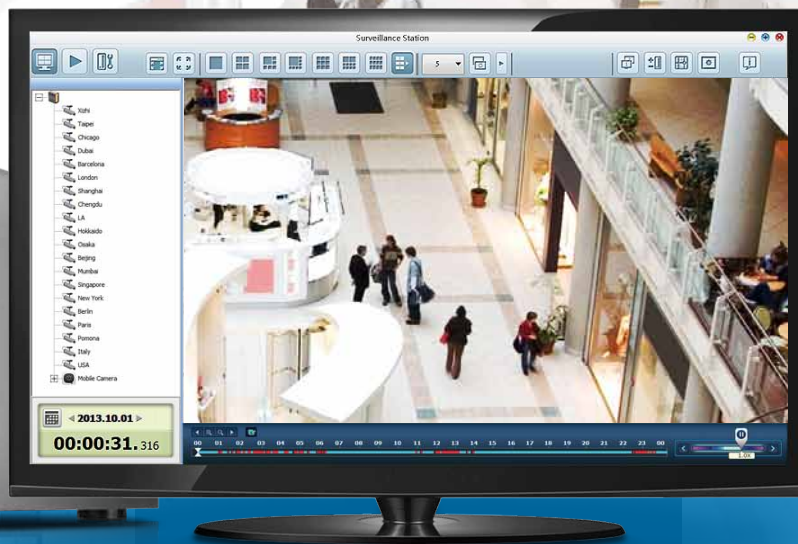


**QNAP®**

# Surveillance Station Guide 2014



[www.qnap.com](http://www.qnap.com)



QNAP Systems, Inc. aims to deliver comprehensive offerings of cutting edge Network Attached Storage (NAS), Network Video Recorder (NVR) solutions, and network appliances. QNAP contributes to humankind with its technology to prevent users' important files from loss, theft, or destruction by virus; to ensure secure data transmission; and to safeguard digital business assets.

# What is Surveillance Station?

The Surveillance Station is a professional network surveillance Video Management System (VMS). Being one of the standard Turbo NAS applications, the Surveillance Station can be activated on the QTS App Center to turn the Turbo NAS into a professional Network Video Recorder (NVR) system for real-time monitoring, recording, playback, alarm notifications, Intelligent Video Analytics (IVA), and management to safeguard your assets and property when used with supported IP cameras.



## Table of Contents

02	03	Live View
04	05	Recording
06	07	Playback
08	09	Management
10	11	Centralized Management System
12	13	Home Application
14		Mobile Apps
15		Help me Choose a Turbo NAS
16	17	Specification

# Live View

Maintaining accessible and reliable live surveillance feeds is essential for properties such as retail stores, hotels, construction sites, offices, and at home. With the Surveillance Station, you can easily manage & monitor multiple IP cameras on a real-time basis through web browsers, and attain the first-hand status of monitored corners, such as building gates, office entrances, or emergency exits, safeguarding your staff and property.



## Visual aid by E-map

The E-map function helps visualize the layout of the deployment of IP cameras enabling you to quickly identify the location of each IP camera, especially when an alarm occurs. Just upload the pictures of the monitoring locations and drag and drop the IP camera icons to the right place on the E-map. Once an alarm event happens, the camera icons will flash to indicate the event type for you to be alerted immediately and take necessary actions.

## Cross-platform support

The Surveillance Station works with all major web browsers such as Google Chrome, Mozilla Firefox and Internet Explorer. With QNAP Surveillance Client for Mac, users can also enjoy a similar experience on their Macs.



## Instant notifications

When the alarm recording is enabled and an event occurs, an alarm icon will be shown instantly on the monitoring page. The alert details can be viewed by clicking the icon.

## Various remote monitoring modes

The Surveillance Station supports various monitoring modes to display 1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36, 42, and 64 channels on a single screen. Users can also choose to sequentially display each channel or use dual displays to have a wider view.

## PTZ (Pan/Tilt/Zoom) control

On the Surveillance Station web interface, you can directly adjust the PTZ (Pan/Tilt/Zoom) functions of supported cameras, greatly enhancing the convenience in remote monitoring of desired corners.



## Interactive control buttons

Whenever you move the mouse cursor over a camera channel, the supported function buttons of the camera will show up for quick access. The interactive control buttons will disappear when not in use, helping you watch the IP camera feeds without any distractions.

## Instant Playback

On the Live-view page, whenever you want to look back to check suspicious events of a camera channel you just missed, just hit 'Instant Playback' button to bring up the window to review recent feeds. While you don't have to switch to the playback page to do so, you can still have full live views of other channels simultaneously.

## Preset positions and auto-cruising

You can set up preset positions and auto-cruising for PTZ cameras to automatically adjust the camera angle to preset positions by the time interval you define. To gain more flexibility, you can click the corresponding number buttons of an IP camera's preset positions to have an instant view at that position.

## Same-screen IP camera configurations

On the Live-view page, you can directly configure IP camera recording schedules when needed without leaving the Live-view page, maintaining a seamless monitoring so you won't miss any suspicious event.

# Recording

The Surveillance Station provides flexible options to set up IP camera recording, including video format, frame rates, schedules, smart recording, and more.



## High quality codec recording

The Surveillance Station supports H.264, MPEG-4, M-JPEG, and MxPEG recording, ensuring high-quality recording videos for future playback and reference.



## Manual recording

On the Live-view panel, you can click the record button to start recording the live camera feeds and click the stop button whenever you want to finish recording. Manual recording helps you to capture critical moments on a real-time basis.

## Scheduled recording

With the intuitive drag-n-drop scheduled recording panel, you are able to define the time to record feeds for each IP camera, allowing you to flexibility set up a suitable recording plan with your existing Turbo NAS storage capacity.

## Alarm recording

With alarm recording, the recording will only be triggered when motion detections and camera input events occur. Alarm recording ensures the critical events are properly saved for future use and saves storage capacity usage.

## Smart recording

Smart recording intelligently records standard resolution videos in regular recording, and switches to high resolution automatically when alarms are triggered. This greatly saves your cost spent on hard drives and provides you with high resolution video evidence when needed.



Low resolution



High resolution stream

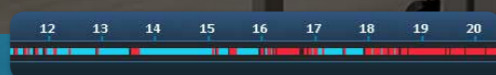
# Playback

The Surveillance Station provides various ways for you to search and analyze recordings so you can efficiently look up the desired events.



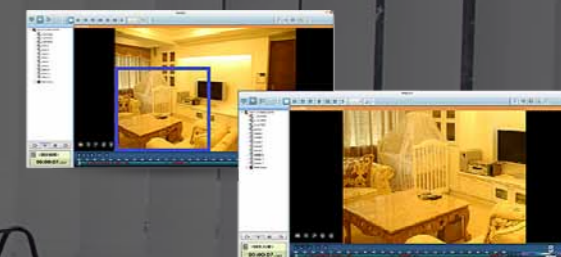
## Identify events easily

On the intuitive playback interface, you can easily distinguish regular recording and alarm recording in the timeline bar.



## Zoom in to see details

Mega pixels camera had become mainstream with larger recording zone and higher resolution. By right-clicking the mouse and dragging an area on the screen, that area will be enlarged with a more clear view.



## Preview recordings by thumbnails

You can move the mouse cursor over the timeline to preview the video thumbnails to quickly identify and search the event. No need to play the video from the start and wait long just to find a short video clip.



## Playback and speed control by shuttle bar

With the speed control shuttle bar, you are able to fast-forward the video playback by dragging the button to the right and rewind to the left at the speed you like, helping you quickly find the desired screenshots.

## Intelligent Video Analytics (IVA)

IVA is an advanced way to quickly search videos corresponding to particular modes, greatly saving the time & effort of manually screening out matching videos. For example, in search of a missing car in a parking lot, the "missing object" mode can help quickly locate the section in which the car disappears in the video.

## Real-time watermarking

In need of exporting videos or snapshots, the concern of authenticity might occur. The support of digital watermarking helps prove that the exported videos and snapshots are genuine without any falsification. The Watermark Proof utility developed by QNAP can verify the credibility of the exported videos and snapshots by showing the exact recording date and time, camera name and the Turbo NAS model name. This is rather useful when the videos could be raised as evidence in a relative investigation or in court.

# Management

The Surveillance Station provides flexible options for you to set up a surveillance system that is fully customized for you.



## Expandable license management

Surveillance Station 5.0 comes with 2 or 4 free IP camera licenses\* for Turbo NAS (depending on the model) and you can expand the number of channels to meet your demands by purchasing additional licenses. This provides a flexible and cost-effective way of scaling your surveillance needs.

## Flexible camera access control

You can create up to 32 user accounts on the Surveillance Station and flexibly assign them to different user groups with different rights for monitoring, playback, PTZ control, and audio monitoring.

## Advanced Event Management

The Surveillance Station allows you to configure 5 types of events, including motion detection, alarm input, connection failure, recording failure and user-defined events. Every event can be assigned to 7 types of event actions, including recording, PTZ Control, alarm output, email notification, SMS notification, buzzer notification, and user-defined actions, helping you to be alerted immediately.



\* 2 or 4 free recording channels are only for Surveillance Station 5.0 with QTS 4.1 firmware (or higher versions). Older versions of Surveillance Station and QTS provide a minimum of 1 free license.

## Choose from over 2,700 IP cameras

The Surveillance Station is compatible with over 2,700 IP camera models of over 90 brands and ONVIF specifications, including those support advanced features such as multi-streaming and fisheye-dewarping. The wide range of supported IP cameras provides great flexibility in IP camera selection.



## Web-based user interface

The management of IP cameras is all done on the browser. With no additional software required, you save more time for other more important tasks.

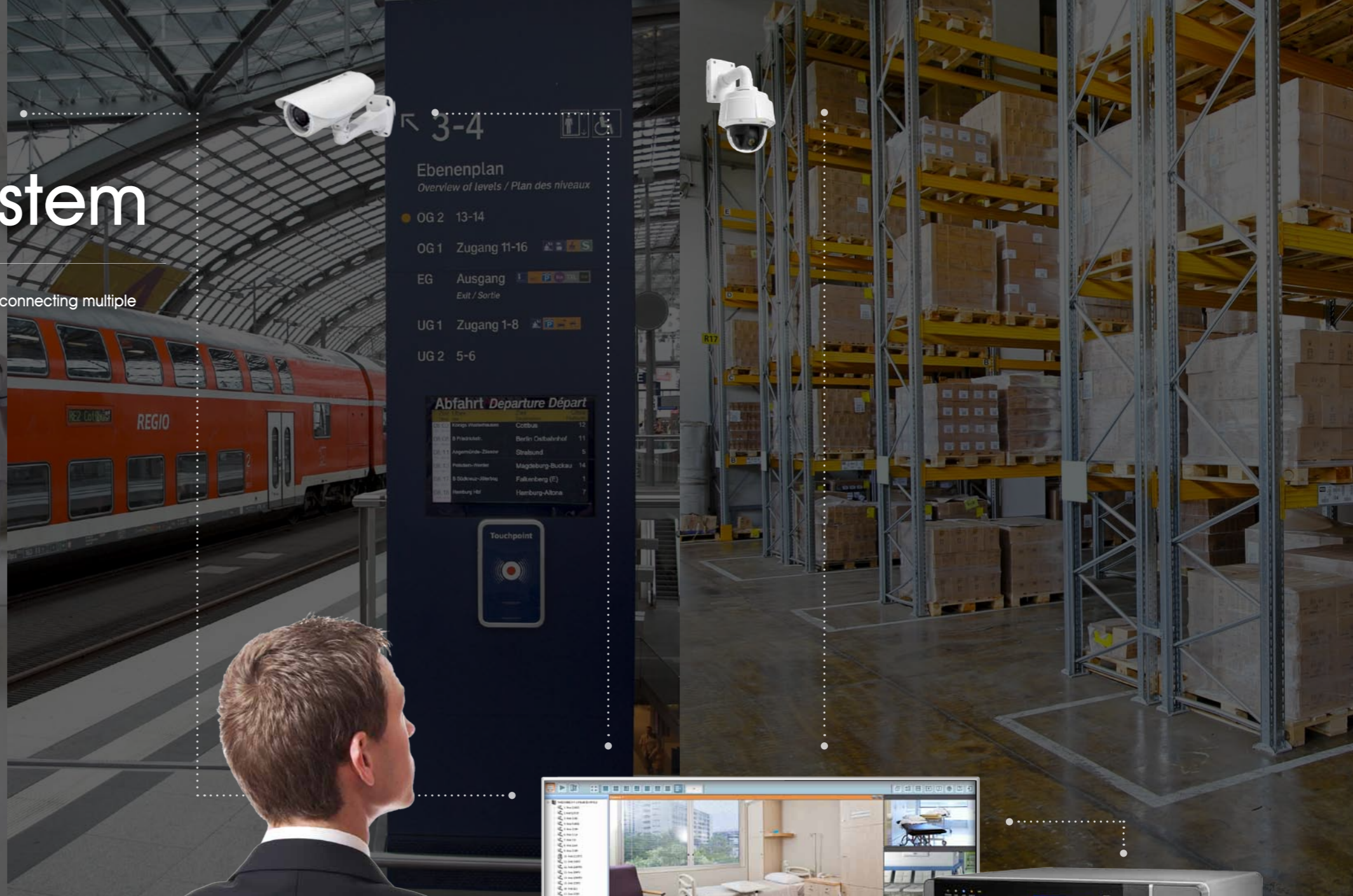
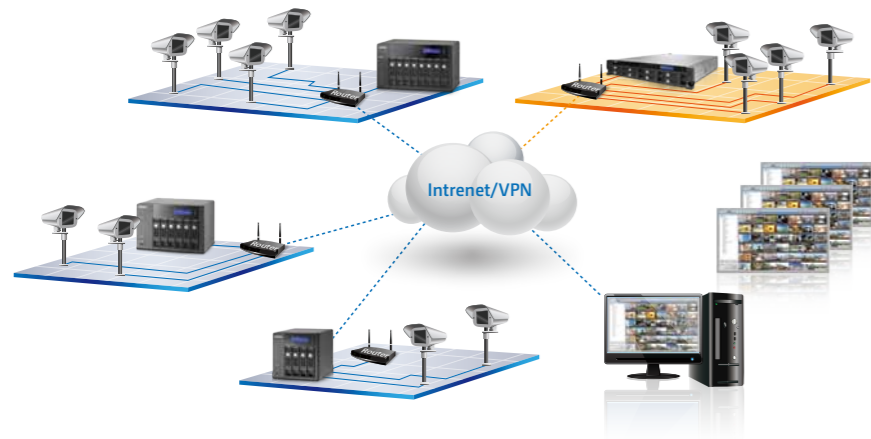


# Centralized Management System

Manage and monitor up to 128 IP cameras centrally on a single Turbo NAS by connecting multiple Turbo NAS units to minimize management efforts.

## Manage large-scale cameras

By connecting multiple Turbo NAS units, you can manage, monitor and play back up to 128 IP cameras managed by the Turbo NAS at the same time from a single unit. This scalability provides greater flexibility for deploying a smaller surveillance system in the beginning and expanding the surveillance scale in the future when needed.



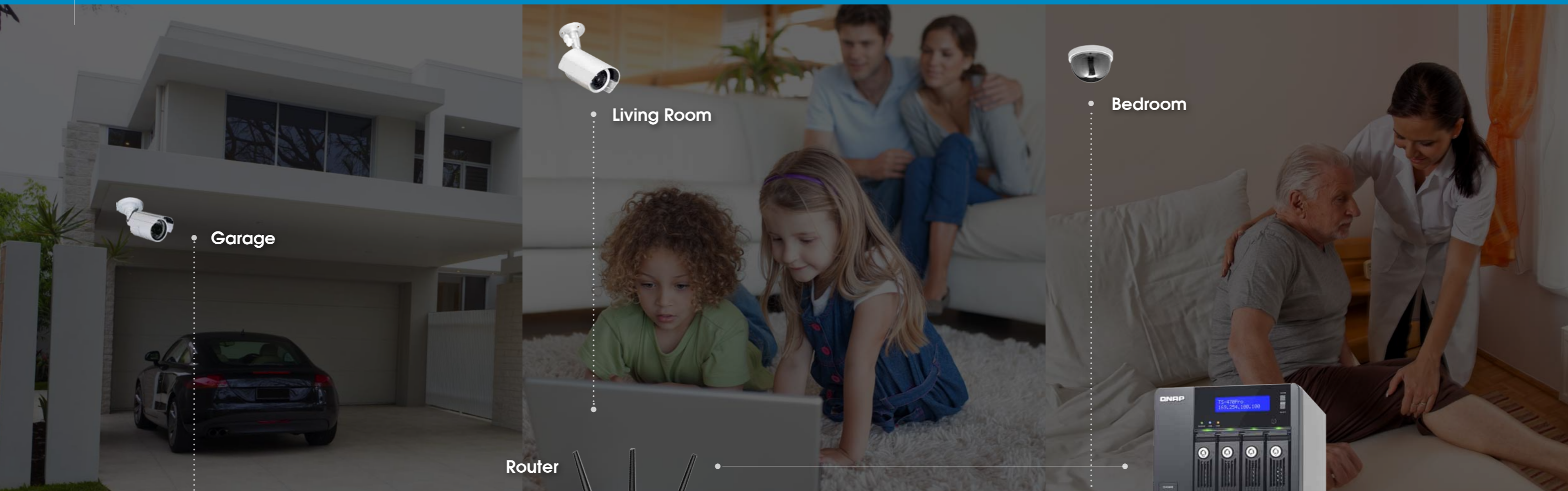
# Home Application

As the number of working parents is increasing and traveling overseas becomes more popular, people are spending less time staying at home, leading to a potential risk to home security.

To ease people's worries, QNAP Surveillance Station provides a reliable solution for monitoring & recording live feeds of your home environment when you are at work, on a business trip or travelling overseas. Simply log into the Surveillance Station (or VMobile app on your mobile device) and you can view a real-time video stream of your home and closely monitor if your children or elder members are under good care from your office or anywhere, making sure they are safe & sound, and your property well protected.

## Benefits

- Ensures the security of your property and family, especially vulnerable children & elders, when you are away from home via 24/7 live monitoring
- Allows access to the Surveillance Station for live and recording videos anytime simply with PCs, Macs, and mobile devices via the Internet, bringing you peace of mind when you are at work or on vacation
- Use the Vcam mobile app to record any moment around you to the Turbo NAS directly with your mobile device without purchasing expensive IP cameras
- Get instant notification via email and SMS when critical events occur



Remote monitoring over the Internet allows you to check the live feeds of your home environment anytime, making sure your family and property are safe and well protected when you are away from home.



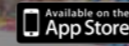


# Mobile Apps



## VMobile - Anytime anywhere surveillance

The VMobile mobile app enables you to monitor the Surveillance Station anytime and anywhere using iOS and Android devices. It provides camera live-view, PTZ control, instant event notifications, video snapshot, video playback, and video search by date and time.



## Vcam - Turn your mobile device into camera

The Vcam mobile app can turn your mobile device into a network camera. With the Vcam mobile app, you could record any moment around you to your Turbo NAS. The Vcam solution provides a great way to deploy a home surveillance system without purchasing expensive IP cameras.



# Help me Choose a Turbo NAS

The Turbo NAS comes in a full range of product spectrum from single-bay to 24-bays. Each model offers 2 or 4 free IP camera channels, and can be expanded to 8, 16, 24, 40, or 72 channels depending on models, fulfilling all kinds of surveillance deployment needs.

### NAS Selector



QNAP provides an easy-to-use NAS/ NVR Selector to help you choose an ideal Turbo NAS that meets your requirement of storage capacity and bandwidth.

### Compatible IP Camera



The Surveillance Station is compatible with over 2,700 IP camera models of over 90 brands and ONVIF specifications. Please check the compatibility of any IP camera models in our compatibility list.

### Purchase Camera License



You can expand the number of channels by purchasing additional licenses at the QNAP License Store (<http://license.qnap.com/>), or you can contact an authorized reseller for further assistance\*.

### More QNAP Products



To learn more about QNAP Turbo NAS products, please visit [www.qnap.com](http://www.qnap.com).


### Helpdesk




If you encounter any problems when using QNAP Turbo NAS products, please contact our helpdesk.

\* If contacting an authorized reseller, please provide the following part numbers for the respective license :  
1 channel license : LIC-CAM-NAS-1CH, 2 channel license : LIC-CAM-NAS-2CH, 4 channel license : LIC-CAM-NAS-4CH


# QNAP Product Lineup




	Enterprise							
Model	SS-EC2479U-SAS-RP	SS-EC1879U-SAS-RP	SS-EC1279U-SAS-RP	TS-EC1679U-SAS-RP	TS-EC1279U-SAS-RP	TS-EC1679U-RP	TS-EC1279U-RP	TS-EC879U-RP
Number of HDD Tray <sup>(1)</sup>	24	18	12	16	12	16	12	8
Base (Free) IP Camera # <sup>(2)</sup>	4	4	4	4	4	4	4	4
Max. Supported IP Camera # (license required)	72	72	72	72	72	72	72	72
Max. Recording throughput (Mbps) <sup>(3)</sup>	480	480	480	480	480	480	480	480
Total Frames Per Second (FPS) <sup>(4)</sup>	2160@720p	2160@720p	2160@720p	2160@720p	2160@720p	2160@720p	2160@720p	2160@720p
Power Consumption Access (W) <sup>(5)</sup>	270	206	157	368	296	229	167	132
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	138.7	126.4	118.1	-	-	89.1	68	68




	SMB (High-end)							
Model	TS-1679U-RP	TS-1279U-RP	TS-879U-RP	TS-1079 Pro	TS-879 Pro	TS-1270U-RP	TS-870U-RP	TS-870
Number of HDD Tray <sup>(1)</sup>	16	12	8	10	8	12	8	8
Base (Free) IP Camera # <sup>(2)</sup>	4	4	4	4	4	2	2	2
Max. Supported IP Camera # (license required)	72	72	72	72	72	40	40	40
Max. Recording throughput (Mbps) <sup>(3)</sup>	480	480	480	480	480	320	320	320
Total Frames Per Second (FPS) <sup>(4)</sup>	2160@720p	2160@720p	2160@720p	2160@720p	2160@720p	1200@720p	1200@720p	1200@720p
Power Consumption Access (W) <sup>(5)</sup>	229	167	130	121	101	188.7	155.2	59.1
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	89.1	68	68	40	39	83.1	74	29.1




	SMB (High-end)		SMB (Middle-end)					
Model	TS-670	TS-470	TS-1269U-RP	TS-869U-RP	TS-469U-RP	TS-469U-SP	TS-869 Pro	TS-669 Pro
Number of HDD Tray <sup>(1)</sup>	6	4	16	8	4	4	8	6
Base (Free) IP Camera # <sup>(2)</sup>	4	4	2	2	2	2	2	2
Max. Supported IP Camera # (license required)	40	40	16	16	16	16	16	16
Max. Recording throughput (Mbps) <sup>(3)</sup>	320	320	160	160	160	160	160	160
Total Frames Per Second (FPS) <sup>(4)</sup>	1200@720p	1200@720p	480@720p	480@720p	480@720p	480@720p	480@720p	480@720p
Power Consumption Access (W) <sup>(5)</sup>	49.8	38.4	81.2	74.7	52	52	71	63.6
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	26.3	23.9	66.8	56.6	37	37	38	31.5



	SMB (Middle-end)			SMB (Entry-level)				Work Group/ SOHO/ Home (High-end)
Model	TS-569 Pro	TS-469 Pro	TS-269 Pro	TS-421U	TS-421	TS-221	TS-121	TS-420U
Number of HDD Tray <sup>(1)</sup>	5	4	2	4	4	2	1	4
Base (Free) IP Camera # <sup>(2)</sup>	2	2	2	2	2	2	2	2
Max. Supported IP Camera # (license required)	16	16	16	8	8	8	8	8
Max. Recording throughput (Mbps) <sup>(3)</sup>	160	160	160	40	40	40	40	40
Total Frames Per Second (FPS) <sup>(4)</sup>	480@720p	480@720p	480@720p	240@720p	240@720p	240@720p	240@720p	240@720p
Power Consumption Access (W) <sup>(5)</sup>	48.5	43	23	33	26	19	7	29
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	29.1	25	19	12	13	7	4	15



	Work Group/ SOHO/ Home (High-end)					SOHO/ Home (Middle-end)		
Model	TS-451	TS-251	TS-870 Pro	TS-670 Pro	TS-470 Pro	HS-210	TS-420	TS-220
Number of HDD Tray <sup>(1)</sup>	4	2	8	6	4	2	4	2
Base (Free) IP Camera # <sup>(2)</sup>	2	2	4	4	4	2	2	2
Max. Supported IP Camera # (license required)	24	24	40	40	40	8	8	8
Max. Recording throughput (Mbps) <sup>(3)</sup>	235	235	470	470	470	40	40	40
Total Frames Per Second (FPS) <sup>(4)</sup>	720@720p	720@720p	1200@720p	1200@720p	1200@720p	240@720p	240@720p	240@720p
Power Consumption Access (W) <sup>(5)</sup>	31.07	19.22	58.9	48.7	38.2	14	31	19
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	15.85	10.28	28.1	24.6	22.8	7	13	7



	SOHO/ Home (Middle-end)	SOHO/ Home (Entry-level)		
Model	TS-120	TS-212P	TS-212E	TS-212
Number of HDD Tray <sup>(1)</sup>	1	2	2	2
Base (Free) IP Camera # <sup>(2)</sup>	2	2	2	2
Max. Supported IP Camera # (license required)	8	8	8	8
Max. Recording throughput (Mbps) <sup>(3)</sup>	40	35	35	35
Total Frames Per Second (FPS) <sup>(4)</sup>	240@720p	240@720p	240@720p	240@720p
Power Consumption Access (W) <sup>(5)</sup>	12	13	13	13
Power Consumption HDD Hibernation (W) <sup>(5)</sup>	5	6	6	6

- Notes:
- (1) The standard system is shipped without hard drives.
  - (2) 2 or 4 free recording channels are only for Surveillance Station 5.0 with QTS 4.1 firmware (or higher versions). Older versions of Surveillance Station and QTS provide a minimum of 1 free license.
  - (3) The maximum number of recording channels supported and recording performance are for reference only. The actual recording performance may vary depending on a number of factors such as the IP cameras, video contents, network bandwidth, recording settings and other applications running on the NAS. Please contact authorized distributors or camera vendors for more information on the recommended number of recording channels.
  - (4) The result is based on resolution 1280 x 720.
  - (5) The power consumption numbers are for reference only and vary between each model and storage capacity.

# Surveillance Station Guide 2014



**QNAP** Systems, Inc.

TEL : +886-2-2641-2000 FAX : +886-2-2641-0555

Address : 3F, No.22, Zhongxing Rd., Xizhi Dist., New Taipei City, 221, Taiwan

QNAP may make changes to specification and product descriptions at any time, without notice. Copyright © 2014 QNAP Systems, Inc. All rights reserved. QNAP® and other names of QNAP Products are proprietary marks or registered trademarks of QNAP Systems, Inc. Other products and company names mentioned herein are trademarks of their respective holders.



[www.qnap.com](http://www.qnap.com)

51000-023615-RS  
201405 (ENG) A