



## QNAP Surveillance Solution

# Use QNAP NAS as an NVR



### Hardware Benefits

- VMS can be installed on any QNAP NAS.
- NAS-level data protection.
- Retain and archive long-term recordings.
- Expandable and migratable storage.
- Easily backup to cloud and multi-locations.
- Multiple high-speed network connections.



### QNAP VMS Strength

- Flexible recording space management.
- No vendor lock-in for cameras.
- Send and receive real-time notifications.
- Precise permission controls.
- Detailed operation logs.
- Metadata and unified API support.
- Failover design.
- Central management.

### Cross-platform Surveillance Viewer

#### QVR Pro Client

- Customizable layouts.
- Multi-screen support.
- Real-time warnings and notifications.
- Search by events.



**QVR Pro Client**  
for Android and iOS.

## More than generic surveillance



### AI Features

- Analysis performed by NVR server instead of client device to prevent any interruption to client computers/mobiles.
- Guarantees the recording performance during analysis.
- AI Tasks: Motion, Missing objects, Foreign objects, Camera occlusion.

### Real Time Monitoring



QVR Face



QVR Human

### AI & Video Analytics



QVR Smart Search

# Features

Item	Details	Feature	Details
Supported Formats	H.264, H.264+, H.265, H265+, MJPEG	Playback	<ul style="list-style-type: none"> <li>Multi-window synchronous/separate playback, Playback speed control.</li> <li>Includes event playback, smart event search, and face search.</li> </ul>
Multi-stream	Supported	Export function	Segment export, export to NAS or computer
Recording mode	Full, Event, Manual	Event alert triggers	<ul style="list-style-type: none"> <li>Built-in: face recognition, people detection, density detection, and by API trigger.</li> <li>Camera: includes license plate recognition, dynamic detection, and line crossing detection. Refer to the compatibility list for camera IVA features/ Multiple triggers and time rules can be supported.</li> </ul>
Camera support	More than 7,000 & ONVIF profile S/T/G devices RTSP & RTMP input support	Event alert actions	Includes push notifications, SMS, camera PTZ, event recording, email, and HTTP API.
Viewing clients	NAS HDMI: QVR Smart Client PC, macOS: QVR Pro Client Mobile: Android & iOS	Recording backup	<ul style="list-style-type: none"> <li>Single backup, regular backup.</li> <li>Supports Samba backup and cloud backup.</li> </ul>
Layouts	Real-time, playback, e-map, fisheye and 360 surround view lens restoration display Preset layout switching	Central management	Centrally managed by QVR Center (up to 256 servers).
Camera control	PTZ controls, 2-way calls, streaming resolution setting	AI capabilities	Smart Search events <ul style="list-style-type: none"> <li>QVR Face: Face recognition, image finding, mask detection, and gender detection.</li> <li>QVR Human: Cross-border detection, area density detection, and statistics.</li> </ul>

# Recommendation Models by Channel

Recommended number of channels	16	24	24	36	36	64	64	128
Models	QVP-21C	QVP-41C	TS-464U-RP	QVP-63B	TS-AI642	QVP-85B	TS-855eU-RP	TS-h1887XU-RP
Form	Tower	Tower	Rackmount	Tower	Tower	Tower	Rackmount	Rackmount
HDD amount	2	4	4	6	6	8	8	12
Disk capacity	22	22	22	22	22	22	22	22
Number of channels to watch simultaneously locally + remotely	32	48	48	64	64	64	64	128
Ports	2x USB-A 3.2 2x USB-A 2.0 2x 2.5Gbe RJ45 2x HDMI™	2x USB-A 3.2 2x USB-A 2.0 2x 2.5Gbe RJ45 2x HDMI™	2x USB-A 3.2 2x USB-A 2.0 2x 2.5Gbe RJ45 1x HDMI™	1x USB-A 3.2 2x USB-A 2.0 2x 2.5Gbe RJ45 1x HDMI™	2x USB-A 3.2 2x GbE RJ45 1x 2.5GbE RJ45 2x HDMI™	2x USB-A 3.2 2x GbE RJ45 1x 2.5GbE RJ45 2x HDMI™	4x USB-A 3.1 2x 2.5GbE RJ45	4x USB-A 3.2 2x 2.5GbE RJ45 2x 10GBase-T
Recording bandwidth	200Mbps	300Mbps	288Mbps	500Mbps	320Mbps	700Mbps	400Mbps	1200Mbps

# Advantages of using a NAS

- Any ONVIF-supported camera can be used, providing many options for cameras to suit any budget.
- Real-time data can be remotely accessed 24 hours a day, as long as the NAS is connected to the Internet.
- Centralized monitoring with QVR Center.
- Up to free 8 channels, with the option to easily purchase more licenses to fit growing needs.
- Event notifications allow administrators to be alerted to problems with cameras or network connections.
- Detection from cameras can become notification to admins (compatible cameras only).
- RAID can be set up on the NAS to protect against data loss caused by disk failure.
- In the event of NAS failure, recovery is as simple as installing the disks in a new NAS.
- NAS storage capacity can be expanded and scaled up to fit growing needs.
- View and manage recordings using free PC and mobile clients.
- If the NAS has HDMI output, you can view real time video by connecting to an HDMI display (separate license required).
- Motion detection at specific times, areas, and sensitivities based on recorded data using AI functionality (separate license required).
- Facial recognition and person entry/exit counting functionality.