



# VioStor QVR 5.1

## Professional Video Management System



# Local Display

Truly PC-less Surveillance Solution



# Truly PC-less Surveillance Solution

Allows you to see the live view, play recordings, and also configure system and surveillance settings without needing a client PC.

The screenshot displays the QNAP Surveillance Station web interface. The 'Control Panel' window is open, showing the 'Surveillance Settings' tab. A sidebar on the left lists various settings categories: Camera Settings (Camera Overview, Camera Configuration, Event Management), System Settings (Advanced Settings, Privilege Settings), Surveillance Logs, Backup & Expansion, Push Service, License Management, and Ping Test. The main area displays a table of configured cameras with columns for Channel, Camera Name, Camera Brand, IP Address, Resolution, Frame Rate, Action, and Quick Link.

Channel	Camera Name	Camera Brand	IP Address	Resolution	Frame Rate	Action	Quick Link
1	Camera 01	Hikvision	10.65.12.73	1280x720	10 fps	[Icons]	[Icon]
2	Camera 02	HUNT	10.65.12.101	2562x1544	15 fps	[Icons]	[Icon]
3	Camera 03	Axis	10.65.12.102	2562x1544	15 fps	[Icons]	[Icon]
4	Camera 04	Canon	10.65.12.103	1920x1080	30 fps	[Icons]	[Icon]
5	Camera 05	Arecont	10.65.12.104	Full	1 fps	[Icons]	[Icon]
6	Camera 06	BeWARD	10.65.12.105	1280x720	10 fps	[Icons]	[Icon]
7	Camera 07	ACTi	10.65.12.106	N2048x1536/P2048x1536	6 fps	[Icons]	[Icon]
8	Camera 08	Avtech	10.65.12.107	1920x1080	30 fps	[Icons]	[Icon]
9	Camera 09	Foccam	10.65.12.108	960P	2 fps	[Icons]	[Icon]
10	Camera 10	EtrorVision	10.65.12.109	D1	10 fps	[Icons]	[Icon]
11	Camera 11	Sony	10.65.12.110	1920x1080	8 fps	[Icons]	[Icon]
12	Camera 12	GRUNDIG	10.65.12.111	1280x720	10 fps	[Icons]	[Icon]
13	Camera 13	Grandstream	10.65.12.112	1280x660	10 fps	[Icons]	[Icon]
14	Camera 14	IQeye	10.65.12.113	720p H.264 + 720p MJPEG	15 fps	[Icons]	[Icon]
15	Camera 15	MOBOTIX	10.65.12.114	2562x1544	16 fps	[Icons]	[Icon]
16	Camera 16	Panasonic iPro	10.65.12.115	1920x1080	5 fps	[Icons]	[Icon]
17	---	---	---	---	---	[Icons]	[Icon]
18	---	---	---	---	---	[Icons]	[Icon]

The bottom of the screen shows a clock displaying 18:05 and the date Monday, June 8. The bottom right corner shows the QVR logo and the model number VS-12164UPro+.

Configure the system, schedule recordings, manage events, back up recordings, expand surveillance capacity, and more



# Playback and Speed Control by Shuttle Bar

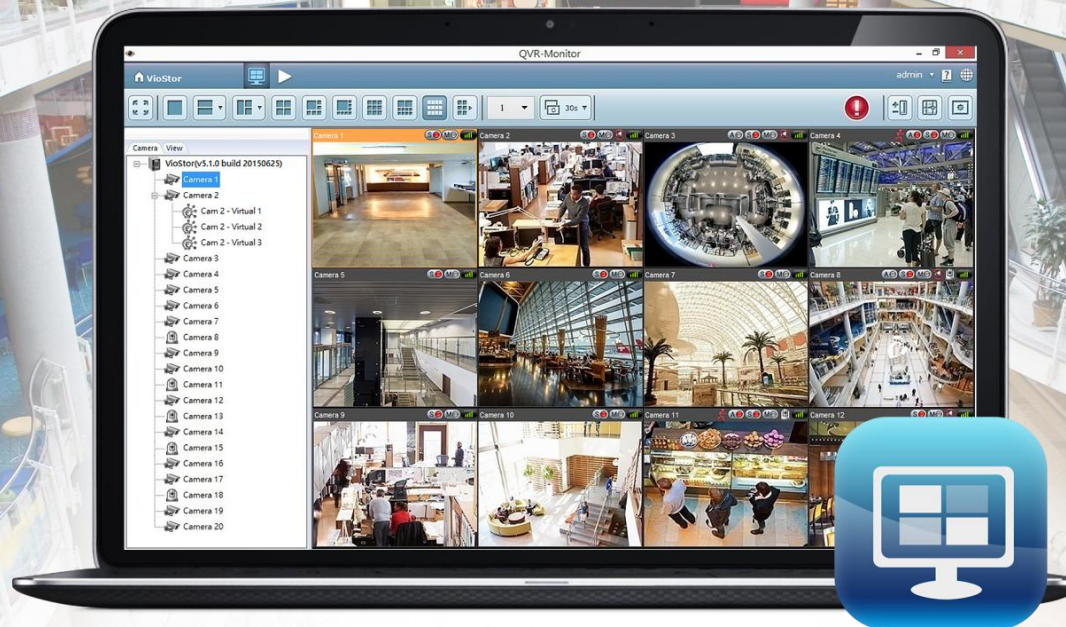
With the playback and speed control shuttle bar, you can fast-forward and rewind videos by dragging the button to the right and left, respectively, at your desired speed.



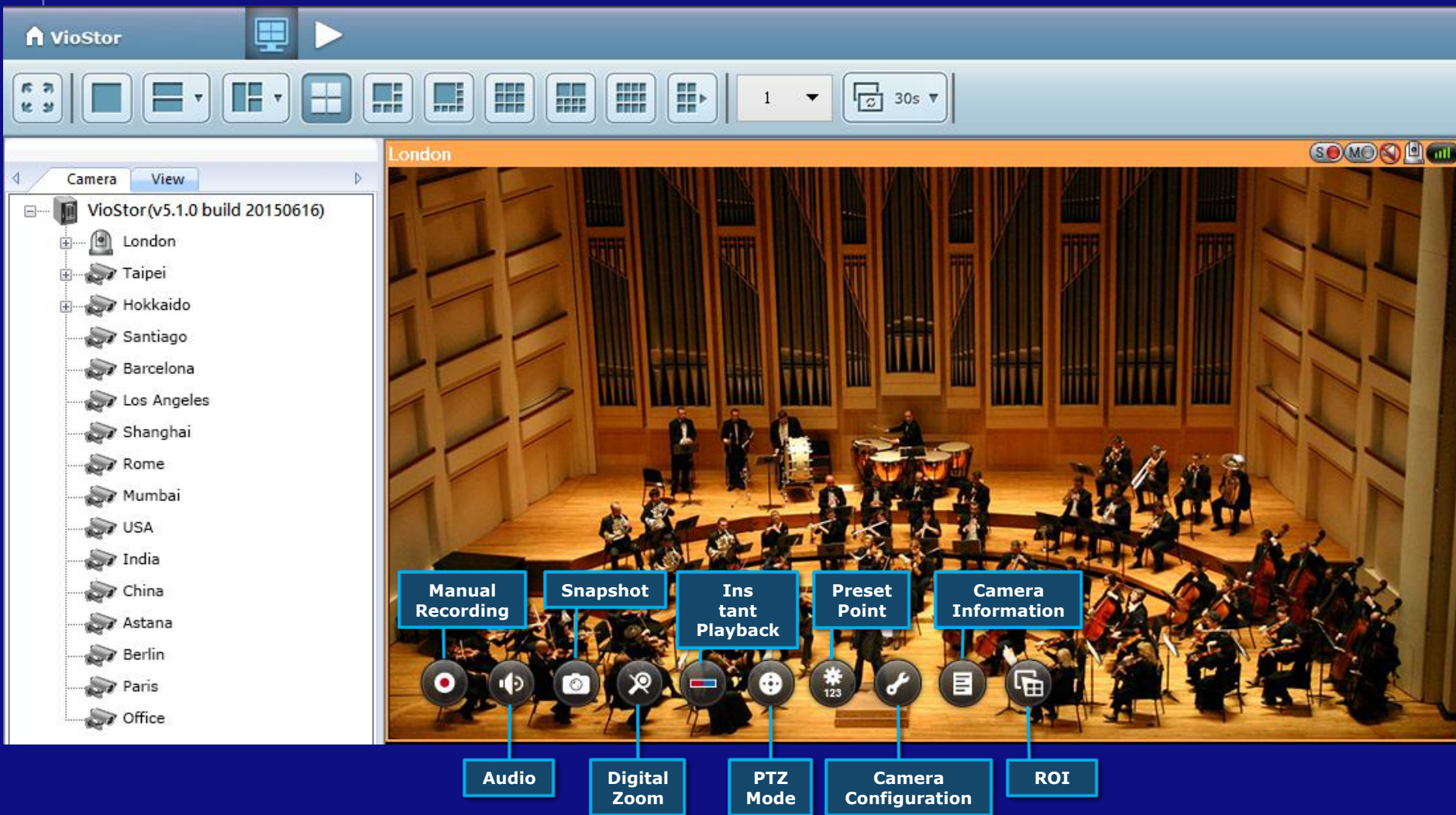


# Live View

## QVR Client for Windows



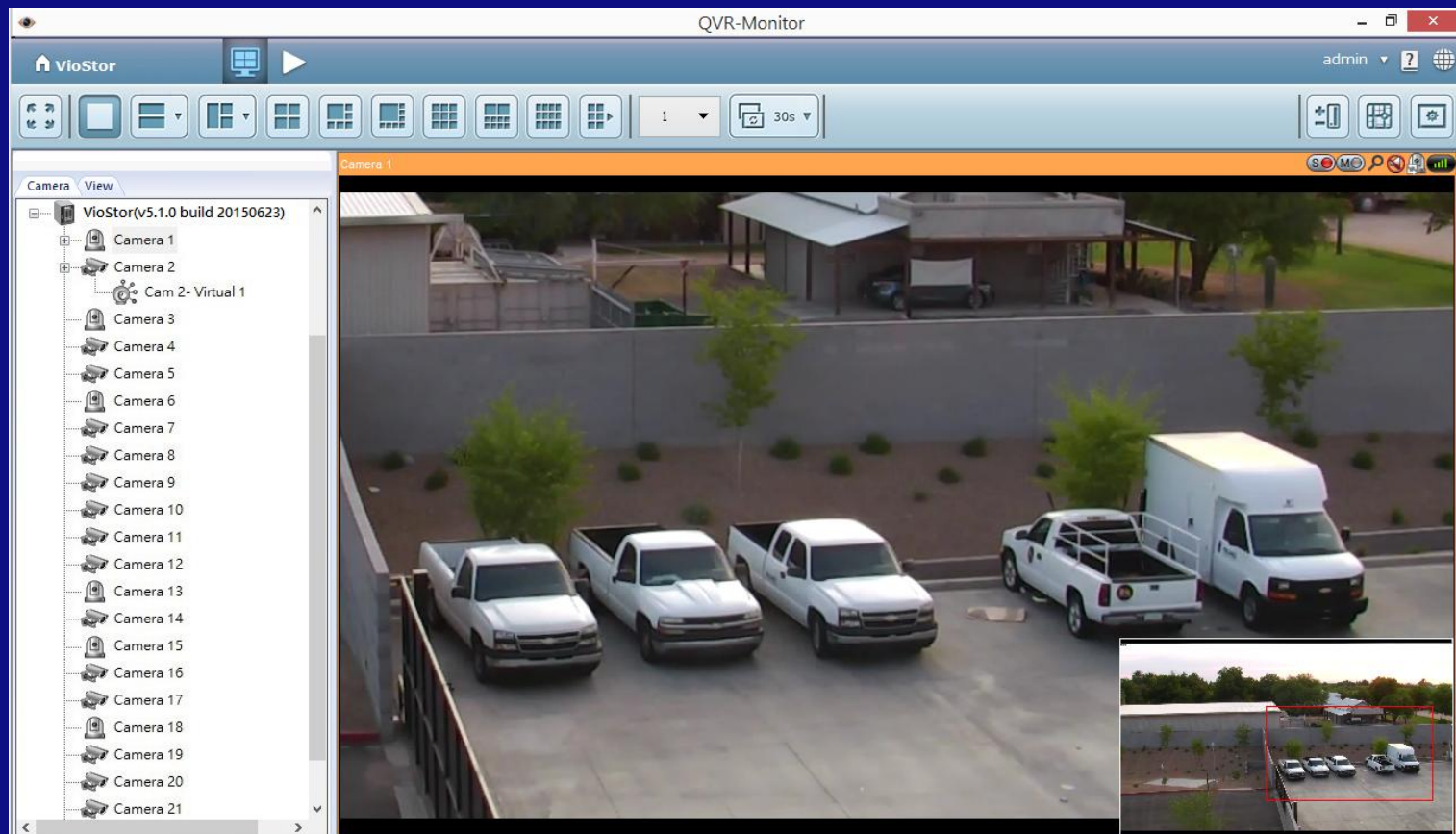
# Interactive Control Buttons





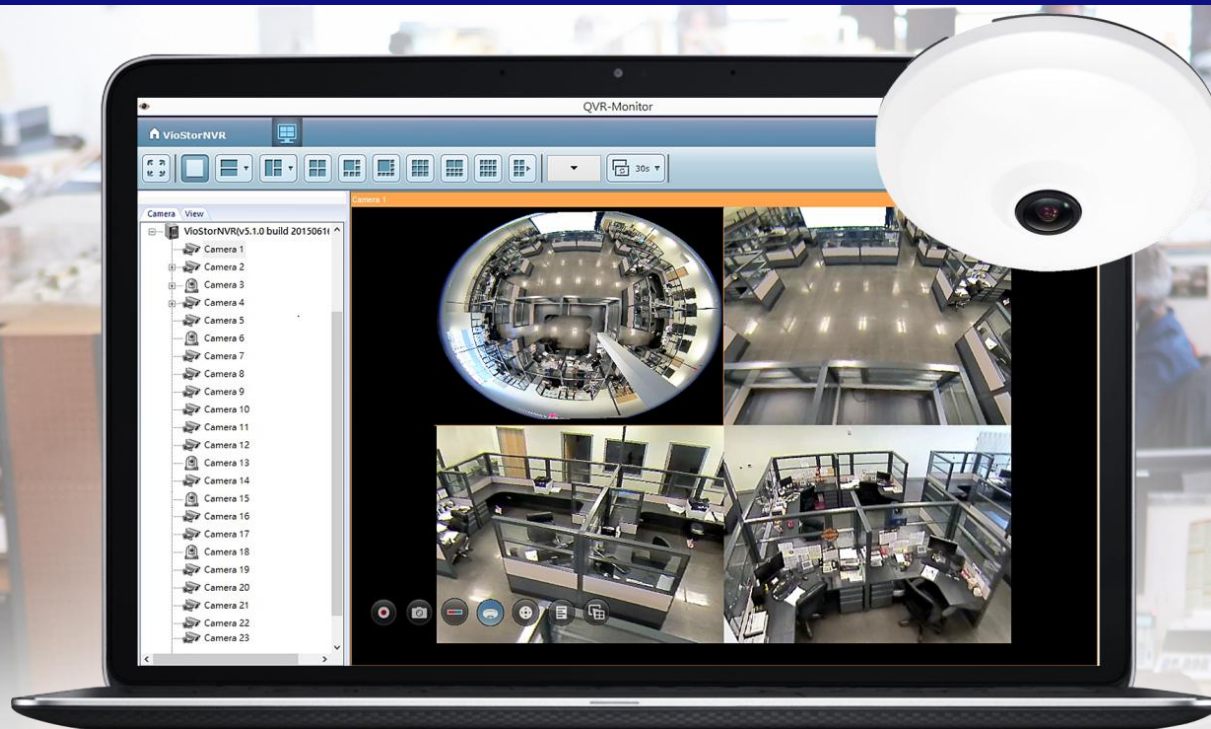
# Zoom in to See Details

Enhanced digital zoom features a new overview window with a red square frame to indicate the zoom area



# Qdewarp

QNAP Fisheye Dewarp technology





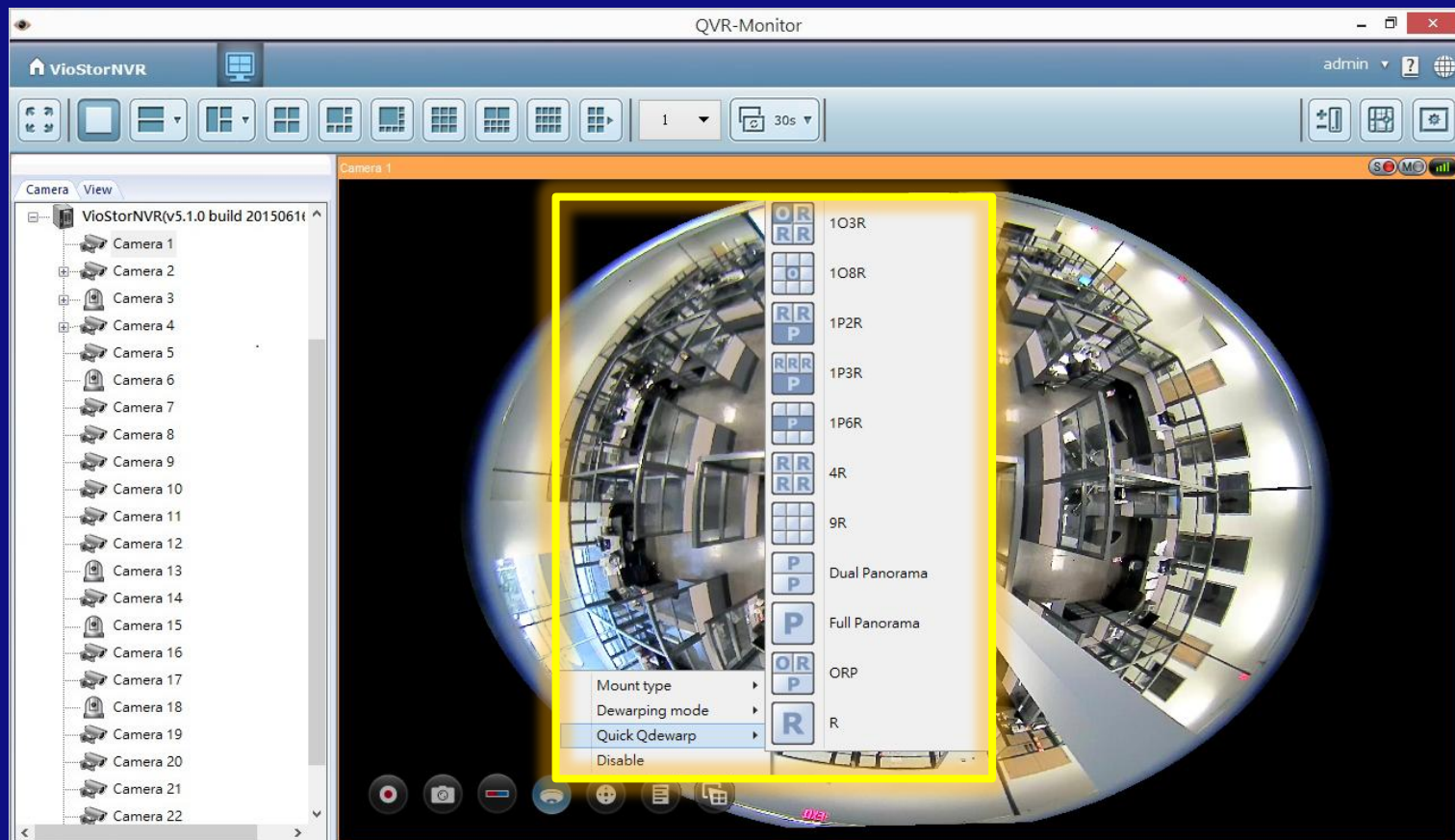
# Dewarp Technology for Generic Fisheye Cameras

Use Qdewarp by just clicking the interactive button on a channel.



# Supports Multiple Fisheye Dewarping Modes

Qdewarp provides multiple dewarping modes for flexible usage.

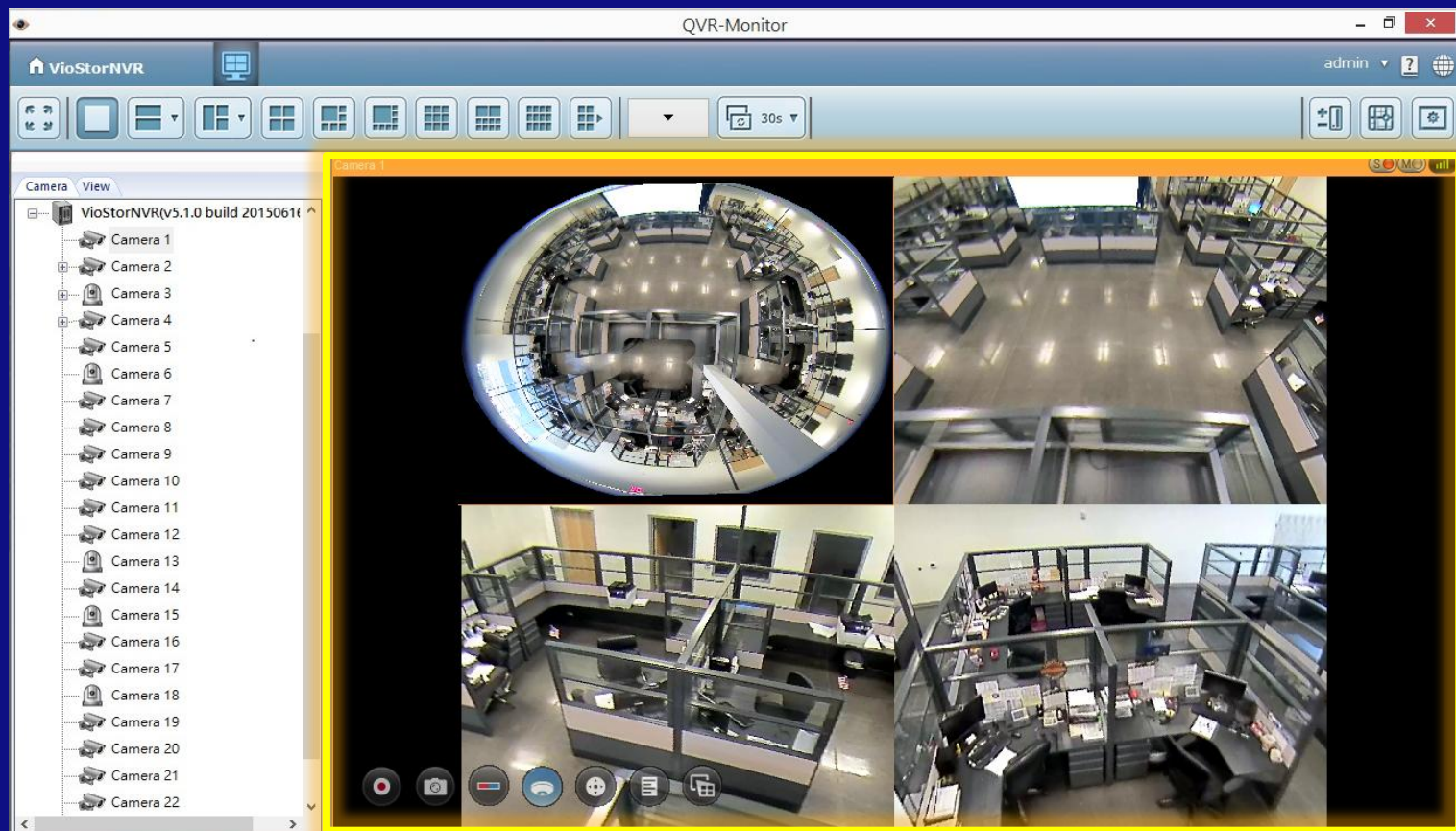


Available on live view and playback



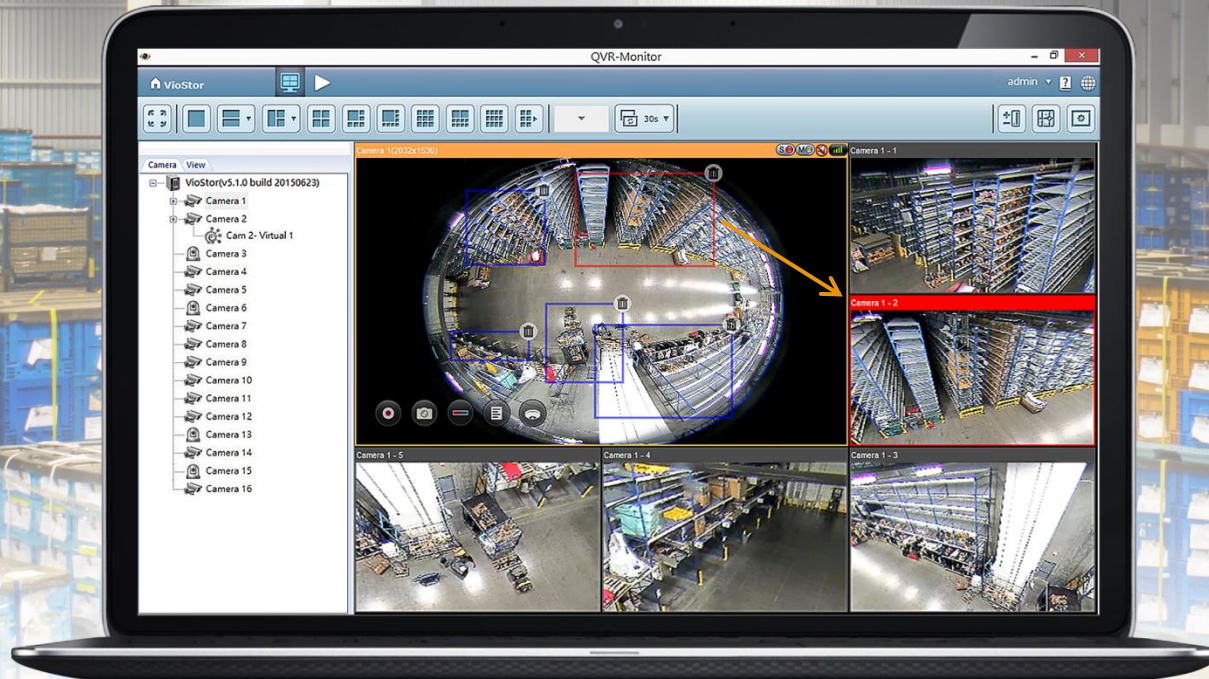
# Supports Multiple Fisheye Dewarping Modes

Supports ORP mode for demonstrations and provides overview and regional dewarp. Just select the region and zoom using the mouse wheel.



# ROI

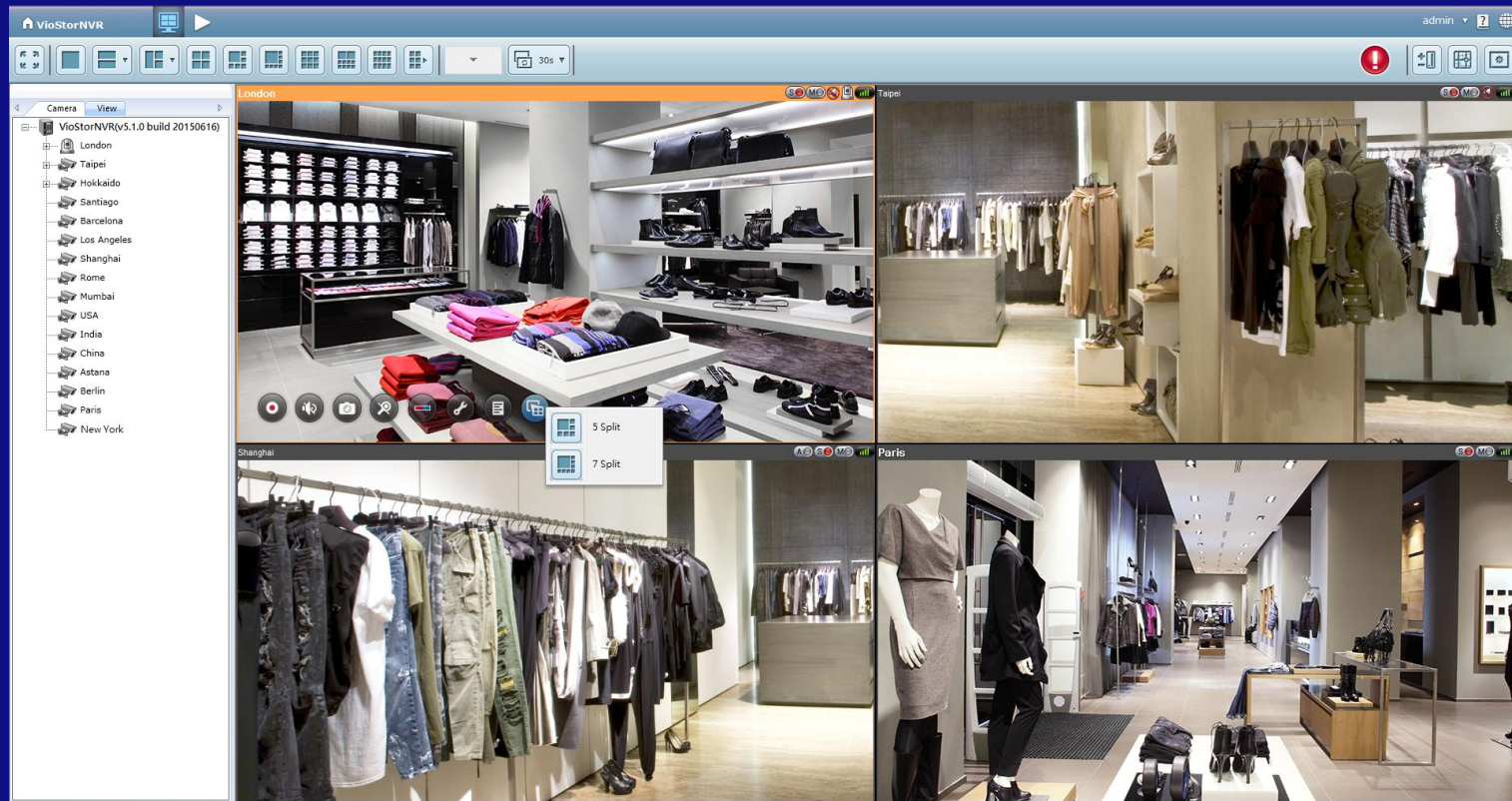
Region of Interest





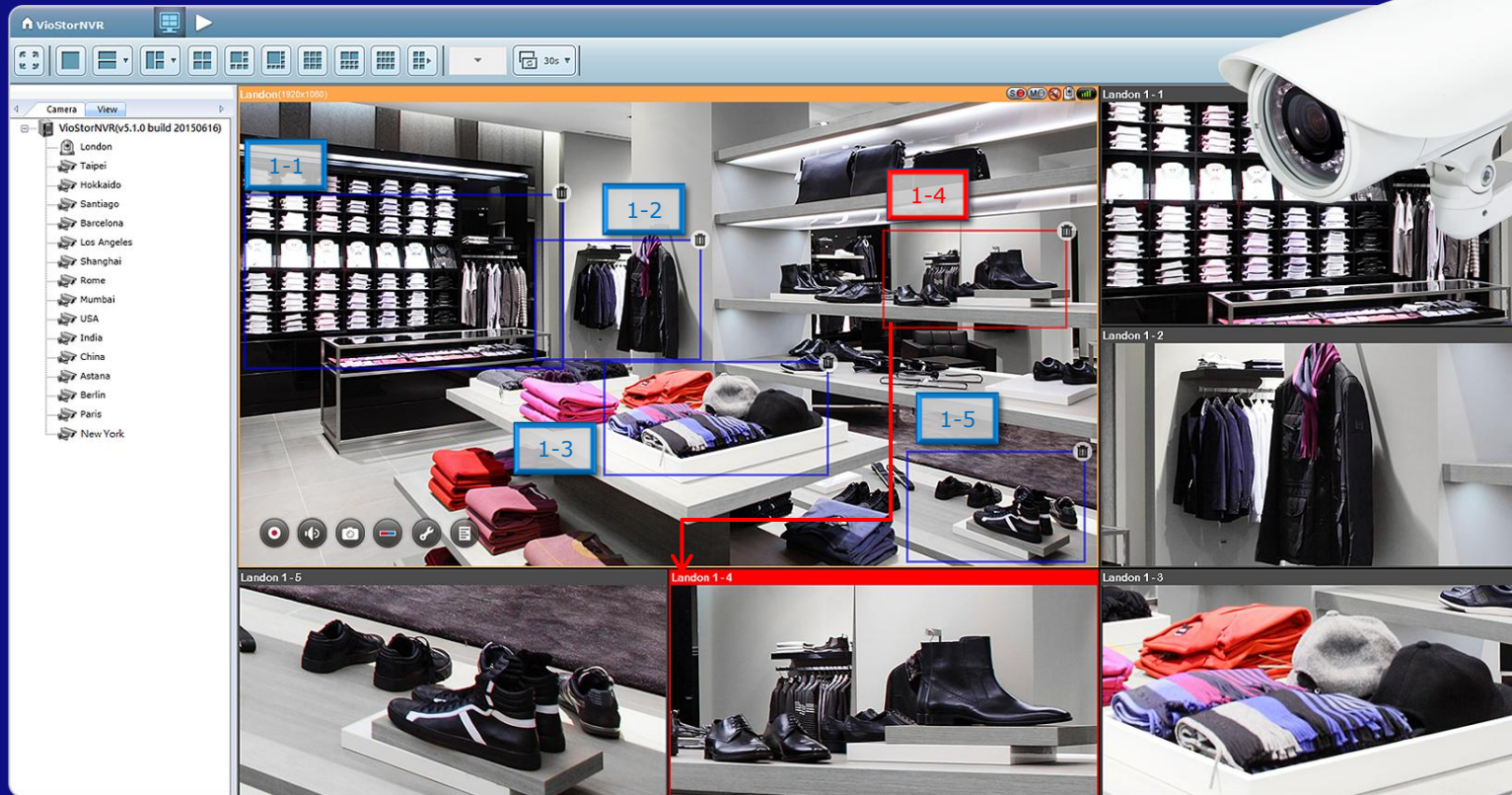
# Independent ROI Interface

Select a 5 or 7 split view.



# ROI View

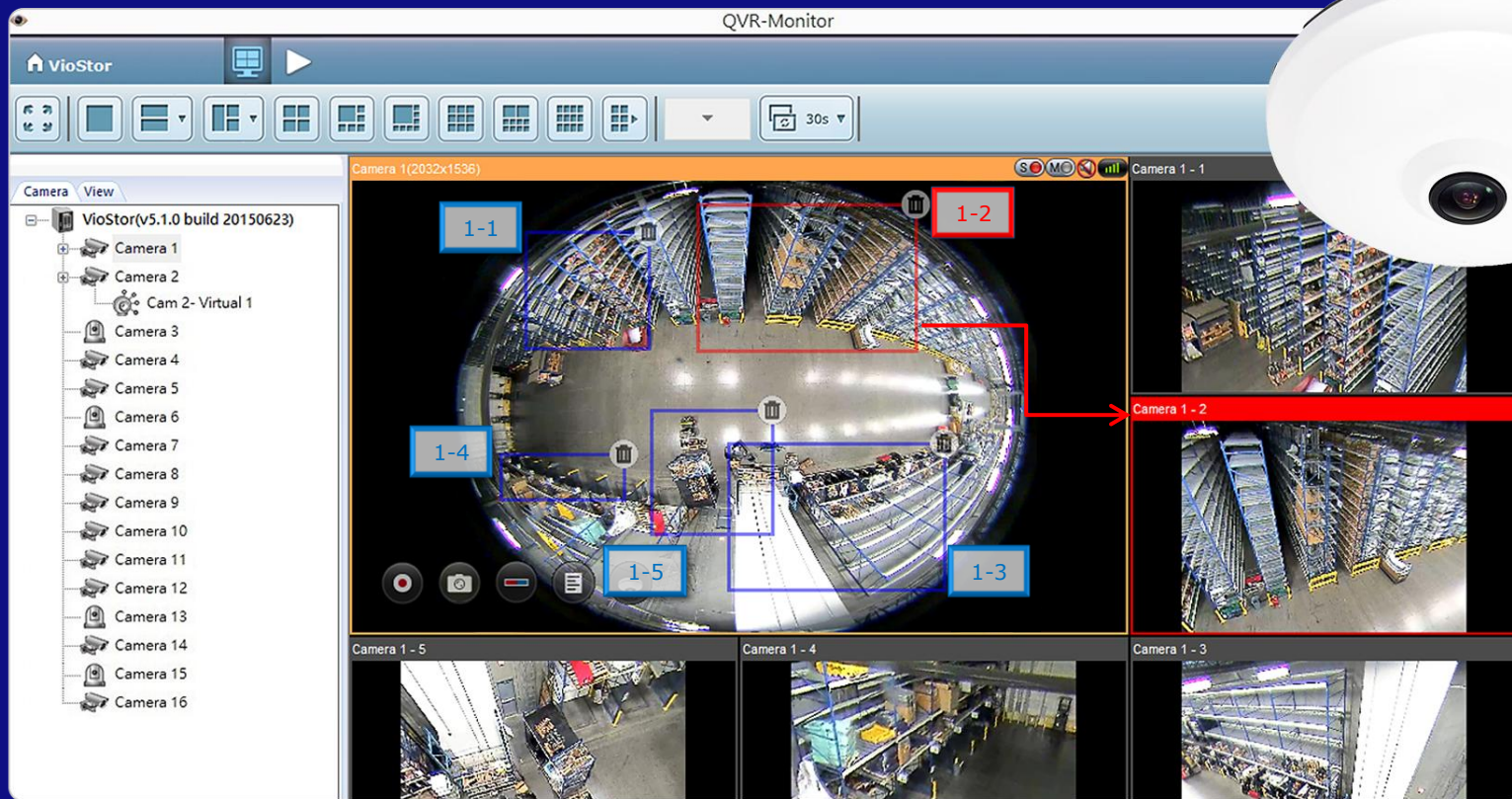
Draw regions of interest on the main channel and they will be reflected in the inset windows.





# ROI View

For fisheye cameras, you can see the original surround image and define multiple regions to see the dewarped images in one view.



# Virtual Camera

Simulate Virtual Camera with Image Cropping





# Virtual Camera

Simulate up to four virtual cameras as extended cameras of a physical camera in Surveillance Settings.

The screenshot displays the QNAP Surveillance Settings interface. The 'Surveillance Settings' window is open, showing a table of cameras. A red arrow points from the 'Add' button in the table to the 'Add' dialog box. The dialog box contains the following fields:

- Channel: Channel2
- Camera Name: Camera 2
- Virtual Camera Name: Cam 2 - Virtual 1
- Virtual Camera Index: 1
- Position (compared to upper-left corner):
  - Horizontal Offset(%): 25
  - Vertical Offset(%): 25
- Area Size of Virtual Camera:
  - Height(%): 50
  - Width(%): 50

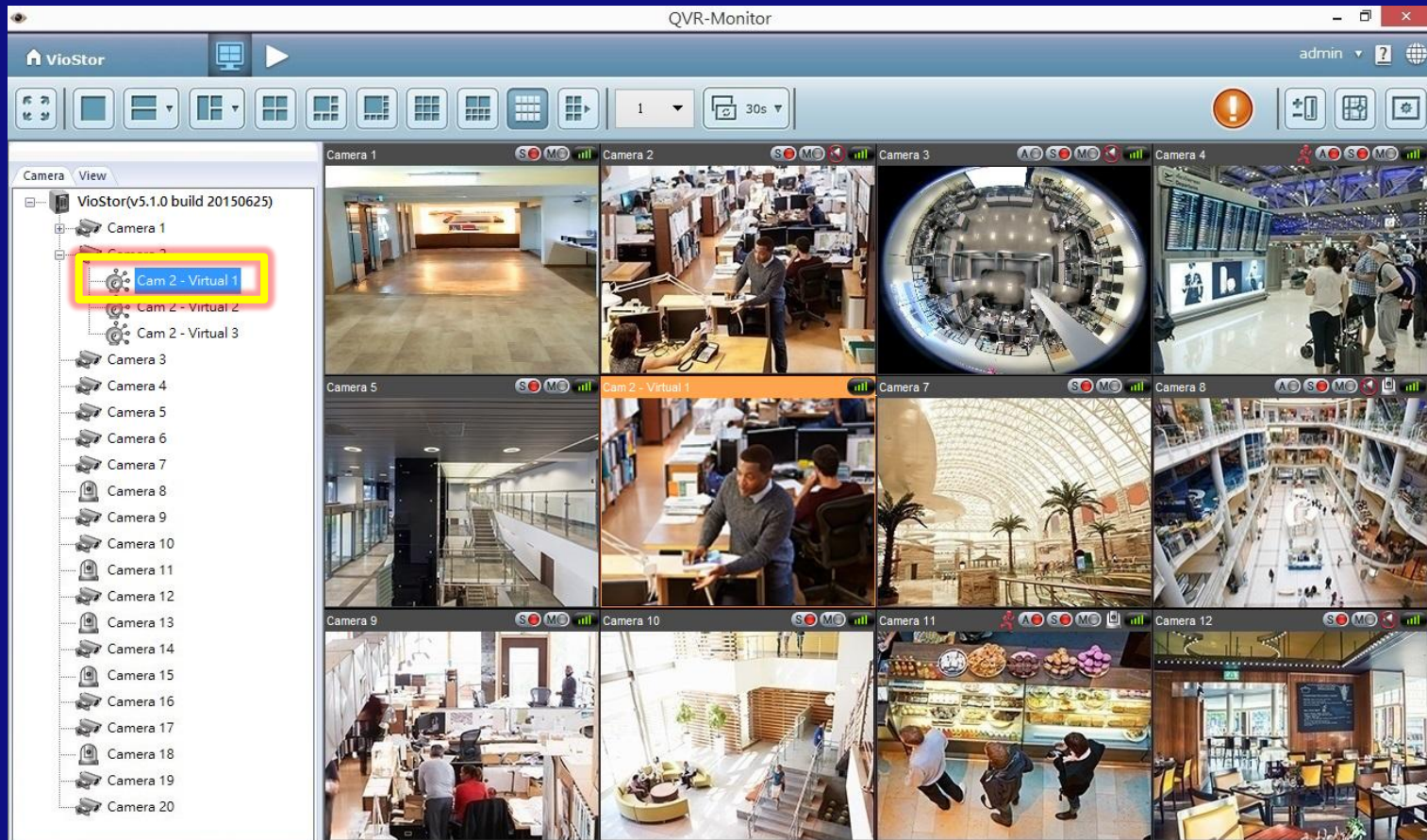
On the right side of the dialog, there are two preview windows:

- Edit Virtual Camera Area:** Shows a red rectangular area overlaid on a video feed of a person at a desk.
- Preview Virtual Camera:** Shows the resulting virtual camera view, which is a smaller portion of the original video feed.

At the bottom of the dialog, there are 'Apply' and 'Cancel' buttons.

# Virtual Camera

In the monitor page, you can drag virtual cameras into any window to monitor it.





# View Management

Customize Your Own Layouts and Views



View management on QVR only supports the cameras on the server.

# Flexible View Management

Customize your own view and manage views in View Management.

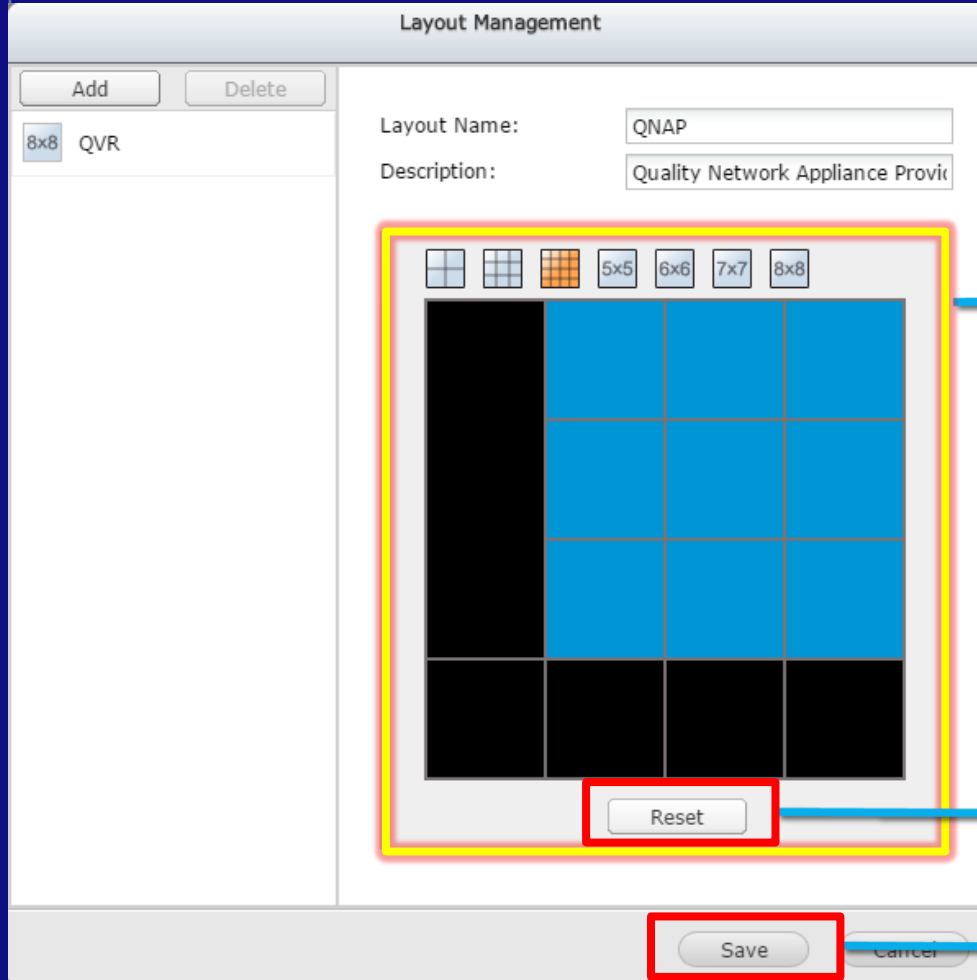
The screenshot displays the QNAP Surveillance Settings web interface. On the left sidebar, the 'View Management' option is highlighted with a yellow and red border. The main content area shows a table of configured views. A yellow box highlights the 'Action' column for the first view, 'VioStor', which contains icons for edit, delete, and a layout preview icon. A blue line points from a text box to this layout preview icon.

#	View Name	Layout Name	Description	Action
1	VioStor	QVR	QNAP Video Recording System	[Edit] [Delete] [Layout Preview]
2	QNAP	QNAP	Quality Network Appliance Provider	[Edit] [Delete] [Layout Preview]
3	View 1	8x8	Flexible view and layout	[Edit] [Delete] [Layout Preview]

Move mouse over the icon to know the used layout



# User-defined Layout



Flexible layout designs  
without the limits of  
4:3/16:9 aspect ratios

Easily reset to the default  
layout

After finishing your design,  
save the layout for the  
template of a view

# User-defined View

Add

View Name:  Restore

Description:

Layout List

▼

Camera

- ▶ Camera 1
- ▶ Camera 2
  - Cam 2 - Virtual 1
  - Cam 2 - Virtual 2
  - Cam 2 - Virtual 3
- ▶ Camera 3

Preview

Streaming Priority:

1. Choose the layout to configure.  
2. Drag the camera to the layout.  
3. To remove a camera or e-Map from the layout, double-click on it or drag it to the left side.



Select & drag a physical or virtual camera to one grid of the layout

Apply changes and save your view design



# Flexible View and Layout Design

**Edit**

View Name:

Description:


Layout List:  ⓘ

Camera:  ▼

Camera

- Camera 1
- ▶ Camera 2
- Camera 3
- Camera 4
- Camera 5
- Camera 6

Preview



Streaming Priority:  ▼

1. Choose the layout to configure.  
2. Drag the camera to the layout.  
3. To remove a camera or e-Map from the layout, double-click on it or drag it to the left side.

Edit layouts and views for different monitoring purposes and locations

# Flexible View Layout



View management on QVR only supports the cameras on the server.

To configure the View for cameras from multiple servers, please use QSCM Lite (Central management app).



# Recording

Flexible Options to Set Up IP Camera Recording



# 60 FPS Recording

There is no need to worry about missing any moment. 60 fps support allows for sharper and smoother recordings.

The screenshot shows the QNAP VioStor Surveillance Settings interface. A dialog box titled 'Add' is open, displaying the 'Video Settings' configuration. The 'Frame Rate' is set to 60 FPS, which is highlighted with a yellow box. The background interface shows various settings tabs and a list of cameras.

Stream	Video Compression	Resolution	Frame Rate	Quality
1	H.264	1920x1080	60	Compression 30
2	H.264	640x480	6	Compression 30
3	H.264	1280x720	30	Compression 30

Additional settings in the dialog box include:

- Multi-stream Profile: User defined
- Recording Mode: Smart Recording
- Regular Recording: Stream 1
- Alarm Recording: Stream 2
- ☐ Enable audio recording on this camera
- ☒ Enable manual recording
- ☐ Enable real-time digital watermarking

Step 3/6

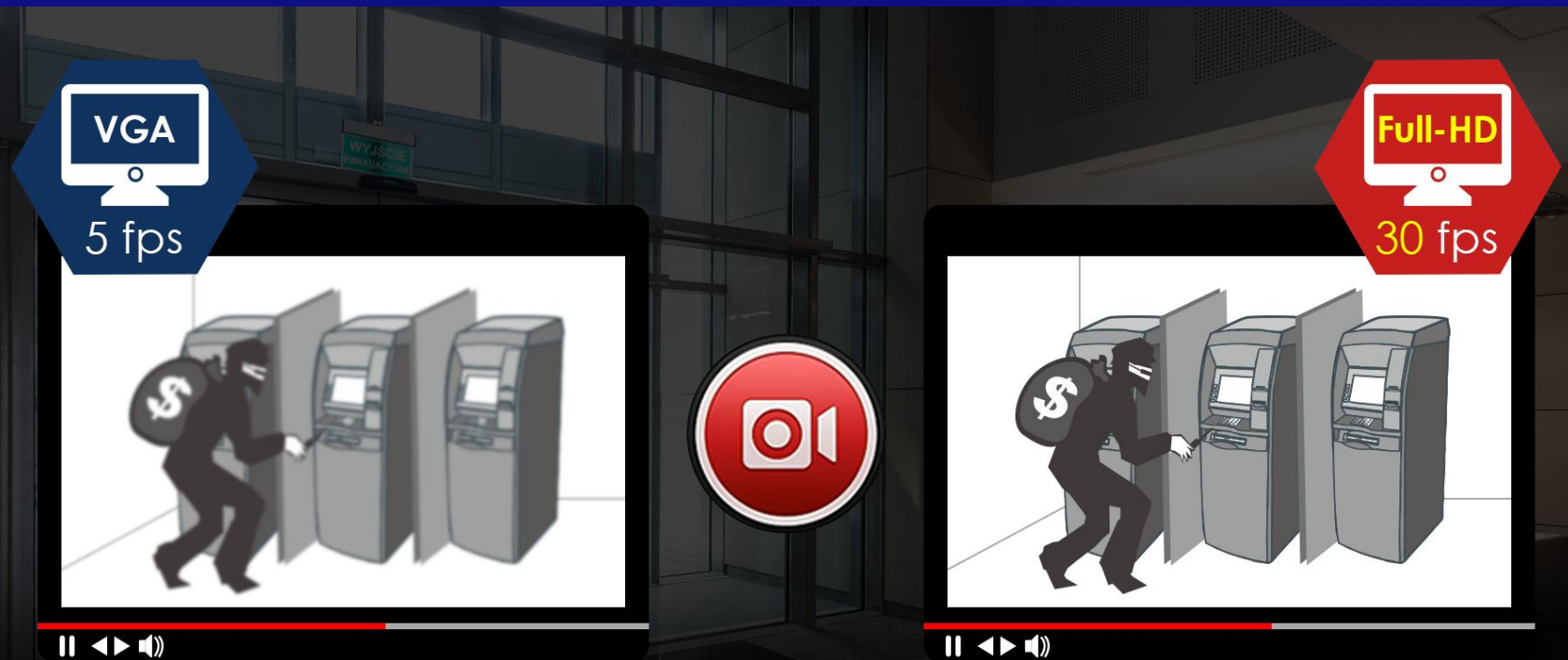
Buttons: Back, Next, Cancel

Bottom bar: 18:13, Thursday, June 25, QVR, VS-4116UPro+



# Dual Recording

Fit any Bandwidth Environment



# Dual Recording

Enable dual recording to save both higher and lower quality recordings for further use.

The screenshot displays the QNAP VioStorNVR Surveillance Settings interface. The 'Edit' dialog box is open, showing the 'Video Settings' tab. The 'Multi-stream Profile' is set to 'User defined', and the 'Recording Mode' is set to 'Dual-stream Recording'. The 'Main Stream' is 'Stream 1' and the 'Sub Stream' is 'Stream 2'. The table below shows the configuration for three streams:

Stream	Video Compression	Resolution	Frame Rate	Quality
1	H.264	2592x1944	Full	Compression 30
2	H.264	640x360	6	Compression 30
3	H.264	1280x720	6	Compression 30

Below the table, the following options are checked:

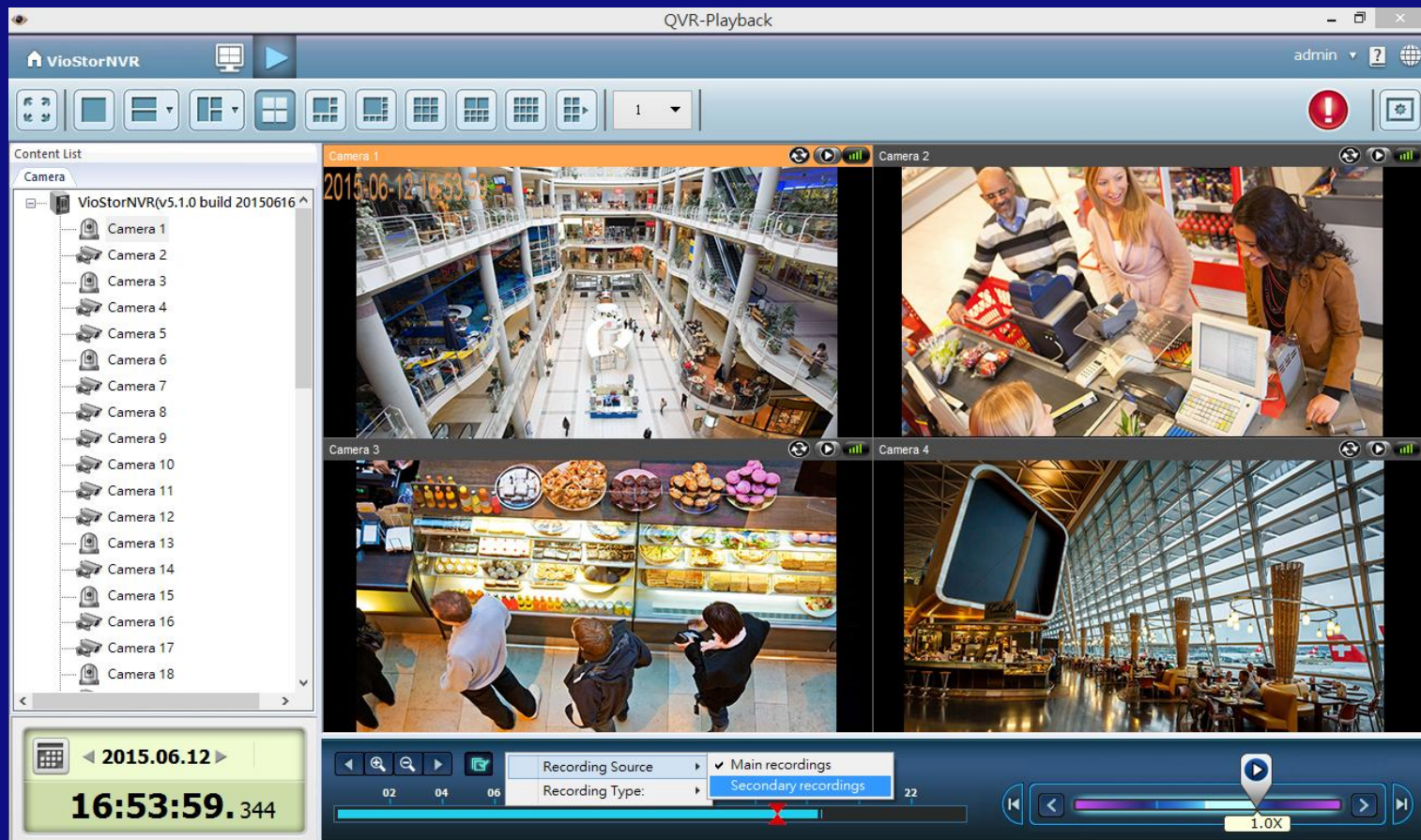
- ☒ Enable manual recording
- ☐ Enable real-time digital watermarking
- ☐ Minimum number of days recording files are kept 1 day(s)

The 'Apply' button is highlighted. The background interface shows the 'Surveillance Settings' window with a sidebar menu on the left and a 'Quick Link' table on the right. The bottom of the screen displays the time '15:16' and the date 'Thursday, June 18'.



# Dual Recording

In the playback page, you can easily select appropriate videos for playback using the multi-channel display mode.



# Playback

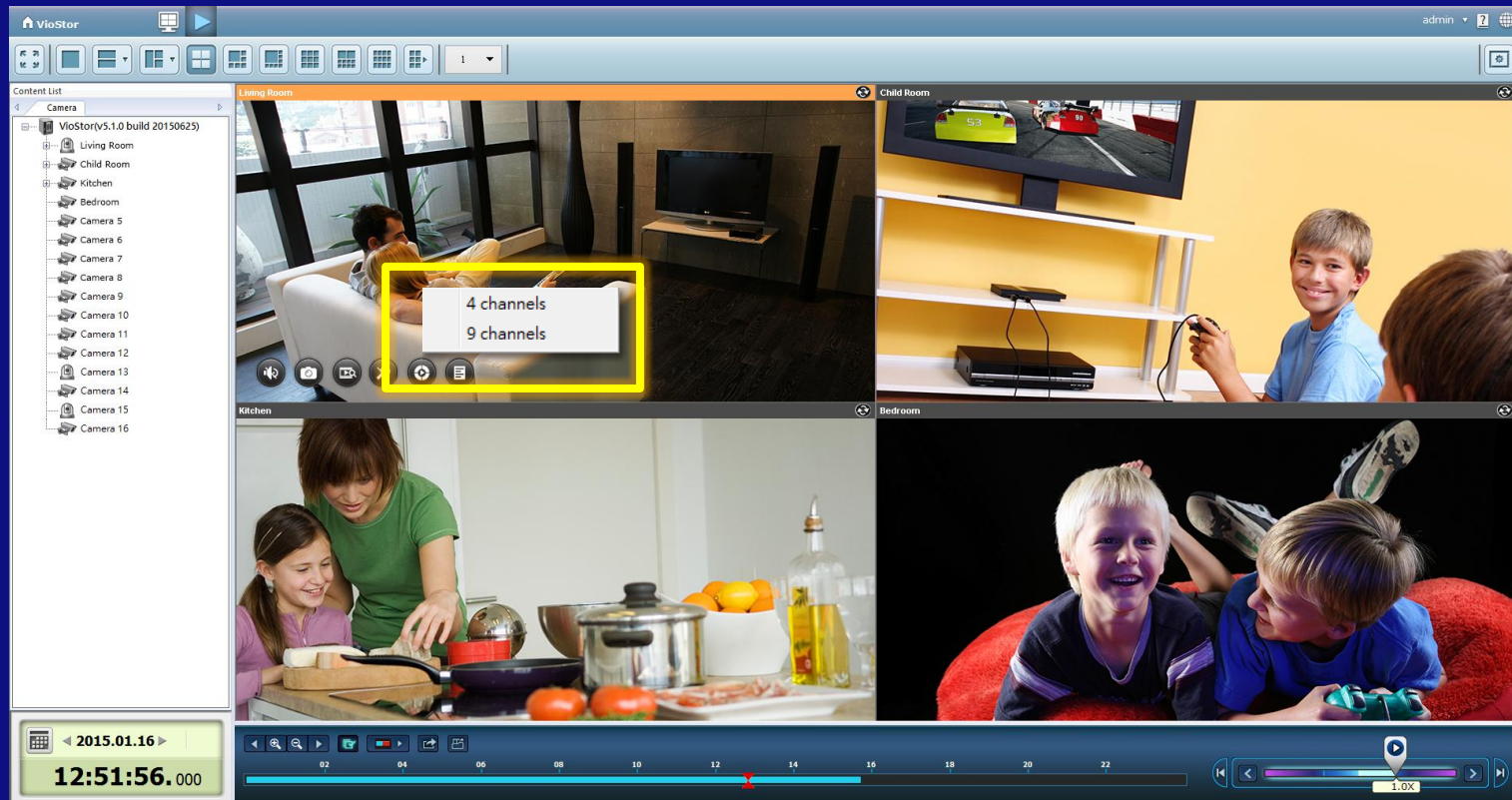
## QVR Client for Windows





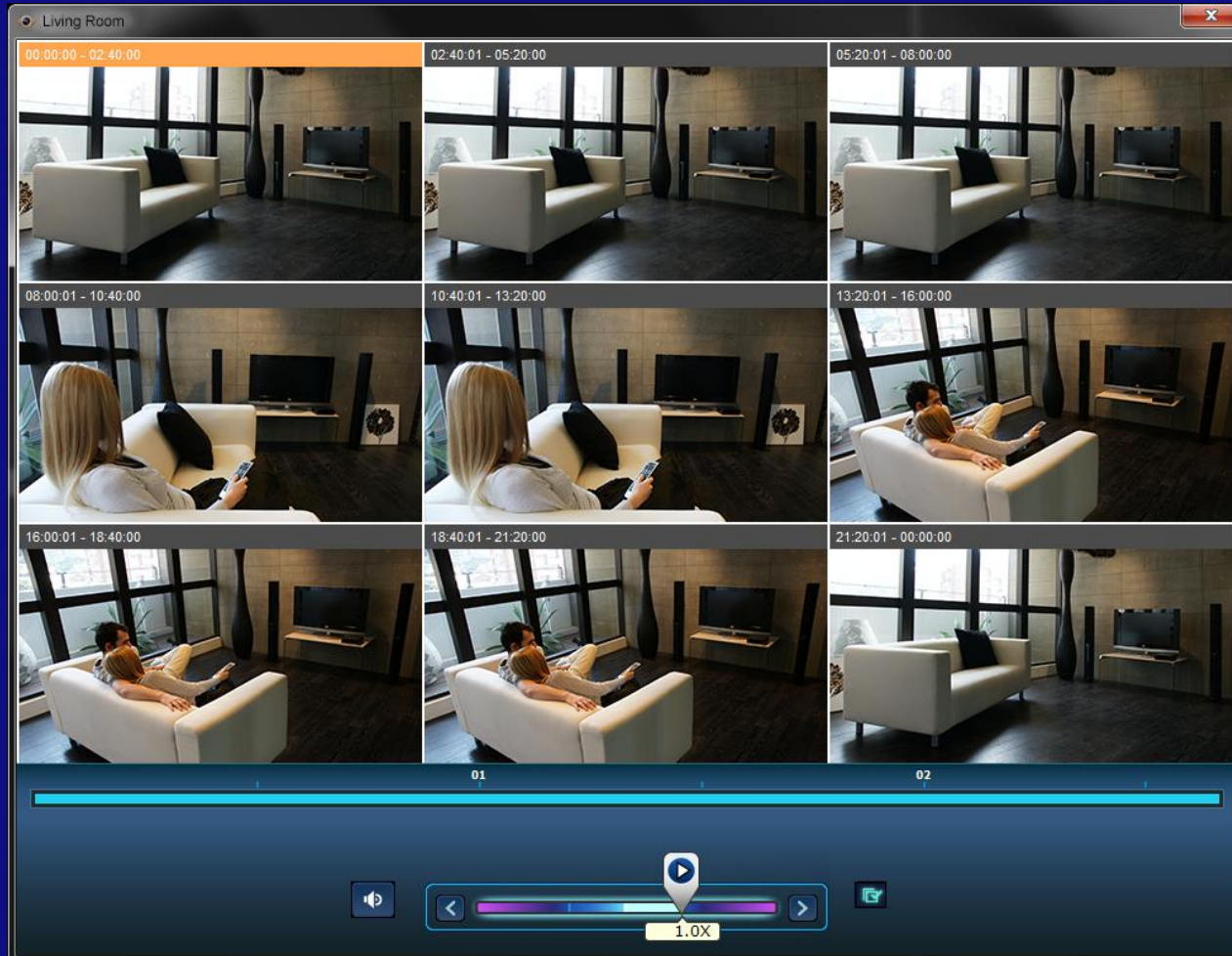
# Time-divided Playback for One Day Recording

Select a 4 or 9 channel time-divided playback.



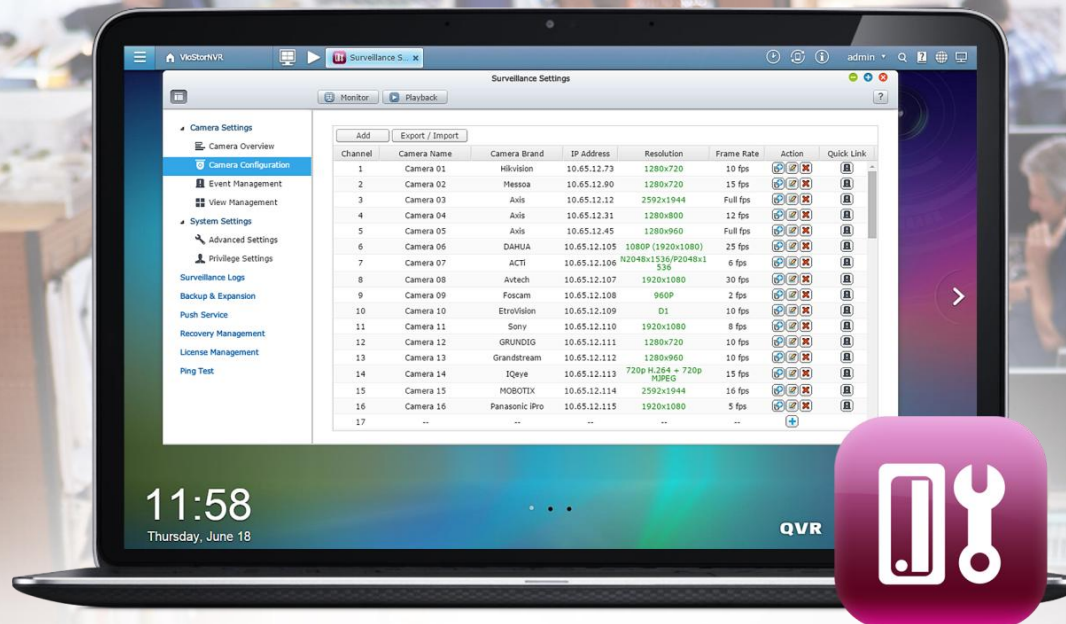


# 9 Channel Time Divided Playback for One Day Recording



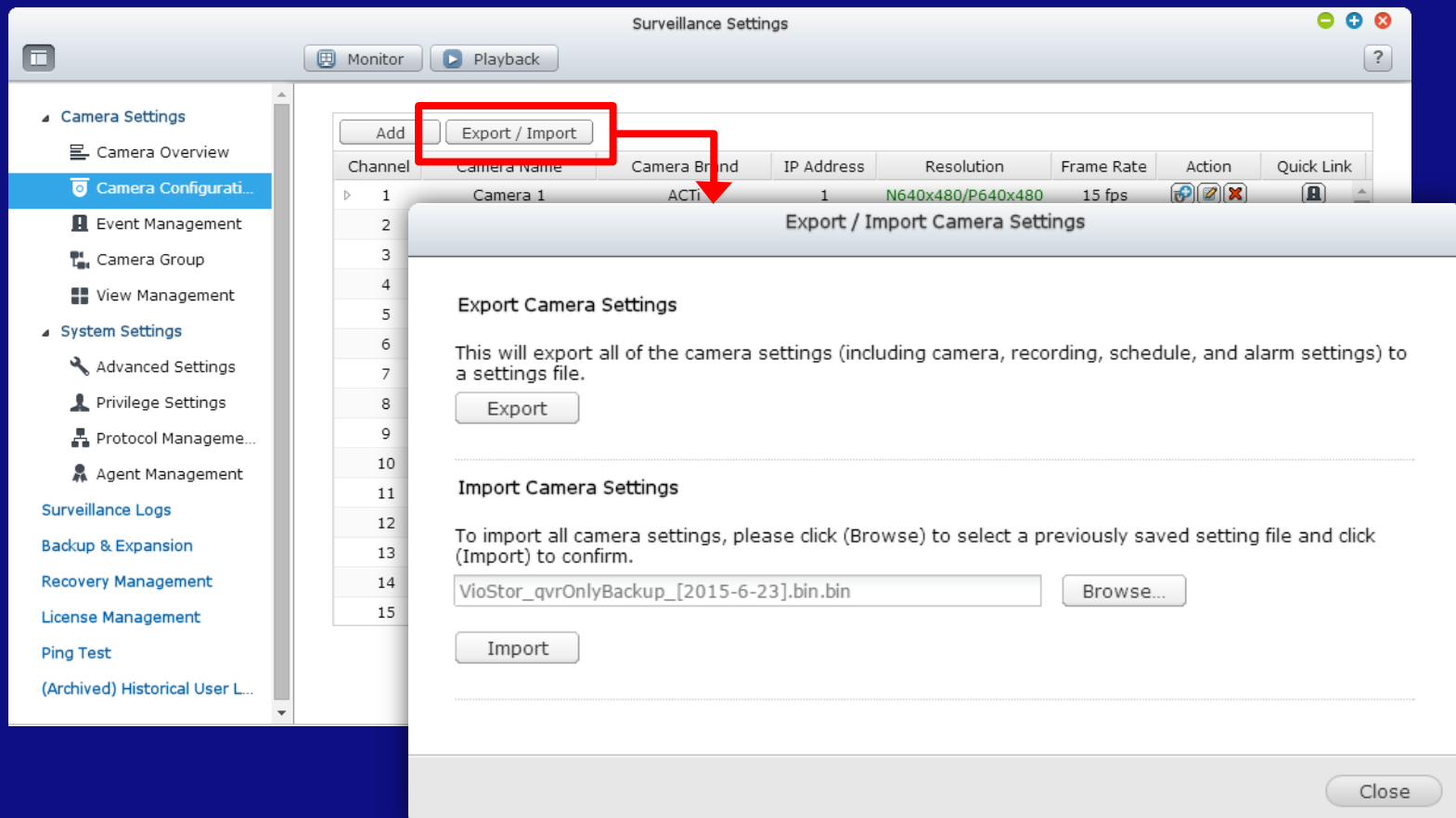
# Surveillance settings

## Camera Configuration Enhancement



# Export / Import Camera Settings

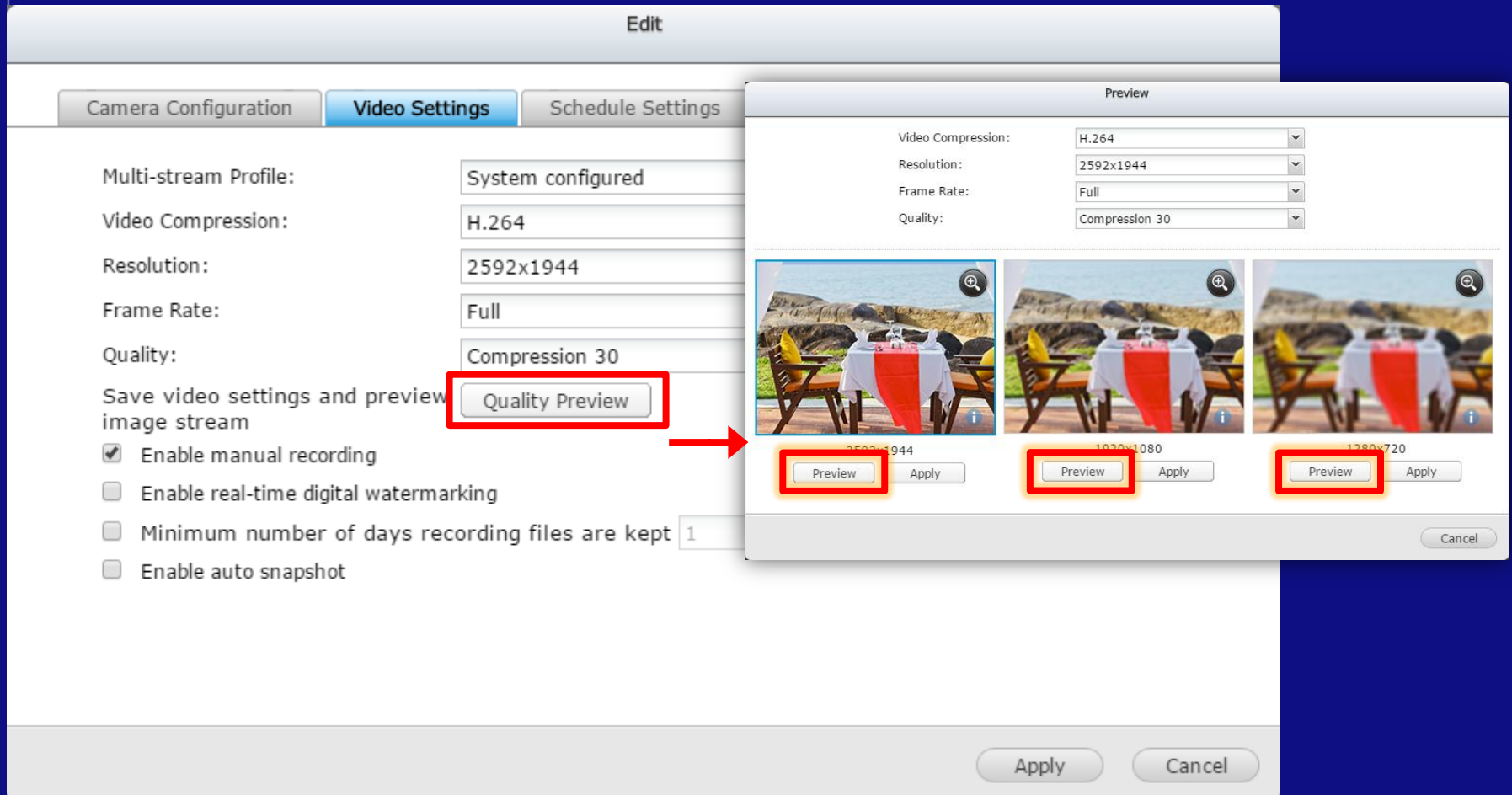
Save time in installing cameras by importing settings from other NVRs.





# Camera Preview

Preview different video settings before applying them to recording settings.



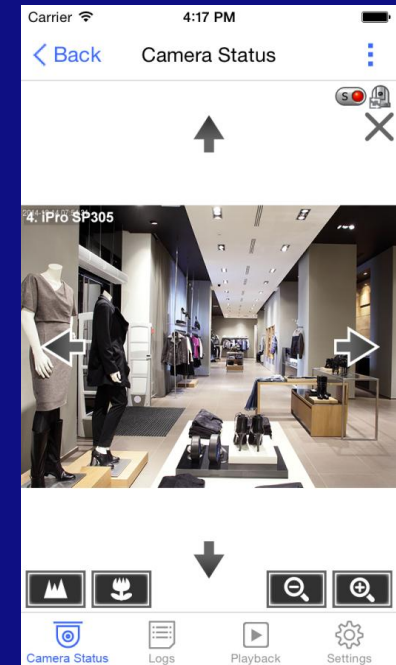
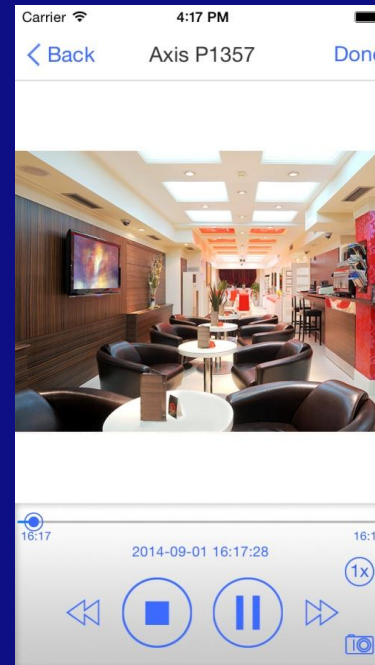
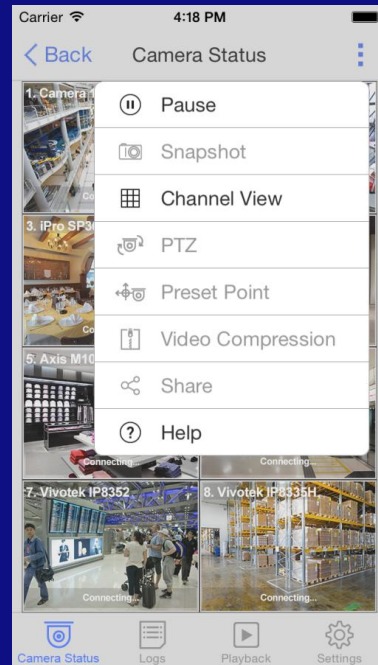
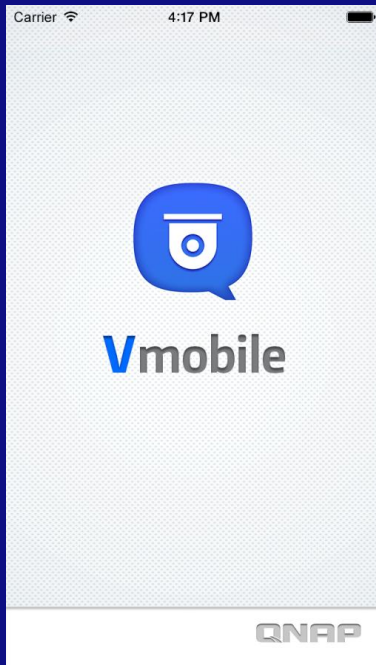
# VMobile and Vcam App

## Mobile Surveillance Apps



# Vmobile 3.1

- Live view, playback and event notifications
- Brand new GUI designs for iOS and Android
- Supports push notification (for QVR 5.1.0 or above)
- Supports low bandwidth mode in live view (for QVR5.0.2 or above)
- Supports low bandwidth mode in Playback (for QVR 5.1.0 or above)



For more information, please refer to [Vmobile tutorial](#).



# Vcam

- Use your mobile device as an IP camera or mobile camera.
- Record to a VioStor NVR or upload live images anywhere, anytime.



For more information, please refer to [Vcam tutorial](#).

# Qstart

Auto configuration / Auto port detection / Switch management



Qstart is available for 2-bay, 4-bay, 6-bay Tower NVR series

Available from A1 Security Cameras  
[www.a1securitycameras.com](http://www.a1securitycameras.com) email: [sales@a1securitycameras.com](mailto:sales@a1securitycameras.com)

# Innovative One-click Automatic Configuration

Qstart simplifies system initialization by automatically assigning default settings with a single click.


**QNAP**VS-2112Pro+English ▾

## Welcome

Thank you for choosing QNAP VioStor NVR. Please click "Manual Setup" below to start installation.

The installation process should take about 10-15 minutes, depending on the size of your hard drives.

Note: Website installation is for VioStor NVR servers that already have hard drives installed.



Manual Setup

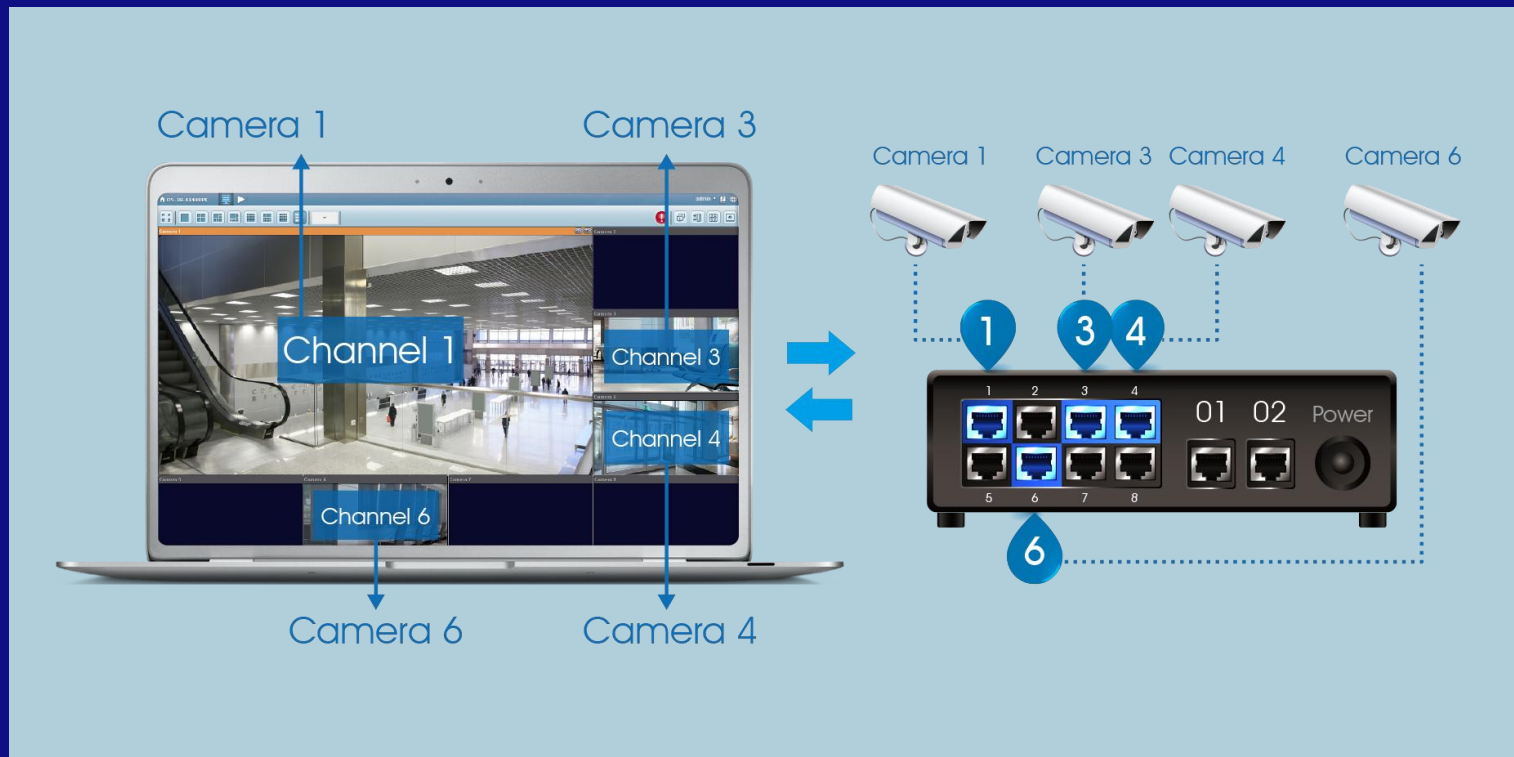
Qstart

Qstart:  
Provides users with a quick & easy NVR installation experience.  
Everything related to the initial setup will be automatically processed in a single click.



# Intuitive Channel Mapping, Auto Port Detection

The auto detection not only shows the direct linkage from switch ports to live view display but automatically completes all of the settings whenever there is any change to the port connection.



# Network Topology & Device Control UI

By integrating supported switches, Qstart provides comprehensive network topology and a device list for users to fully manage network health and device status.

The screenshot displays the 'Switch Control' interface. At the top, there's a 'Topology' tab and buttons for 'Refresh' and 'Event Notifications'. Below this, a 'Switch' section shows a visual representation of a 24-port switch with a console port and power button. To the right, a 'Switch Info' pop-up provides details: Firmware Version (101140429), IP Address (169.254.101.199), Mac Address (00:03:ce:13:e5:f5), Total Power (400.00), and Remaining Power (375.00).

Port	IP Address	MAC Address	Transferred	Received	Link Status	Consumed Power	Network Switch	POE Switch	Reset Transfe...
1	<a href="#">169.254.198.1</a>	3c:07:71:29:37:fc	737.75 KB	15.54 MB	on / 0Mbps	4.30 w	ON	ON	
2	<a href="#">169.254.101.192</a>	08:00:23:96:33:5d	691.27 KB	11.81 MB	on / 0Mbps	2.50 w	ON	ON	
3	--	--	--	--	off / 0Mbps	0.00 w	OFF	OFF	
4	<a href="#">169.254.101.193</a>	08:00:23:95:a4:8e	665.05 KB	11.13 MB	on / 0Mbps	2.70 w	ON	ON	
5	<a href="#">169.254.101.195</a>	08:00:23:95:a6:a7	661.95 KB	12.08 MB	on / 0Mbps	1.80 w	ON	ON	
6	<a href="#">169.254.101.197</a>	00:0f:7c:09:ae:bf	486.94 KB	46.29 KB	on / 0Mbps	2.40 w	ON	ON	

For more information, please refer to [www.qnapsecurity.com/feature/Qstart/](http://www.qnapsecurity.com/feature/Qstart/).

# Thank you!

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