

QVR PRO overview

Surveillance solution @ application explained







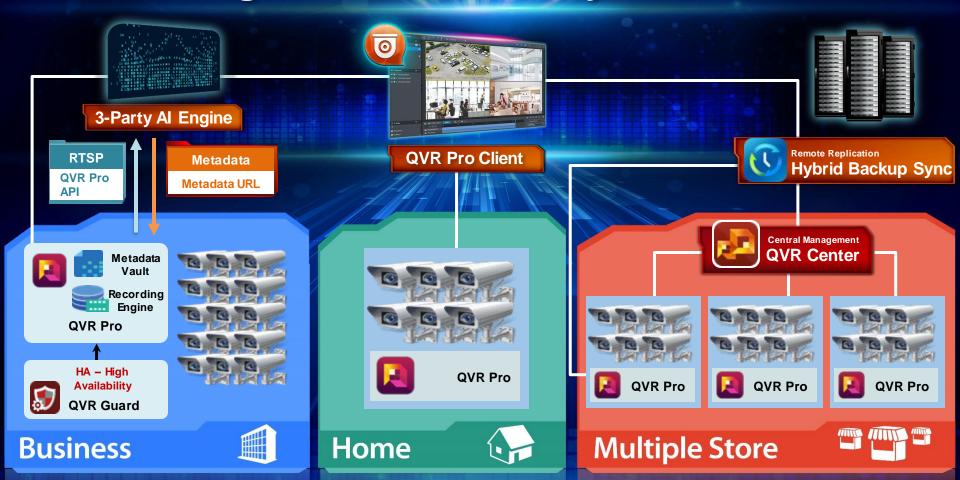
Solution Overview

System Architecture

Use cases/scenarios

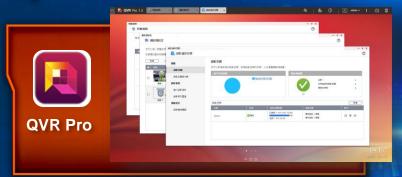


The next-gen surveillance system - QVR Pro





The next-gen surveillance system - QVR Pro









OVR Pro Server Normal						OVR Guard Standby	
	Model name: TV5-682 (c) 8 CITS-1415/001 4.2.5.596-20198905 P-address: 172.3.133.1211 Qxili Pro version: 1.2.8.8.2816-007/28			Canvo	ted	Model name: 15-1685 075 version: 4.3,6999.20189005	
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Various NAS model can fulfill different need



TS-332X-4G





Built-in HDMI Local Display

TVS-951X-8G





3 HDMI for small scale Video Wall solution

TVS-1282-i7-64G





Expansion Unit support for PB Level Storage

TDS-16489U-SA1









QVR Pro – advanced Gold license

QVR Pro provides 8 cameras

QVR Pro Client provides 14 days playback only



QVR Pro Gold



& Windows
AD/LDAP users

With QVR Pro Gold, 8 more cameras = 16 cameras
Can be managed by QVR Center
QVR Pro Client unlimited days of playback
Manage local & Windows AD/LDAP users











QVR Pro Channel Expansion License

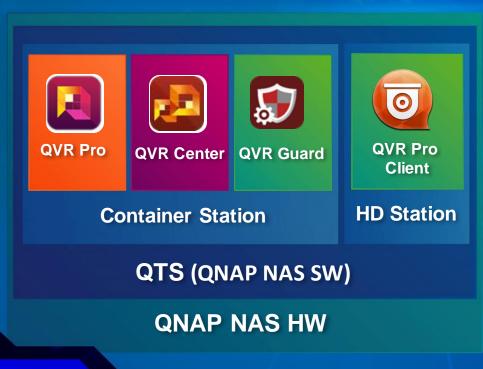
Expandable up to 128 cameras







QVR Pro ecosystem interactions







How QVR Pro works









Container Station

HD Station

Application Framework

Storage Management Network Management Resource Management App Center

OpenGL

QTS (SW)

NASHW







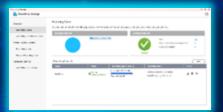
QVR Pro Internal Design



Live View & Playback



Camera Management



Recording Storage Management

QVR Pro Core

Privilege Management

Event Engine

Event Recording

Video storage engine

Metadata Interface

Log

Store Video

Channel-Time-Metadata Pairing

Metadata







QVR Center Internal Design



QVR Center Group

QVR Center Core

QVR Center Privilige management

QVR Center Dashboard

Manage multiple QVR
Pro server

QVR Pro core

QVR Pro core

QVR Pro core







Stay on top of everything





QVR Pro Client

- Live view, Playback
- Unified UI across platforms
- Dynamic View
- Support De-warp technology
- Mutiple event
- notification method





OVR PRO



QVR Pro Client

Dynamic View

Item List



Main Toolbar

Event notification

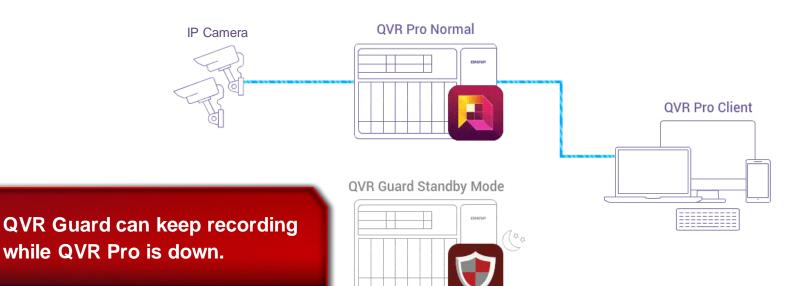
Timeline







Failover for uninterrupted recording







Based on QNAP NAS high reliability

Thunderbolt[™] 3





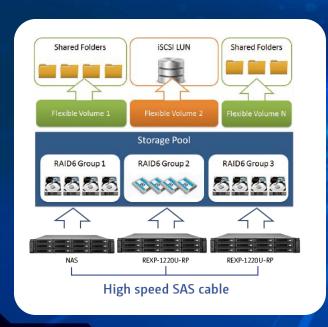
- SSD + HDD Hybrid Architecture
 QVR Pro uses the database index system for increased performance. SSD can faciliate high database I/O request. But recording data is still kept at HDD. Balancing performance and price.
- RAID

QNAP NAS supports RAID1, RAID5, RAID6, RAID50, RAID60, RAID 10 in order to secure the video footage





A flexible big data storage system



- Single & multiple volume
 - 1. Implementing an architecture that separates the system and the data.
 - 2. First volume by SSD, for QTS and QVR Pro installation.
 - 3. Other Volumes by HDD, for Recording Storage of QVR Pro.
 - 4.Balance performance and price.
- Can Reach PB storage via JBOD
 When the NAS storage space is insufficient, you can use the JBOD to recah PB-level storage space.



As fast as you can



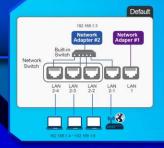
Various of internet interfaces

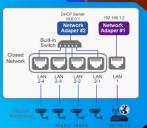
You could separate different camera group, but do not need set different networks

- 10GbE internet

 Good for surpassing Gb camera throughput.
- Virtual Switch

QVR Pro supports setting up Virtual switch and IP address assignment







Combining various QNAP apps



QUSBCam2

This APP allows you to create a survilliance environment easily, you could simply connect a USB camera via QVR Pro Onvif without PoE switch.

Hybrid Backup Sync

Regualrly backup videos to other NAS or FTP by using Hybrid Backup Sync

QVPN Service

QVPN provides you a private Internet access environment to secure your users and servers



OVR PRO





QVR PRO



Home

Problem & Bottleneck

No matter working or travel, when you stay out of home. You want to know your home is still safe and secure.

QNAF





Problem & Bottleneck

Enterprises and companys may experience accidental events, or want to track attendence record.

QVR PRO



Multiple sites

Problem & Bottleneck

When a company owns many locations, the owner need a single entrance surveillance system to monitor multiple retail store.

QVR PRO



Problem & Bottleneck

Manufacturing plants turn to automation. The users at the factory hope to track the video record of production line to improve the efficiency of production.

QNAP



1. Easy Installation



«Simple But Professional»Most home users are not familiar with surveillance systems and they often feel surveillance systems are complex.



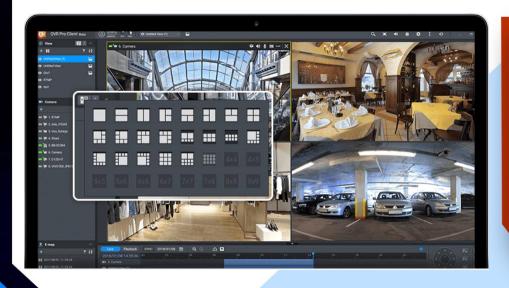
2. Easy Management



《Time is money》
Installation, maintenance and upgrade tasks could take tons of time. When you have more cameras, the load is even more heavier.



3. Playback

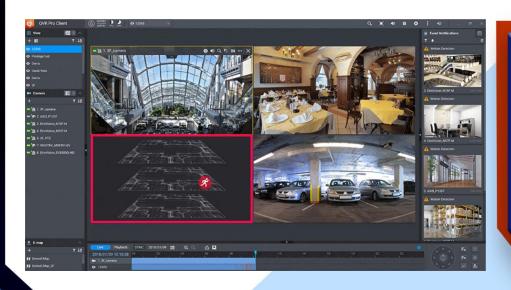


《There is only one truth》
Without surveillance system,
you may not be able to track
down the root cause of the
event. With surveillance, you
could know who did what at
when in where.





4 : Can I know the event taking place now?1



《Quick response is necessary》

Real-time alerts need to be handled ASAP, otherwise, it will be getting worse.





5. out of office, but need to check office situtation (remote monitoring is necessary)



With mobile monitoring support, we allow you to stay close with the thing that matters to you.





1. Support multiple server management







«Need extra hands? »

Users do not want to login multiple server for many times.



2. Flexible privilege design

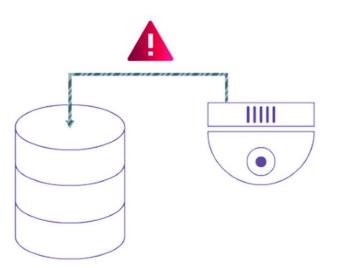


《Everyone plays his role》 Even in home locations everyone plays a different role: you may not want other members of the family to change camera settings.





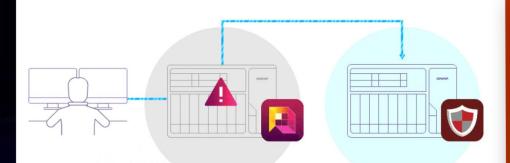
3. The log track system



《Prevention over cure》
For surveillance systems, it's all about cameras. Users hope surveillance could run 24/7 without error. So a complete log track system is very important.



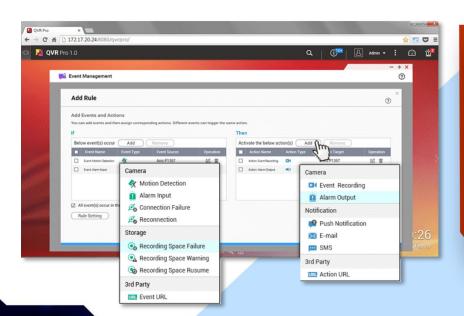
4 : what if HW failure happens (Need to take over the task)



«Something you can rely on»Don't let HW failure ruin your surveillance system.



5. Support third-party integration



(1 + 1 > 2)

QVR Pro could integrate with many 3rd party systems, like POS & access control. Users could still use QVR Pro Client to access 3rd party data.



Break it down into details

	Easy to use	Easy to maintain	Can review the video	Real time notification	Support remote monitoring	
Home	QVR Pro, QVR Pro Client					
Enterprise	QVR Pro, QVR Pro Client					
Multi-Site	QVR Pro, QVR Pro Client					
Factory	QVR Pro, QVR Pro Client					





Break it down into details

	Can manage multiple servers	Independent privilige management	Can record the down time	Can take over recoding task while HW failure
Home	No such need	QVR Pro QVR Center	QVR Pro QVR Center	No such need
Enterprise	QVR Center	QVR Pro QVR Center	QVR Pro QVR Center	QVR Guard
Multi-Site	QVR Center	QVR Pro QVR Center	QVR Pro QVR Center	QVR Guard
Factory	QVR Center	QVR Pro QVR Center	QVR Pro QVR Center	QVR Guard



QNAP solution for business/multi-site management POS **3-Party AI Engine QVR Pro Client** Metadata Metadata Address Central **Management QVR** Center Metadat a Vault Recording **Engine QVR Pro** Remote backup **QVR Pro QVR Pro QVR Pro** Hybrid Backup Sync - RTRR **Store Multiple Store**

QVR PRO

QNAP solution for business/multi-site management





Centralized downward management – downward capability

QVR Center can manage QVR Pro, Surveillance Station and QVR 5.1.3

- ✓ Centralized manage multiple servers in different location
- ✓ No need to upgrade the existing investment and can be centrally managed by QVR Center
- ✓ Share the same client with QVR Pro Client
- **✓** Easy for learning.



