

Q-Series Network Video Recorders (NVRs)



Wavestore Q-Series NVRs deliver a mid-level to enterprise recording, management and control solution for projects that demand missioncritical reliability.

Typically up to 64 network cameras can be connected to each NVR, which are supplied with preinstalled Wavestore's Video Management Software (VMS). Throughput of 1200Mbits/sec is provided with multiple network interfaces to segregate incoming and outgoing network traffic. Ports can be bonded to provide fault-tolerance and maintain high-performance at all times.

Housed in a rack mountable 1U case, **Q-Series** NVRs can accommodate up to 4 x 3.5" hot swappable hard drives to provide up to 40TB of storage. This can typically deliver more than 31 days continuous real-time recording from 64 Full HD cameras **

Choose your Wavestore VMS channel license level

Q-Series NVRs are compatible with all four levels of Wavestore's VMS: Base, Premium, Enterprise and Ultimate, which offer a broad range of capabilities and features to ensure the right solution for any given application.

Server Groups

Multiple **Q-Series** NVRs, as well as other Wavestore NVRs and HVRs, can be configured into a server group of up to 255 units* to satisfy large and distributed installations via a single Graphical User Interface (GUI).

Failover

Q-Series NVRs are failover ready and can be used to protect your live viewing, recorded data and configuration in the event of hardware failure on a primary NVR. Should this occur, the failover server will automatically take the place of the primary NVR by applying the same configuration and continuing to display and record video, all without any operator intervention. Failover is available at Wavestore VMS Enterprise channel license level and above.

HyperRAID™ redundancy and EcoStore™ energy saving

Q-Series NVRs are compatible with Wavestore's HyperRAID™ technology as standard, providing options of RAID5/RAID6 (N+1/N+2) at Wavestore VMS Premium or Enterprise channel license levels. EcoStore™ is also provided at Enterprise channel license level and above, which can save over 80% of HDD energy by spinning down drives not in a read or write state.

Warranty

Q-Series NVRs are supplied with a full three-year return to base hardware warranty.

Pre-installed with Wavestore Video Management Software (VMS)

Whether you are looking for a video only application using a mix of camera technologies, including 360° fisheye and 4K, or a fully integrated solution with third-party providers for Access Control, Video Analytics, Intruder Detection and more, it is possible to create best-in-breed total security solutions that meet exacting specifications for the end-customer with Wavestore's ONVIF conformant truly open-platform VMS.

Coupled with a flexible and cost-effective license model, additional cameras or functionality can easily be added at a later date without disruption to the existing system.

What's more, there's no recurring support contracts to sign up to and technical support is free of charge.

Wavestore's WaveView and WaveView Mobile clients

WaveView is Wavestore's free of cost client software which delivers an intuitive interface designed to offer full, yet simple, control of total security solutions. Authorised WaveView client devices can simply access individual or grouped Wavestore NVRs to give users full control of their security system.

The WaveView Mobile application adds mobile viewing capability enabling operators to view and control their system from iOS or Android devices.

WaveView's leading search and playback capabilities allow operators to quickly review recorded images via an intuitive play bar, providing instantaneous access to exactly the right image from any point in time from the recorded data, even over large amounts of stored data.

Export of video evidence

In just three mouse clicks, operators can export clips from multiple cameras simultaneously to a variety of file formats or create a storyboard of events with a sequence of cameras, including virtual PTZ control of 360° fisheye cameras. Authentication and encryption of video and audio content are also supported.

At a glance

Camera channels

Typically 64 IP

Hard drives

Up to 4 x 3.5"

Storage capacity

Up to 40TB

IP throughput

Up to 1200Mbits/s

PSU

Single (standard), Dual (option)

Failover ready*

HyperRAID™ ready (RAID5/6)*

EcoStore™ HDD spin-down ready*

Key Features

- Highly secure VMS embedded into the Linux Operating System (OS)
- Up to 4096bit encryption with comprehensive cyber-security package provided as standard
- Fully ONVIF conformant and truly open-platform
- Compatible with the world's leading camera brands and video formats
- Compatible with a wide range of camera technology including UHD, 4K, HD, 360° fisheye, panoramic, thermal, HD over analogue and analogue
- Comprehensive third-party integration capability across Intelligent Video
- Analytics, Access Control, Intruder
- Detection and other technologies*

^{*} These features are available from the NVR/ HVR but are dependent on the Wavestore VMS channel license level to operate. Please check specifications prior to ordering.

^{**} Typical expected figures; please make sure the calculations for your specific camera and site requirements are completed before ordering.

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TECHNICAL SPECIFICATION	Q-Series						
Channels & throughput							
Typical no. IP channels	64						
Max. built-in analogue channels	-						
Typical no. audio channels	64						
Max. IP throughput	1200Mbits/sec						
Compression formats	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000						
Typical video storage rate	600 FPS						
Operation							
Operating system	Linux (VMS embedded)						
Operating system drive	64GB SATA DOM						
CPU	Intel Xeon E3-1220v6						
RAM	8GB DDR4 ECC						
Graphics card	On-board						
Connectivity							
Network interfaces	4 x Gb NIC						
USB ports	2 x USB 2.0 2 x USB 3.0						
Monitor outputs	VGA						
Keyboard and mouse	Yes (not supplied)						
Wavestore VMS							
Pre-installed with Wavestore's VMS	Yes						
Wavestore VMS channel license compatibility	All levels						
VMS configuration restore points	Yes						
Multicast support	Yes						
Automatic camera discovery and camera group set-up	Yes						
WaveView Client							
Local client use	Setup only						
Remote client use	Yes						
WaveView Mobile compatible	Yes						

TECHNICAL CRECIFICATION	O Savian				
TECHNICAL SPECIFICATION	Q-Series				
Storage and Hard Drives (HDDs)					
Max. number of HDDs	4				
Min. internal storage	4TB				
Max. internal storage	40TB				
HDD type	Surveillance grade (stand- ard) Enterprise grade (option)				
Hot swap HDD bays	Yes				
EcoStore™ HDD spin-down compatible*	Yes				
Redundancy					
RAID*	HyperRAID (RAID5/6, N+1/2)				
Dual PSU	Option				
Failover compatible*	Yes				
Physical					
Form factor	1U rackmount				
Dimensions (D x W x H)	503mm x 483mm x 43mm				
Weight (with 1 HDD fitted)	15.2kg (approx)				
Weight (each additional HDD)	Approx. 750g				
Operating temperature range	5°C to 40°C 41°F to 104°F				
Operating relative humidity (non-condensing)	20% - 80%				
Power					
Power input	100-240v AC 50/60Hz				
Power consumption with 1HDD	100W typical				
Power consumption (each additional HDD)	9W typical				
Dual-Redundant Power Supply	Optional				
Warranty					
Standard warranty	3-year return to base				

Popular configurations:

Q14-4PU1-HR-4G-NA-S11 Q14-20PU2-HR-4G-NA-S11 Q14-40PU4-HR-4G-NA-D11 1U rack-mount NVR, 4TB storage, 1200Mbps, HyperRAID and EcoStore ready, Single PSU, 3-year warranty 1U rack-mount NVR, 20TB storage, 1200Mbps, HyperRAID and EcoStore ready, Single PSU, 3-year warranty 1U rack-mount NVR, 40TB storage, 1200Mbps, HyperRAID and EcoStore ready, Dual PSU, 3-year warranty

Rear Panel Connections:

- VGA monitor connection (for set-up only)
- Network interface Ports 0,1,2,3
- 2 x 3.0 USB ports

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- Mains input

Build your Q-Series NVR:

	Form Factor	Max No. of HDDs	Storage fitted (TB)	Drive type fitted	No. of HDDs fitted	RAID ports	No. of NICs	Analogue channels	Power supply	CPU options	Graphics options
Q	1 (1U)	4	From 4TB to 40TB in multiples of 4TB, 6TB, 8TB or 10TB	PU (Surveillance grade) GD (Enterprise grade)	1 to 4	HR (HyperRAID ready)	4G (4)	NA (none)	S (single) D (dual)	1 (standard)	1 (standard)

Channel licenses sold separately

The IP-based Security Standard



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