

WS24-Series Network Video Recorders (NVRs)



Wavestore WS24-Series NVR delivers a high-performance, secure, and scalable recording solution for professional video surveillance systems. Integrated with a managed PoE+ switch, it is designed for rapid deployment at the network edge.

Pre-installed with Wavestore's Video Management Software (VMS), the WS24-Series NVR integrates a 24-port PoE+ switch, allowing for direct connection and powering of cameras, simplifying installation.

Housed in a compact 1U rack-mountable case, the WS24-Series NVR can accommodate up to 4 x 3.5" swappable hard drives for extensive storage capacity. This provides a robust platform for continuous real-time recording from a high number of Full HD cameras.

The WS24-Series NVR features an Intel® Core™ i7 processor and multiple network interfaces, including dedicated management and SFP ports, to ensure high-performance video processing and network traffic management.

Choose your Wavestore VMS channel license level

The WS24-Series NVR is 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 WS24-Series NVR units, as well as other Wavestore NVRs, 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).

Warranty

All WS24-Series NVR units are supplied with a 2-year system warranty and a 5-year "Keep Your Hard Drive" 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 Access Control, Video Analytics, Intruder Detection and more, the WS24-Series NVR provides a powerful foundation.

Its cyber-hardened design and integrated PoE+ switch make it the ideal appliance for creating best-in-breed total security solutions at the network edge that meet the exacting specifications for the end-customer, all powered by 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 are 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, including the WS24-Series NVR, 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 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

NVR version: Cyber Hardened Appliance
 Processor: Intel 7th Gen Core i7-7700 Processor
 Hard drives: Up to 4 x 3.5" Swappable
 RAID Options: RAID 0, 1, 5, 10 ready
 LAN Ports: Onboard 24 PoE+ LAN ports
 Memory: 16GB DDR4-2400 (2 x 8GB)
 Warranty: 2-Year System, 5-Year HDD

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 but are dependent on the Wavestore VMS channel license level to operate. Please check specifications prior to ordering.

TECHNICAL SPECIFICATION	WS24-Series
Channels & throughput	
Typical no. IP channels	Dependent on configuration & VMS license
Typical no. audio channels	Dependent on VMS license
Max. IP throughput	300Mb/s
Compression formats	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000
Operation	
Operation system	Linux (VMS embedded)
Operation system drive	256GB M.2 SATA SSD
CPU	Intel 7th Gen Core i7-7700 Processor
RAM	16GB DDR4-2400 (2 x 8GB)
Graphics Card	On-board
Connectivity	
Network Interfaces	24 x 10/100M PoE+ Ports (802.3at) 1 x 10/100/1000M LAN Port 1 x RJ45 Management Port 1 x SFP (1000M) Port
USB ports	3 x USB 3.0
Monitor outputs (connect one only)	1 x HDMI, 1 x DP
Alarm I/O module	N/A
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
Wavestore Client	
Local client use	Yes (setup only)
Remote client use	Yes
WaveView Mobile compatible	Yes

TECHNICAL SPECIFICATION	WS24-Series
Storage and Hard Drives (HDDs)	
Max. number of HDDs	4
Min. internal storage	8TB
Max. Internal storage	Dependent on HDD capacity
HDD type	Surveillance grade
Hot swap HDD bays	Yes
Redundancy	
RAID	Software RAID 0, 1, 5, 10
Dual PSU	Single Power
Failover compatible	Yes
Physical	
Form factor	1U rackmount
Dimensions (D x W x H)	486mm x 483mm x 44mm
Weight (without packing)	14kg (approx.)
Weight (each additional HDD)	Approx. 680g (1.5lbs)
Operating temperature range	0°C to 40°C 32°F to 104°F
Operating relative humidity (non-condensing)	10% - 90%
Power	
Power input	100-240v AC 50/60Hz
Power consumption with 1HDD	260W Power Budget
Power consumption (each additional HDD)	8W
Warranty	
Standard warranty	2-Year System Warranty, 5-Year Keep Your Hard Drive Warranty

Rear Panel Connections:

- 1 x HDMI port
- 1 x DP port
- 2 x USB 3.0 ports
- 1 x RJ45 Management Port
- 1 x SFP Port
- 24 x 10/100M 802.3at PoE ports
- Mains input

Popular configurations:

- WS24-32PU4-NR-NA-S11** 1U, 24 PoE+ ports, 32TB (4x8TB HDD), 2YR NBD Warranty
- WS24-48PU4-NR-NA-S11** 1U, 24 PoE+ ports, 48TB (4x12TB HDD), 2YR NBD Warranty
- WS24-64PU4-NR-NA-S11** 1U, 24 PoE+ ports, 64TB (4x16TB HDD), 2YR NBD Warranty
- WS24-80PU4-NR-NA-S11** 1U, 24 PoE+ ports, 80TB (4x20TB HDD), 2YR NBD Warranty

Build your WS24-Series NVR:

Series	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
WS24	1(1U)	4	From 32TB to 80TB in multiples of 8-20TB	PU (Surveillance grade)	1 to 4	SW (0,1,5,10)	24 PoE+ 1GbE 1 SFP	NA (none)	S (single)	1 (standard)	1 (standard)

NVR available only in the US and Canada

Channel licenses sold separately