![wavestore logo - Innovation with integrity]

PT-Series
Network Video Recorders (NVRs)

Wavestore PT-Series server/ storage NVRs deliver a recording, management and control solution for small and medium sized security and video surveillance projects.

Typically, at least 48 network cameras can be connected to each NVR, which are supplied pre-installed with Wavestore's Video Management Software (VMS). Housed in a compact mini-tower case, suitable for desktop or shelf mounting, PT-Series NVRs can accommodate up to 4 x 3.5" hot swappable hard drives to provide up to 40TB of storage. This can deliver 45 days continuous real-time recording from 48 Full HD cameras in a typical installation**.

WaveView client software can be run straight from the NVR to monitor live or recorded video, making it an ideal single-box solution. The PT-Series has a throughput of up to 300Mbits/sec and comes with dual network interfaces to segregate incoming and outgoing network traffic. The ports can be bonded to provide fault-tolerance for perfect performance at all times.

Choose your Wavestore VMS channel license level

PT-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 PT-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).

HyperRAID™ redundancy and EcoStore™ energy saving

PT-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

All PT-Series NVRs are supplied with a full three-year return to base hardware warranty, extendable to five years.

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 48 IP

Hard drives
Up to 4 x 3.5"

Storage capacity
Up to 40TB

IP throughput
Up to 300Mbits/s

WaveView client operation from the NVR

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.

PT-Series Network Video Recorders (NVRs)

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TECHNICAL SPECIFICATION	PT-Series
Channels & throughput	
Typical no. IP channels	48
Max. built-in analogue channels	-
Typical no. audio channels	48
Max. IP throughput	300Mbits/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 i5 7500
RAM	8GB DDR4 Non-ECC
Graphics card	NVIDIA GeForce GT1030
Connectivity	
Network interfaces	2 x Gb NIC
USB ports	4 x USB 3.0
Monitor outputs (connect one only)	HDMI DisplayPort
Alarm I/O module	Optional
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	Yes (up to 15Mbits/sec)
Remote client use	Yes
WaveView Mobile compatible	Yes

TECHNICAL SPECIFICATION	PT-Series
Storage and Hard Drives (HDDs)	
Max. number of HDDs	4
Min. internal storage	4TB
Max. internal storage	40TB
HDD type	Surveillance grade (standard) Enterprise grade (option)
Hot swap HDD bays	Yes
EcoStore™ HDD spin-down compatible*	Yes
Redundancy	
RAID*	HyperRAID (RAID5/6, N+1/2)
Dual PSU	-
Failover compatible	-
Physical	
Form factor	Mini Tower
Dimensions (D x W x H)	280mm x 210mm x 240mm
Weight (with 1 HDD fitted)	5.7kg (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
Warranty	
Standard warranty	3-year return to base
Extended warranty	Up to 5-years

Rear Panel Connections:

- HDMI port
- DisplayPort
- Network interface Ports 0,1
- 4 x 3.0 USB ports
- Mains input

Popular configurations:

PT4-8PU1-HR-2G-NA-S11	Mini tower NVR, 8TB storage, 300Mbps, HyperRAID and EcoStore ready, 3-year warranty
PT4-20PU2-HR-2G-NA-S11	Mini tower NVR, 20TB storage, 300Mbps, HyperRAID and EcoStore ready, 3-year warranty
PT4-40PU4-HR-2G-NA-S11	Mini tower NVR, 40TB storage, 300Mbps, HyperRAID and EcoStore ready, 3-year warranty

Build your PT-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
P	T (Tower)	4	From 4TB to 40TB in multiples of 4TB, 6TB, 8TB, or 10TB	PU (Surveillance grade) GD (Enterprise grade	1 to 4	HR (HyperRAID)	2G (2)	NA (none)	S (single)	1 (standard)	1 (standard)

Channel licenses sold separately

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Onvif | The IP-based Security Standard

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