



At a glance

NVR version: typically 32 IP channels

Hybrid version: 16 analogue and typically up to 16 IP channels

Hard drives: up to 2 x 3.5"

Storage capacity: up to 20TB

IP throughput: up to 300Mbps/s

EcoStore™ HDD spin-down ready*



E-Series Network Video Recorders (NVRs) and Hybrid Video Recorders (HVRs)

Wavestore **E-Series** server/storage NVRs/HVRs deliver a professional recording, management and control solution for small to medium size security and video surveillance systems. Typically at least 32 network cameras can be connected to the NVRs/HVRs, which are supplied pre-installed with Wavestore's Video Management Software (VMS). There is also a hybrid option, which allows up to 16 analogue and at least 16 IP cameras to be connected simultaneously.

Housed in a rack mountable 1U case, **E-Series** NVRs/HVRs can accommodate 2 x 3.5" internal hard drives to provide up to 20TB of storage. This can deliver more than 31 days continuous real-time recording from 32 Full HD cameras in a typical installation**.

The **E-Series** has a throughput of up to 300Mbps/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

E-Series NVRs/HVRs 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 **E-Series** NVRs/HVRs, 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).

EcoStore energy saving

E-Series NVRs/HVRs are compatible with Wavestore's unique EcoStore™ technology 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 **E-Series** NVRs/HVRs 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/HVRs 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.

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.

| TECHNICAL SPECIFICATION | E-Series |
|--|---|
| Channels & throughput | |
| Typical no. IP channels | 32 (NVR version) 16 (HVR version) |
| Max. built-in analogue channels | 16 (HVR version) |
| Typical no. audio channels | 32 (NVR version) 16 (HVR version) |
| Max. IP throughput | 300Mbps/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 i3 6100 |
| RAM | 8GB DDR4 ECC |
| Graphics card | On-board |
| Connectivity | |
| Network interfaces | 2 x Gb NIC |
| USB ports | 2 x USB 2.0 2 x USB 3.0 |
| Monitor outputs (connect one only) | DVI-I Display Port |
| 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 (setup only) |
| Remote client use | Yes |
| WaveView Mobile compatible | Yes |

Popular configurations:

E12-8PU1-NR-2G-16A-S11

1U rackmount HVR, 8TB storage, 300Mbps, EcoStore ready, 3-year warranty

E12-8PU1-NR-2G-NA-S11

1U rackmount NVR, 8TB storage, 300Mbps, EcoStore ready, 3-year warranty

E12-20PU2-NR-2G-NA-S11

1U rackmount NVR, 20TB storage, 300Mbps, EcoStore ready, 3-year warranty

Rear Panel Connections:

- HDMI port
- Display Port
- Network interface Ports 0,1
- 2 x 3.0 USB ports
- 2 x 2.0 USB ports
- Mains input

Build your E-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 |
|--------|-------------|-----------------|--|--|--------------------|------------|-------------|-------------------|--------------|--------------|------------------|
| E | 1 (1U) | 2 | From 4TB to 200TB in multiples of 4TB, 6TB, 8TB, or 10TB | PU (Surveillance grade) GD (Enterprise grade) | 1 to 2 | NR (none) | 2G (2) | NA (none) | S (single) | 1 (standard) | 1 (standard) |

Channel licenses sold separately



Email: info@wavestore.com

Visit: wavestore.com

Specifications may change without notice.
Version: WST-0064-04

GLOBAL HQ (EMEA)

Wavestore Global Ltd.

Tel: +44 (0) 1895 527 127

USA/CANADA

Wavestore Americas Inc.

Toll-free: 855-526-8887



MIDDLE EAST

Wavestore Middle East

Tel: +971 (4)881 2903