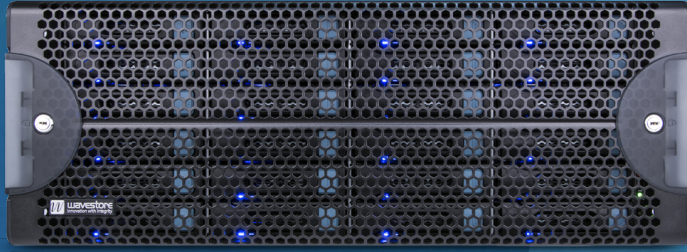


PRODUCT DATASHEET



At a glance:

- **NVR channels: up to 254 IP**
- **HVR channels: up to 222 IP & 32 analogue**
- **Hard drives: up to 24 x 3.5"**
- **Internal storage: up to 144TB**
- **IP throughput: up to 2,400Mbps/s**

X-Series Servers

Wavestore **X-Series** servers deliver an enterprise recording, management and control solution for large size projects where high security and top reliability demands are specified. With the ability to connect up to 254 network cameras (NVR models) or up to 222 IP and 32 analogue cameras (hybrid models), the **X-Series** can deliver throughput of up to 2,400Mbps/sec. Dual power supply (PSU) and RAID storage are provided as standard.

Rack mountable, **X-Series** servers can accommodate up to 24 x 3.5" internal hot swappable hard drives to provide up to 144TB of storage and thanks to industry leading throughput, users can typically expect 31 days continuous real-time recording from 128 Full HD cameras**. A wide mix of camera technologies, including 360° fisheye, are supported and customisable recording rates can be set per individual channel for both normal and 'on alarm' recording.

Additionally, multiple **X-Series** servers can be configured into server groups* to satisfy large and distributed installations via a single Graphical User Interface (GUI).

Initial setup allows connection of monitor, mouse and keyboard, whilst day-to-day operation requires remote client device connections. All **X-Series** servers are provided with a full three year return to base hardware warranty.

Wavestore Video Management Software (VMS)

X-Series servers are compatible with all three levels of Wavestore's VMS: Base, Premium, and Enterprise, which offer a broad range of capabilities to ensure the right solution for any application. Coupled with a flexible and cost-effective licence model, additional cameras or

functionality can easily be added at a later date without disruption to the existing system.

Full compliance with ONVIF, combined with Wavestore's 'any video, any format' philosophy enables users to benefit from camera technologies and compression formats offered by leading manufacturers.

In addition, integration with third-party providers for Access Control, Video Analytics, Alarm, PIDs & Sensor, Audio and EPOS & Text systems makes it possible to create best-in-breed total security solutions that meet exacting specifications for the end-customer*.

WaveView: one screen, total control

Known as 'the operators' favourite', WaveView is Wavestore's licence-free 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 **X-Series** servers 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 archived data, even over large amounts of stored data.

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:

- Wavestore's VMS is embedded directly onto the Linux operating system providing ultra-secure robust and reliable operation
- High megapixel, UHD, 4K, HD, MP, 360° fisheye, thermal and analogue*** camera support
- Leading client side 360° fisheye camera de-warping and ability to create multiple 'virtual cameras' from just one camera stream
- H.264, MJPEG, MPEG-2, MPEG-4, MxPEG and JPEG2000 video formats supported
- Host of additional third-party integration options covering Access Control, Video Analytics and other technologies
- View live and playback recorded video on the same screen simultaneously
- Configurable camera layouts by size, format and position
- Instantaneous video recall with 3-click export process - even from multiple cameras
- Instantly transmit video clips associated with an event
- Lip-sync audio as standard
- Specialist and bespoke device integration available via the WaveStar integration service*
- Truly independent, open platform and ONVIF conformant

* VMS licence level dependent

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

*** Analogue cameras via compatible third-party video encoder or build-in analogue capture cards (hybrid option)

TECHNICAL SPECIFICATION	X-Series
Max. IP channels	254
Max. analogue channels (hybrid models)	32
Max. total channels (NVR models /hybrid models)	254
Max. audio channels	254
Max. IP throughput	2,400Mbps/sec
Compression formats	H.264, MJPEG, MPEG-2, MPEG-4, MxPEG and JPEG2000
Typical video storage rate	1600 FPS
Max. number of Hard Drive Disks (HDD)	24
Max. internal storage (with 6TB drives)	144TB
Hot swap HDD bays	Yes
Storage redundancy (RAID 5, RAID 6 / N+1, N+2)	Yes
Redundant PSU (dual)	Yes
Form factor	4U rack mount case
Dimensions (D x W x H)	575mm x 483mm x 178mm
Weight (with 1 HDD fitted)	20.2Kg

TECHNICAL SPECIFICATION	X-Series
Operating temperature range	5 to 40°C
Operating system	Linux
Operating system drive	60GB SATA SSD
CPU	i3 4360
RAM	4GB DDR3 ECC
Network interfaces	4 x Gb NIC
Additional network interfaces (optional)	4 x Gb NIC
USB ports	6 x USB2.0
Monitor output	VGA x 1
Alarm I/O module	Optional
Keyboard and mouse	Not Supplied
Local client use	Setup
Power input	100-240v AC 50/60Hz
Power consumption	120W typical
Wavestore VMS software compatibility	Base, Premium, Enterprise
Standard warranty	3 years (see warranty statement)

Build your X-Series server:

Series	Form Factor	Max No. of HDDs	Storage fitted (TB)	Drive type fitted	No. of drives fitted	RAID ports	No. of NICs	Analogue channels	Power supply	CPU options	Graphics options	IP Licenses per server
X	4 (4U)	24	4, 6, 8, 12, 16, 18, 20, 24, 28, 30, 32, 36, 40, 42, 44, 48, 52, 54, 56, 60, 64, 66, 68, 72, 76, 78, 80, 84, 88, 90, 92, 96, 102, 108, 114, 120, 126, 132, 138, 144	GD (WD Gold)	1 to 24	R40 (4 int. 0 ext.)	4G (4) 6G (6) 8G (8)	NA (none) 16A (16) 32A (32)	D (dual)	1 (i3 4360)	1 (standard)	1 to 24 B (Base) 1 to 128 P (Premium) 1 to 254 E (Enterprise)

X-Series servers with WD Purple NV drives are available on request

Popular configurations:

- X424-4DG1-R40-4G-NA-D11-10B** X-Series rack-mount server, 1 x 4TB WD Gold HDD, 4 internal and 0 external RAID ports, dual PSU, 1,200Mbps/sec, 100-240v AC with 10 Base IP licenses
- X424-6GD1-R40-4G-NA-D11-10P** X-Series rack-mount server, 1 x 6TB WD Gold HDD, 4 internal and 0 external RAID ports, dual PSU, 1,200Mbps/sec, 100-240v AC with 10 Premium IP licenses
- X424-108GD18-R40-4G-NA-D11-64P** X-Series rack-mount server, 18 x 6TB WD Gold HDDs, 4 internal and 0 external RAID ports, dual PSU, 1200Mbps/sec, 100-240v AC with 64 Premium IP licenses
- X424-144GD24-R40-4G-32A-D11-100P** X-Series rack-mount server, 24 x 6TB WD Gold HDDs, 4 internal and 0 external RAID ports, 32 analogue channels, dual PSU, 1200Mbps/sec, 100-240v AC with 100 Premium IP licenses



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