



Wavestore VMS software overview

Sitting at the heart of a security solution, Wavestore's open platform Video Management Software (VMS) offers so much more than just industry leading video and recording management. As well as bringing together audio, data and video, including images from the very latest ultra-high definition and 360° fish eye cameras, Wavestore provides a platform that makes integration between disparate third-party technologies simple. Our VMS unlocks a host of business intelligence and operational benefits and enables the deployment of technology such as intelligent video analytics, whilst augmenting often 'dumb' systems with video and ease of control to create a much more powerful and effective total security solution.

Unlock the full potential of your integrated security solution with Wavestore



CAMERAS

Any video, any format

Integrated with thousands of cameras, including high-megapixel, UHD, 4K, HD, MP, HD-over-coax, 360° fisheye, thermal and analogue from all leading vendors

ONVIF | The IP-based Security Standard

ACCESS CONTROL

Access, granted

- Instantaneously retrieve recorded images of any access control activity
- Search by text, door location and activity
- Proactively address unauthorised attempts to enter a restricted area
- Full integration with a host of Access Control vendors

VIDEO ANALYTICS

Intelligent video, empowering systems

- Benefit from full integration with best-in-breed analytics providers
- ANPR, Facial Recognition, Heat Mapping, People Counting, Advanced Motion Detection and many more
- On-camera or dedicated server analytic engine compatibility

PIDS AND SENSORS

Detect, decide

- Integration with a wide range of PID technology including fibre optics
- Simple setup of powerful rules-based actions from sensor triggers

AUDIO

Listen, communicate

- Integrates with cost-effective, standard audio equipment
- Associate multiple microphones to video from any camera using external or in-camera microphones
- Enable two-way communication

EPOS and Text

Transact, verify

- Add the power of video to text output
- Search by any relevant text field, such as item or value

WaveStar

Open, for business

- Wavestore's specialist integration service
- Integrate practically anything into your wavestore solution
- Easy to deploy across your entire system via a simple upload
- Ensures future-proof operation. Integrate additional devices and systems as your solution grows over time



WAVESTORE RECORDING OPTIONS

Powerful storage and control

Wavestore offers its own range of high-performance recording and storage servers and appliances from entry level through to enterprise level. Available in pure IP or IP/Analogue Hybrid formats, each server and appliance is optimised for use with any level of Wavestore's VMS (Base, Premium & Enterprise), making it possible to create the perfect solution for virtually any application.

Please visit Wavestore.com to view our full range of servers and appliances

THIRD PARTY RECORDING DEVICES

Flexible storage and control

Wavestore's VMS can be installed on a wide range of third-party professional recording and storage appliances. What's more, Wavestore operates a comprehensive third-party hardware certification programme to ensure full compatibility and deliver peace of mind.

One screen, total control...

WAVEVIEW CLIENT

Manage your entire system from just one screen

- Powerful search functionality with instant video retrieval
- 3-click evidential export
- Fully customisable layout allowing simultaneous viewing of live and recorded video
- Minimal training required
- WaveView client compatible with Windows and Linux

WAVEVIEW MOBILE CLIENT

View live & recorded video via iOS and Android devices

- View, control & monitor multiple security feeds 'on the move'
- View live and recorded video with full playback control
- Instant 'Time Jump' video recall feature
- Customisable multi-screen layouts
- Gesture Pan/Tilt/Zoom control
- Available on Android and iOS



Visit wavestore.com for a full list of third party integrations

Choose your Wavestore VMS level

Version 6	Base	Premium	Enterprise
User Management			
Max cameras per server	24	128	254
Max concurrent client application connections per server	2	5	Unlimited
Max simultaneous server connections per client application (Server Groups)	1	5	255
Video Management Software (VMS)			
Simple and secure DVD or USB install of complete Wavestore VMS embedded onto Linux OS	✓	✓	✓
Ability to run server and client application on a single appliance*	✓	✓	✓
Advanced certified image authentication (watermarking)	-	Optional	Optional
Image encryption	✓	✓	✓
Multiple languages supported	✓	✓	✓
Unified multiple server health monitoring (within server group)	-	✓	✓
LDAP / Active Directory support	-	-	✓
Camera Integration			
IP, HD, 4K, Megapixel, HD-SDI, Thermal and Analogue camera integration	✓	✓	✓
ONVIF conformant	✓	✓	✓
Automatic ONVIF camera discovery	✓	✓	✓
Open architecture for third party camera integration	✓	✓	✓
H.264, MJPEG, MPEG-4, MPEG-2, MxPEG (Mobotix), JPEG2000 video formats support	✓	✓	✓
360° fisheye camera integration (including Oncam and ImmerVision)	✓	✓	✓
Very high Megapixel camera support (above 19MP)	-	Optional	Optional
Metadata Engine			
Enables other third-party integrations and metadata search, including third-party event and EPoS transaction text search	-	✓	✓
Other Third Party Integrations			
Video Analytics (server and on-camera)			
People Counting	-	Optional	Optional
Crowd Monitoring	-	Optional	Optional
Heat Maps	-	Optional	Optional
Facial Recognition	-	Optional	Optional
Advanced motion detection	-	Optional	Optional
i-LIDS approved detection analytics	-	Optional	Optional
Text based analytics			
Electronic Point of Sale (EPoS)	-	Optional	Optional
Automatic Number Plate Recognition (ANPR/LPR)	-	Optional	Optional
Access Control			
Access Control systems	-	Optional	Optional
Perimeter Intrusion Detection Systems (PIDS)			
Optical fibre based systems	-	Optional	Optional
Physical Security Information Management (PSIM)			
Full command & control systems	-	Optional	Optional
Audio			
Built-in camera, analogue capture, on-board server and other PC audio sub-systems	✓	✓	✓

*subject to meeting minimum hardware specification

Version 6	Base	Premium	Enterprise
Remote Monitoring			
Remote monitoring and RVRCS	-	Optional	Optional
Asset Protection			
Asset tracking systems	-	Optional	Optional
Specialist Integration			
WaveStar bespoke device integration service	-	Optional	Optional
WaveView Client			
Licence-free WaveView client application compatible with Linux and Windows	✓	✓	✓
Fully customisable Graphical User Interface (GUI)	✓	✓	✓
Simultaneously display live and playback images on the same workspace	✓	✓	✓
Configurable size, aspect ratio and position of camera layouts	✓	✓	✓
User defined custom camera layouts	✓	✓	✓
Simple synchronisation of multiple recorded views	✓	✓	✓
3-Axis mouse or joystick support	✓	✓	✓
Time stamped synchronised replay of all camera images	✓	✓	✓
Client de-warping of any 360° fisheye cameras in live, playback and export	✓	✓	✓
Unlimited configurable views from any single 360° fisheye stream	✓	✓	✓
Version 6 WaveView client compatible with Wavestore Version 5 VMS	✓	✓	✓
Interactive Maps	-	✓	✓
Exporting video from the WaveView Client			
3-click evidential export of any recorded video	✓	✓	✓
Export complete 360° video for full post-event analysis	✓	✓	✓
Multiple simultaneous camera video export	✓	✓	✓
Export to a host of video and audio formats (incl. wsb, dvd, mpeg, avi, mp4, wmv etc.)	✓	✓	✓
WaveView Mobile Client			
Licence-free mobile client application for Android and iOS devices	✓	✓	✓
Recording Management			
Configurable recording schedules	✓	✓	✓
Native quality image recording	✓	✓	✓
Configurable multi-track recording per camera	✓	✓	✓
Time-lapse recording function (recording i-frames only)	✓	✓	✓
Lip-sync audio recording	✓	✓	✓
Native 360° fisheye camera recording	✓	✓	✓
iSCSI support	✓	✓	✓
Event-driven video switching	✓	✓	✓
RAID capability up to RAID6 (N+2 redundancy)	-	✓	✓
Failover	-	-	✓
Search Engine			
Instantaneous retrieval of recorded video via playback slider	✓	✓	✓
Global text search of operator event notes	✓	✓	✓
Event/Alarm search and instant replay	-	✓	✓
Metadata search	-	✓	✓
Alarm and Event Management Engine			
User configurable event and alarm management	✓	✓	✓
Configurable event email notifications	✓	✓	✓
Manual and/or automatic digital output trigger	✓	✓	✓
Flexible cause & action rules engine	✓	✓	✓
Evidential video locking	✓	✓	✓
Real time on screen event list	-	✓	✓
Updates			
Wavestore software upgrades (within current version)	2 included	2 included	2 included
Easy upgrade to next level of software (Base to Premium, Premium to Enterprise for example)	✓	✓	N/A
Software Service Agreement (SSA) for ongoing software upgrades (provided in blocks of 6)	Optional	Optional	Optional

*subject to meeting minimum hardware specification

Three unique levels of V6 to meet your needs

With a simple 'buy-once' licence model, Wavestore's VMS is provided as a single software package that gives you the flexibility to choose from Base, Premium or Enterprise levels in order to match your project's requirements. Additionally, as your system grows, you can simply add more channel licenses or upgrade to the next level of Wavestore's VMS via a simple licence key upgrade, without the need to reinstall the software.



Features of Wavestore's VMS



One screen, total control

Simultaneously view, control and manage live video, recorded footage and integrated devices, all from one screen, all at the same time, to create a fully scalable and powerful total security solution.

Any video, any format

Wavestore is compatible with a wide range of video technologies making it possible to have any combination of camera types and images displayed on screen and recorded at the same time, even with a mix of compression formats including H.264, MJPEG, MPEG-2, MPEG-4, MxPEG and JPEG2000.



Leading 360° dewarping as standard



Wavestore delivers powerful client-side dewarping as standard across all levels of its VMS. Compatible with a multitude of camera brands, now including Immervision and OnCam full SDK integration, you need never miss a thing with full 360° recording providing complete live or recorded image interrogation as part of your overall solution.

Rapid retrieval, effective decisions

Thanks to Wavestore's unique architecture, users are able to search multiple petabytes of storage by text, alarm/event or via an intuitive play-bar with pin-point accuracy to instantaneously retrieve and play back recorded video.

Open, for business

Future-proof your system with Wavestore's truly independent open platform VMS and benefit from best-in-breed integrated solutions which unlock real benefits and maximise return on investment regardless of industry.



Wide Technology Partner eco-system

Wavestore operates an ever expanding Technology Partner programme allowing partners to benefit from seamless integrations across a host of best-in-breed brands encompassing cameras, access control, video analytics and much more. In addition, Wavestore is fully compliant with ONVIF profile S bringing enhanced flexibility to camera choice.



THE LINUX ADVANTAGE

- Industry leading throughput
- Wavestore VMS embedded into the Linux Operating System
- Save on processor & hardware requirements
- Low energy and maintenance costs
- Lightning quick updates



Efficient management, unlimited data

Wavestore utilises an ultra-robust proprietary Large Allocation Storage System (LASS) to deliver industry-leading throughput, high volume recording rates and efficient HDD usage of up to 98% of disk size. It also empowers Wavestore's lightning fast search functionality – which is up to 95% faster than that of other VMS platforms, even across storage of multiple PetaBytes.

Data integrity, better evidence

Wavestore's VMS is engineered with security and resilience at its very heart utilising a robust anti-corruption file system coupled with 4096bit encryption to provide peace of mind that your data remains safe and secure at all times.

3-click evidential export

A fully stitched-together sequence of events from any number of cameras can be exported in just three clicks to a wide range of video formats.



1. Set start point of video

2. Set end point of video

3. Export

Multiple track recording

Up to three video, one audio and one metadata track can be utilised per camera channel. Each track can be configured to retain data for different lengths of time and in different formats, image rates and resolutions. They can also be set up to record on continuous, motion or alarm modes, and on different hardware for redundancy and to protect data.

One level of support, always excellent

Wavestore's reputation is built on providing excellent products backed by service to match. With a 3 or 5 year optional Service Level Agreement (SLA), you can take advantage of new software features and functionality as they are introduced to unlock powerful new benefits well into the future.

WaveStar specialist integration service

Wavestore's unique WaveStar scripting service makes quick and cost-effective integration possible for a wide range of devices. Virtually anything with an output can be integrated, allowing events and metadata to be captured, events to be triggered and associated video interrogated.

Intelligent video, empowering systems

Wavestore's VMS brings together video, audio and data from disparate devices onto a single future-proof platform, enabling powerful live operation and post-event search functionality across a host of technologies. Operators can manage alarms and events either in real time as they happen or via post-event interrogation, including retrieval of associated video and audio via text searches. Video from time-synchronised events can be easily stitched together using Wavestore's 3-click evidential export function from any number of cameras, to a wide range of video formats.



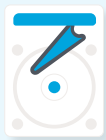


The future of VMS has arrived



The operator's favourite GUI just got better

WaveView client has been updated based on customer feedback, to include a fresh new look featuring updated icons and graphics, making it even more intuitive to use. The addition of dockable components and configurability of the live event stream window provide an enhanced user experience, whilst automatic login and automatic opening of an operator's chosen layout, delivers convenience.



Leading support for larger systems

Now with the ability to handle more than 250 channels per server and support for up to 16 PetaBytes of images per volume, (the equivalent of approximately 7.4 million days at 25 images per second, or over 250 cameras for 80 years at 25 images per second), V6 sets a new industry benchmark for Enterprise level applications.

Intelligent Failover



Now available at Enterprise level as standard to deliver resilience and peace of mind in mission-critical applications and to ensure uninterrupted recording should a problem occur.



Taking security to the next level

Wavestore's VMS is independently security tested as part of its ongoing security programme and V6 includes a new high-security password policy system alongside enhanced encryption and other security updates provide protection against unauthorised access and deliver a hard stop against any hacking attempts.



Increased channel support


Thanks to enhanced efficiency in the way video is handled within V6, more than 250 channels can now be connected to each server or appliance, saving investment on hardware.

Base: up to 24 channels per server/appliance

Premium: up to 128 channels per server/appliance

Enterprise: up to 254 channels per server/appliance

But that's not all, other new features include...

-  Simplified installation of Wavestore's VMS onto your server or appliance, now from either a USB memory stick or a DVD. If purchasing a Wavestore server or appliance, the VMS comes pre-loaded
-  Full support for ImmerVision 360° panomorph optics and Oncam 360° cameras now added
-  Additional parameters for 360° camera set-up to take into account wall angle and camera orientation
-  Introduction of camera shortcut keys using keyboard number pad



LDAP and Active Directory has been made even easier to set up via on-screen prompts, available as standard at Enterprise level



Improvements to I/O device set-up and the ability to configure outputs via Axis VAPIX



Numerous improvements to network set-up, including support for port bonding and jumbo frames



Improved hardware driver support for third-party servers and appliances



Support for up to 32 Network Interface Cards (NIC) within a server or appliance, delivering industry leading throughput



Improved support for audio devices



A host of additional third-party integrations

Visit Wavestore.com/demo and discover for yourself the power and simplicity of V6



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