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

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.

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.

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

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.

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 PIR 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

Onvif
Truly open platform

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

ABC
Choose your Wavestore VMS level

<table>
<thead>
<tr>
<th>Version 6</th>
<th>Base</th>
<th>Premium</th>
<th>Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User Management</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max cameras per server</td>
<td>24</td>
<td>128</td>
<td>256</td>
</tr>
<tr>
<td>Max concurrent client application connections per server</td>
<td>2</td>
<td>5</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Max simultaneous server connections per client application (Server Groups)</td>
<td>1</td>
<td>5</td>
<td>255</td>
</tr>
<tr>
<td><strong>Video Management Software (VMS)</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Simple and secure DVD or USB install of complete Wavestore VMS embedded onto Linux OS</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>Ability to run server and client application on a single appliance</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced certified image authentication (watermarking)</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>Image encryption</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple languages supported</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unified multiple server health monitoring (within server group)</td>
<td>- ✓ ✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LDAP / Active Directory support</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Camera Integration</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP, HD, 4K, Megapixel, HD-SDI, Thermal and Analogue camera integration</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>ONVIF conformance</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>Automatic ONVIF camera discovery</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>Open architecture for third party camera integration</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>H.264, MJPEG, MPEG-4, MPEG-2, MJPEG (Mobotix), JPEG2000 video formats support</td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
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<tr>
<td>360° Fisheye camera integration (including Oncam and Immunovision)</td>
<td>✓ ✓ ✓</td>
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<tr>
<td>Very high Megapixel camera support (above 19MP)</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Metadata Engine</strong></td>
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<tr>
<td>Enables other third party integrations and metadata search, including third-party event and EPoS transaction text search</td>
<td>-</td>
<td>✓ ✓ ✓</td>
<td></td>
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<tr>
<td><strong>Video Analytics (server and on-camera)</strong></td>
<td></td>
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<td></td>
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<tr>
<td>People Counting</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Crowd Monitoring</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Heat Maps</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Facial Recognition</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>Advanced motion detection</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>i-LIDS approved detection analytics</td>
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<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Text based analytics</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Electronic Point of Sale (EPOS)</td>
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<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Automatic Number Plate Recognition (ANPR/LPR)</td>
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<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Access Control</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Access Control systems</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Perimeter Intrusion Detection Systems (PIDS)</strong></td>
<td></td>
<td></td>
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<tr>
<td>Optical fibre based systems</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Physical Security Information Management (PSIM)</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Full command &amp; control systems</td>
<td>-</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Built-in camera, analogue capture, on-board server and other PC audio sub-systems</td>
<td>✓ ✓ ✓</td>
<td></td>
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</tbody>
</table>

*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 360° Fisheye 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.

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 can also be set up to record on continuous, motion or alarm modes, and on different hardware for redundancy and to protect data.

Data integrity, better evidence
Wavestore’s VMS is embedded within the Linux Operating System. It is very fast, utilising a robust and corruption-free file system coupled with robust encryption to ensure every video you record stays true, 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.

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 allows Wavestore’s lightning fast search functionality – which is up to 95% faster than that of other VMS platforms, even across storage of multiple PetaBytes.

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

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 other profile’s bringing enhanced flexibility to camera choice.

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
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.

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.

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.

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 throughout
- 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