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Wavestore Video Management Software (VMS) and Server/Storage Overview

It's never been easier to select the perfect Wavestore VMS solution for your application.

1. Choose the required level of Wavestore VMS and quantity of camera channels required
2. Add any integration modules needed for operation with a host of third-party devices and sub-systems
3. If you would like to use Wavestore's own server and storage NVR solutions, please select the required unit from the back page
4. That's it! Technical support is available for our trained partners and license upgrades can be purchased at any time to grow your Wavestore solution in line with your business requirements

Choose your Wavestore VMS level

Version 6.52	Base	Premium	Enterprise	Ultimate
User Management				
Max. cameras per deployment	Unlimited	Unlimited	Unlimited	Unlimited
Max. cameras per individual server	32	128	254	254
Max. concurrent WaveView & WaveView Mobile client connections per server	2	Unlimited	Unlimited	Unlimited
Max. number of servers that can be accessed from a single client connection (Server Groups)	1	5	255	255
Video Management Software (VMS)				
Multiple languages supported	✓	✓	✓	✓
Multiscreen 'Smart Search' retrospective motion and video analytics search and on-server Video Motion Detection (VMD)	✓	✓	✓	✓
IPv4, IPv6, Multicast and QoS (ToS, DS, DSCP DiffServ, TClass and CoS) Support	✓	✓	✓	✓
Server and camera health monitoring (with optional Wavestore Health Monitor)	✓	✓	✓	✓
Virtual Machine compatible (ESXi) via network or dongle licensing	-	-	✓	✓
LDAP / Active Directory support	-	-	✓	✓
Wavestore as an Application	-	✓	✓	✓
Camera and Encoder Integration				
IP, HD, 4K, Megapixel, Thermal, HD Analogue and Analogue camera integration	✓	✓	✓	✓
ONVIF Profile-S conformant with TLS add-on support	✓	✓	✓	✓
Automatic camera video, audio, event and PTZ discovery and quick set up via Camera Groups feature	✓	✓	✓	✓
Wavestore Vision AI Camera and ONVIF integration of video analytic data for Intelligent Smart Search and Event Rules	✓	✓	✓	✓
ONVIF audio talkback - live, recording & playback	✓	✓	✓	✓
H.265, H.264, MJPEG, MPEG-4, MxPEG (Mobotix), JPEG2000 video format support	✓	✓	✓	✓
360° fisheye camera integration (including native Oncam and ImmerVision)	✓	✓	✓	✓
Multi-sensor camera support	✓	✓	✓	✓
Analogue and HD Analogue encoder support	✓	✓	✓	✓
Metadata Engine				
Enables other third-party integrations and metadata search, including third-party event and EPoS transaction text search	-	✓	✓	✓
Third Party Integrations (Integration Modules)				
On-board camera motion detection & analytic Integration				
Via ONVIF pull-point and selected API integrations (please contact Wavestore for details)	✓	✓	✓	✓
Other Video Analytics (requiring Metadata Engine)				
People Counting, Crowd Monitoring, Heat Maps	-	Optional	Optional	Optional
Facial Recognition	-	Optional	Optional	Optional
Advanced motion detection	-	Optional	Optional	Optional
i-LIDS approved detection analytics	-	Optional	Optional	Optional
I/O Modules				
Modbus and Axis VAPIX I/O module compatibility	✓	✓	✓	✓
Text based analytics				
Electronic Point of Sale (EPoS) with enhanced text overlay capability	-	Optional	Optional	Optional
Automatic Number Plate Recognition (ANPR/LPR) with enhanced text overlay capability	-	Optional	Optional	Optional
Access Control				
Access Control systems	-	Optional	Optional	Optional
Intruder Detection & PIDS				
Intruder Detection & Optical Fibre Perimeter Intrusion Detection (PIDS) systems	-	Optional	Optional	Optional
Optex Redwall integration	-	✓	✓	✓
Infrared and White Lighting				
Intelligent IP LED lighting systems	-	Optional	Optional	Optional
Raytec infrared and white light integration	-	✓	✓	✓
Physical Security Information Management (PSIM)				
Command & Control systems	-	Optional	Optional	Optional
3Dconnexion SpaceMouse Integration	-	✓	✓	✓
Identity Cloaking				
Video export compatibility with Facit Identity Cloaking software (European GDPR compliant). Facit service not included	✓	✓	✓	✓
Audio				
Built-in camera, analogue capture, on-board server and other PC audio sub-systems	✓	✓	✓	✓
Remote Monitoring				
Remote monitoring and RVRCs	-	Optional	Optional	Optional
Asset Protection				
Asset tracking systems	-	Optional	Optional	Optional
Video Wall				
Wavestore video wall integration	-	✓	✓	✓
Datapath video wall integration	-	Optional	✓	✓
Specialist Integration				
Bespoke integration service for virtually any connectable device or sub-system	-	Optional	Optional	Optional

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Version 6.52	Base	Premium	Enterprise	Ultimate
WaveView Client				
License-free WaveView client application compatible with Linux and Windows	✓	✓	✓	✓
Simultaneously display live and playback images on the same workspace	✓	✓	✓	✓
Multiple dockable video display areas on a single WaveView session	✓	✓	✓	✓
Programmable on-screen Hot Spots and event triggering	✓	✓	✓	✓
User defined camera layouts and layout sequences (layout salvos)	✓	✓	✓	✓
Multi-streaming (e.g. record high resolution streams while viewing low resolution streams)	✓	✓	✓	✓
3-Axis joystick, mouse or On-Screen PTZ camera control	✓	✓	✓	✓
Synchronised playback of multiple camera images and audio	✓	✓	✓	✓
Bounding Box and Polygon highlighting of Analytics objects	-	✓	✓	✓
Client dewarping of any 360° fisheye cameras in live, playback and export with virtual camera views	✓	✓	✓	✓
Camera status summary screen and export with thumbnail images	✓	✓	✓	✓
Interactive Maps with spatial control of cameras/devices on floor plans & status icons	-	✓	✓	✓
Exporting video from the WaveView Client				
3-click evidential export of any recorded video	✓	✓	✓	✓
Export complete 360° video for full post-event analysis	✓	✓	✓	✓
Video annotations (Bookmarking)	✓	✓	✓	✓
Evidential video locking	✓	✓	✓	✓
Multiple simultaneous camera video export	✓	✓	✓	✓
Export to multiple video/audio formats and Playlist creation for court-ready incident documentation	✓	✓	✓	✓
Recommended minimum OS	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro	Windows 10 Pro
WaveView Mobile Client				
License-free mobile client application for Android and iOS devices	✓	✓	✓	✓
WaveView Mobile support for privacy masks and multi-streaming	✓	✓	✓	✓
Recording Management				
Configurable recording schedules	✓	✓	✓	✓
Configurable multi-track recording per camera	✓	✓	✓	✓
Time-lapse recording function (recording i-frames only) with boost option on event	✓	✓	✓	✓
Lip-sync audio recording	✓	✓	✓	✓
iSCSI & NFS support via LASS-LIFT Technology	✓	✓	✓	✓
Event-driven video switching	✓	✓	✓	✓
Failover capability	-	-	-	✓
HDD Management				
Allocate physical HDDs to logical HDDs	✓	✓	✓	✓
Standard RAID capability (not HyperRAID) - up to RAID6 (N+2 redundancy), requires compatible RAID controller	-	✓	✓	✓
Wavestore's HyperRAID capability - up to RAID6 (N+2 redundancy), requires compatible Host Bus Adapter	-	✓	✓	✓
EcoStore™ - Spin down of HDDs within HyperRAID arrays (N+2 to N+5) to save over 80% energy and HDD wear	-	-	✓	✓
Wavestore's HyperRAID Plus capability - up to N+5 redundancy, requires compatible Host Bus Adapter	-	-	-	✓
Search Engine				
Instantaneous retrieval of recorded video via playback slider	✓	✓	✓	✓
Global text search of operator event notes (Bookmarks)	✓	✓	✓	✓
Event/Alarm and comprehensive metadata text search	-	✓	✓	✓
Unified Smart Search & Forensic search using video analytics data including segment colour	-	✓	✓	✓
Alarm and Event Management Engine				
Events managed in each individual server (no dedicated events server required)	✓	✓	✓	✓
Flexible cause & effect rules engine	✓	✓	✓	✓
Configurable event, alarm and client action management	✓	✓	✓	✓
Intelligent event triggers based on video analytics metadata (object type, position and movement)	✓	✓	✓	✓
Boolean AND, OR and XOR of Event Triggers	✓	✓	✓	✓
Display Multiple Cameras and Switch to Layout on Event	✓	✓	✓	✓
Configurable event email notifications with video clip attachment	✓	✓	✓	✓
Manual and/or automatic digital output trigger	✓	✓	✓	✓
Live event stream	-	✓	✓	✓
Select a server to act as central event engine, to share events across all servers	-	-	✓	✓
Security				
VMS embedded within ultra-secure Linux Operating System (OS)	✓	✓	✓	✓
Ability to allow access from authorised IP addresses only	✓	✓	✓	✓
Configurable WaveView client software connection timeout	✓	✓	✓	✓
Pre-configured firewall protection	✓	✓	✓	✓
User privilege separation protecting against unauthorised administrator access	✓	✓	✓	✓
Wavestore Protocol 5 - full server-client communication encryption	✓	✓	✓	✓
Up to 4096bit encryption	✓	✓	✓	✓
Strong password hashing, enforceable policies and auto-lock after failed logins	✓	✓	✓	✓
Upgrades				
Easy upgrade to higher level of software (Base to Premium, Premium to Enterprise, Enterprise to Ultimate)	✓	✓	✓	N/A
Continuously benefit from the latest features with Wavestore Always Up to Date subscription	✓	✓	✓	✓

Wavestore Video Servers and NVRs Overview

Features:	B-Series NVRs	E-Series NVRs	PT-Series NVRs	Q-Series Video Servers	V-Series Video Servers	X-Series Video Servers	WR-Series WR14 Video Servers	WR-Series WR212 Video Servers
Form Factor	Desktop	1U rackmount	Mini tower	1U rackmount	2U rackmount	4U rackmount	1U rackmount	2U rackmount
Typical number of IP channels	32	32	48	64	128	Max. 254	64	254
Typical number of audio channels	32	32	48	64	128	Max. 254	64	254
Max. IP throughput	300 Mbits/s	300 Mbits/s	300 Mbits/s	1200 Mbits/s	1200 Mbits/s	1200Mbits/s – standard 1800Mbits/s – option 2400Mbits/s – option	300Mbits/s	1200Mbits/s
Operating System	Linux	Linux	Linux	Linux	Linux	Linux	Linux	Linux
Local WaveView client operation	Set-up only	Set-up only	Yes (up to 15 Mbits/s)	Set-up only	Set-up only	Set-up only	Set-up only	Set-up only
Remote WaveView client operation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. No HDDs	1 x internal	2 x internal	4 x hot-swap	4 x hot-swap	12 x hot-swap	24 x hot-swap	4 x hot-swap	12 total (8x hot-swap)
Max. HDD capacity	24TB	28TB	40TB	56TB	168TB	336TB	48TB	144TB
HDD Type	3.5" form factor, Surveillance grade std / Enterprise option	Surveillance grade – standard Enterprise grade – option	Surveillance grade – standard Enterprise grade – option	Surveillance grade – standard Enterprise grade – option	Surveillance grade – standard Enterprise grade – option	Surveillance grade – standard Enterprise grade – option	Enterprise grade	Enterprise grade
Typical video storate rate	600 FPS	600 FPS	600 FPS	600 FPS	1600 FPS	1600 FPS	600 FPS	1200 FPS
Compression formats	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG & JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000	H.265, H.264, MJPEG, MPEG-4, MxPEG and JPEG2000
Wavestore VMS compatibility	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS	Compatible with all levels of Wavestore's VMS
Redundant PSU (dual)	-	-	-	Yes	Yes	Yes	Yes	Yes
RAID5/RAID6 (N+1/N+2) redundancy using MegaRAID	-	-	-	-	-	-	Yes	Yes
RAID5/ RAID6 (N+1/ N+2) redundancy using HyperRAID	-	-	Yes	Yes	Yes	Yes	-	-
Up to N+5 redundancy using HyperRAID Plus	-	-	-	-	Yes	Yes	-	-
EcoStore compatible	-	Yes	Yes	Yes	Yes	Yes	-	-
Standard warranty	Three-year back to base	Three-year back to base	Three-year back to base	Three-year back to base	Three-year back to base	Three-year back to base	Five years / Next business day on-site	Five years / Next business day on-site
On-site hardware support options	-	-	-	-	-	-	Four-hour mission critical on-site hardware support	Four-hour mission critical on-site hardware support

The perfect match for Wavestore's VMS

Each Wavestore server and NVR has been specifically designed to operate with any level of Wavestore's VMS. With a solution for virtually any application from general purpose surveillance to mission-critical installations with built-in redundancy, Wavestore's comprehensive range of video servers and NVRs are available with flexible options to ensure the perfect unit for the job at hand.

Wavestore provides up to a full five-year warranty with next business day on-site support** to give complete peace of mind.

Visit www.wavestore.com/hardware for a full overview of Wavestore's Video Servers and NVRs ranges.

**Model dependent, please see warranty section for details.
Specifications subject to change without notice, please check with your local Wavestore representative prior to ordering.

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