



## Summary

DW Spectrum® IPVMS is an elegantly easy cutting-edge approach to video surveillance, addressing the primary limitations of managing enterprise-level HD video while offering the lowest total cost of deployment and ownership on the market.

DW Spectrum IPVMS includes DW® Cloud™ to easily manage all your systems and users from a simple webpage.

## Features

- Open architecture / cross-platform
- Interface is dramatically easier to use.
- Enterprise features are standard
- Part of a complete end-to-end IP solution.
- Spectrum licences are a once-off purchase with no ongoing costs.
- Scalable from one to thousands of devices.

## Server

- **New in 5<sup>th</sup> gen!** Archive encryption
- **New in 5<sup>th</sup> gen!** SSL/TLS for server connections
- **New in 5<sup>th</sup> gen!** Session-based and multi-factor authentication
- **New in 5<sup>th</sup> gen!** ZFS support
- Intel® quick sync video
- C2P integration
- Dual Stream RTSP/HTTP
- Failover on storage failure
- Layout-as-an-action
- System update
- Virtual camera (import offline video)
- H.265 support to ONVIF cameras
- Metadata SDK
- Plugins
- Webcam support
- IP camera auto-discovery
- I/O device support
- Manually add streams
- Device lists (management)

## Specifications

Network		
IP protocols	Static, DHCP, wireless	
Mobile applications	Apple iOS devices, Android smartphones and tablets	
OnVIF conformant	Yes	
Network connection	1000 Mbps	
Performance		
Camera image control	Brightness, contrast, saturation, hue, 3D-DNR, WDR, camera firmware upgrade and reboot	
Firmware upgrade	USB drive, network upgrade, FTP remote upgrade	
Recording mode	Continuous, motion recording, motion recording + low resolution always	
Search modes	Instant motion-based smart search, advanced thumbnail search, calendar search, preview search, frame-by-frame search	
Special features	Fully customizable layouts, easy drag-n-drop camera management and recording	
Compression type	H.265, H.264, MJPEG, MPEG4	
Pre-alarm recording	Yes	
External export devices	Micro SD card, USB drive, USB HDD	
Video		
Dual-stream recording	Yes	
Operating system	Linux®, Windows®, iOS Mac® Client, Apple and Android mobile clients	
Maximum recommended elements in a single system	<ul style="list-style-type: none"> <li>• Maximum recommended servers in a system: 100.</li> <li>• Maximum recommended resources in a system: 10,000.</li> <li>• Maximum recommended users in a system: 1000.</li> <li>• The maximum number of MEGApix® CaaS™ all-in-one edge cameras in a single system is 30 cameras (all in the same local network, using MEGApix CaaS cameras only).</li> <li>• Maximum Blackjack® DW-BJMINI in a system: 5 (all in same local network).</li> </ul> <p>* The maximums above are based on lab testing results and could vary significantly based on a project's real-world environment.</p>	
System requirements	Minimum	
Operating system	<p><b>Microsoft Windows OS</b> (supported by both DW Spectrum® Server and Client).</p> <ul style="list-style-type: none"> <li>• Windows 8 – Released: October 2012   EoS: 01/2023</li> <li>• Windows 8.1 – Released: October 2013   EoS: 01/2023</li> <li>• Windows 10 – Released: July 2015</li> <li>• Windows Server 2012 – Released: August 2012   EoS: 10/2023</li> <li>• Windows Server 2012 R2 – Released: October 2013   EoS: 10/2023</li> <li>• Windows Server 2016 – Released: October 2016   EoS: 01/2027</li> <li>• Windows Server 2019 – Released: October 2018   EoS: 01/2029</li> <li>• Windows Server 2022 – Released: August 2021   EoS: 10/2031</li> </ul> <p>**NOTE: DW Spectrum IPVMS for Windows can be installed as a software bundle or the Server and Client software can be installed separately.</p> <p><b>Ubuntu (Debian-based Linux) OS</b> (supported by both DW Spectrum Server and Client).</p> <ul style="list-style-type: none"> <li>• Ubuntu 16.04 LTS "Xenial Xerus" – Released: April 2016   EoS: 04/2024</li> <li>• Ubuntu 18.04 LTS "Bionic Beaver" – Released: April 2018   EoS: 04/2028</li> <li>• Ubuntu 20.04 LTS: "Focal Fossa" – Released: April 2020   EoS: 04/2030</li> </ul> <p>**NOTE: DW Spectrum IPVMS for Ubuntu is only available for separate installations (not bundled).</p> <p><b>Macintosh OS</b> (supported only by the DW Spectrum Client. DW Spectrum Server is not available for macOS).</p> <ul style="list-style-type: none"> <li>• macOS 10.14 "Mojave" – Released: September 2018</li> <li>• macOS 10.15 "Catalina" – Released: October 2019</li> <li>• macOS 11.0, 11.1, 11.2 "Big Sur" – Released: November 2020</li> <li>• macOS 12 "Monterey" – Released: October 2021</li> </ul> <p>**NOTE: DW Spectrum IPVMS for macOS is only supported by the DW Spectrum Client.</p>	
	Minimum	Recommended
Processor	Intel® Core i3® 4 <sup>th</sup> gen processor (or higher)	Intel® Core i5® 4 <sup>th</sup> gen processor (or higher)
System RAM	4GB RAM	8GB RAM
Video card	Integrated Intel® graphics	GeForce® GTX 480 video card
Network interface	1 Gbps	1 Gbps
Hard disk space	500GB HDD	256GB SSD

## Features (cont.)

- Support to cameras at every resolution
- Multi-sensor camera support
- Server hive architecture
- Cross-platform
- No annual maintenance fees
- One-click complete system upgrade
- Store anywhere
- Web administration
- Event rules engines
- Built-in developer tools
- Incredibly lightweight
- Notifications
- One-time recording license charge, fully transferable
- Simple enterprise scalability
- Launch desktop client with CLI
- In-camera analytics
- Bitrate throttling
- Seamless transition from live to playback
- Watch live and playback video on the same screen
- Easy monitoring
- Enhanced export
- Web client compatibility
- Easy bookmark export
- Archive integrity check
- Custom camera ID
- Flex GRID user interface
- Support to cameras at every resolution
- Universal fisheye dewarping
- Advanced PTZ
- Region of interest with SpyGlass™
- Smart motion search
- Adaptive timeline
- Calendar search
- Preview search
- Synchronized or unsynchronized playback
- Screen record
- Cloud connect
- User management
- Adaptive scaling
- Multi-camera viewing
- Super lightweight
- Secure and encrypted
- Multi-video export
- Unbelievably fast search
- Soft triggers
- Storage analytics
- Showreel
- Two-way audio
- E-mapping system capabilities
- Text-to-speech event notifications
- Event rules engine
- HTTP events and actions
- Bookmarks
- Integration with Control4™ home automation
- IP intercom device support
- Image enhancement
- Event log reports and search
- Centralized management
- Health monitor
- System backup and restore
- Minimize video recording loss
- Audit trail

- Edge integration
- Videowall
- Help manual

### DW Cloud™

- **New in 5<sup>th</sup> gen!** Redesigned server web admin
- Complete system management
- Health monitoring dashboard
- Cloud system merge
- Cloud connect
- Share access
- Unlimited systems
- Web viewing
- Secure and encrypted
- Cloud API

### Mobile

- Push notifications
- Low latency
- Mobile app for iOS and Android
- DW® SiteViewer™ for AppleTV
- Live thumbnails
- Multi-system switching
- Fisheye dewarping
- Secure and encrypted
- PTZ control
- Soft triggers

### For developers

- Server API
- Video source SDK
- Storage SDK
- HTTP generic events
- HTTP requests-as-an-action
- Metadata SDK

## Client

- **New in 5<sup>th</sup> gen!** Two-factor authentication
- **New in 5<sup>th</sup> gen!** New recording modes
- **New in 5<sup>th</sup> gen!** New archive backup options
- **New in 5<sup>th</sup> gen!** OS SSL/TLS for Internet connections
- **New in 5<sup>th</sup> gen!** Session-based authentication
- **New in 5<sup>th</sup> gen!** Independent desktop client updates
- **New in 5<sup>th</sup> gen!** Redesigned objects panel
- **New in 5<sup>th</sup> gen!** Redesigned welcome screen
- **New in 5<sup>th</sup> gen!** Custom resource groups
- **New in 5<sup>th</sup> gen!** Video preview thumbnail
- **New in 5<sup>th</sup> gen!** Audio-video mapping
- **New in 5<sup>th</sup> gen!** 360° panoramic video dewarping
- **New in 5<sup>th</sup> gen!** Web page proxy
- **New in 5<sup>th</sup> gen!** Restore previous session
- **New in 5<sup>th</sup> gen!** Client Javascript API
- Native support for MEGApix® IVA and IVA+ cameras
- Chromium browser in-client
- Videowall failover
- Add device interface
- Minimum grid size on layouts
- Notifications panel
- Resource panel
- Secure export
- Custom watermark over video

## License Options

Products	Description
DW Spectrum® IPVMS Licenses	
DW-SPECTRUMLSC001	Single recording license
DW-SPECTRUMLSC004	Four (4) recording licenses
DW-SPECTRUMLSC010	Ten (10) recording licenses
DW-SPECTRUMLSC020	Twenty (20) recording licenses
DW-SPECTRUMLSC050	Fifty (50) recording licenses
DW-SPECTRUMLSC100	One Hundred (100) recording licenses
Analog Encoder IPVMS Licenses	
DW-SPCP04LSC004	Four (4) Analog encoder licenses
DW-SPCP16LSC016	Sixteen (16) Analog encoder licenses
I/O Module IPVMS Licenses	
DW-SPIOLSC001	Single I/O Module license
Video Wall IPVMS Licenses	
DW-SPVWALL1X2	Single Video Wall license



Innovative Electronic Solutions  
www.ness.com.au



NSW Ph 02 8825 9222  
sales@ness.com.au

VIC Ph 03 9875 6400  
nessmelb@ness.com.au

QLD Ph 07 3399 4910  
nessbris@ness.com.au

WA Ph 08 9328 2511  
nessper@ness.com.au

SA Ph 08 8152 0000  
adelaide@ness.com.au