DW spectrum ®
IPVMS

Complete Scalable Video Management

Built for Users.™

Open Architecture Cross Platform | Easy Operation | Enterprise Features | End-to-End Solution | No Annual Agreements | Enterprise Scalability

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	Control integrated cameras directly from the DW Spectrum client
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, video anaytics engine support
Compression type	H.265, H.264, MJPEG, MPEG4
Pre-alarm recording	Yes
External export	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	• Maximum recommended servers in a system: 10. • Maximum recommended resources in a system: 10,000. • Maximum recommended users in a system: 1000. • 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). * The maximums above are based on lab testing results and could vary significantly based on a project's real-world environment.

System requirements	Minimum
Operating system	**Microsoft Windows OS** (supported by both DW Spectrum® Server and Client). • Windows 8 – Released: October 2012 | EoS: 01/2023 • Windows 8.1 – Released: October 2013 | EoS: 01/2023 • Windows 10 – Released: July 2015 | EoS: 10/2025 • Windows 11 – Released: October 2021 • Windows Server 2012 – Released: August 2012 | EoS: 10/2023 • Windows Server 2012 R2 – Released: October 2013 | EoS: 10/2023 • Windows Server 2016 – Released: October 2016 | EoS: 01/2027 • Windows Server 2019 – Released: October 2018 | EoS: 01/2029 • Windows Server 2022 – Released: August 2021 | EoS: 10/2031 **NOTE: DW Spectrum IPVMS for Windows can be installed as a software bundle or the Server and Client software can be installed separately. **Ubuntu (Debian-based Linux) OS** (supported by both DW Spectrum Server and Client). • Ubuntu 18.04 LTS "Bionic Beaver" – Released: April 2018 | EoS: 04/2028 • Ubuntu 20.04 LTS: "Focal Fossa" – Released: April 2020 | EoS: 04/2030 • Ubuntu 22.04 LTS: "Focal Fossa" – Released: April 2020 | EoS: 04/2030 **NOTE: DW Spectrum IPVMS for Ubuntu is only available for separate installations (not bundled). **Macintosh OS** (supported only by the DW Spectrum Client. DW Spectrum Server is not available for macOS). • macOS 11.0, 11.1, 11.2 "Big Sur" – Released: November 2020 • macOS 12 "Monterey" – Released: October 2021 • macOS 13 "Monterey" – Released: October 2021 **NOTE: macOS is supports DW Spectrum Client only. **NOTE: Mobile app 22.4 is incompatible with DW Spectrum IPVMS 5.1. **NOTE: Support for Windows 8.1 will be discontinued in the next release. Systems on Windows 8.1 may not be able to update to the next release.

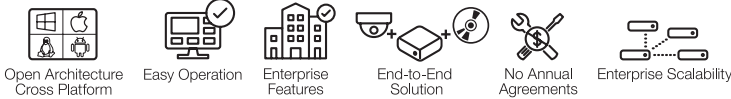|	Minimum	Recommended
Processor	Intel® Core i3® 4th gen processor (or higher)	Intel® Core i5® 4th gen processor (or higher)
System RAM	4GB RAM	8GB RAM
Video card	Integrated Intel® graphics	GeForce® GTX 480 video card
Network interface	1 Gbps	1 Gbps
Hard disk space	256GB HDD	500GB SSD

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
- Advanced features are standard
- Cloud connectivity
- Future-proof infrastructure
- AI-driven solution

Server
- **New in 5.1!** Remote log download
- **New in 5.1!** ONVIF profile selection
- **New in 5.1!** Camera replacement
- Archive encryption
- SSL/TLS for server connections
- Session-based and multi-factor authentication
- 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

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Features (cont.)

- Webcam support
- IP camera auto-discovery
- I/O device support
- Manually add streams
- Device lists (management)
- 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

Client
- **New in 5.1!** Cross-system layouts
- **New in 5.1!** Remote log download
- **New in 5.1!** ONVIF profile selection
- Two-factor authentication
- OS SSL/TLS for Internet connections
- Session-based authentication
- Independent desktop client updates
- Custom resource groups
- Video preview thumbnail
- Audio-video mapping
- 360° panoramic video dewarping
- Web page proxy
- Restore previous session
- 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
- 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™
- 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

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

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