DW spectrum® PROFESSIONAL

Cloud-Managed Video Management Services
DW-SPECTRUM

Summary

DW Spectrum Video Management Services is a cloud-managed, cutting-edge approach to surveillance that addresses the primary challenges of managing enterprise-level video while offering actionable, data-driven monitoring at the lowest total cost of deployment on the market.

DW Spectrum Professional is designed for efficiency and optimized control in video management. The service's latest updates make it more efficient, responsive, and user-friendly than ever.

Upgrade to cloud-centric **DW Spectrum Enterprise** and take advantage of cloud-exclusive usability and convenience. Each recording license entitles you to a two-year subscription.

DW Spectrum Pro Features

- Open architecture / cross-platform
- Interface is dramatically easier to use
- Advanced features are standard
- Cloud connectivity
- Future-proof infrastructure
- AI-driven solution

Server

- Remote log download
- ONVIF profile selection
- 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

Specifications

Network		
IP protocols	Static, DHCP	
Mobile applications	Apple iOS devices, Android smartphones and tablets	
ONVIF conformant	Yes	
Network connection	1000 Mbps and higher throughput	
Performance		
Camera image control	Control integrated cameras directly from the DW Spectrum client	
Version upgrade	In-client upgrade from client	
Recording mode	Continuous, motion recording, motion recording + low resolution always, object recording, object + low resolution always, motion & object recording, motion & object + low resolution always	
Search modes	Instant motion-based smart search, advanced thumbnail search, calendar search, preview search, frame-by-frame search, object search, advanced object search	
Special features	Fully customizable layouts, easy drag-n-drop camera management and recording, video analytics engine support, camera hotspot(link), Failover	
Compression type	H.265, H.264, MJPEG, MPEG4	
Pre-alarm recording	Yes	
External export	USB drive, USB HDD, NAS	
Video		
Dual-stream recording	Yes	
Operating system	Linux®, Windows®, macOS® (client only), Apple and Android mobile clients	
Maximum recommended elements in a single system	• Maximum recommended servers in a system: 50* • 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 and configuration.	
System requirements	Minimum	
Operating system	**Microsoft Windows** • Windows 10 • Windows 11 • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 **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)** • Ubuntu 18.04 LTS "Bionic Beaver" • Ubuntu 20.04 LTS: "Focal Fossa" • Ubuntu 22.04 LTS: "Jammy Jellyfish" **NOTE: DW Spectrum IPVMS for Ubuntu is only available as separate installations (not bundled). **macOS (client only)** • macOS 11.0, 11.1, 11.2 • macOS 12 "Monterey" • macOS 13 "Ventura" • macOS 14 "Sonoma" **NOTE: Mobile app 22.4 is incompatible with DW Spectrum IPVMS 5.1. **NOTE: Support for Windows 8.1 will be discontinued in DW Spectrum 6.0. Systems on Windows 8.1 may not be able to update to the next release.	
Server Hardware	Minimum	Recommended
Processor	Intel® Celeron8th gen processor (or higher)	Intel® Core i5® 8th gen processor (or higher)
System RAM	4GB RAM	8GB RAM
GPU	Support OpenGL 2.1	Support OpenGL 2.1
Network interface	2 x 1 Gbps	2 x 1 Gbps
OS Drive	256GB HDD	Dedicated 256GB SSD or larger
Storage Drive	Ensure sufficient read/write capacity to handle camera load	Ensure sufficient read/write capacity to handle camera load
Client Desktop Hardware	Minimum	Recommended
Processor	Intel® i5 8th gen processor (or higher)	Intel® Core i7® 8th gen processor (or higher)
System RAM	8GB RAM	16GB RAM
Video card	Integrated Intel® graphics	GeForce® GTX 1650 or better
Network interface	2 x 1 Gbps	2 x 1 Gbps
OS Drive	256GB HDD	Dedicated 256GB SSD or larger

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866.446.3595
sales@digital-watchdog.com
www.digital-watchdog.com

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Features (cont.)

- Virtual camera (import offline video)
- H.265 support to ONVIF cameras
- Metadata SDK
- Plugins
- Webcam support
- IP camera auto-discovery
- I/O device support
- Device lists (management)
- Support to cameras at every resolution
- Multi-sensor camera support
- Server hive architecture
- Cross-platform
- One-click complete system upgrade
- Store anywhere
- Web administration
- Event rules engines
- Incredibly lightweight
- Notifications
- One-time recording license charge, fully transferable

Client

- **New in Pro!** Camera hot spots
- **New in Pro!** LDAP integration
- **New in Pro!** Temporary users
- Cross-system layouts
- Remote log download
- 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
- Client Javascript API
- Native support for DW Ai
- Chromium browser in-client
- Videowall failover
- Minimum grid size on layouts
- 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
- 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
- Soft triggers
- Storage analytics
- Showreel
- Two-way audio
- Text-to-speech event notifications
- Event rules engine
- HTTP events and actions
- Bookmarks
- 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 Pro!** Emails from the cloud
- Connect directly to any Blackjack® Server
- Complete system and user management
- View live or recorded videos
- Complete system management
- Health monitoring dashboard
- Cloud system merge
- Share access
- Unlimited systems
- Web viewing
- Secure and encrypted
- Cloud API

Mobile

- Push notifications
- Low latency
- 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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