Built for Users.™

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

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 now 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.
- Lifetime upgrades included / no annual agreements
- Scalable from one to thousands of devices.

Server

- **NEW in v.4.2!** 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)
- 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

Specifications

Network	
IP protocols	Static, DHCP, wireless
Mobile applications	Apple iOS devices: iPad, iPad mini, iPhone, iPod Android devices: all 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	• Maximum recommended servers in a system: 100. • 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). • Maximum Blackjack® DW-BJMINI in a system: 5 (all in same local network). * 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** Microsoft Windows is 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 • 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 **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** Ubuntu/Linux is supported by both DW Spectrum Server and Client. • Ubuntu 16.04 LTS "Xenial Xerus" – Released: April 2016 | EoS: 04/2024 • Ubuntu 18.04 LTS "Bionic Beaver" – Released: April 2018 | EoS: 04/2028 **NOTE: DW Spectrum IPVMS for Ubuntu is only available for separate installations (not bundled). **Macintosh OS** macOS is supported only by the DW Spectrum Client. DW Spectrum Server is not available for macOS. • macOS 10.14 "Mojave" – Released: September 2018 • macOS 10.15 "Catalina" – Released: October 2019 • macOS 11.0, 11.1, 11.2 "Big Sur" – Released: November 2020 **NOTE: DW Spectrum IPVMS for macOS is only supported by the DW Spectrum Client.	
	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	500GB HDD	256GB SSD

DWspectrum®
IPVMS
Complete Scalable Video Management

Features (cont.)

- Notifications
- One-time recording license charge, fully transferable between cameras and encoders
- Simple enterprise scalability

Client

- **NEW in v.4.2!** Native support for MEGApix® IVA and IVA+ cameras
- **NEW in v.4.2!** Redesigned PTZ controls
- **NEW in v.4.2!** Improved fisheye dewarping
- 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 for 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 v.4.2!** Camera management
- **NEW in v.4.2!** Server management
- **NEW in v.4.2!** License management
- **NEW in v.4.2!** User 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

Related Products

Blackjack® servers

MEGApix® IP cameras

NightWatch™ illuminators
SiteWatch™ motion detectors

Compressor™ encoders

Product Numbers	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 IPVMS licenses
DW-SPCP16LSC016	Sixteen (16) Analog encoder IPVMS Licenses
I/O Module IPVMS Licenses	
DW-SPIOLSC001	Single I/O Module IPVMS license
Video Wall IPVMS Licenses	
DW-SPVWALL1X2	Single Video Wall IPVMS license

NOTE: Custom-ordered licenses are available by request.
NOTE: Lifetime upgrades are included with no annual renewal fees.

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