



Complete Scalable Video Management

DW spectrum
IPVMS



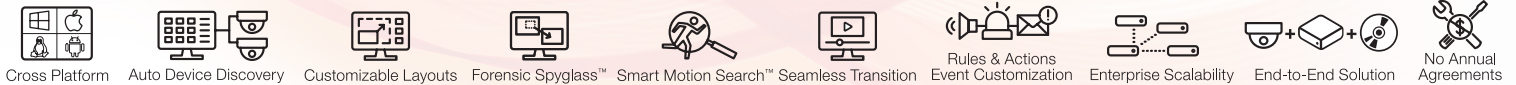
Built
for
Users.™

DW DIGITAL WATCHDOG
Complete Surveillance Solutions

Complete Scable Video Management

DW **spectrum**[®] IPVMS

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.



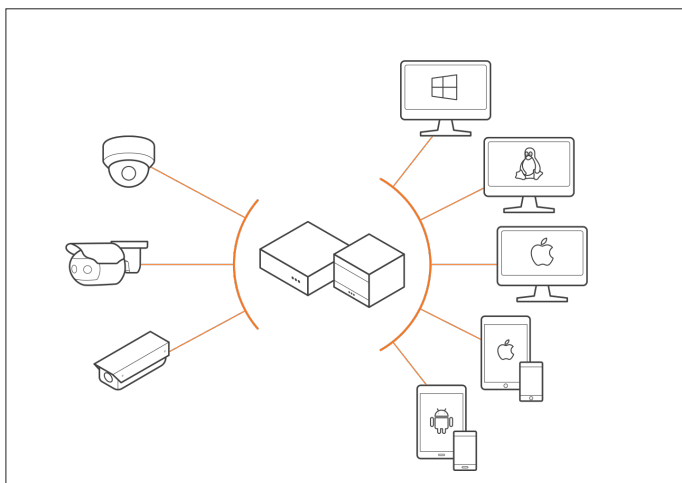
Why DW Spectrum[®] IPVMS?

- 1 Open architecture / cross platform.
- 2 Interface is dramatically easier to use.
- 3 Enterprise features are standard.
- 4 Part of a complete end-to-end IP solution.
- 5 Lifetime upgrades included / no annual agreements.
- 6 Scalable from one to thousands of devices.

1 Open architecture / cross platform.

Open Architecture

- Now with DW Cloud™, connect from anywhere to share access instantly.
- Now with even more device support.
- Support of thousands of devices including cameras, encoders and I/O modules from leading manufacturers.
- Support cameras at every resolution.
- Built-in API allowing managed video to be accessed and reviewed by any willing 3rd party device.
- Able to integrate with any willing physical access control solution.
- Built-in SDK allowing a 3rd party device to stream into DW Spectrum® IPVMS.
- Built-in HTTP Rest API allowing any 3rd party device to create alarm events in DW Spectrum® IPVMS.
- Able to integrate with any willing video analytic solution.
- Built-in Storage SDK allows developers to read from or write to any storage location.



Cross Platform

- DW Spectrum's recording engine runs on Windows® and Linux® Operating Systems.
- Client software is Windows®, Linux® or Mac® compatible.
- Mobile apps are iOS® and Android® compatible.
- Web client is compatible with Google Chrome®, Firefox®, Safari® and Internet Explorer®.



2 Interface is dramatically easier to use.

Highly refined GUI

Viewing Video

- Seamless transitions
- Customizable camera layouts
- Zoom, create regions of interest and enhance images

Searching Video

- Fastest video search in the industry
- Users can bookmark specific video segments

Downloading Video

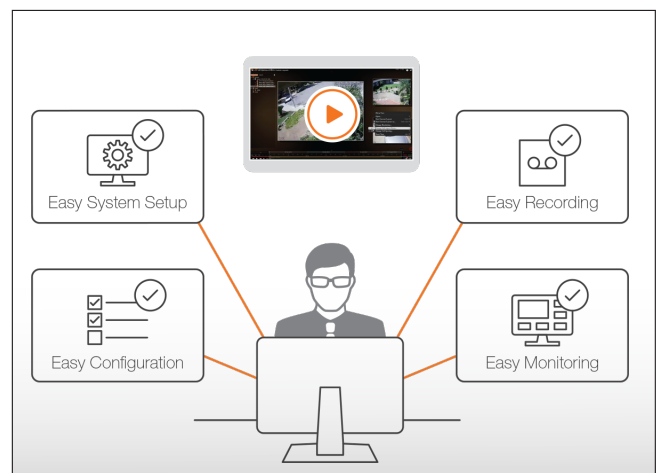
- Multiple Download options
- Storage Backup

System Programming

- Intelligent high definition multi-streaming video management with no user programming required
- Server and system programming from a single interface

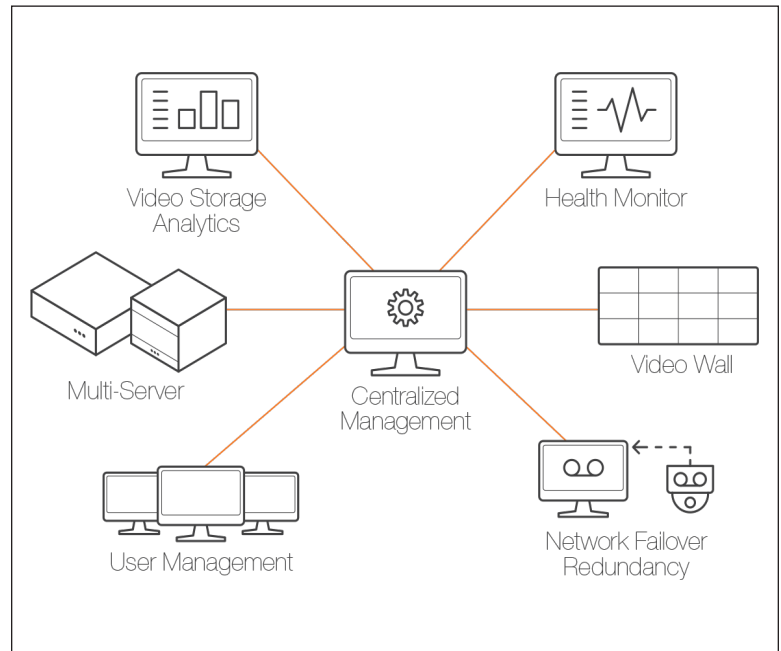
Advanced Features

- Interactive mapping, alarms, events/notifications, universal fisheye de-warping from a single interface
- External alarm events can be delivered right from the IP camera or via network I/O modules



3 Enterprise features are standard.

- Now with Custom User Role Management, administrators can now create custom roles and share groups of hardware and layouts
- Multi-Server and Centralized Management capability.
- Health Monitor provides system administrators real time insight of camera and server status.
- Video Storage Analytic provides administrators insight into storage requirements each camera is using in real-time and forecasts the impact of additional storage.
- Minimize Video Recording Loss with included Failover to protect video recordings from hardware failures and network interruptions.
- LDAP / Active Directory integration for enterprise wide user management is standard.
- Video Wall users can create and remotely manage remote monitors with just a few clicks.



DW Spectrum® makes enterprise-class management easy to use.

4 Part of a complete end-to-end IP solution.



Although DW Spectrum® IPVMS is open to be deployed on a vast number of solutions. It is also part of Digital Watchdog's complete end-to-end IP solution.

Blackjack®

Servers Powered by DW Spectrum® IPVMS

Preloaded with DW Spectrum® IPVMS, Blackjack® NVRs are optimized for high reliability operation and minimal setup time.



MEGAPIX®

IP Cameras

MEGApix® IP cameras deliver high definition image quality for every application.



Compressor™

Analog to IP Video Encoder

Compressor™ Video Encoders are the easiest way™ to bring existing analog camera investments into the high definition world.



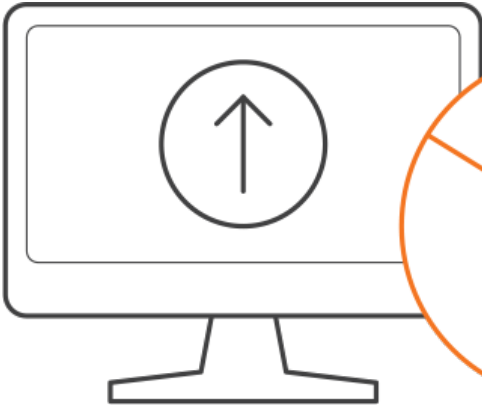
Available from A1 Security Cameras

www.a1securitycameras.com email: sales@a1securitycameras.com

5 Lifetime upgrades included / no annual agreements.



No Annual
Maintenance Fees



While other companies require annual maintenance agreements, DW Spectrum® IPVMS system upgrades are always available.

DW Spectrum® IPVMS **one button up grade capability** allows administrators to perform system wide cross platform upgrades with a click.

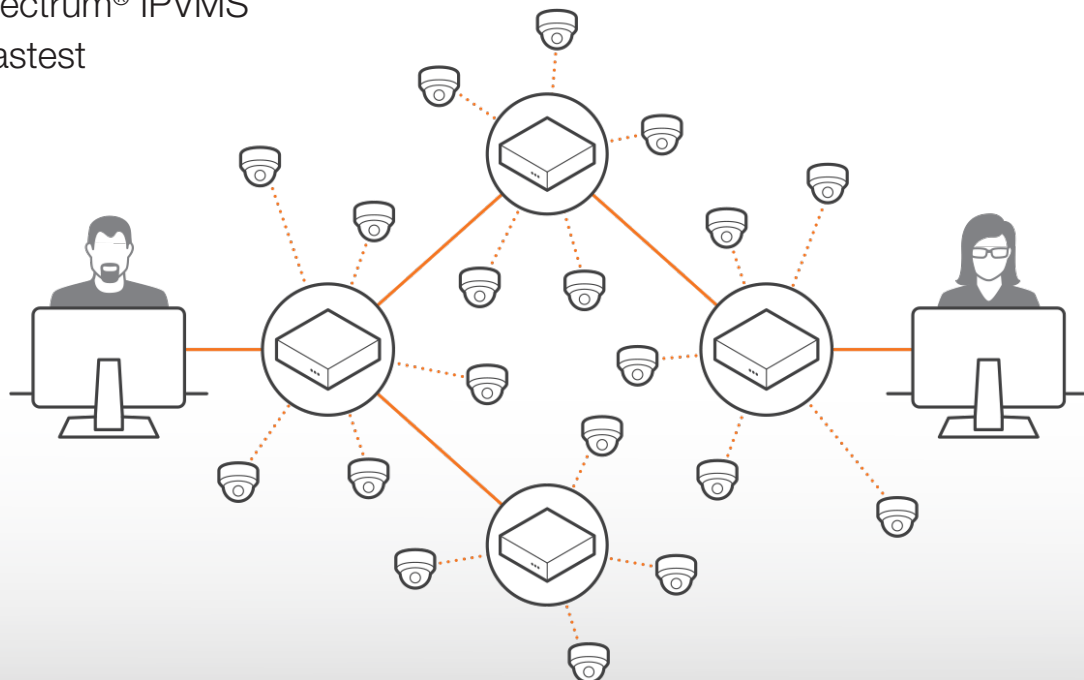
DW Spectrum's lifetime license includes unlimited upgrades.
No maintenance contract is required.

6 Scalable from one to thousands of devices.



Enterprise Scalability

Because of all of the above and DW Spectrum's unified user experience for applications requiring one or thousands of cameras, it is deployed at tens of thousands of locations worldwide, making DW Spectrum® IPVMS the industry's fastest growing VMS on the market today.





DW Spectrum [®] SERVER
A media server responsible for discovering, connecting to and managing system devices and data, with the ability to operate alone or as one part of a multi-server hive.
Microsoft Windows
Ubuntu Linux
OF SERVERS IN A SYSTEM HIVE: 50 *
OF CAMERA STREAMS PER SERVER: 128
OF CLIENTS PER SYSTEM: UNLIMITED
* 50 is a recommended maximum.
Contact support for more info.
DISCOVER - 1000's of devices
IP Cameras (ONVIF, Custom)
RTSP/HTTP Streams
I/O Devices
DW Servers / Systems
Samba NAS
MANAGE
IP Cameras - H.265 H.264
Advanced Routing
Storage (HDD/NAS/DAS)
Events & Rules Engine
Failover
Transcoding
VIEW
Live Video (adaptive)
Recorded Video (adaptive)
Server Health
Log Files
Audit Trail
Storage Status
UPDATE
One click upgrade - system wide server upgrades
INTEGRATE ANYTHING
HTTP Generic Events
HTTP Request-as-an-Action
Server API
Storage SDK
Video Source SDK
API Generator - create HTTP Generic Events or API calls

DW Spectrum [®] CLIENT	
A rich media player with a flexible GRID interface, unmatched speed and responsiveness, instant notifications, an embedded browser, and a user experience unlike any other video management software.	
Microsoft Windows	
Ubuntu Linux	
Apple / Mac OSX	
64 BIT OS: 64 Items (e.g. 64 live streams)	
32 BIT OS: 24 Items (e.g. 24 live streams)	
USABILITY	MEDIA
Drag & Drop	IP Cameras / Encoders
Seamless transition from live to recorded video	RTSP/HTTP Streams
Consolidated Notifications	I/O Devices
Flex Timeline	Web Pages
Customizable Layouts	Videos
Digital Maps	Images
Adaptive Scaling	Two-Way Audio
Universal Fisheye Dewarping	
Joystick support	
CONFIGURATION	SEARCH
Events & Rules Engine	Smart Motion Search
User Management - LDAP Integration	Keyword Search
IP Cameras / Encoders	Calendar Search
Server Management	Time-Slice Thumbnail Search
I/O Device Management	Bookmarks
Storage Management	Audit Trail
Event-driven video switching	
SOFT TRIGGERS: Create buttons to initiate Actions	
VIDEOWALL: Put DW Spectrum Client into VideoWall mode to control remotely	
SHOWREEL: Fully customizable timed viewing tour of any GRID media	
Acknowledge and Bookmark	
SPECS	
MINIMUM	PERFORMANCE
HARD DRIVE: HDD/SSD/mSATA	HARD DRIVE: Performance SSD
RAM: 2GB CPU: Quad Core Intel Celeron CPU or higher	RAM: 16 GB RAM
GRAPHICS: Intel HD Graphics 3000 w/ OpenGL2.1 support	CPU: Intel Core i5
NETWORKING: 1GB NIC	GRAPHICS: NVIDIA GeForce GTX 1050 (OpenGL2.1 support is required)
	NETWORKING: 10 GB NIC



DW CLOUD™
Powered by Amazon Web Services, makes connecting to and managing DW Spectrum System(s) simple. Set up in Seconds. Connect from anywhere. Share with an unlimited number of Users.
Chrome
Firefox
Opera
Edge
Safari
CONNECT
NAT Traversal
Data Proxy via AWS
Simple Credentials
Encrypted Communications
Wifi/LAN/WAN
4G/LTE/Data
PASSWORDS: COMPLEX MULTI-LEVEL HASH
SECURE PASSWORD RECOVERY: VIA EMAIL
HTTPS: OPENSLL ENCRYPTED SERVER/CLIENT/CLOUD CONNECTIONS
VIEW
Live Video (adaptive)
Recorded Video (adaptive)
Camera Details
Keyword Search
Calendar Search
Flex Timeline
MANAGE
System Settings
User Permissions
Cloud Connections
Email Notifications
SCALABILITY / INTEGRATIONS
Unlimited # of Systems
Unlimited # of Users
Unlimited # of Devices
Cloud API

DW Spectrum® Mobile
A fast, user-friendly mobile application that allows users to connect to, view, search, and control IP cameras over Wifi or Data networks.
iOS
Android
CONNECT
Wifi
Data 4G/LTE
VIEW
Live Video (adaptive)
Recorded Video (adaptive)
Layouts
Available Systems
SEARCH
Keyword
Calendar
Flex Timeline
CONTROL
Advanced PTZ / Standard PTZ
Fisheye Dewarping

Digital Watchdog's new DW Mobile™ App for iPad® and iPhone® devices works seamlessly with Digital Watchdog's popular DW Spectrum® IPVMS and VMAX® DVRs/ NVRs. DW Mobile™ allows you to view, playback and capture still images from a surveillance system on your smart phone and tablet.

DW Mobile Pro™ is a paid subscription app that allows you to view, playback and record multiple surveillance systems simultaneously, capture and share video clips.



APP Features:

- Access Your Entire Security System with the Touch of a Finger.
- Remote Monitoring of Multiple Sites.
- Supports Unlimited Sites.
- Create Unique Layouts with Cameras from Multiple Sites for the Ultimate Mobile Surveillance Experience.
- Drag and Drop Camera Layouts and Reordering.
- View Up to 16 Cameras per Screen, and Have Up to 128 Cameras Open at One Time (via On-Screen Scrolling).
- Split View (L/S) Displays Live and Recorded Video.
- PTZ Camera Control.
- Capture Image Snapshots.
- Send E-mail and Text Notifications with Image Attachment.
- Server Location Services Powered by Google Maps® – Locate All Your Systems Quickly and Easily by Their Geographical Location.
- Pinch-to-Zoom Digital Zoom Support.
- Password Protected for Complete Security of Your Systems and Data.
- Welcome Tour, Tutorial and Complete Help Menu for Onscreen Assistance.

Additional Pro Features:

- View Multiple Sites on One Screen (Pro Version).
- Search Multiple Cameras Simultaneously (Pro Version).
- Bookmark Setup and Search (Pro Version).
- Export Short Videos in .AVI Format and Share via Email or Social Media (Pro Version).
- Instant YouTube® Video Export Upload (Pro Version).

Models Supported:

- Blackjack® BOLT™ and CUBE™ NVRs
- Blackjack® E-RACK™ NVRs
- Blackjack® P-RACK™ NVRs
- Any server running DW Spectrum® IPVMS
- VMAX® IP PLUS™ NVRs
- VMAX® AHD CORE™ DVRs
- VMAX® A1™ DVRs

Specifications

PART NUMBER		DW MOBILE	DW MOBILE PRO
Number of Sites		Unlimited	Unlimited
Number of Viewing Channel		View up to 16 Channels Simultaneously, View up to 128 Channels Open at One Time	
Layout Options		Single, 4, 6, 7, 8, 9, 10, 16, Single Channel in Live and Playback	
Multi-Site Layout		Save Favorite Layouts	Save Favorite Layouts
LIVE	Single Site	✓	✓
	Multi-Site	---	✓
	View All Sites and Favorites	---	✓
OPERATIONAL	Pinch-to-Zoom	✓	✓
	GPS	Save Location Service Powered by Google Maps™	
PLAYBACK	Single Channel	✓	✓
	Multi-Channels	---	✓
	Quick Playback	1, 10, 30, 60 minutes	1, 10, 30, 60 minutes
	Adaptive Timeline Search	First / Select Time	✓
	Bookmark	---	✓
Simultaneous Live & Playback (L/S Mode)		✓	✓
PTZ	Virtual Joystick Controller	✓	✓
	Move to Preset	---	DW Mobile Pro 2.0
EXPORT	AVI	---	✓
	Snapshot	✓	✓
	SMS, Airdrop, Facebook or Email Sharing	✓	✓
Password Protection Screen Lock (Required Password When App Re-Launches)		---	✓
SUPPORTED DEVICES	Blackjack® NVR Series	Full Support for Solutions Running DW Spectrum™ IPVMS	
	Blackjack® CUBE LX		
	Blackjack® CUBE		
	Blackjack® E-RACK		
	Any Server Powered by DW Spectrum™ IPVMS		
	VMAX® A1	Full Support	
	VMAX® AHD CORE	Full Support	
VMAX® IP PLUS	Full Support		
Cost		Free	30 Days Free Trial, \$1.99 a Month

*Prices and specifications are subject to change without notice.



Dedicated to those who sell the complete line of DW® video surveillance solutions.

