

Video Management Anywhere, Anytime.



Complete Scalable Video Management



Built for Users.™

Apps for every operating system. **Cloud-enabled.**

DW Spectrum® IPVMS supports all major operating systems with the ability to link any system to DW Cloud™ for fast, reliable remote access.

Automated. Intuitive. **Built for Users.**

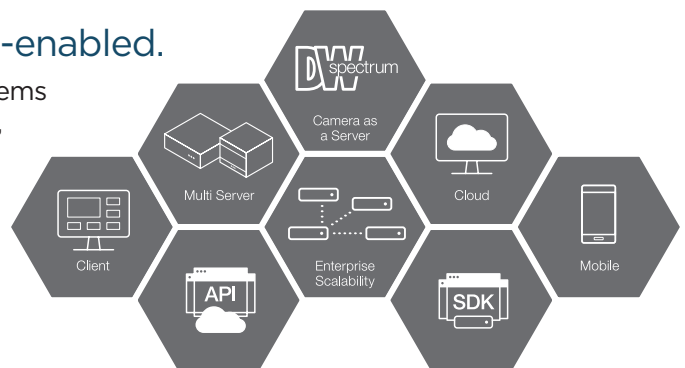
Installs in seconds configures in minutes. Instantly usable for novices, operators, integrators, or developers.

Auto-discover devices from hundreds of manufacturers.

Discover and manage thousands of compatible video, audio and I/O devices. Set up a new system or replace any existing VMS in minutes.

Open for developers. **Integrate anything.**

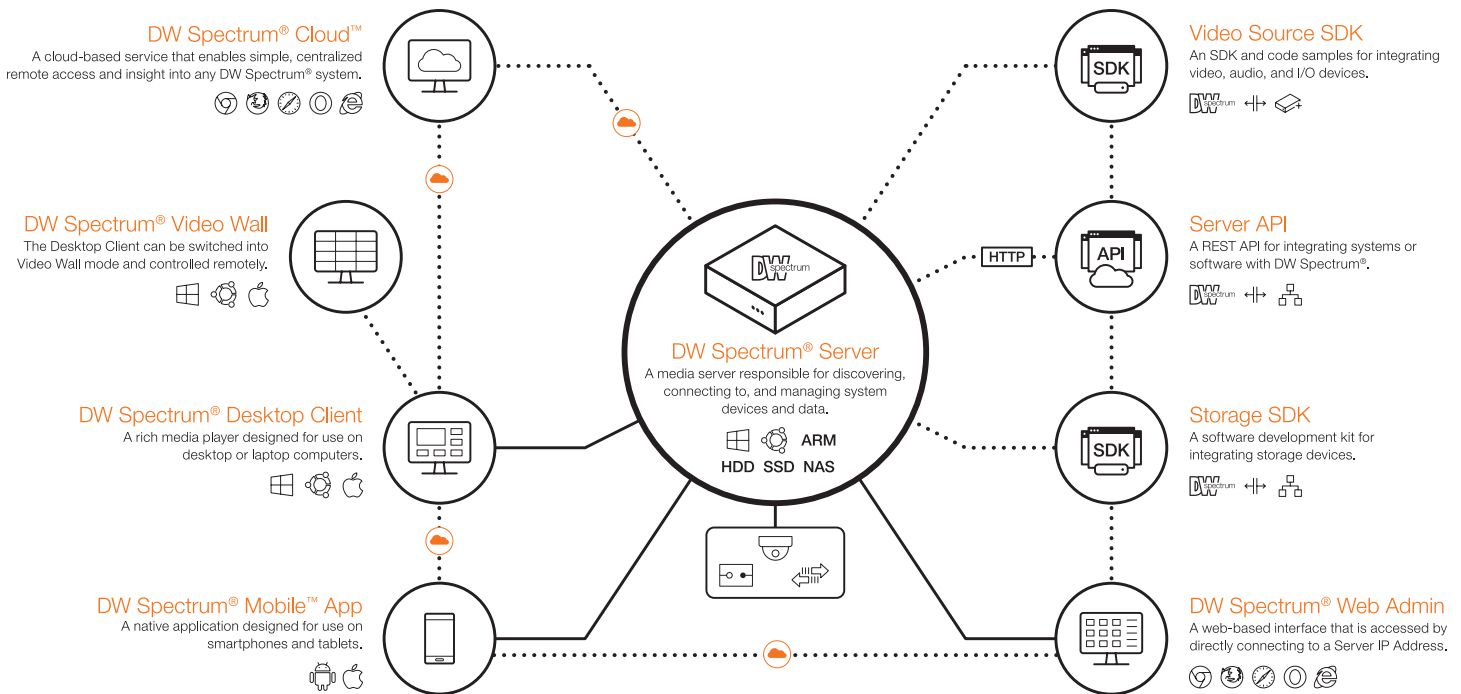
With an open Restful API, a suite of SDK's, and integrator-friendly tools like a built-in API generator DW Spectrum® IPVMS users can quickly integrate any 3rd party device or system.



Simple. Reliable. Customizable.

DW Spectrum® IPVMS is an endlessly customizable IP Video Management platform that gives users the ability to create tailored networked video solutions for any type of project, for use by anyone, on any device.

1 Open architecture / cross platform.



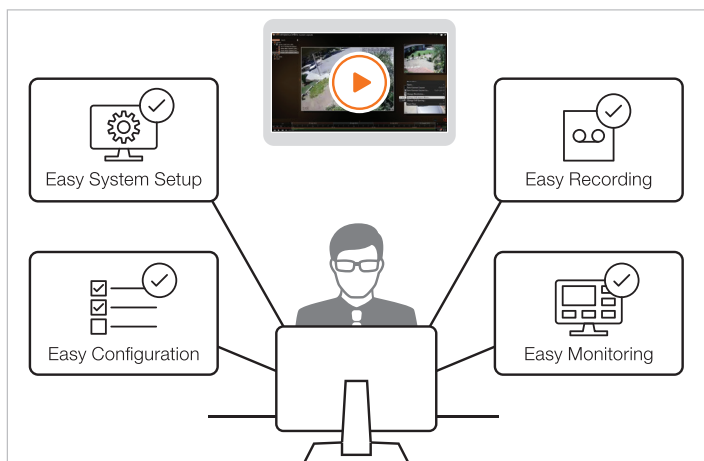
Open Architecture

- 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.

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.

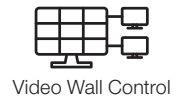
Advanced Features

- 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.



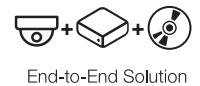
3 Enterprise features are standard.

- Custom User Role Management: create custom roles and share groups of hardware and layouts.
- Multi-Server and Centralized Management
- Health Monitor: provides real-time insight of camera and server status.
- Video Storage Analytic: insight into storage requirements each camera is using in real-time and forecasts the impact of additional storage.
- Minimize Video Recording Loss: includes 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.



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 DW's complete end-to-end IP solution, with Blackjack® servers and Blackjack® NAS storage solutions.



5 Lifetime upgrades included/no annual agreements.

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



6 Scalable from one to thousands of devices.

The unified user experience for applications requiring one or thousands of cameras is deployed at thousands of locations worldwide, making DW Spectrum the industry's fastest-growing VMS on the market today.



You choose your devices.

DW Spectrum® has applications for all major operating systems so our users are not limited by what device or operating system they choose to use on their desktops, mobile devices, rack mount servers, or even low-powered embedded devices.

Server	Client	Cloud	Mobile
A media server responsible for discovering, connecting to, and managing system devices and data.	A rich media player with a flexible GRID interface designed for connection to and managing DW Spectrum systems.	A cloud-based service that enables simple, centralized remote access and insight into any DW Spectrum system.	A mobile app designed for viewing DW Spectrum system video and events while on the go.
SERVER OS SUPPORT:	DESKTOP OS SUPPORT:	SUPPORTED BROWSERS:	MOBILE OS SUPPORT:



Discover. Manage. Control. Integrate.

The DW Spectrum IPVMS media server application is a lightweight, powerful media server responsible for discovering, connecting to, and managing DW Spectrum IPVMS system devices and data. The application is pre-loaded on all Blackjack® servers.

Blackjack®

Servers Powered by DW Spectrum® IPVMS













































NDAA/TAA
COMPLIANT PRODUCT

Designed and Commissioned in the U.S.A. 



Pre-loaded Blackjack servers

SUPPORTED OPERATING SYSTEM:  Windows®  Linux®

DISCOVER	MANAGE	VIEW	INTEGRATE
 IP Cameras (ONVIF, Custom)	 IP Cameras / NVRs / DVRs	 Live Video (adaptive)	 HTTP Generic Events
 RTSP / HTTP Streams	 Advanced Routing	 Recorded Video (adaptive)	 HTTP Request-as-an-Action
 I/O Devices	 Storage (HDD/NAS/DAS)	 Server Health	 Server API
 Samba NAS	 Events and Rules Engine	 Log Files	 Storage SDK
 Virtual Camera	 Failover	 Audit Trail	 Video Source SDK
 H.265 on ONVIF Cameras	 Transcoding	 Storage Status	 Any Device or System
 Webcam Support	 Failover on Storage Failure	 Dual-Stream RTSP	 C2P Integration
 Camera Replacement	 System Update	 Layout-as-an-Action	 Metadata SDK
	 Archive Encryption	 Health Monitoring Dashboard	 Plugins
	 ZFT Support	 Intel Quick Sync Video	
	 Remote Log Download	 SSL/TLS Connections	
	 ONVIF Profile Selection	 Session-Based Authentication	



SCALABILITY

OF CLIENTS PER SERVER: THOUSANDS

OF CLIENTS PER SYSTEM: UNLIMITED

OF STREAMS PER SERVER: 128

OF SERVERS IN A SERVER SYSTEM: 50 *

* 50 is recommended maximum. Depends on server configuration and network environment.

Contact support for more info.

SUPPORTED OPERATING SYSTEMS**WINDOWS**

- i. Windows 10
- ii. Windows Server 2012
- iii. Windows Server 2012 R2
- iv. Windows Server 2016
- v. Windows Server 2019
- vi. Windows Server 2022

LINUX

- i. Ubuntu 18.04 LTS "Bionic Beaver"
- ii. Ubuntu 20.04 LTS: "Focal Fossa"
- iii. Ubuntu 22.04 LTS: "Focal Fossa"

BLACKJACK[®] SERVER WEB ADMIN**SUPPORTED MEDIA STREAMING**

LIVE STREAMS (Viewed in DW Spectrum[®] Desktop)

VIDEO: H.265 H.264 MJPEG

AUDIO: AAC PCM (Mu-Law, A-law) g726 MP3

LIVE STREAMS (Available to pull from DW Spectrum[®] IPVMS media server to 3rd party)

VIDEO: H.265 H.264 MJPEG WebM

AUDIO: AAC PCM (Mu-Law, A-law) g726 MP3

PROTOCOLS: RTSP MJPEG WebM HLS

AUTOMATIC CAMERA FAILOVER: ~1 min. configurable

TRANSCODING: Supported (for web, client, mobile, API)

DATABASE: SQLITE + proprietary archive index

SINGLE SIGN-ON: LDAP/active directory

SECURITY: OPEN SSL, SALTED MD5 HASH, TLS/SSL, HTTPS

DEV TOOLS: Server API (HTTP), video source SDK, storage SDK

NAS: ISCSI



Dramatically easier to use with almost immediate video load.

A rich media player with a flexible grid interface, unmatched speed and responsiveness, instant event notifications, an embedded browser, and a user experience, unlike any other video management software.



Video Wall users can create and remotely manage remote monitors with just a few clicks.

One App. Many Features.

DW Spectrum® IPVMS client combines performance, ease-of-use, and a 'let the user decide how best to use the software' approach into a single cross-platform lightweight app capable of running any server.

SUPPORTED OPERATING SYSTEM:



Windows®



Linux®



MacOS

USABILITY	MEDIA	CONFIGURATION	SEARCH
Drag and Drop	IP Cameras / Encoders / DVRs	Events and Rules Engine	Smart Motion Search
Consolidated Notifications	RTSP / HTTP Streams	User Management	Keyword Search
Flex Timeline	I/O Devices	IP Cameras / Encoders	Calendar Search
Customizable Layouts	Web Pages	Server Management	Time-Slice Search
Digital Maps	Videos	I/O Device Management	Bookmarks
Adaptive Scaling	Images	Storage Management	Audit Trail
Minimum Grid Size on Layouts	Secure Export	Add Device	
Resource Panel	Chromium Browser In-Client	Custom Watermark over Video	
Launch Desktop Client with CLI	Native Support for MEGApix® IVA and IVA+	Video Wall Failover	
Notifications Panel	Fisheye Dewarping Precision	Independent Desktop Client Updates	
Two-Factor Authentication	Video Preview Thumbnail	Session-Based and Multi-Factor Authentication	
OS SSL / TLS for Internet Connections	Audio-Video Mapping	Restore Previous Session	
Client Javascript API	Custom Resource Groups	ONVIF Profile Selection	
Cloud Layouts	Web Page Proxy		
	Remote Log Download		

MAXIMUM # OF GRID ITEMS

64 BIT OS: 64 Items (e.g. 64 live streams)

32 BIT OS: 24 Items (e.g. 24 live streams)

SUPPORTED OPERATING SYSTEMS

WINDOWS



- i. Windows 10
- ii. Windows Server 2012
- iii. Windows Server 2012 R2
- iv. Windows Server 2016
- v. Windows Server 2019
- vi. Windows Server 2022

LINUX



- i. Ubuntu 18.04 LTS "Bionic Beaver"
- ii. Ubuntu 20.04 LTS: "Focal Fossa"
- iii. Ubuntu 22.04 LTS: "Focal Fossa"

MAC



- i. • macOS 10.15 "Catalina"
- ii. • macOS 11.0, 11.1, 11.2 "Big Sur"
- iii. • macOS 12 "Monterey"
- iv. • macOS 13 "Monterey"

HARDWARE REQUIREMENTS

CLOUD CONNECT

HARD DRIVE: HDD

RAM: 2GB

CPU: Quad-Core Intel 7 CPU or higher

GRAPHICS: Intel HD Graphics 3000 w/
Open GL2.1 support

NETWORKING: 1GB NIC

PERFORMANCE SPECS

HARD DRIVE: Performance SSD

RAM: 16 GB RAM

CPU: Intel Core i5

GRAPHICS: NVIDIA GeForce GTX 1050
(Open GL2.1 support is required)

NETWORKING: 1GB NIC

DW SPECTRUM® CLIENT APPLICATION



SUPPORTED MEDIA PLAYBACK ON GRID

LIVE STREAMS

CODECS: H.265 H.264 MJPEG

OFFLINE MEDIA

VIDEOS: AVI MKV MP4 MOV TS M2TS MPEG MPG FLV WMV 3GP

IMAGES: JPG PNG GIF BMP TIFF

CONNECTED DEVICES

I/O DEVICES: Status and triggers

SERVERS: Server health monitoring

BROWSER

WEB PAGES: Responsive websites / progressive web apps

VIEWING MODES

MEDIA PLAYER: View, edit, and export offline videos and images

CONNECTED: View, configure, and manage any
DW Spectrum® IPVMS SystemVIDEO WALL: Put DW Spectrum® Desktop into Video Wall mode to
control remotelySHOWREEL: Fully customizable timed viewing tour of any GRID
media

DW Cloud™ Simplifies Everything.

The DW Cloud™ service makes connecting to and managing DW Spectrum® IPVMS system(s) simple. Set up in seconds. Connect from anywhere. Share with an unlimited number of users.

Quick setup

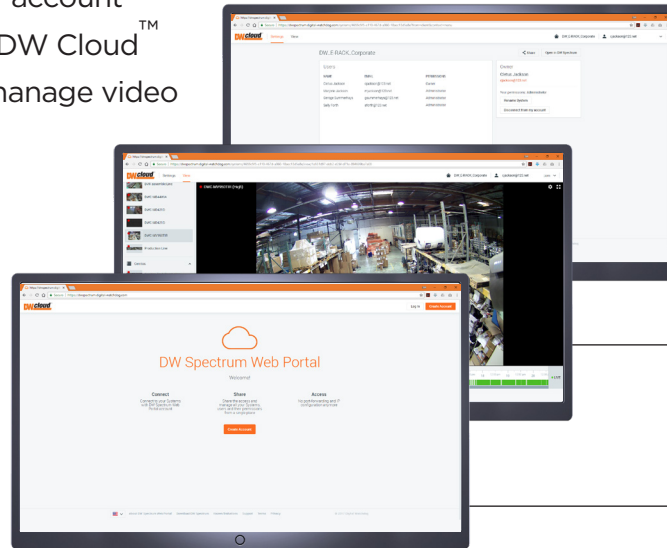
1. Create a DW Cloud™ account
2. Link your system to DW Cloud™
3. Connect, view and manage video anywhere, anytime.

Browser-based user interface

Manage users

View live or recorded video

Quickly connect to any system



Connect. View. Manage. Scale.

DW Cloud™ is a public cloud application hosted on Amazon AWS that enables simple remote connectivity, streaming and management of one or an unlimited number of DW Spectrum® IPVMS systems.

SUPPORTED BROWSERS:



chrome



Microsoft Edge



























Opera



Firefox



Safari

CONNECT	VIEW	MANAGE	SCALABILITY / INTEGRATION
 NAT Traversal	 Live Video (adaptive)	 NEW Server Settings	 Unlimited # of Systems
 Data Proxy via AWS	 Recorded Video (adaptive)	 NEW User Settings	 Unlimited # of Users
 Simple Credentials	 Camera Details	 Cloud Connections	 Unlimited # of Devices
 Encrypted Communications	 Keyword Search	 Email Notifications	 Cloud API
 Wi / LAN / WAN	 Calendar Search	 Cloud System Merge	
 4G / LTE / Data	 Flex Timeline	 Health Monitoring Dashboard	
		 License Management	
		 Camera Settings	

SCALABILITY

OF CONNECTED SYSTEMS: UNLIMITED

OF USERS: UNLIMITED

DW CLOUD™ SERVICES

CLOUD CONNECT



Connect any DW Spectrum® IPVMS System to DW Cloud™ for simple remote connectivity from anywhere using NAT Traversal and Cloud Data Proxy technology.



Add an unlimited number of users to a single DW Cloud™ system.

Share access to your DW Cloud™ system in seconds using only email addresses.

Create custom roles to simply and quickly assign access to multiple DW Cloud™ connected systems.



DEVELOPER TOOLS

CLOUD API: AVAILABLE UPON REQUEST

DW CLOUD™ BROWSER & DEVICES INTERFACE



DW CLOUD™ FEATURES

CONNECTIVITY

NAT TRAVERSAL: Connect directly to proxied Blackjack® servers

CLOUD DATA PROXY: Connect via AWS cloud proxy service

INTERFACE TABS

SYSTEMS: View connected system tiles

SETTINGS: View users, rename systems, disconnect systems

VIEW: USE DW Cloud™ to view live or recorded video

SECURITY

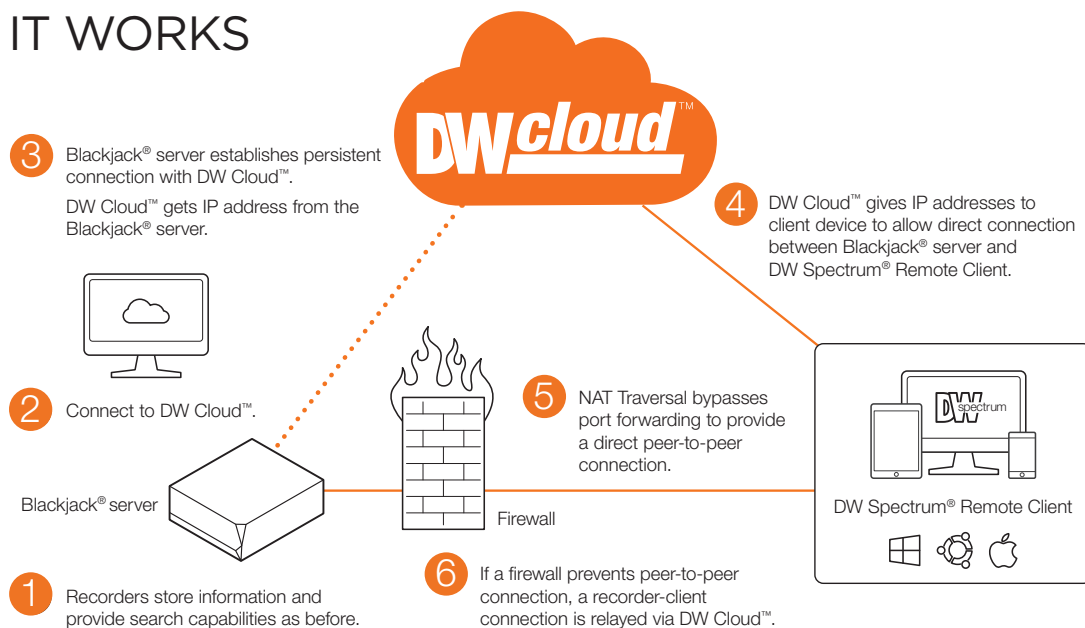
SECURE PASSWORD RECOVERY: Via email

HTTPS: Open SSL, encrypted server/client/cloud connections

EMAIL: (transport layer security)

PASSWORDS: Complex, multi-level hash

HOW IT WORKS





Smartphone or tablet. Smart video.

DW Spectrum Mobile for iOS and Android smartphones and tablets provides fast, dependable mobile access to any DW Spectrum IPVMS system.















View, playback and capture still images from a surveillance system on your smartphone and tablet.

Connect. View. Search. Control.

DW Spectrum Mobile - with a custom-developed media player - is a low-latency, user-friendly mobile application for iOS and Android devices that allows users to connect to, view, search, and control IP cameras over wifi or data networks.

SUPPORTED OPERATING SYSTEM:



CONNECT	VIEW	SEARCH	CONTROL
 Wifi	 Live Video (adaptive)	 Keyword Search	 Fisheye Dewarping
 Data 4G/LTE	 Recorded Video (adaptive)	 Calendar Search	 Advanced PTZ / Standard PTZ
	 Layouts	 Flex Timeline	 Push Notifications
	 Available Systems		

COMPATIBLE DEVICES

SMARTPHONES:

64 Items (e.g. 64 live streams)

iOS 24 Items (e.g. 24 live streams)

SUPPORTED OPERATING SYSTEMS

ANDROID



Android 5.0 "Lollipop"
Android 6.0 "Marshmallow"
Android 7.0, 7.1 "Nougat"
Android 8.0, 8.1 "Oreo"
Android 9.0 "Pie"
Android 10.0
Android 11.0

iOS



iOS 10
iOS 11
iOS 12
iOS 13
iOS 14



DW SPECTRUM MOBILE



SUPPORTED MEDIA PLAYBACK

STREAMS

CODECS: H.265 H.264 HLS

FEATURES

REMOTE CONNECT: Login using local or DW Cloud™ credentials

LIVE THUMBNAILS: Thumbnails refresh in real-time

KEYWORD SEARCH: Search for cameras or layouts by name

CALENDAR SEARCH: Search by date and time

ADVANCED PTZ: Point, pan, zoom, tilt controls, move to presets

FISHEYE DEWARPING: Dewarp fisheye images

ADAPTIVE SCALING: Hi / low resolution switching transcoding

LAYOUTS: View thumbnails of system layouts

QUICK SYSTEM SWITCH: Quickly switch between multiple DW Spectrum IPVMS systems

Company Overview

DW® empowers our customers as the industry-leading single source of value-driven complete solutions for all video surveillance applications.

History

- Founded 1987
- Rapid expansion in the Americas and Asia-Pacific.
- Protecting 60% of the Top 20 global brands.
- 12 consecutive years of strong revenue growth.
- Engineered in the USA and Korea.
- Manufactured in USA, Korea and Vietnam.



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