Blackjack®Ai™

Blackjack® Ai™ servers and appliances powered by DW Spectrum® and AI.

DW

Made in U.S.A.

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BlackjackAi™

Servers Powered by DW Spectrum and IVA Ai Server

Ai INSIDE

Add the Power of Advanced Neural-Network-Based Analytics to Your Video Streams with Blackjack® Ai™.

Blackjack® Ai™ Artificial Intelligence Network Video Recorders (Ai NVR) and appliances are purpose-built solutions with built-in server-side analytics that unlocks advanced Ai capabilities on any connected video stream. This cost-effective, plug-and-play solutions, with servers powered by DW Spectrum® IPVMS, combine high-performance recording with video analytics in an easy-to-deploy, turnkey solution.

Understanding DW's Blackjack Ai Solutions

BlackjackAi™
Powered by DW Ai Appliance

Deep learning analytics on an appliance, connected to any DW Spectrum IPVMS system for any connected stream.

BlackjackAi™
Powered by DW Spectrum and DW Ai Server

Deep learning analytics at the server for any connected stream, integrated with DW Spectrum IPVMS.

Ai™ Server + DW Spectrum® IPVMS = Blackjack® Ai™

All-in-One Device

Achieve lower deployment costs with a single device that performs as an NVR and an Analytics server.

Object Classification

DW's AI software processes video streams to detect and classify every object appearing in the detection zone. Our Deep Learning engines perform object detection (DL Object tracker), automatically classifying the objects in the scene: bicycles, cars, counters, forklifts, motorcycles, persons, trucks, unclassified and vans.

**Trucks**

Cars

Humans

DW®

Ai INSIDE
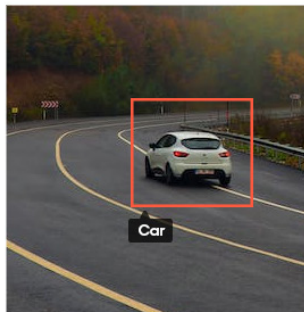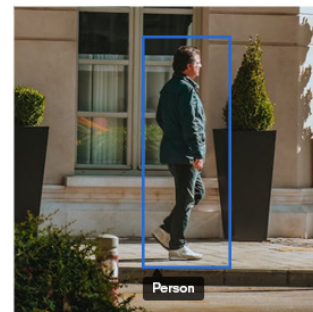
Future-proof solution

A DW AI analytics provides scalability and optimization of resources across a system. New analytics can be added to your site, making your system future-proof without infrastructure expansion.
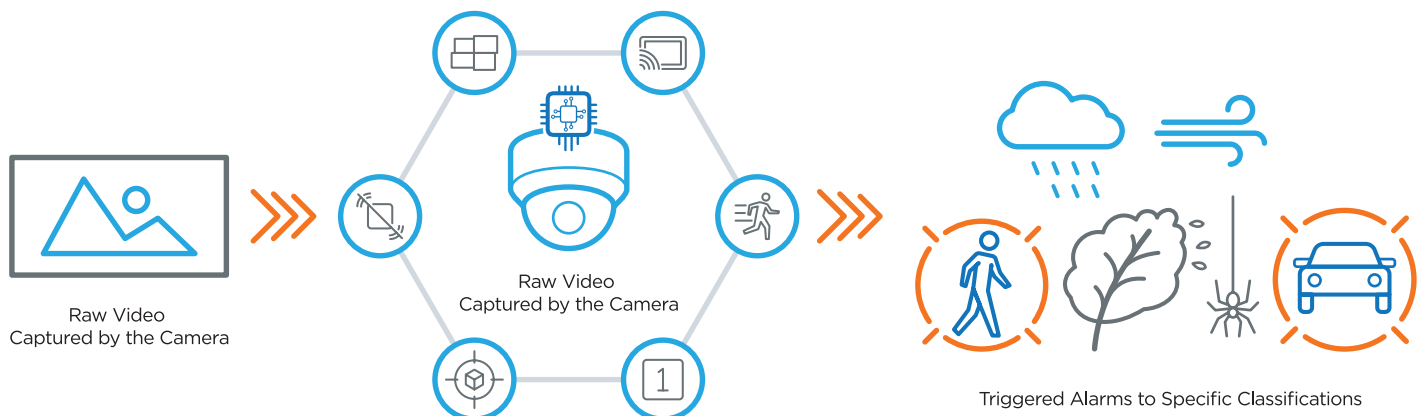
Server-Side Analytics for Any Video Stream

Bring server-side classified object detection to any video stream in your system.

Ai Server and Appliance
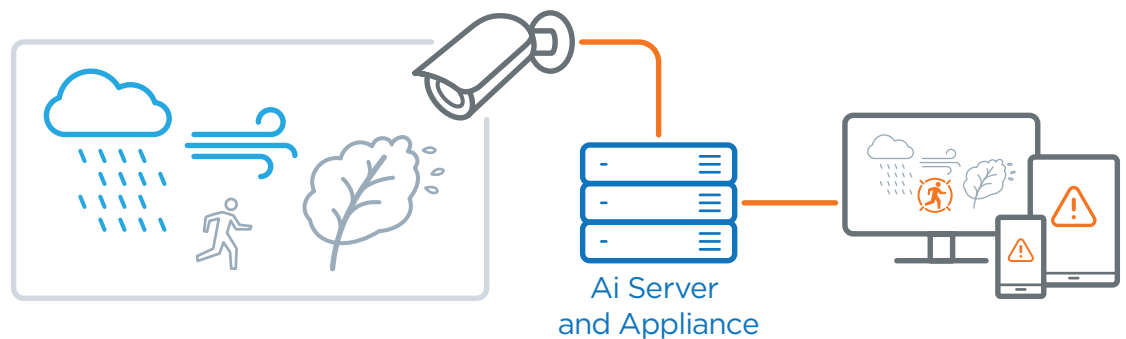
Logical Rules

Blackjack Ai servers combine multiple zones and virtual tripwires to create elaborate, multiple trigger point rules for a greater event detection level.

Raw Video
Captured by the Camera

Raw Video
Captured by the Camera

Triggered Alarms to Specific Classifications

Easy setup (no calibration)

DW's AI allows operators to choose what to detect and where; with a user-friendly and straightforward UI, users can set up multiple scenarios specific to their monitoring needs without complex calibration.

Lower total cost of ownership

Combining Blackjack NVRs with an AI Appliance pre-installed, users can achieve a lower total cost of ownership with both flexibility and scalability with a video recording solution enhanced with deep-learning video analytics in a single appliance for any camera network.

Raw Video

Sensor Analysis

Video Analytics

Deep Learning Event Filter
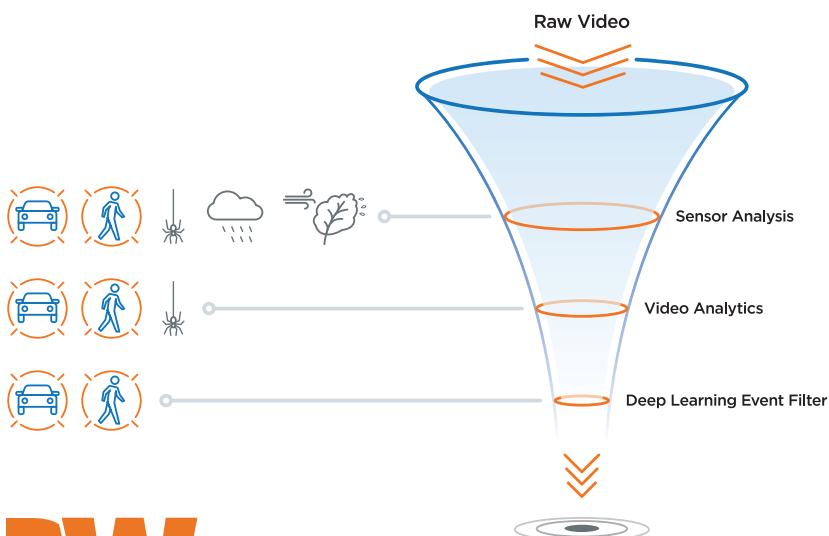
Deep Learning

Blackjack Ai server-side intelligent algorithms offer deep learning with better object classification and identification of environmental elements. The result is substantially reduced false alarms, allowing only valid events to filter through Blackjack Ai servers to increase efficiency and productivity, and reduces unnecessary costs.

Ai INSIDE

Smart Storage Management

Manage your recording storage smarter by fine-tuning events and alarms to be recorded. Combining Ai analytics, logic rules and non-detection zones, users can create conditions unique to their environment people and objects must trigger to activate an alarm.

DW spectrum®

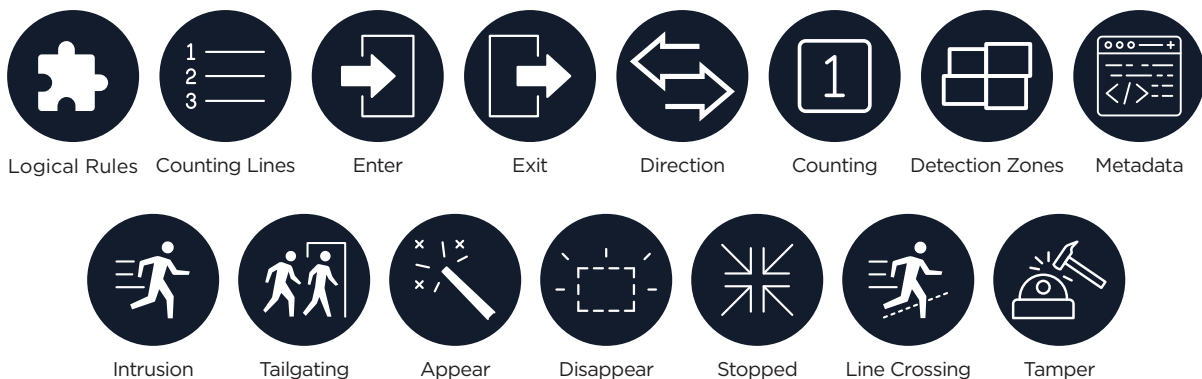# Seamless Integration with DW Spectrum IPVMS

The Blackjack AI NVRs combine Ai analytics and DW Spectrum IPVMS in a single platform, empowering users to mix and match DW analytics with any camera to optimize deployment and use the best camera to suit your site's requirements.

Blackjack Ai servers include all the Intelligent Video Analytics and advanced Video Content Analysis detection capabilities of the Ai engine. In addition, Ai servers empower users with deep learning objects and people tracking and color filters.

Deep Learning Object Detection

| Logical Rules | Counting Lines | Enter | Exit | Direction | Counting | Detection Zones | Metadata |

| Intrusion | Tailgating | Appear | Disappear | Stopped | Line Crossing | Tamper |

All-in-One NVR and Analytics Appliance

Ai INSIDE

Network Switch

Network Switch
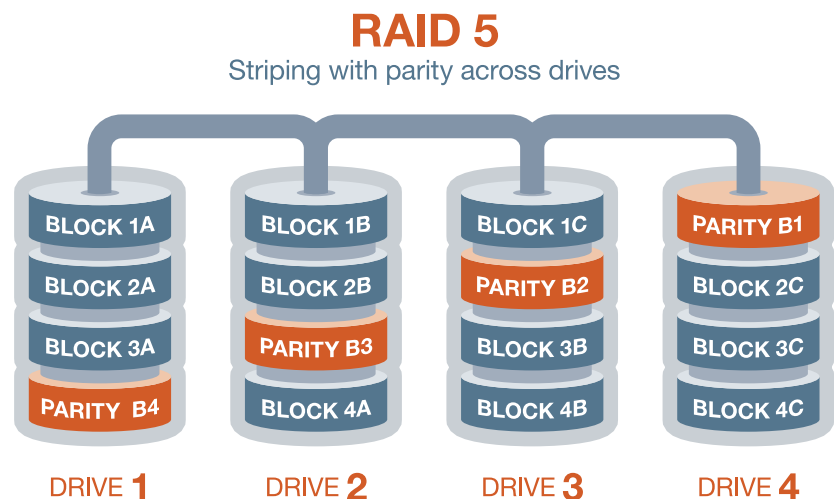
Blackjack® Server
with Dual Network Card
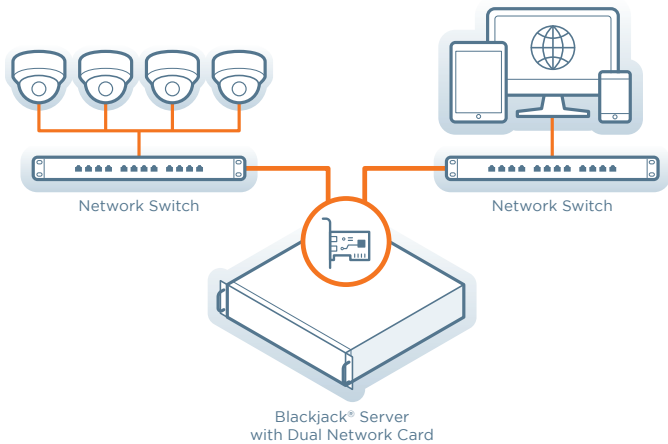
Dual Network Ports

Optimize network bandwidth by utilizing dual network ports to build a separate network for the surveillance system and keep that traffic off the main network, reserved for the NVR's communication.

RAID Storage Mirroring*

Add extra security to your video surveillance system by protecting recorded data and overcoming data loss in the case of a hard drive failure.

RAID 5
Striping with parity across drives

BLOCK 1A	BLOCK 1B	BLOCK 1C	PARITY B1
BLOCK 2A	BLOCK 2B	PARITY B2	BLOCK 2C
BLOCK 3A	PARITY B3	BLOCK 3B	BLOCK 3C
PARITY B4	BLOCK 4A	BLOCK 4B	BLOCK 4C

DRIVE **1**   DRIVE **2**   DRIVE **3**   DRIVE **4**

Mouse & Keyboard Included

Blackjack® servers come with a USB mouse and keyboard included at no extra cost.
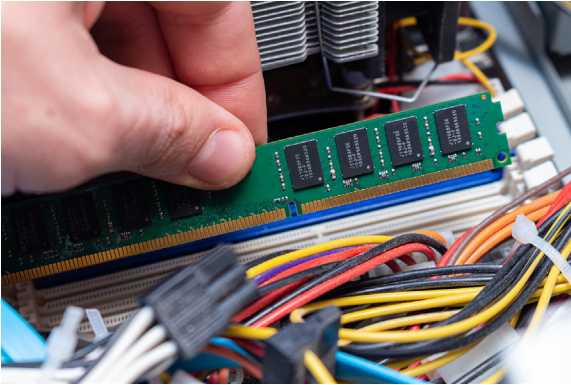
ONVIF® conformant*

ONVIF Conformant

All Blackjack solutions are ONVIF conformant, creating a truly unique solution, to match your specific needs.

Rail Kit Included*

All Blackjack® rackmount servers come with the rail kits included at no extra cost for easy out-of-the-box installation.

DW

Designed and Comissioned in the U.S.A

All DW recorders, workstations and NAS devices are designed, assembled and inspected in our California facility. Each product undergoes multiple levels of quality control to guarantee the highest quality and performance.

OS on dedicated SSD

DW's servers provide a dedicated SSD for the OS. This results in faster boot time, faster application loading times and improved system responsiveness.

Next business day onsite hardware repair after remote diagnosis*

If an issue occurs with your product that cannot be resolved by phone, DW will dispatch a certified technician to attempt repair of your machine at your place of business, usually the next business day.

NDAA/TAA Compliant

DW IP cameras, analog cameras, NVRs, DVRs, network devices and management software sold and distributed worldwide are designed and developed in the U.S.A. and Korea, with manufacturing in Korea, Vietnam and Taiwan.

Most DW products qualify for GSA Schedule Contracts and other government opportunities because they are TAA and NDAA compliant.

NDAA/TAA
COMPLIANT PRODUCT

GSA

Trade
Agreements
Act FAR 52.225-5

All-in-One NVR and Analytics Appliance

AI Servers:

PART NUMBER		Blackjack Ai Rack™ 2U w/RAID (DW-BJAi2RxxTR)	Blackjack Ai Rack™ 2U w/RAID (DW-BJAiRxxTR)	Blackjack Ai P-Rack™ 2U w/RAID (DW-BJAiPxxTR)	Blackjack Ai Tower™ full-size (DW-BJAiTxxTR)	Blackjack Tower™ mid-size (DW-BJAiMTxxT)
Included DW Spectrum IP Licenses		8 (2x DW-SPECTRUMLSC004)		4 (DW-SPECTRUMLSC004)	4 (DW-SPECTRUMLSC004)	
Included DW Ai Server Licenses		8 (2x DW-DWAiSLSC004)		4 (DW-DWAiSLSC004)	4 (DW-DWAiSLSC004)	
Form Factor		2U Rackmount			Full-Size Tower	Mid-Size Tower
Operating System		Windows 10 64 Bit on 2 x 240GB NVMe SSD (RAID1)		Windows 10 64 Bit on 480GB SSD		
CPU		Dual XEON Gold 6248R	XEON Gold 6248R	Intel® i7 processor	Intel® i7 processor	
Memory		64GB	32GB	32GB	32GB	
Ethernet port		2x 10Gb SFP+, 2x 1Gb base-T		2x 1G Ethernet ports	2x 1G Ethernet ports	
System	Max Video Storage rate (Mbps)	600Mbps	600Mbps	320Mbps	320Mbps	320Mbps
Storage	Max # of Analytic Streams (Secondary)	Up to 128	Up to 64			
	Maximum Storage	160TB, RAID5		96TB, RAID5	96TB, RAID5	48TB
Video-Out	Outputs	1x Display Port, for system configuration				
	Video Card	NVIDIA RTX A4000 16GB		NVIDIA RTX A2000 12GB	NVIDIA RTX A2000 12GB	NVIDIA RTX A2000 12GB
Preloaded VMS Software		DW Spectrum IPVMS				
Preloaded Analytic Software		DW Ai Server				
Rail Kit		Included	Included	Included	---	
Warranty		5 year HW warranty with next day on-site repair after remote diagnosis, keep your drive		5 year limited	5 year limited	5 year limited

AI Appliances:

PART NUMBER		Blackjack Ai APPLIANCE (DW-BJAiASL)	Blackjack Ai APPLIANCE (DW-BJAiARA2)	Blackjack Ai APPLIANCE (DW-BJAiAR2PA2)	Blackjack Ai APPLIANCE (DW-BJAiARA4)	Blackjack Ai APPLIANCE (DW-BJAiAR2PA4)
Included DW Spectrum IP Licenses		N/A				
Included DW Ai Server Licenses		4 (DW-DWAiSLSC004)				
Form Factor		Slim Desktop	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Operating System		Windows 10 IoT LTSC on separate SSD	Windows 10 IoT LTSC on separate RAID1 configured m.2 NVMe SSD			
CPU		12th Gen Intel® Core™ i7 processor	Intel XEON Silver 4215R	2 x Intel XEON Silver 4215R	Intel XEON Silver 4215R	2 x Intel XEON Silver 4215R
Memory		32GB	32GB	64GB	32GB	64GB
Ethernet Port		1 x 1Gb, 1x 2.5Gb Ethernet ports	4 x 1Gb Ethernet ports	4 x 1Gb Ethernet ports	4 x 1Gb Ethernet ports	4 x 1Gb Ethernet ports
System	Max # of Analytic Streams (Secondary)	Up to 64	Up to 24	Up to 48	Up to 32	Up to 64
Video-Out	Outputs	1x mini Display Port, for system configuration			1x Display Port, for system configuration	
	Video Card	NVIDIA RTX A2000 12GB	NVIDIA RTX A2000 12GB	2 x NVIDIA RTX A2000 12GB	NVIDIA RTX A4000	2 x NVIDIA RTX A4000
Preloaded Analytic Software		DW Ai Server				
Ai Configuration Tool Supported OS		Cross-platform - Windows® and Linux Ubuntu®				
Rail Kit		N/A	Included			
Warranty		5 years limited warranty	5 year HW warranty with next day on-site repair after remote diagnosis			

*** An uninterrupted power supply (UPS) is recommended.

Designed and Commissioned in the U.S.A

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