VCA BEHAVIOUR

Our Advanced VCA Behaviour video analytics solution integrates **Deep Learning** and **Artificial Intelligence** engines to deliver superior performance in monitoring and security. Designed to work with our Omnia VMS and uSee VsaaS platforms, VCA Behaviour allows you to improve control and operational efficiency across a wide range of applications. From detecting suspicious behavior to workplace safety and compliance with safety regulations, our solution represents the future of video analytics.

Thanks to the **Deep Learning Skeleton Tracker engine**, VCA detects and tracks the positions of the human body to recognize movements and behaviors, or interactions with objects. This is particularly useful in multiple scenarios, where it is essential **to accurately monitor** people's behavior, **receive real-time event notifications** and **automate security procedures**.

Behavioral Detection with Advanced AI

With VCA Behavior, you can identify a wide range of abnormal behaviors, including **fights, falls, raised hands**, and **the presence of objects in your hand**. These algorithms offer advanced protection for environments such as schools, sports centers, businesses and public areas, significantly increasing security.

Detection of Protective Accessories (PPE)

Ideal for construction sites and industrial areas, the system detects the use of **safety helmets** and **high-visibility vests**. This ensures that staff comply with security regulations while also offering automated access control.

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Fields of Application

Retail and
Shopping Centers
Improve security by preventing fights and theft with advanced detection and behavioral analytics.

Construction sites
and logistics
Maintain high safety standards by automatically verifying the use of protective equipment (PPE), intelligently managing access to construction sites or risk areas in real time.

Smart Cities and
Public Safety
Our continuous monitoring solutions help protect smart cities, preventing incidents and improving the efficiency of security operations.

Benefits of the Solution

Improved Security
Our advanced detection algorithms offer real-time protection against suspicious behavior, helping businesses respond quickly to any threats.

Seamless integration
Designed to work with Omnia Extreme VMS and uSee VsaaS, our technology integrates easily into existing systems, offering centralized security management.

Advanced Deep
Learning Technology
Deep learning algorithms ensure precise and detailed video analysis, allowing the solution to be adapted to different operational needs.

Scalable and Flexible
Solution
Suitable for all types of businesses, from small businesses to large infrastructures, our technology adapts to the cameras you already have installed and is designed to grow with your needs.

Minimum system requirements	
OS	Windows 10
CPU	Intel i3 generation 10 or later, or Intel Xeon E series
RAM	8GB or higher
GPU	NVIDIA Cuda Toolkit 12.0 or higher
Network	Ethernet, 1 Gigabit
HDD Space	1TB HDD
Arteco VMS Version	22.0 or later
Minimum video setting requirements	
Encoder video stream	H.264, H.265
Resolution	320*240
Framerate	10 fps

Recommended system requirements	
OS	Windows 10
CPU	Intel i7 or i9 generation 10 or later, Intel Xeon W series or later
RAM	16GB or higher
GPU	NVIDIA Cuda Toolkit 12.0 or higher
Network	Ethernet, 1 Gigabit
HDD Space	1TB HDD
Arteco VMS Version	22.0 or later
Recommended video setting requirements	
Encoder video stream	H.264, H.265
Resolution	480P
Framerate	15 fps