

Avigilon Unity Video 8

Security that is powerful, intelligent and unified

Avigilon Unity Video 8 is an on-premise, end-to-end video management solution designed with a new and innovative architecture. It seamlessly merges Avigilon's time-tested AI-powered on-premise VMS with advanced cloud-managed features, enabling effortless management of multiple sites and users, unified login for all applications and a single installer for software updates. Elevate your situational awareness with our most powerful edge analytics platform, AdaptAI, to detect potentially critical events such as unusual crowds and flag auditory disturbances.



Enhanced access control of video

Take command of video access with Unity Privilege Management. Centrally manage user privileges across all sites in your organization from a single unified interface.



Convenience with the cloud

Experience easy access to camera feeds and receive real-time mobile notifications, whether at your desk or on the move. Unity Video Services keeps you connected and informed anytime, anywhere.

Features



Unity Privilege Management

Centrally configure roles, user groups and policies across your organization to harmonize privileges on all sites.



Single login credential

Enjoy simple and hassle-free management on all aspects of your video management system with a single, unified login.



Clip link sharing

Easily export and share short video clips via a link enabled by Unity Video Services. No additional licenses, fees, or subscriptions are required.



Facial Recognition Technology

AI-powered facial recognition technology that helps organizations accelerate response times by identifying people of interest. Populate watch lists easily by uploading images or finding faces from recorded video.

Features



Cloud-managed Unity Video

Whether at the office or on the go using a mobile device, easily access camera feeds and manage system settings from a single interface.



Focus of Attention Interface

A cutting-edge user interface for live video monitoring that leverages AI and video analytics technologies to determine what information is important and should be presented to security operators.



License plate recognition analytics

Automatically reads license plate information from vehicles, linking it to both live and recorded video. Create and import multiple vehicle license plate watch lists for instant alarm notification when a license plate match is detected, or search and quickly find specific captured license plate video for verification and investigation.



Single installer

Streamline software upgrades with the ability to automatically download all Unity Video software components with a new single installer from Unity Cloud Services.



Avigilon Unity Video Mobile app

Gain a holistic view of your site alerts from the home screen with alarm notifications. You can easily switch between organizations and sites with Org and Site selectors. Easily toggle between recorded and live video streams with the newly designed video player using live and recorded views.



Visible Firearm Detection (VFD)

Have confidence that your people are secure and protected against potential threats. Receive real-time alarms when brandished firearms are detected at your site and act faster.¹



Simple camera and server installation

Plug-and-play capabilities for NVRs and cameras that automatically identify themselves on the network, without manual configuration or searching.



Scalable integration with external systems

Distributed architecture features .NET-based and REST-based APIs that can easily be integrated with other systems, such as access control and building management.



Avigilon Appearance Search™ Technology

Sophisticated AI-powered video search engine to search for a person or vehicle of interest by entering a physical description, uploading a photo, or finding an example in recorded video.



Access control unification

Verify the identity of the person entering your premises with seamless unification of Unity Video with your Unity Access system.



Avigilon decision management module

Enable a 100% cloud-based decision management module within Unity Cloud Services. Streamline investigations with an intuitive interface, easily unify video, access control and intrusion management into a single screen.



License Plate Recognition and Point-of-sale

LPR and POS features are available for all editions of Unity Video and on all platforms (including AI NVR and ENVR2).



Appearance Search with more vehicle subclasses

Search your video footage for more vehicle subclasses, including van, pick-up truck and commercial/box truck.



HDSM smartcodec™ Technology support

Automatically adjusts compression levels for regions in a scene, to optimize bandwidth while still maintaining image quality.



Video archive

Retain and manage large amounts of video for on-demand retrieval and review. Extend your storage beyond NVRs using the Avigilon Video Archive for reliable and scalable storage.



onvif® profile S, T and G compliant VMS

Allows video and audio recovery from SD cards installed in Profile G cameras in case of network failure. Ensures interoperability between ONVIF conformant security devices.

¹VFD is currently available only on AI NVR and ENVR2. A separate license is required.

AdaptAI Analytics



Unusual Activity Detection

UAD technology enables object-level detection of atypical activity. This edge-based intelligence uses advanced AI technology and is designed to be object-aware, enabling operators to know when a person or vehicle is in an unusual location in the scene or moving at an unusual speed.



Unusual Motion Detection

UMD technology enables fast video search and is designed to reduce hours of work to minutes by narrowing potentially thousands of motion events to a handful. This allows operators to focus their attention on recorded video needing further investigation.



Video Analytics

Be a step ahead of incidents with the camera's ability to flag unusual crowds or a person crawling under a fence. Classify more objects such as a commercial van, pick-up truck or box truck with analytics event support.¹



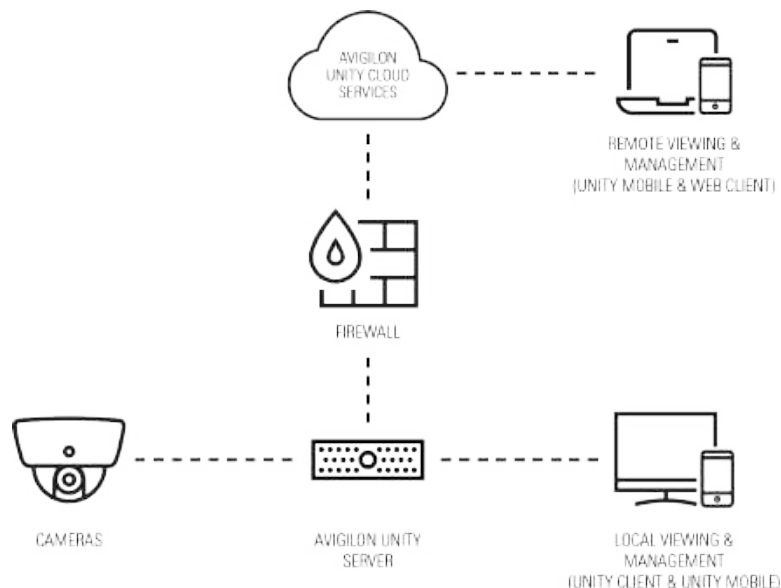
Audio Analytics Recording

Expand your awareness with alerts for gunshots², breaking glass, screaming and more. Review video from the triggering camera to investigate the sound. Have the option to record audio when you need it.



Dynamic Privacy Masking

Easily meet privacy requirements with the ability to track and blur people and vehicles appearing in video, but have the flexibility for authorized personnel to lift it during investigations.³



¹Crowd detection to be available post-launch via a firmware upgrade.

²Separate license required.

³Dynamic privacy masking to be available post-launch via a firmware upgrade.

System Requirements

Unity Server Software

System Requirements	Minimum	Recommended
Operating System	Windows Server 2022 Windows Server 2019 1809 or later Windows Server 2016 1607 or later Windows 11 Windows 11N (with Media Feature Pack installed) Windows 10 (64-bit) 1607 or later Windows 10N (64-bit) (with Media Feature Pack installed)	Windows Server 2022 Windows 11 Windows 10 (64-bit) 21H2 LTSC Value or later
Processor	Intel® dual-core CPU (2.0 GHz) with SSE2	Intel® Xeon® E (1.9GHz)
System RAM	4 GB DDR3	16 GB DDR4
Network Interface	1 Gbps	4 x 1 Gbps
Hard Drives	SATA-II 7200 RPM Enterprise Class Hard Drives	SATA-III 7200 RPM Enterprise Class Hard Drives
GPU Card (only required if using Avigilon Appearance Search and Face Recognition)	- NVIDIA Ada Lovelace™, NVIDIA Ampere™, NVIDIA Turing™ or NVIDIA Pascal™ Architecture - CUDA GPU Compute Capability of 8.9, 8.6, 7.5 or 6.1 - 4 GB GPU Memory - Unity 8.5.0 or above minimum Windows (64-bit) driver version: 520.06	NVIDIA RTX A1000 (8 GB)

Unity Client Software

System Requirements	Minimum	Recommended
Operating System	Windows 11 Windows 11N (with Media Feature Pack installed) Windows 10 (64-bit) 1607 or later Windows 10N (64-bit) (with Media Feature Pack installed)	Windows 11 Windows 10 (64-bit) 21H2 LTSC Value or later
Processor	Intel® dual-core CPU (2.0 GHz) with SSE2	12th Gen Intel® Core i5
System RAM	4 GB DDR3	8 GB DDR4
Video Card	N/A	NVIDIA T1000 (8 GB)
Network Interface	1 Gbps	1 Gbps
Hard Disk	256 GB SSD	256 GB SSD

Unity Mobile app

System Requirements	Minimum
Operating System	iOS 15 or later Android 11.0 or later

Software Editions

System	Core	Standard	Enterprise
Cameras per server	24	75	300+ ¹
Cameras per site	24	75	10 000+ ²
Servers per site	1	1	100+ ³
Client licenses per server	2	10	Unlimited
Maximum bookmarks	10 000	10 000	10 000
Rule triggers	0	51	Unlimited
HDSM technology support	✓	✓	✓
HDSM SmartCodec technology support	✓	✓	✓
Dual Streaming for ONVIF compliant cameras	✓	✓	✓
H.265, H.264, MPEG4, MJPEG, JPEG2000 video compression	✓	✓	✓

Device Support	Core	Standard	Enterprise
Automatic device discovery	✓	✓	✓
Fisheye dewarping	✓	✓	✓
Third-party IP cameras and encoders	✓	✓	✓
ONVIF compliant cameras and encoders	✓	✓	✓
H6A cameras (available October 2023)	✓	✓	✓
H6SL cameras	✓	✓	✓
H5A cameras with AdaptAI Video Analytics	✓	✓	✓
H5 Pro and H4 Pro cameras	✓	✓	✓
H4A cameras with Self-Learning Video Analytics	✓	✓	✓
H5SL, H5M, H4SL, H4 Multisensor, H4 PTZ, H4 IR PTZ, H4 Fisheye, H4 Mini Dome, H4ES, and H4 Thermal cameras	✓	✓	✓
H4 Thermal Elevated Temperature Detection (ETD) cameras	✓	✓	✓
Avigilon H3, HD and earlier cameras	✓	✓	✓
Avigilon analog video encoder	✓	✓	✓
Avigilon Presence Detector (APD) sensor		✓	✓
H4 Video Intercom		✓	✓
Avigilon AI Appliance			✓

¹Actual limits will depend on the hardware environment. Please review Avigilon Unity Server and appliance datasheets for applicable limits.

²See footnote 1 about actual limits.

³See footnote 1 about actual limits.

Client	Core	Standard	Enterprise
Video Analytics overlays (AdaptAI Video Analytics, Self-Learning Video Analytics, UAD and UMD)	✓	✓	✓
Joystick support	✓	✓	✓
ACC Mobile 3 app / Web Endpoint including mobile alarm notifications	✓	✓	✓
Avigilon Unity Video app / Web Endpoint including mobile alarm notifications	✓	✓	✓
Avigilon Unity Cloud Web Client	✓	✓	✓
FIPS 140-2 Encryption	✓	✓	✓
Certificate management between Avigilon Unity Client and Server	✓	✓	✓
Emergency privilege override	✓	✓	✓
Two-factor authentication	✓	✓	✓
Password strength meter	✓	✓	✓
Light and dark interface themes	✓	✓	✓
Editable Site View	✓	✓	✓
Multi-camera export with optional password protection	✓	✓	✓
Hourly configurable recording schedule	✓	✓	✓
Active Directory integration	✓	✓	✓
Saved views		✓	✓
Maps with configurable icons and camera thumbnail previews		✓	✓
Integrated web page bookmarking and display		✓	✓
Focus of Attention interface			✓
Intelligent Virtual Matrix			✓
Collaborative investigations			✓
Multi-camera privacy blurred export from Avigilon Appearance Search results			✓

Search	Core	Standard	Enterprise
UAD and UMD timeline filtering with Skip Play	✓	✓	✓
Intelligent motion search	✓	✓	✓
Thumbnail search	✓	✓	✓
Event search	✓	✓	✓
Point-of-sale (POS) transaction search	✓	✓	✓
License plate event search	✓	✓	✓
Avigilon Appearance Search technology			✓
Alarm search			✓

Avigilon Unity Video Interoperability with ACM System	Core	Standard	Enterprise
Door and panel input event triggers		✓	✓
Door access grants		✓	✓
Shared operator access		✓	✓
ACM Identity Verification		✓	✓
ACM Identity Search		✓	✓

Add-on Modules and Integrations	Core	Standard	Enterprise
POS transaction engine	✓	✓	✓
License Plate Recognition with multiple match lists	✓	✓	✓
Avigilon developed and supported integrations		✓	✓
Third party system integrations		✓	✓
Face Recognition with multiple watch lists			✓
Visual Firearm Detection			✓

Additional Features	Core	Standard	Enterprise
System and motion event e-mail notifications	✓	✓	✓
Two person authenticated recorded video viewing	✓	✓	✓
Camera replacement	✓	✓	✓
Share video clip via link (max. 5 minutes)	✓	✓	✓
Central station notifications including ANSI/SIA DC-09-2013		✓	✓
Digital input email trigger		✓	✓
Certificate management between Unity Client and Server		✓	✓
Emergency privilege override		✓	✓
Manual digital output trigger		✓	✓
Audio recording and output		✓	✓
APD™ event trigger		✓	✓
AdaptAI Video Analytics and Self-Learning Video Analytics event configuration		✓	✓
Camera standby / privacy mode		✓	✓
One-time Video Archive		✓	✓
Avigilon AI Appliance analytics configuration			✓
Redundant recording			✓
Failover connections			✓
Unity Client alarm notifications and escalation			✓
Tiered Storage Management with Continuous Archive			✓

