

PRODUCT

AIVU-VMS

**The powerful and easy-to-use
Video Management Software**

AiVu-VMS is an application meant for the management, display and transmission of video-streams from cameras and devices of a video-surveillance network.

AIvU-VMS

QUALITY, SECURITY, RELIABILITY

AiVu-VMS is a reliable, high-performance video-management solution that includes all functionalities required for the configuration of devices, the management of user profiles, the distribution of video streams and the storage of recordings.

AiVu-VMS is available on virtual platforms or standard servers and thanks to a highly-scalable server architecture allows to create solutions capable of meeting any security requirement.

The front end generates HTML5 pages for remote access from PC clients and mobile devices. AiVu-VMS manages access to resources from external networks via a proxy module, allowing access to video streams over the Internet while preventing direct access to video cameras and connected AiVu-NVR video recorders.

Besides, the software optimizes the distribution of video streams to clients by employing a gateway module capable of replicating streams and performing on-the-fly restreaming, to satisfy the needs of clients connected over a limited-bandwidth network.

AiVu-VMS is an open platform designed for integration into third-party applications (supervisory systems, access control systems, etc.).

Available on certified hw platform or installable on a virtual platform

Centralized management of access to live streams, recordings and alarms

Server redundancy to eliminate problems caused by failures, lack of connection, etc.

Compliant with privacy regulations

PC Client and web Client

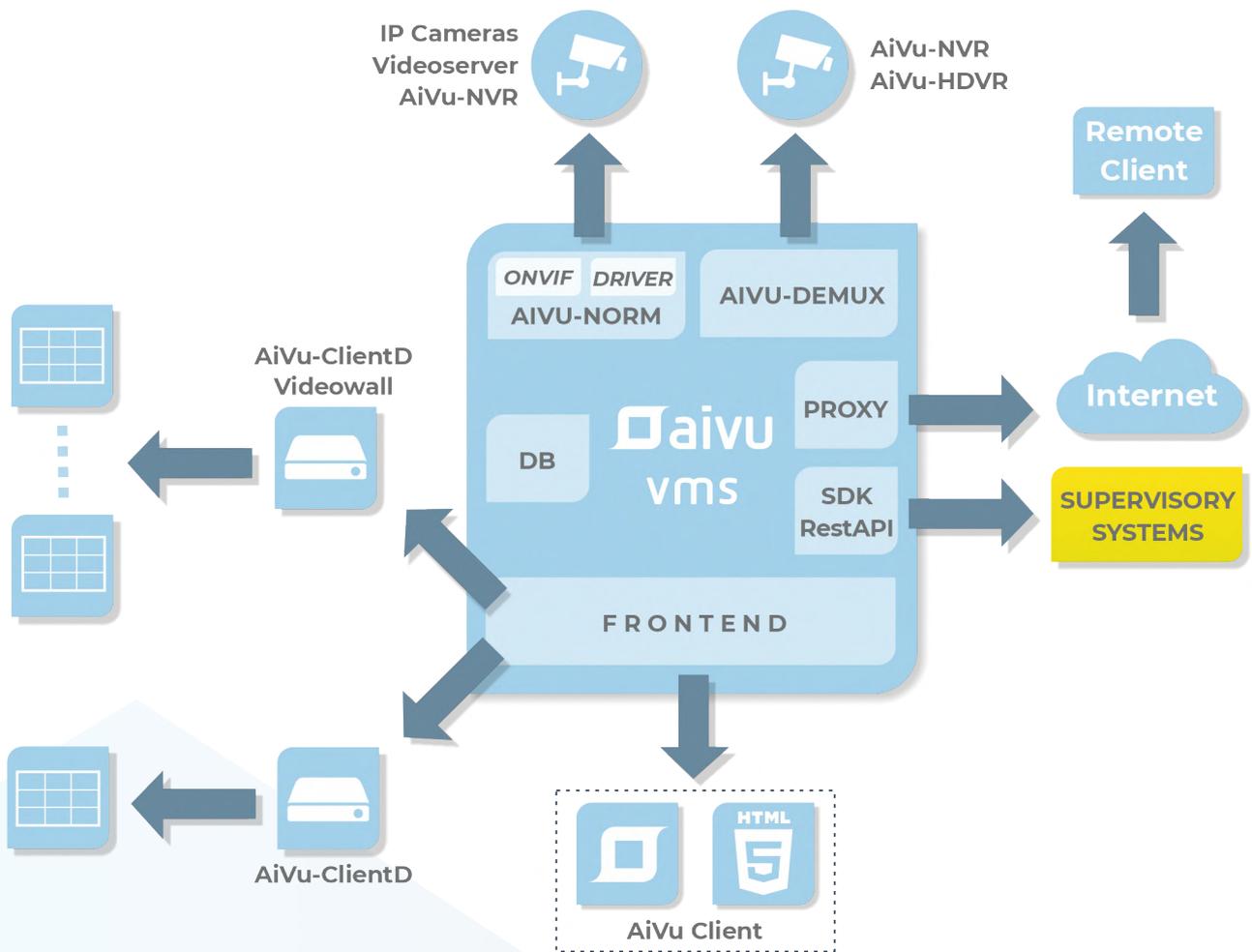
Management of remote decoders for viewing on monitors or videowalls

Configurable, self-balancing video-quality and bandwidth

Connections to AiVu-NVR devices via secure protocols

Browser-integrated H264/WebM streaming with no need of plugins

AIVU-VMS ARCHITECTURE



IDEAL FOR DISTRIBUTED AND LARGE-SCALE CCTV APPLICATIONS

AiVu-VMS is based on a client-server architecture to provide maximum flexibility, customization and integration. A single AiVu-VMS server can supervise many distributed AiVu-NVR recording devices and ONVIF-compliant video cameras, efficiently managing all connected devices, regardless of system size and geographical distribution.

The great performance of AiVu-VMS and the wide variety of features ensure the transmission of video streams to decoders for display on monitors and access to live and recorded streams both from fixed workstations and from mobile devices of security personnel, allowing to reduce response times.

Furthermore, AiVu-VMS can manage AiVu-Client D, the video wall controller specific to control rooms that allows operators to constantly control monitored areas, share live streams, recordings and alarms, in order to better coordinate response activities to any event.

Optionally, AiVu-VMS can integrate video analytics algorithms for real-time detection of a wide range of events capable of affecting the security of monitored areas and related to people, objects or vehicles, but also acquire data useful for generating statistics and business intelligence analysis.

AIVU-VMS FEATURES



Secure, powerful and easy-to-use

User-friendly interface

A frontend interface accessible from any browser allows access to alarms and live and recorded streams, and includes a full range of tools tailored to the needs of distributed and large-scale video surveillance solutions.

A single interface provides complete control over all connected devices, user lists and available features, independently of system size.

Simultaneous display of multiple video cameras

The multi-monitor display mode allows security personnel to simultaneously view up to 16 live or recorded streams. The use of timelines and time filters makes video stream selection as simple as possible.

Easy access to recordings

The recording archive is divided in time intervals to simplify browsing and not require to view large amounts of streams. The advanced search tools allow to very easily find significant events, by selecting recordings based on date, time or video camera of interest. Recordings of interest can be downloaded quickly and easily by using a dedicated selection form.

Advanced user profiles

AiVu-VMS allows system administrators to define different levels of access to the features of AiVu-VMS, based on the tasks of users or according to a hierarchical structure. Access to the cameras, recording archive, alarm console and system configuration interface can be defined according to business and/or operational requirements..

AIVU-VMS FEATURES

Alarm manager

AiVu-VMS provides the real-time management of alarms generated by video signal loss, network failures or status changes of digital inputs. Integration with video analytics software modules is available as an option. All alarms, except for video or network failures, are automatically associated with the corresponding video recordings.



Video camera patrols

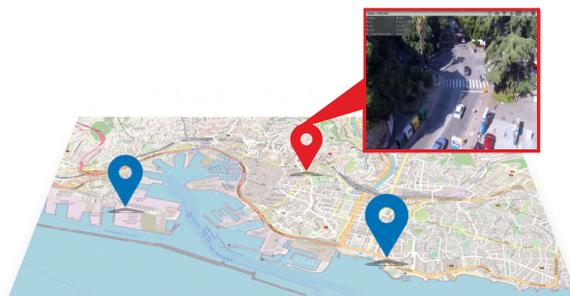
AiVu-VMS simplifies the guarding activities of security officers by providing the patrol functionality, i.e. the cyclic display of live images from a series of cameras positioned in the monitored areas.

The patrol editor allows operators to select the cameras of interest, define the display layout (full screen or multi-monitor) and the display time of each video stream within the patrol.

Patrols are sent to the decoders to be displayed on monitors and allow the security personnel to remotely control the monitored areas, without the need for field inspections.

Interactive maps

To make the user experience even easier, AiVu-VMS supports static maps and mapping services thanks to an internal map server, to provide an overview of the video monitored sites. All that is required is to upload the maps of interest (buildings, warehouses, large open areas, etc.), then simply just drag and drop icons corresponding to deployed video cameras and NVR devices. The map of monitored sites can be displayed on the home page of the AiVu-VMS interface: with just a few clicks operators can access images and respond to any event as quickly and efficiently as possible.



Decoder management

A dedicated tool allows to send live and/or recorded streams to connected decoders. All that is required is to select the video cameras of interest (and the time interval in case of recordings) and drag and drop in the layout of the decoder to automatically display the video stream on the connected monitor.

Data backup

The Backup option allows users to save the current configuration of the database containing the AiVu-VMS data. A periodic backup of the database is automatically created and stored as encrypted and non-editable file which can be downloaded and used to restore the server in case of need.



OPTIONAL
AiVu-Norm

The Normalizer module acts as a proxy for managing access to video streams from any video server or IP video camera compatible with the AiVu system (if no AiVu-NVR devices are involved): when two or more clients simultaneously request the display of a same video stream, AiVu-Norm connects to the device forwarding a single request and it retransmits the video stream using the format and resolution parameters requested by the clients..



OPTIONAL
AiVu-Demux

The Demultiplexer module manages access to video streams from cameras connected to an AiVu-NVR device, without re-compressing images: when two or more clients simultaneously request the display of a same video stream, AiVu-Demux forwards a single request to the AiVu-NVR and returns streams to the clients according to format, resolution and frame rate parameters set for the selected camera.



OPTIONAL
Vehicle plate recognition

AiVu-VMS integrates video cameras for the recognition of license plates, associating the acquired information (license plate, date/time, etc.) with the video recording corresponding to each vehicle. This reliable feature can be used for real-time detection of the occupancy status of each parking space (free/occupied) within parking areas.



OPTIONAL
Digital I/O management

AiVu-VMS allows to assign an input/output signal to a video camera, i.e. sending a command to a remote device by pressing a dedicated button. For example, the command to open a gate framed by a camera can be sent simply by clicking on a special button in the AiVu-VMS viewer.



OPTIONAL
Video wall management

AiVu-VMS can manage a controller specifically designed by Aitek for control rooms, where a large number of streams from IP video cameras or video servers must be displayed on the monitors composing a video wall. AiVu-VMS provides control room operators with real-time access to all available features: live streams, recordings, alarms, maps and all the tools allowing constant control over monitored areas.



OPTIONAL
Tracking

AiVu-VMS can be employed to manage mobile video surveillance systems (such as those on board public transport, company vehicle fleets, security service vehicles) or to implement solutions which acquire images from smartphones or tablets. By using dynamic maps, a dedicated section of the AiVu-VMS interface allows to monitor the route taken by video recording devices installed on board vehicles and access the images from connected video cameras.

AIVU-VMS TECHNICAL FEATURES

- ▶ User-interface with access to system functionalities based on user profile level
- ▶ Configuration of users with different access levels to system functionalities
- ▶ Multi-language support
- ▶ Reporting tools for checking system status
- ▶ Integrated applet to display footage including all player controls
- ▶ PTZ camera controls
- ▶ Simultaneous display of multiple live streams in multi-tail mode
- ▶ Customised menu for the selection of video cameras according to logics, site and type of camera
- ▶ User-friendly selection and downloading of recordings
- ▶ Advanced management of configurations: parameters can be copied from one device to another
- ▶ Advanced management of access rights: permissions can be copied from one user/group to another
- ▶ Configuration of scheduled video camera patrols for cyclic display of live images from selected cameras
- ▶ Encrypted video streams to ensure the video integrity, no risks of unauthorized access
- ▶ System configuration backup can be used in case of failure and server malfunction
- ▶ Log files to display past activities performed by users
- ▶ Control of video streams via mouse, joystick or through third-party interfaces
- ▶ Cybersecurity: secure web client access via connections based on HTTPS and SSL protocols
- ▶ Cybersecurity: integrity of the sw preventing any external access, tampering or installation of malware

**AiVu-VMS is conformant
with ONVIF profiles S and G**





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