



AVS+

Assessment Video System +





Healthcare Video Systems Assessment Video System +

Healthcare Video Systems (HVS Systems) is a French company specializing in the development of advanced audio/video solutions for medical simulation.

Based in the Paris region, we design powerful, intuitive, and mobile interfaces that support healthcare professionals in their educational mission with tools at the cutting edge of technical developments.



OUR MISSION

Simplify your processes to maximize educational quality.

In a constantly evolving medical sector, our solutions are designed to be easy to deploy, scalable, highly secure, and high-performing.



OUR VISION

Democratizing technological excellence.

Our developers are experts in the latest programming advances and apply state-of-the-art software engineering development practices: robust architectures, optimized performance, enhanced security.



OUR PRESENCE

A rapidly expanding network.

Today, HVS Systems is recognized as one of the market leaders in France.

Our international distribution network is actively expanding in Europe, Asia, the United States, and Africa, strengthening our presence month after month in the global medical simulation market.

"Innovation at the service of education"



AVS+: The all-in-one management system for your simulation center

Assessment Video System +

In a context where healthcare simulation plays an increasingly central role in improving the quality of care, training institutions must rely on high-performance tools that are secure and adapted to their educational realities.

Complete management

AVS+ (Assessment Video System Plus) goes far beyond audio/video recording: it is a comprehensive management platform designed to structure, coordinate, and develop all your simulation activities.

Learning Management System

With AVS+, you get a true next-generation Learning Management System designed to optimize educational performance, simplify day-to-day management, and support excellence at your simulation center.

Developed to meet the requirements of simulation centers and academic institutions, AVS+ allows you to:



Centrally manage your human resources, equipment, rooms, and consumables



Organize access rights according to roles (students, trainers, administrators)



Record and analyze each simulation session and debriefing



Track your learners' skill development with a 360° educational view



Secure all your sensitive data using advanced cybersecurity protocols

One platform. Multiple uses. Unlimited growth.



AVS+: a comprehensive, modular, and scalable platform

Designed to meet the needs of simulation centers of all sizes, AVS+ combines all the essential functions for organization, educational monitoring, and performance analysis in a single interface.

- ✓ **Recording & debriefing**
Multi-stream audio/video adaptation, synchronization, annotation, and export
- ✓ **Educational follow-up & assessment**
Post-simulation analysis, understanding at the end of the debriefing, longitudinal follow-up
- ✓ **Planning & logistics**
Room reservations, simulators, resources, conflict alerts
- ✓ **User management**
Student, instructor, administrator, and group profiles with customized access
- ✓ **Equipment supervision**
Monitoring of simulators, consumable thresholds, anticipation of replenishments
- ✓ **Security & compliance**
Quantitative data, intrusion detection, logging, GDPR compliance



Planning

Intuitive management of rooms, equipment, and staff



Capture

Multi-source supervision of audio/video streams



Integration

Centralization of data and resources



Assessment

Advanced teaching tools for debriefing

AVS+ is a modular solution: you only activate the features you need, according to your educational, technical, or budgetary priorities.

And because centers evolve, AVS+ is also scalable: it adapts naturally to the addition of new rooms, users, equipment, or campuses, without changing the infrastructure.



Hardware compatibility & technical integration

Our interface is compatible with all IP cameras and microphones on the market, whether they are already installed or newly selected. This means you can reuse your existing equipment or let us suggest a range of brands to suit your needs, from high-end to budget options.

AVS+ has been designed to integrate into your simulation center without technical constraints or unnecessary additional costs.

Custom integration

- Multi-brand IP cameras (ONVIF/RTSP compatible)
- IP microphones (Dante protocol) or analog microphones via auxiliary interface
- Secure wired and Wi-Fi networks
- Windows or Mac workstations

Equipment available on request

- Wide choice of suppliers (cameras, microphones, servers, network equipment)
- Customized configuration according to your quality criteria or budget constraints
- Technical advice for a consistent and scalable installation

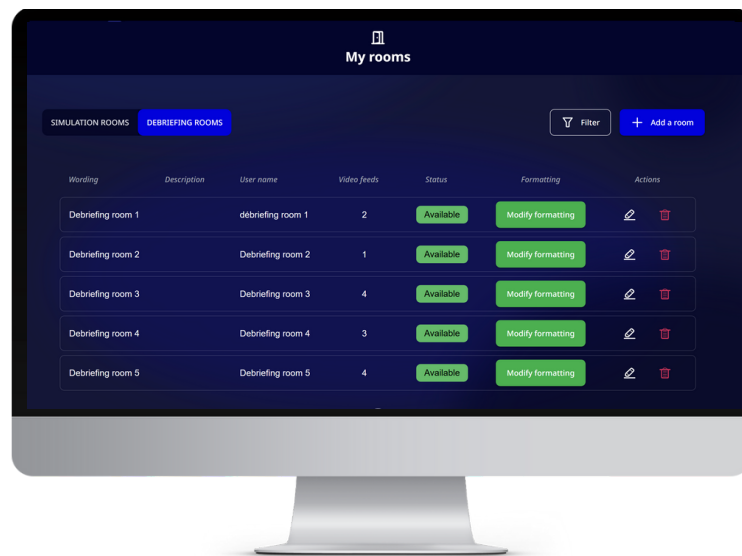
A flexible solution that is compatible and suitable for all environments.

Registration & debriefing

High-precision audio/video and physiological recording for a comprehensive debriefing.

The system can record up to 9 4K video streams per room, with perfect audio/video synchronization and no latency. Thanks to customizable layouts, each center can create its own visual configuration based on the type of session or analysis desired.

On the audio side, AVS+ integrates Dante and AES67 technologies, enabling the use of a professional virtual mixing console: each microphone (student, trainer, observer) can be isolated, balanced or enhanced for a realistic debriefing.



But AVS+ goes even further: it is fully compatible with all high-fidelity manikins on the market. Integration with Gaumard manikins via the Uni software allows you to:

- Automatically capture all actions performed during the simulation
- Generate an Excel report of the session
- Create video tags synchronized with physiological events for a structured debriefing

The system can also connect to real scopes, ventilators, and medical equipment to replicate authentic care conditions and enrich the simulation.

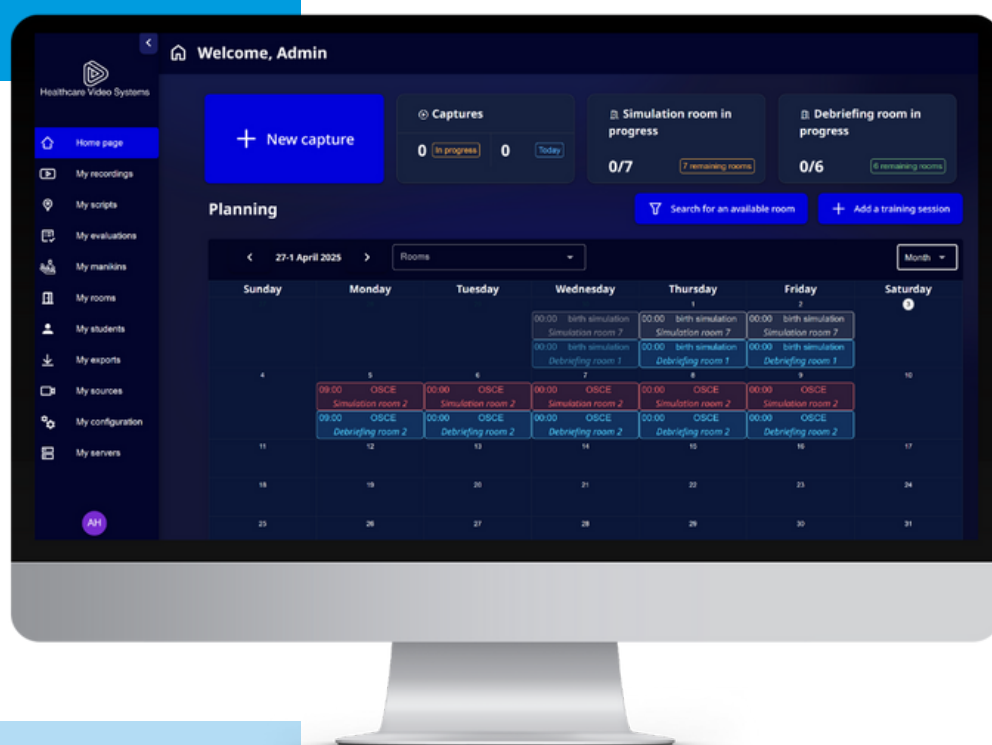
Finally, AVS+ allows you to record both the simulation and the debriefing and link the two videos in the interface for comprehensive, continuous, and seamless educational analysis.

For even richer interaction, AVS+ allows you to send files, images or videos to simulation or debriefing rooms. This is an ideal feature for integrating clinical exams, patient documents or visual elements from the scenario.

Key features:

- Up to 9 synchronized 4K video streams
- Customizable layouts and latency-free playback
- Professional audio mixing (Dante/AES67)
- Automated recording and tagging of manikin actions (Gaumard Uni)
- Connection to real medical equipment
- Automatic recording and linking of simulation and debriefing sessions
- Real-time sending of files, images and videos to simulation and debriefing rooms

A comprehensive overview of your learners' progress and skills



AVS+ integrates powerful assessment, monitoring, and educational analysis tools. With a 360° view of each student, you can observe skill development over time, identify progress, and target areas for improvement.

➔ Key features:

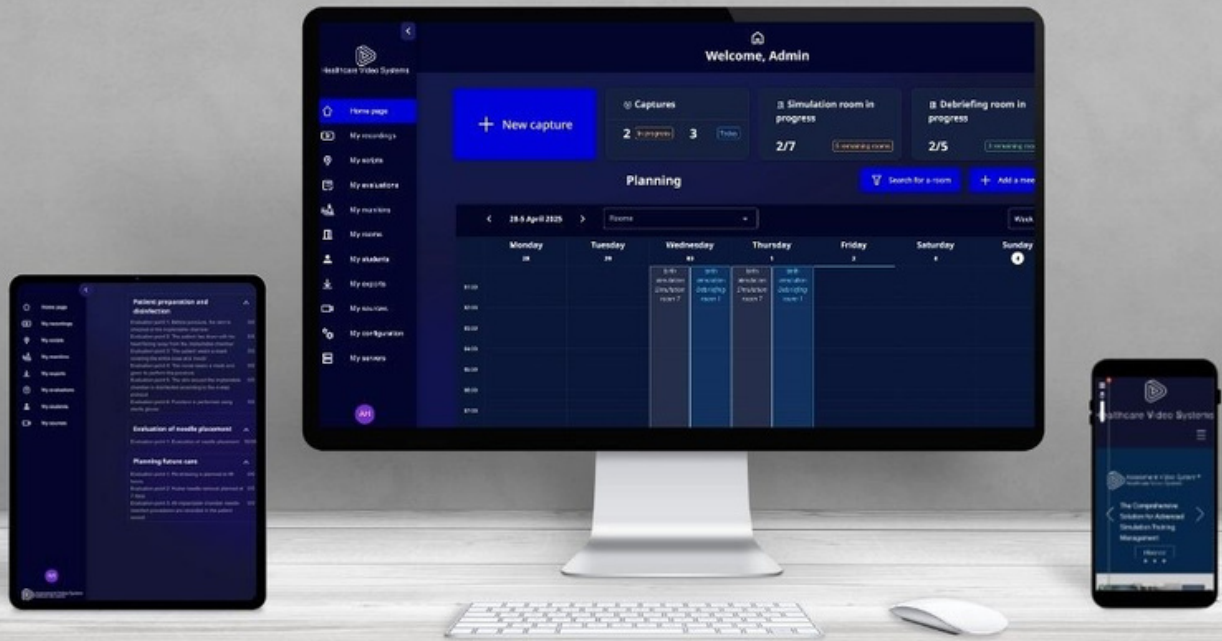
- Longitudinal monitoring of each student
- Performance indicators & proficiency levels
- History of assessments, observations, and formative feedback
- Post-debriefing comprehension analysis
- Measurement of the educational impact of debriefings
- CSV exports for archiving or sharing

But AVS+ goes further: post-debriefing assessments not only measure learners' actual understanding, but also evaluate whether the message conveyed by the trainer has been properly received.

This direct feedback helps trainers adjust their methods, refine their objectives, and improve the quality of their debriefings.

With AVS+, you don't just track your students, you also improve your teaching practices.

MANAGE YOUR CENTER WITH PRECISION, SECURITY, AND FLUIDITY



AVS+ centralizes the organization of your simulation center, simplifying planning, access management, and equipment supervision, all in a highly secure environment.



Each user (student, trainer, administrator, etc.) has personalized access according to their role. You can manage rooms, simulators, hardware resources, and schedules in real time, with automatic alerts to avoid conflicts or duplication.



Our system also allows you to integrate all simulators in the center. You can set alert thresholds based on consumables used and anticipate replenishment based on booking schedules.

Finally, AVS+ guarantees total security for your data: all information is hosted locally on a dedicated server installed on site, with no dependence on the cloud, unless you request it.



Centralized planning of rooms, sessions, simulators, and equipment



Availability management and conflict alerts



Creation of profiles, roles, and user groups with customized access rights



Integration of simulators with warning thresholds for consumables



Anticipation of orders according to the usage schedule



Data stored locally (no cloud by default)



Encryption, traceability, and connection monitoring

AVS+ is the simulation center that you control from start to finish.



Comparison of HVS Systems solutions

Discover our range of cutting-edge solutions designed to meet the diverse needs of medical simulation, from mobile flexibility to advanced fixed installations. Explore the features of each version to find the one that best suits your training environment.

Features	SimMotion	AVS	AVS+
Simultaneous management of 5 audio/video streams	✓	✓	✓
Scenario creation and checklist	✓	✓	✓
Create tags and annotations, live and recorded	✓	✓	✓
Connection to Gaumard's Uni action log and import of Gaumard's high-fidelity manikin	✓	✓	✓
Compatible with all high-fidelity manikins, simulators, and medical equipment available on the market	✓	✓	✓
Creating video tags using Gaumard's Uni action log	✓	✓	✓
Export Uni action logs, checklist scenarios, and annotations to Excel	✓	✓	✓
Custom video export (by screen, by tags, by tagged actions)	✓	✓	✓
Ultra-mobile, ready to use	✓	✓	✓
Creation of assessment forms		✓	✓
Creating a tag on an element of the assessment form		✓	✓
LDAP import of your students		✓	✓
Viewing a student's simulation sessions throughout their course		✓	✓
Review and analysis of all assessment forms for a student's entire program		✓	✓
Consultation and analysis of all assessments from a simulation session		✓	✓
Excel export of assessment sheets, by student, by simulation session		✓	✓
Import/export of all system data for computer networking			✓
Management of 9 simultaneous video streams			✓
Management of available equipment and management of equipment orders			✓
Custom screen design			✓
Sending documents to debriefing and simulation rooms			✓
Assigning custom access rights			✓
Remote access to the interface			✓
Management and control of multiple simulation rooms			✓
Debriefing room management			✓
Recording and assessment of debriefing			✓
Assessment of the quality of debriefing by learners			✓
Calendar management, room booking, sending invitations via Google Calendar			✓
Solution cloud ou sur site			✓
Automatic video deletion and server storage management			✓

Contact

At HVS Systems, we believe that a good simulation system is about more than just its features. It must be modular, scalable, and user-oriented.

That's why AVS+ is designed to evolve with you: you choose the modules you need today, and you can add more over time without having to rethink your entire installation.

We develop each project in close collaboration with our customers, with the ability to create customized features designed for your real-world use cases. Our approach is simple: listening, adaptability, and long-term partnership.



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