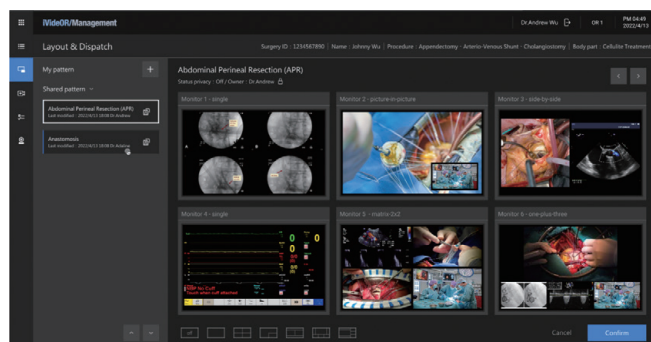


iVideOR Management and Editor



Features

- Intuitive design: The software guides you step-by-step from start to finish.
- Video solution: Users can assign layouts, dispatch video sources, preview live video, record, make bookmarks, make snapshots, and more all on one page.
- Software flexibility: External resources can be linked to the interface through the system backend.
- File backup: A "destination file path" can be set up to save to a USB-connected drive or NAS. Captured videos and photos will be mirrored to the destination while also being saved locally.

Introduction

iVideOR is a solution-ready-package (SRP) based on AVAS hardware that is intuitive and easy to use. The functions of iVideOR include surgery information management, video dispatching, video recording, snapshots, video editing, DICOM image uploading, and more (See below). Our purpose is to help professionals focus on medical procedures while having all their video requirements fulfilled effortlessly. Advantech iVideOR includes two main pieces of software: iVideOR Management and iVideOR Editor.



- Patient lists
- Video streaming
- Image dispatching
- Personal templates
- Template sharing
- Video recording
- Video bookmarks
- WHO checklist
- External applications

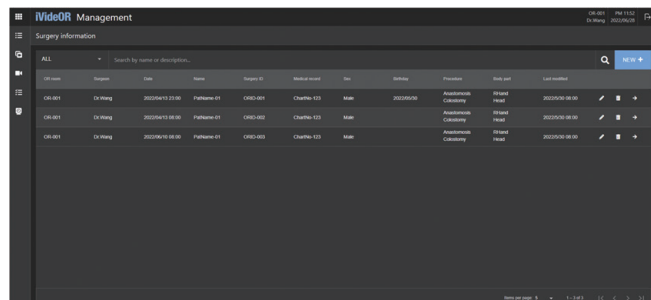


- Patient lists
- Surgery notes
- Bookmark editing
- Video preview
- Video editing
- Snapshot uploading in DICOM format

Key Functions – iVideOR Management

Surgery information management

The first page of iVideOR Management is surgery information, where all surgery information is listed.



Layout & dispatch

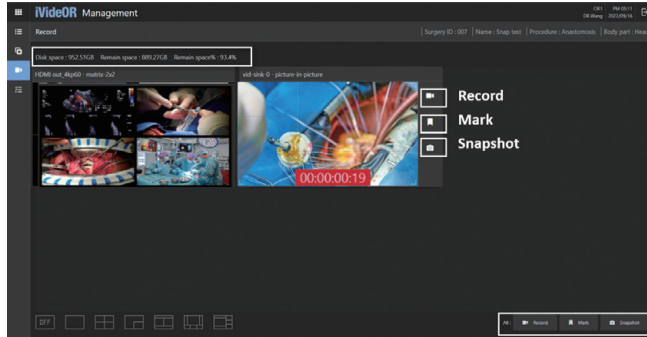
Users can customize and save the preferred image arrangement mode as a template. Preview is available for quick "checking the template"



iVideOR Management and Editor

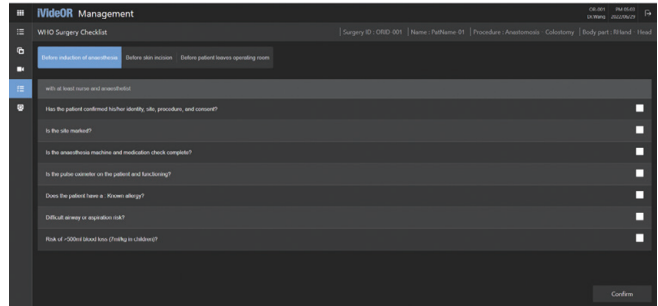
Recording, bookmarks, and snapshots

Video can be previewed, recorded, bookmarked and snapshot anytime while the layout and video source can be changed without interrupting the recording.



WHO checklist

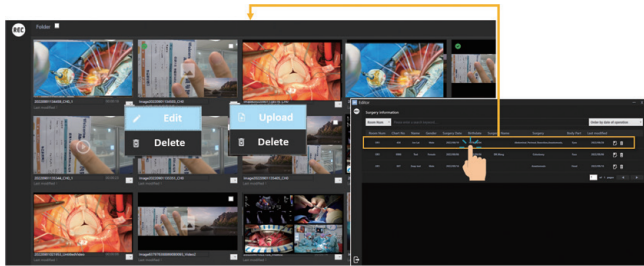
The WHO standard checking procedure for performing operations has been integrated into iVideOR Management.



Key Functions – iVideOR Editor

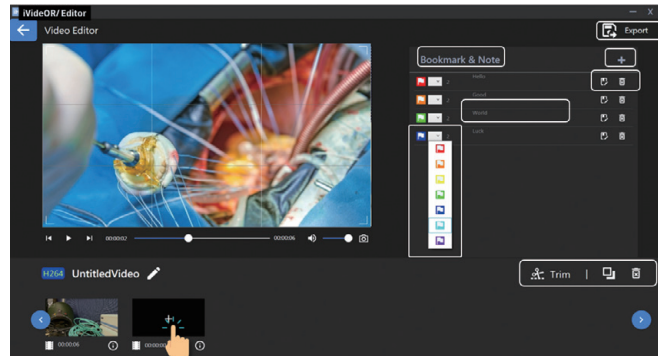
Managing captured files

Open the folder of specific surgery information to examine the captured files. Edit the videos or upload the photos in DICOM format. Unnecessary files may be deleted.



Video editing

Trim and merge videos with the same encoding type is available. Add new bookmarks and snapshots can also be done during editing.



Specifications – iVideOR Management

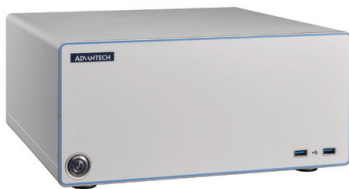
Service	Function	Description
Surgery information	Information management	Supports individual information input and batch synchronizing of HIS
	Display	Shows surgery information at the top right corner of pages
Layout and dispatch	Database sharing	iVideOR Management and Editor shared database for easy data management
	Customized templates	Customize and save the preferred image arrangement as a template
	Quick recall of templates	Preview saved templates and templates shared by others in the system
	Flexible configuration	Seamless switching of signal sources with Single, PIP, Side by Side, 2x2 Matrix, and One-Plus-Three split screen modes
Video solution	Recording	Videos from different sources can be recorded simultaneously or separately
	Length notification	The length of recorded video can be seen during the recording process
	Disk space	Users can see the remaining local disk space on the recording page
	Live preview	AVAS212 allows users to watch real-time video on the dispatched screen
	Flexible configuration	Layout and video sources can be changed without interrupting the recording
	Quality reduction	Supports three resolutions: 1280x720 (downscaled by 1/3), 960x540 (downscaled by 1/2), and 480x270 (downscaled by 3/4)
	Encoding settings	Supports H.264 and H.265 to save storage space while recording high-quality videos
WHO checklist	Surgical checks	The standard WHO checklist with an integrated default questionnaire
	Editable	Questions can be modified by users through Excel files
Others	Guided design	The software guides users step-by-step to complete recordings. The pre-operation procedure can be set up for intuitive use in two steps
	Authority management	Classify users by department and design a permission module accordingly
	Bilingual	Chinese and English interfaces
	File backup	By assigning local and destination file paths, backups will be performed automatically
	Controllable options	Software logos, procedures, and body part information can be maintained at the backend
	External links	Add external links and icons in the settings page to integrate them into the sidebar. Icons will trigger pop-ups of webpages and apps when clicked
	Automatic deletion	Users can set a time to automatically delete local storage files

Specifications – iVideOR Editor

Service	Function	Description
Surgery information	File management	Files can be saved and grouped by operation time and medical record number
	Database sharing	iVideOR Editor and Management share database for easy data management
Editing	Trimming	Drag the percentage of video length to edit and preview the video in real time
	Merging	Users can merge edited videos with the same encoding type
	Snapshots	Users can take snapshots of the video during the editing stage
	Bookmarks	Users can add bookmarks, enter notes, and sort them by different colored flags during the editing of a video
	Video export	Export and store the edited video in the appropriate surgery information folder
Others	Photos (DICOM format)	Snapshots can be converted to DICOM format and uploaded to a PACS server
	Bilingual	Chinese and English interfaces
	File backup	By assigning local and destination file paths, backups will be performed automatically
	Automatic deletion	Users can set a time to automatically delete local storage files

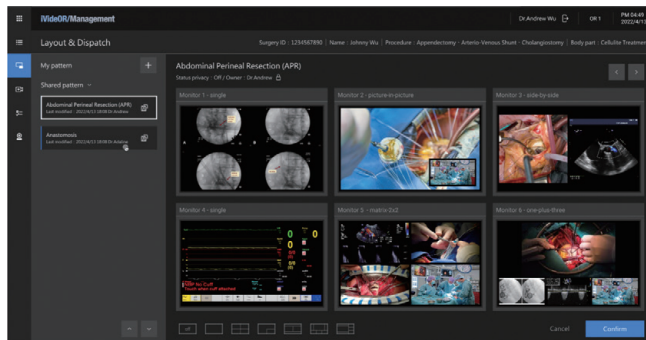
System requirements

Hardware requirements

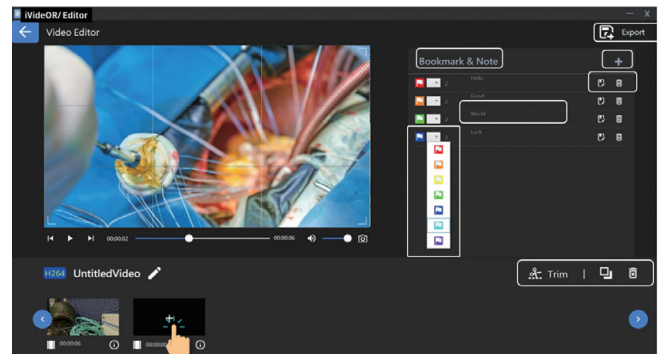


1. CPU: Greater or equal to an Intel® Core™ i7 9700 processor
 2. RAM: Greater than or equal to 16 GB
 3. HD: Greater than or equal to 1 TB (approximately 40 hours of video recording)
 4. Screen resolution: 1920x1080
 5. Network port: At least one, connected to the switch
 6. PCIe slot: At least one for the capture card
 7. Capture card: DVP-7111UHE or DVP-7611HE
 8. Graphics card: Higher than GTX 1050 Ti (required for simultaneous recording of more than three videos)
- Refer to hardware specifications: AVAS402

Software requirements

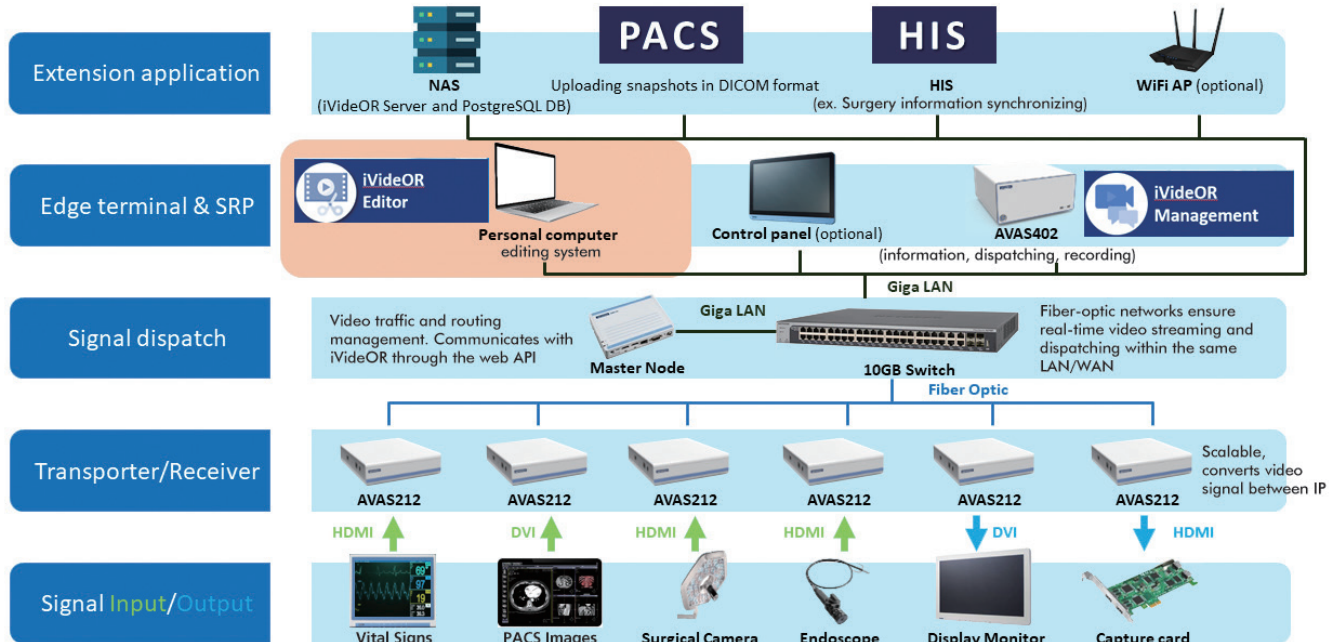


1. Operating system: Windows 10 64-bit
2. The software installation package includes:
 - i. Redis-x64-3.2.100
 - ii. dotnet-hosting-2.2.2-win.exe
 - iii. aspnetcore-runtime-2.2.2-win-x64.exe
 - iv. dotnet-hosting-6.0.6-win.exe
 - v. urlrewrite2.exe
 - vi. postgresql-12.4-1-windows-x64
 - vii. .Net Framework 4.8.0
 - viii. Capture card driver
 - ix. Capture card codec library
3. QCapService_WatchDog



1. Operating system: Windows 10 64-bit
2. If the iVideOR Editor isn't installed on the server, please follow the user manual for LAN and firewall settings.

Overall Architecture



Ordering Information

Product name	Part number	Description
AVAS402, iVideOR	AVAS-402MVSA-S1E-C	Recorder / 4Kp60 HDMI / FHDp60 SDI DVI-D DVI-A / i7 / AVAS Server SW
AVAS212, Web API	AVAS-212VNCL-S1E-C	NDcoder / 4K UHD / DVI-D / AVAS client