



**ADVANTECH**

*Enabling an Intelligent Planet*

# Digital Transformation: Optimizing the Operating Room for Surgical Excellence

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# OR Video Management

## iVideOR

Experience the ultimate convenience with Advantech's iVideOR operating room video management and editing software platform. Designed to simplify the medical video management process, iVideOR allows healthcare professionals to live stream surgeries, record procedures, and manage captured video data from a centralized location. With the inclusion of video-over-IP technology, image sources can be routed to specific destinations without needing to disconnect/reconnect equipment or interrupt procedures, optimizing pre-op to post-op workflows for enhanced patient care.

# Video Streaming Solutions

Advantech's AVAS solutions provide advanced video archiving and streaming capabilities for intelligent OR operations. The latest addition to the impressive lineup is the AVAS-60E mobile video integration workstation. Featuring an AVAS-200 series IP-based NDcoder for seamless data transmissions, AVAS-400 imaging hub with software development APIs for customizing video and imaging streams, and iVideOR software platform for integrated OR video management.



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## AVAS Series



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## Medical Boom Arm Carts

### AMiS-90

Featuring an ergonomic boom arm with dual PTZ cameras and motorized height adjustment, the AMiS-90 medical boom arm cart provides a real-time surgical tele-mentoring platform for remote care delivery. The flexible boom arm allows the camera to be positioned at the optimal height and angle for improved ergonomics and space utilization. By maximizing accessibility and flexibility, AMiS-90 can streamline workflows and enable a more functional OR environment.



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## All-in-One Medical Computers

### POC Series

Designed for healthcare applications, the POC series are fanless all-in-one computers certified to medical safety standards (UL60601-1, EN60601-1, and IEC60601-1). Suitable for deployment as information displays or control dashboards, POC terminals can be flexibly integrated with existing OR equipment to provide real-time data for critical decision making.



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## Surgical Displays

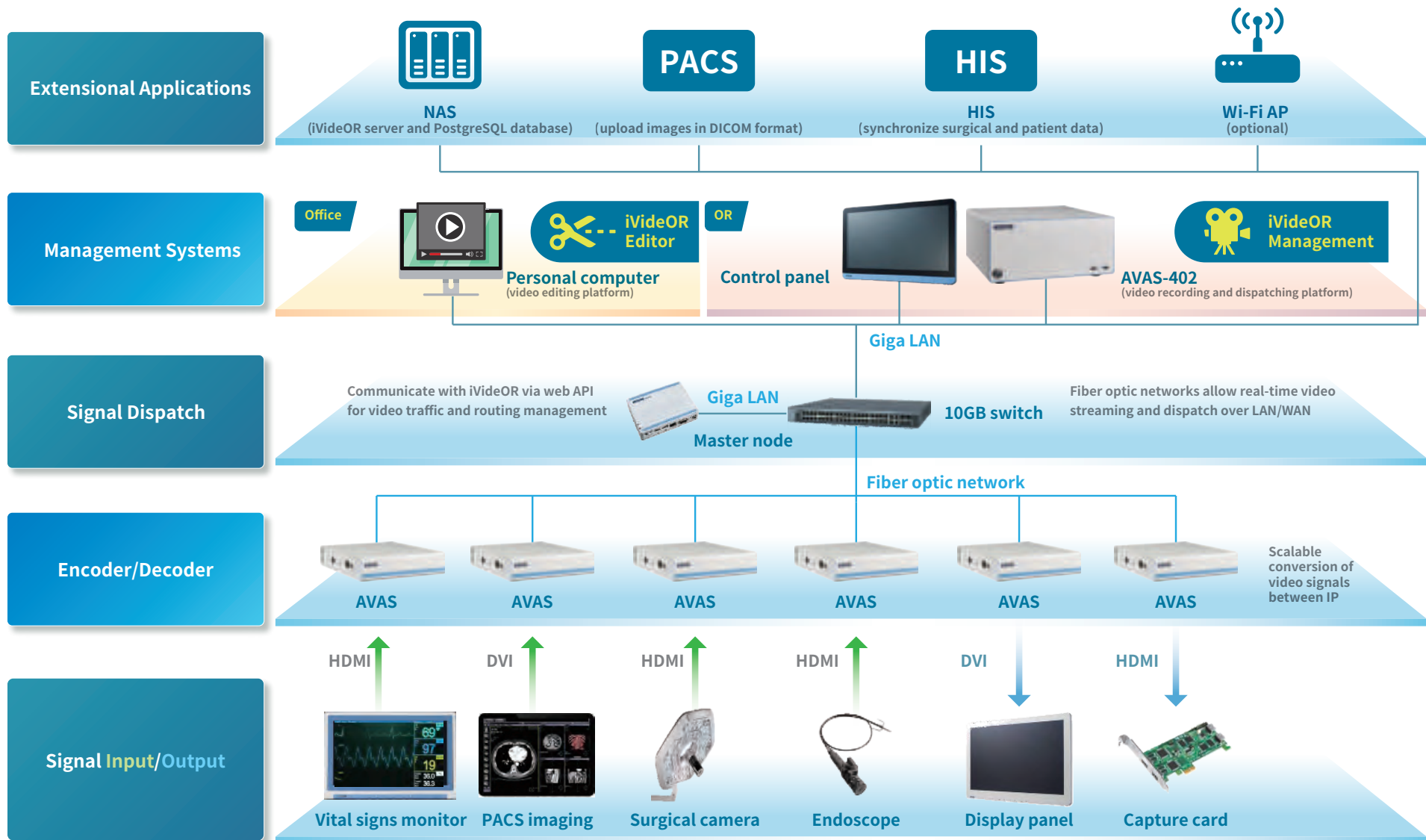
### PAX Series

PAX series surgical monitors feature multiple I/O, analog and digital interfaces, as well as a loop-out function for multiple display systems ensuring high connectivity for diverse healthcare applications. Plus, with Advantech's Design-to-Order service, the display size, color, and form factor can be customized according to specific needs.



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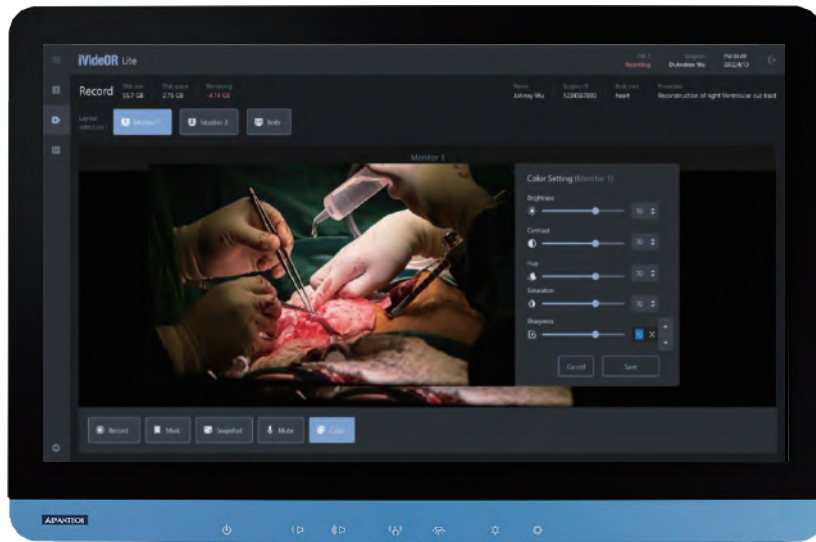
# OR Video Management Architecture





# All-in-One OR Video Recording Solution

iVideOR.Lite



## iVideOR.Lite Function List

- Access surgery information
- Live preview images
- Configure image colors
- Record video
- Bookmark video
- Capture image snapshots
- Apply WHO surgical safety checklist
- Embed external applications
- Upload to DICOM



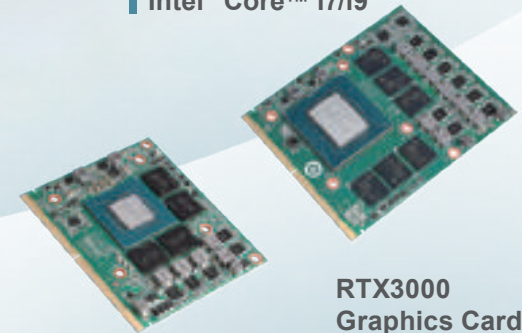
For managing critical patient data and medical imaging during surgery, all-in-one (AiO) computers are ideal due to their compact design, integrated components, and compatibility with medical software technologies. Designed for OR deployment, POC-6 and POC-8 series AiO computers provide reliable platforms for streamlining workflows to improve surgical decision-making and outcomes.



**POC-8 Series**  
Intel® Core™ i7/i9



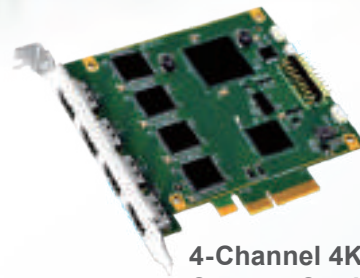
**POC-6 Series**  
Intel® Core™ i5/i7



**RTX3000**  
Graphics Card



**T1000**  
Graphics Card



**4-Channel 4K30 HDMI**  
Capture Card

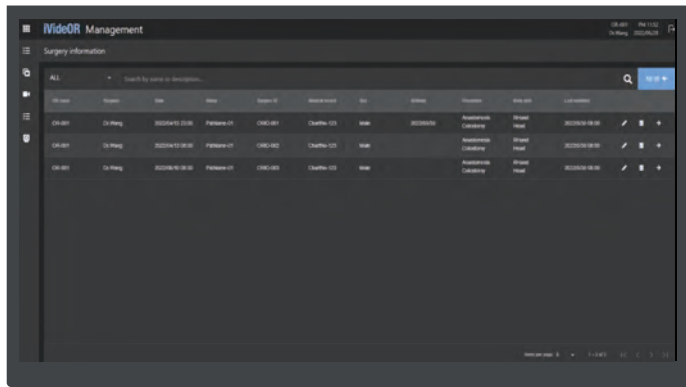
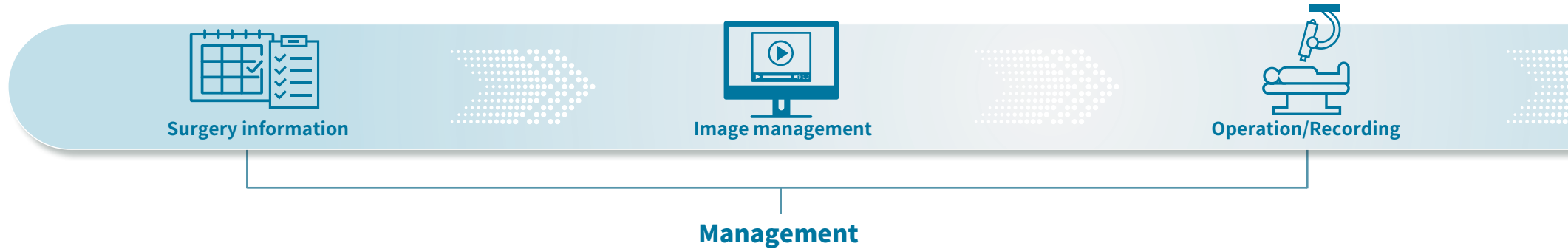


**2-Channel 4K60 HDMI2.0**  
Capture Card

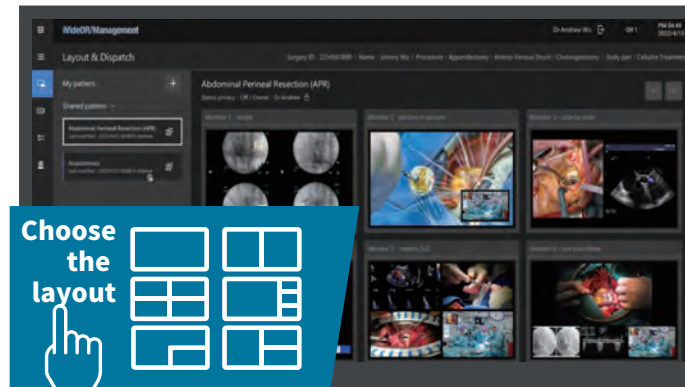
# OR Video Management Solutions

iVideOR

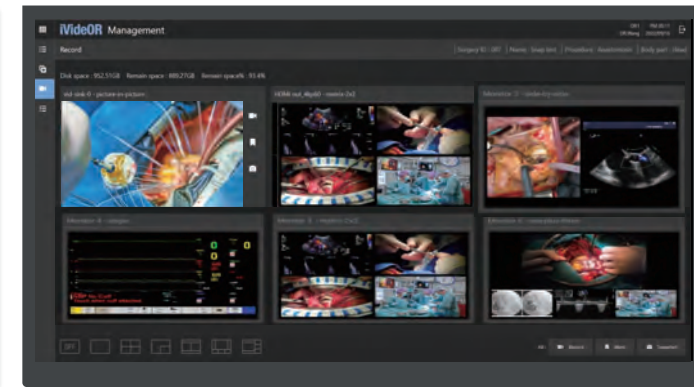
Transform surgical imaging with a futureproof OR video management and editing platform



- Input surgery information (patient lists)
- Editable content fields



- Select layout from established presets
- Create custom layouts
- Dispatch image sources
- WHO Surgical Safety checklist



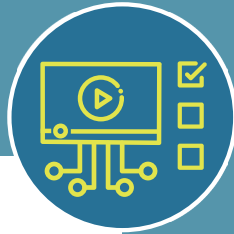
- Capture video and images during surgery
- Configure layout and image sources live





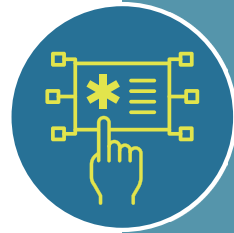
Editing/Upload

Editor



### Maximize Operating Room Efficiency

Streamline workflows by simplifying OR setup, equipment configuration, and image/video capture with direct export to USB storage, PACS, and NAS.



### DICOM Imaging Support

Capture screenshots during operation and the post-operation video review and archive content to PACS with single-click uploads.



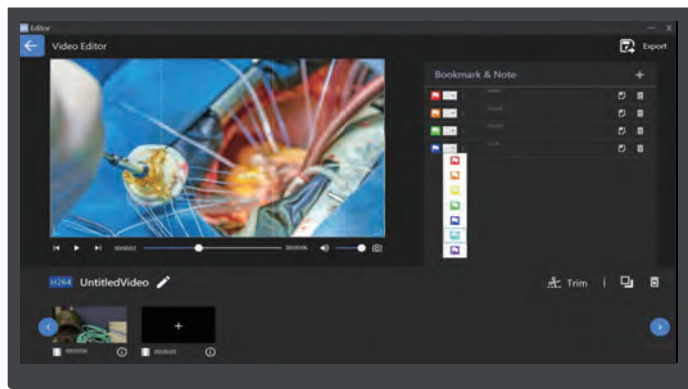
### Convenient Cross-Platform Data Access

Clinical data, medical imaging, and test results can be easily accessed at any time from a networked computer.



### Real-Time Communication and Content Sharing

Live video streaming and real-time communication enables remote collaboration and support from specialists.



- Edit recorded video
- Upload images to PACS in DICOM format

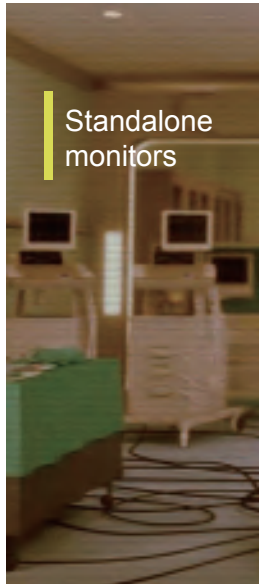
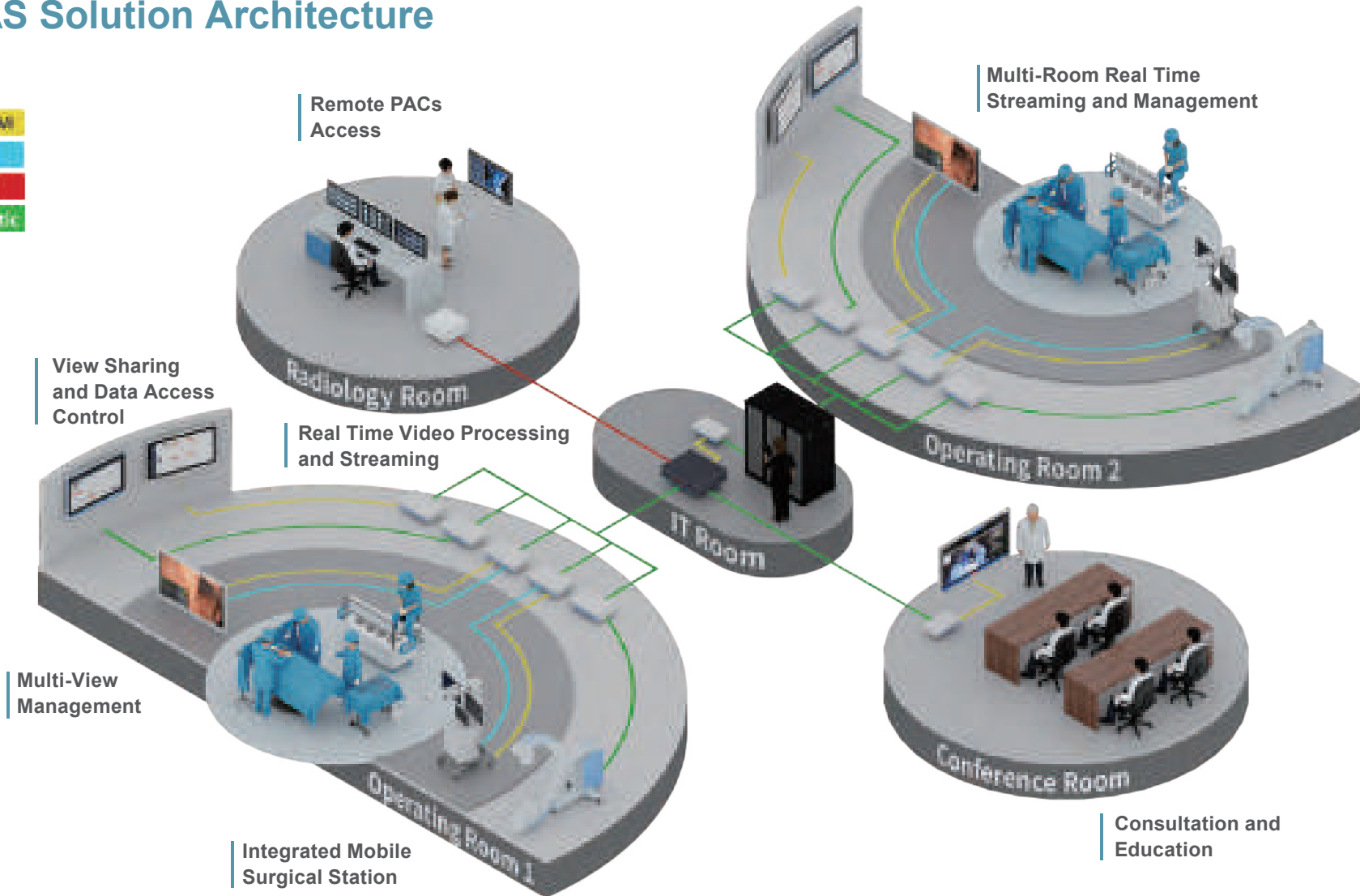


# Video Archiving and Streaming

Digitally Transform OR with AVAS Systems

## AVAS Solution Architecture

- HDMI/DVI
- USB
- LAN
- Fiber-optic

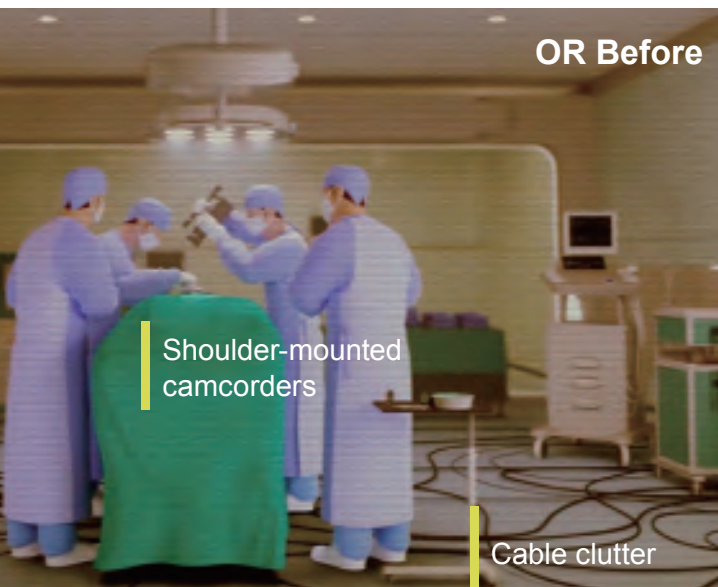
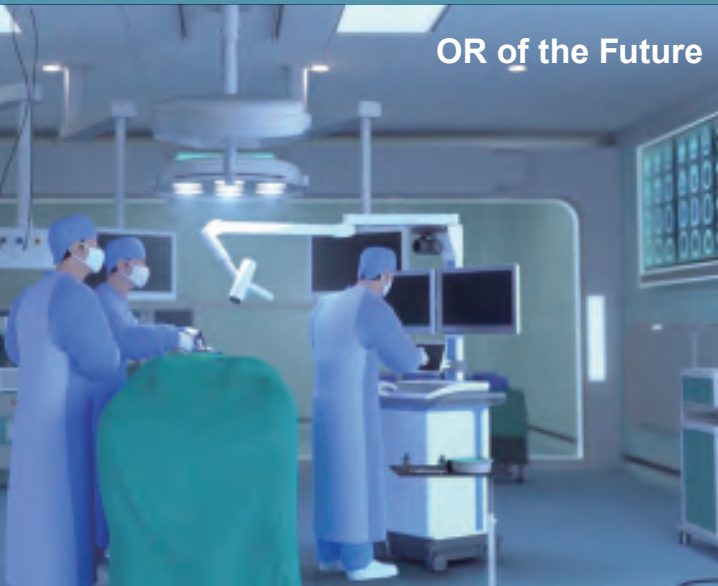


Standalone monitors

# Integrated Mobile Video Workstation

AVAS-60E

AVAS-60E is a mobile video workstation that integrates a boom arm, AiO computer, surgical monitors, cameras, speakers, and intelligent power system to provide a total solution for video archiving and streaming in ORs.



## PTZ Camera

Resolution: FHD  
12x/30x optical zoom

## Dual Display

24" (FHD)  
27" (FHD or 4K)

## Main Stand

Electromechanical  
height adjustment  
(180 ~ 260 cm)

## Boom Arm

(134 ~ 170 cm)

## Boom Camera

Resolution: 4Kp60  
30x optical zoom

## Control Panel

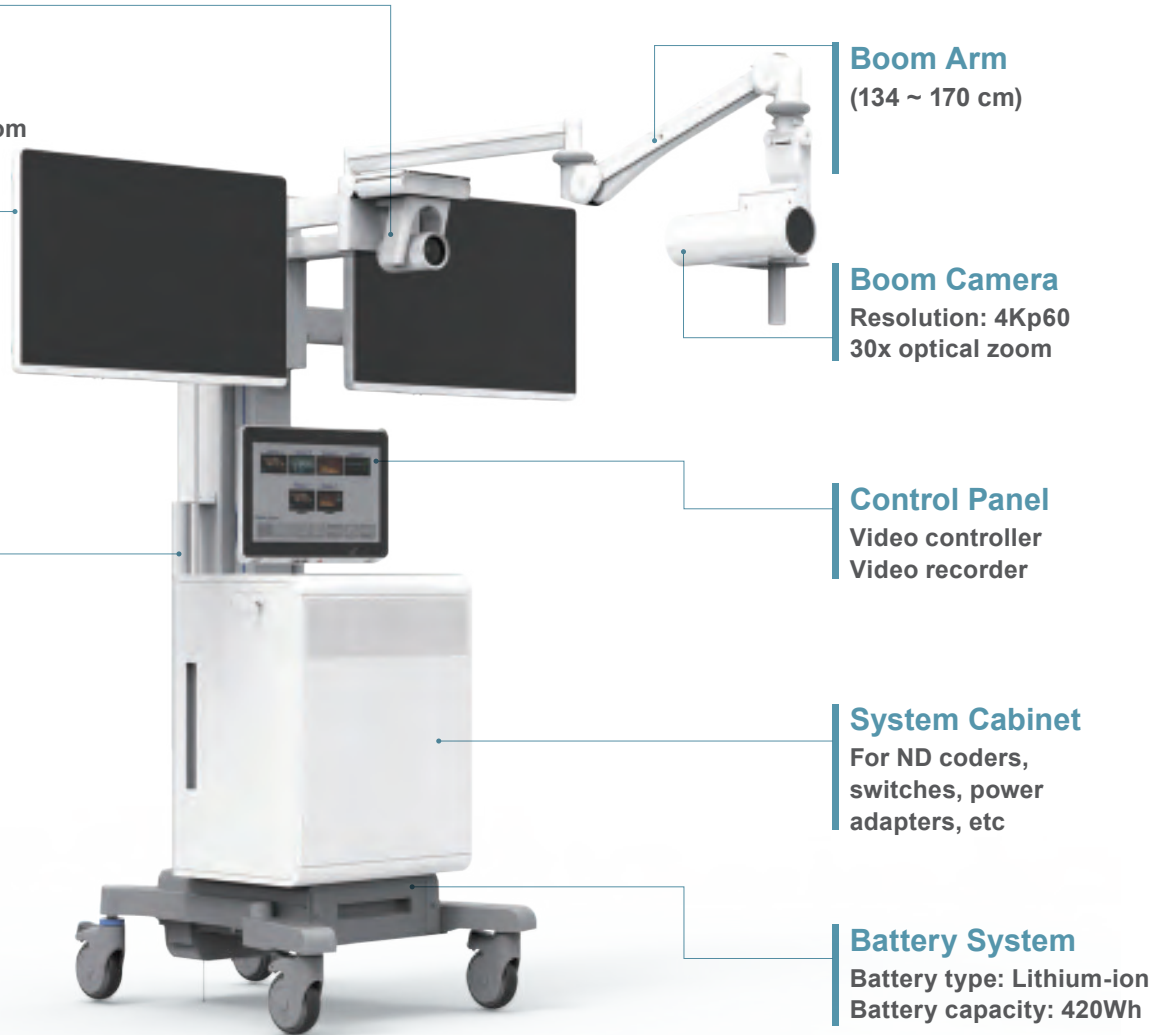
Video controller  
Video recorder

## System Cabinet

For ND coders,  
switches, power  
adapters, etc

## Battery System

Battery type: Lithium-ion  
Battery capacity: 420Wh





Touchscreen

**Easy operation**

Integration

**Multiple I/O**

Glorious imaging

**1.07 billion colors**

Enhanced EMC

**Wide compatibility**

Resolution

**FHD and 4K support**

### Surgical Displays

**PAX-3 Series | 24/27/32/55"**

For examination, navigation, and surgical applications

### Clinical Displays

**PAX-1 Series | 21/24/27"**

For general, clinical, and laboratory applications



OR



Equipment



Trolley



# Adaptable and Flexible In-Wall Mount Solutions



## Interactive Display Panels

- Available in 21/24/32/55"
- P-CAP touch control
- DICOM preset
- Multi-view PIP/PBP/Quad
- HDMI/DP/DVI/SDI inputs
- Simple in-wall mounting kit
- Medical-grade certification

## Workstations/Control Panels

- Available in 21/24/32/55"
- Windows/Linux/Android OS
- LAN, Wi-Fi, and COM connectivity
- P-CAP touch control
- DICOM preset (optional)
- Simple in-wall mounting kit
- Medical-grade certification



# Futureproof OR Monitoring and Management



## Patient Data Monitoring System

Monitor patient vital signs and anaesthesia response throughout surgical procedures

## OR Workstation

Access and update patient information, health records, and lab results

## Telementoring Solution

Employ video conferencing for remote guidance and real-time feedback

# Product Offerings

For product details



## iVideOR Suite



Solution Suite

## PAX



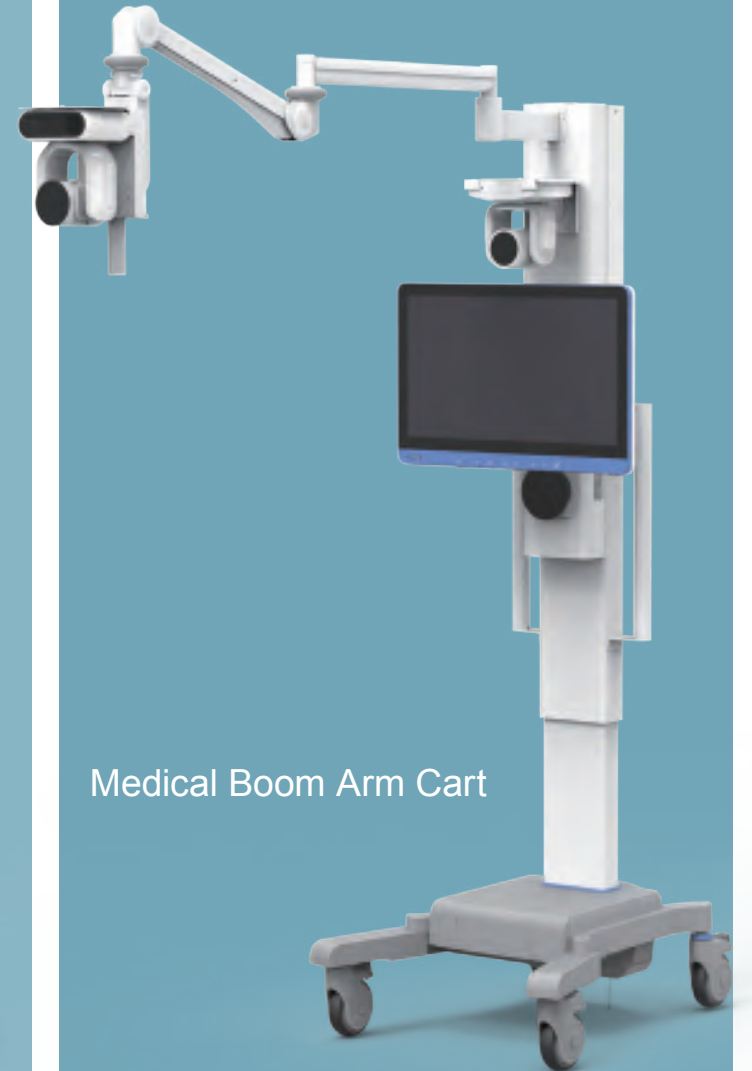
Surgical and Clinical Displays

## AMiS-30EP



OR Workstation

## AMiS-90



Medical Boom Arm Cart

# AVAS-60E



Integrated Mobile Video Workstation

# AVAS-2



Video-over-IP Streaming Boxes

# AVAS-4



Video Recorder and Management Server

# USM

Medical Computers



# POC

