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**Brandon Medical**  
Member of REINSBERG GROUP

# Symposia<sup>®</sup>

Medical Audio Video



Bringing innovation to life



## Symposia® Digital media platform for Healthcare



The Symposia Medical Audio Video solution is an integral part of the Brandon Medical i2i eco-system, which represents a shift from isolated to integrated media equipment in the operating theatre.

Symposia offers a digital media platform tailored for healthcare that includes a range of products, user interfaces, and services. With the increasing importance of digital communication in hospitals, the Symposia platform provides the necessary components to integrate various systems and services.

The platform also offers a complete range of Medical Audio Video services and products, designed for multiple users and applications, connecting medical professionals to a variety of Audio-Visual devices and resources, both locally and remotely.

The Symposia i2i video and audio media management hub is an essential component of the platform, providing a single solution for managing, recording, and controlling user access to medical video content. Symposia packages include the Integrated OR with Entoli 4K and HD, as well as Symposia for Training.

### Systems

Symposia® 4k ultraHD  
Symposia® HD  
Symposia® for training

### Components

#### Entoli

A Video and Audio control, routing and distribution software platform with an intuitive touch screen user interface. Entoli is available in 4K and HD versions.

#### CoPAX

A complete range of user display screens for integration within the OR. These are either stand-alone display screens or contain integrated computers with keyboards to create PACS displays.

#### IR3 Video Hub

A hardware based local recording, storage and replay device for medical video content.

### Benefits

#### Specification support

With Brandon's support, Symposia can be specified by clients that are not AV specialists. Brandon will take responsibility for compatibility and make sure the system works first time with minimal configuration.

#### Affordable

Brandon's wide ranging experience in tailoring AV solutions to specific hospital requirements means that a package can be delivered that meets all requirements at a sensible price.

#### .iDAVS

A range of camera systems for the capture of video images. These are either integrated into the operating lights or are external ceiling mounted camera units for viewing of the OR.

#### VAIPOR

IP based network Encoders and Decoders for medical devices audio and video sources.

#### Flexible and scalable

The Symposia system is a modular design with open architecture. This makes it easier for the customer to add or adapt the system in future upgrades.



Symposia + Entoli 4K

AV control and distribution platform with 4K capability.



Symposia + Entoli HD

AV control and distribution platform with HD capability.



Symposia + Entoli Training

AV control and distribution platform for provision of training and remote connectivity.

## Symposia® Integrated OR with Entoli 4K ultraHD

The Symposia Integrated Operating Theatre is a state-of-the-art system designed to provide clinical teams with an advanced and comprehensive Audio-Visual solution to enhance their communication and collaboration capabilities.

### Advanced Audio-Visual Capabilities

The Symposia Integrated Operating Theatre offers a complete range of Medical AV products, including high-quality audio and video systems, touch-screen displays, and advanced communication tools. The system enables medical professionals to access and share important information and images with ease, improving overall patient care and safety.

### Seamless Communication and Collaboration

With the Symposia Integrated Operating Theatre, medical professionals can connect and collaborate with each other from any location in the hospital. The system allows for two-way audio and video communications between all locations, facilitating seamless communication and collaboration between doctors, nurses, and other medical professionals.

### Enhanced Patient Care and Safety

With the Symposia Integrated Operating Theatre, medical professionals can collaborate in real-time to ensure the best possible care and safety for patients. The system enables doctors, nurses, and other medical professionals to share critical patient information and images, improving overall diagnosis and treatment outcomes.

### User-Friendly Interface

The Symposia Integrated Operating Theatre is designed to be easy to use, with a user-friendly interface that enables medical professionals to access and share information with ease. The system is also customizable, allowing users to tailor the interface to their specific needs and preferences.

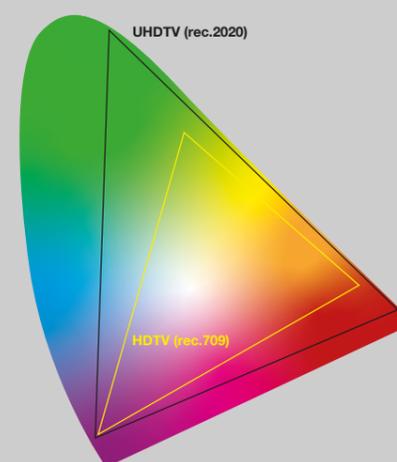
### Expanded Connectivity

The most modern medical devices such as endoscopes, microscopes and laparoscopes are now commonly 4K enabled, maintaining this level of signal quality from device to screen is paramount. The Symposia 4K platform uses a combination of 4K UHD encoders, fibre optic transport network and UHD decoders to maintain this signal throughout.

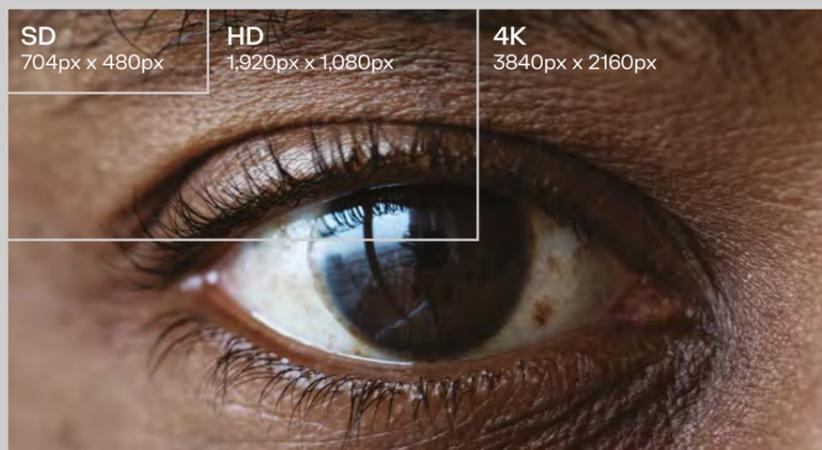


## 4K UltraHD video

Providing increased colour space and depth perception



Traditionally video up to HD was capable of showing only about 50% of the available visible gamut of colours. This is referred to as the colour space and was defined by REC709. The 4K colour space, known as REC2020, allows cameras to capture and display devices to show about 80% of all available visible colours. This has obvious benefits in the surgical field.



Caption in here



*Lorem ipsum dolor sit amet*

## Symposia® Integrated Operating Room with Entoli HD

Overall, the HD version of the Symposia medical audio-video solution provides high-quality audio and video, compatibility with existing hardware, and a more cost-effective solution for healthcare facilities. While the 4K UHD version may offer additional benefits, the HD version can still provide a reliable and effective solution for healthcare professionals to collaborate and communicate effectively.

**High-Quality Audio and Video**  
Although the HD version of the Symposia system does not offer the same level of detail and clarity as the 4K UHD version, it still provides a very high-quality audio and video, allowing healthcare professionals to collaborate and communicate effectively.

**Upgradeable**  
The modular format of the core Entoli system allows for future upgrades as the need arises. The current business case may only support the deployment of a HD system but future needs may include the provision of 4K in some specific areas. Symposia integrated OR with Entoli HD can meet this requirement.

**Compatibility**  
The HD version of the Symposia system may be more compatible with existing hardware and infrastructure in healthcare facilities, making it easier and more cost-effective to integrate into the existing infrastructure.

**Cost-Effective Solution**  
The HD version of the Symposia system is typically more cost-effective than the 4K UHD version, making it a more budget-friendly option for healthcare facilities that may not have the budget for the more advanced 4K system.

# Symposia®

## Medical Audio Video for Training

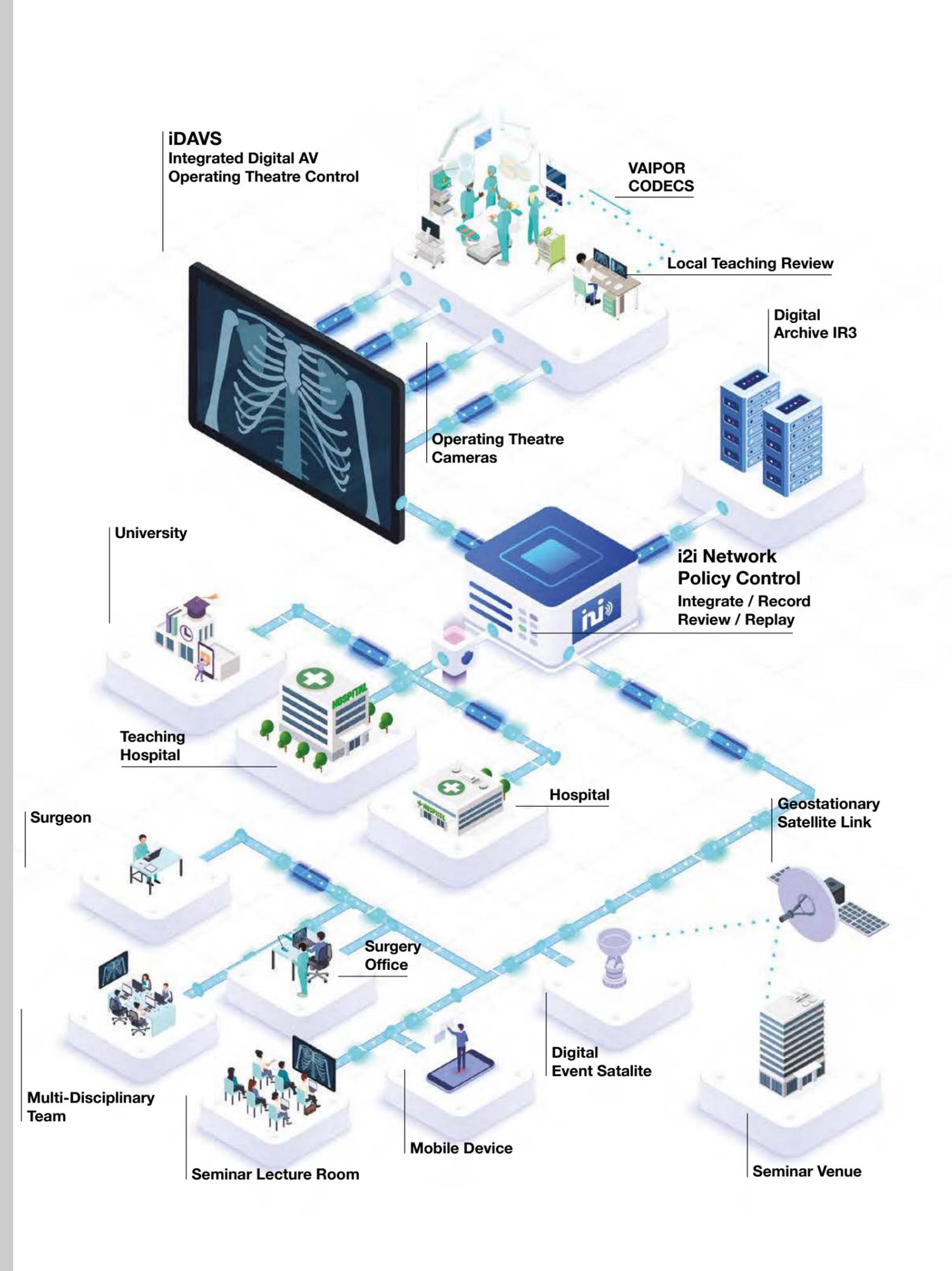
The Symposia medical video system provides a range of tools and resources for Surgeons and Consultants to train and educate their teams. By leveraging the high-quality video and audio capabilities, remote collaboration features, and interactive training sessions, Surgeons can help trainees develop the skills and knowledge needed to provide high-quality patient care.

**Medical Lecture Theatres**  
Medical video, images, data and audio can be streamed to University and Teaching Hospital lectures theatres.

**Training Rooms**  
Symposia is used for active learning by providing 2-way visual and audio communications between clinical environments and seminar rooms for interactive teaching and training.

**Multi-Disciplinary Teams (MDT)**  
Media can be exchanged quickly between medical staff from different disciplines, enabling effective, collaborative working. Images and two-way audio can be fed directly from the OR to the MDT room during a procedure. Remote support and guidance can be provided from the MDT team members directly to the OR in real time.

**Working Away from the Hospital**  
Doctors, Consultants and Nurses can access media from anywhere with a suitable network connection (subject to access controls). Using a secure VPN a Consultant can share content with associates and peers at conferences or external training events.





## Design considerations for the modern operating theatre

Supporting the implementation of medical video, audio and communication systems.



## Entoli™ Control Audio Visual

Control Audio Visual equipment in the operating room via a touch screen based application that is both cost-effective and capable. Entoli™ Medical Controller is an intuitive control suite for Operating Rooms and Operating Theatres.

Entoli makes operating theatre technology work as one system, independently from the underlying equipment. The intuitive touch screen interface is icon based for ease of use and allows the medical team to control the routing, displays and function of the audio visual and other equipment within the suite. Entoli Medical Controller provides full control of video switching, recording, cameras and lighting and is compatible with almost all types of medical AV devices.

Entoli is an IP based video, audio and control platform that utilises a dedicated fibre optic network for security and reliability. Entoli is available in both HD and 4K versions to suit client requirements, due to the modular nature of the design Entoli can be upgraded post installation.

Entoli Medical is available with new operating theatres or can be retrofitted in many cases. Through installation partners, a full fitting service is offered to hospitals worldwide with a support centre operated by Entoli™ Medical, available 24/7.

1. Modern OR include many technology platforms, specificity Endoscope, laparoscope, CT scanners and X-ray machines. Recent new equipment is higher quality and of a higher resolution. This can create problems when designing OR systems.
2. Client needs change, new equipment is released and the cost of the higher resolution equipment comes down and is therefore more common.
3. Typical hard wired connectivity is using HDMI, DisplayPort or Quad SDI over coaxial cable. This can cause problems when accommodating high bandwidth vide such as 4K UHD.
4. One solution is to use fibre optic cables for connectivity. These can be either direct end to end connections or using signal encoders over a high bandwidth fibre optic network. This lets us plan in advance and deploy during the construction phase safe in the knowledge that the system will accommodate the signals.
5. The secondary benefit of a networked video system is that content can be delivered remotely to training or observation rooms outside the OR.
6. It is possible to maintain the highest quality signals locally and deliver encoded content at a suitable bandwidth for the wider area network or Trust LAN.

In summary, delivering a fibre based infrastructure during construction can anticipate and adapt to changes during the delivery phase.



PACS stands for Picture Archiving and Communication System and it is used to store and digitally transmit electronic images and medical reports. PACS workstations consist of a display screen, computer and peripherals, such as a keyboard and touchpad.

The Brandon Medical PACS workstations are kiosk style computers and displays that are used in operating rooms to access patient records and diagnostic images. The Brandon Medical PACS Workstation is a single screen, DICOM review grade clinical workstation. The workstation is designed to be highly reliable and suit the requirements of the clinical environment, specifically Group 1 and Group 2 locations.

gPACS	gPAC43L--PC0	Glass Facia, PACS 43" Celeron
	gPAC43L--P50	Glass Facia, PACS 43" i5
	gPAC43L--P5S	Glass Facia, PACS 43" i5 and video switch
	gPAC55L--PC0	Glass Facia, PACS 55" Celeron
	gPAC55L--P50	Glass Facia, PACS 55" i5
	gPAC55L--P5S	Glass Facia, PACS 55" i5 video switch
iPACS	iPAC27L--PC0	iTCP Style, PACS 27" Celeron
	iPAC32L--PC0	iTCP Style, PACS 32" Celeron
hTCP	hTCPF22T27LPC0	Hybrid, Control Panel, Portrait, Front Access, 22" Screen, Time server integrated clocks. 27" PACS Station
	hTCPF22T27LPCi	Hybrid, Control Panel, Portrait, Front Access, 22" Screen, Time server integrated clocks. 27" PACS Station & i2i Brandon light controls
	hTCPF22T32LPC0	Hybrid, Control Panel, Portrait, Front Access, 22" Screen, Time server integrated clocks. 32" PACS Station

**Features**

**Symposia AV integration**

Integration with Symposia means that any AV source can be displayed on the large PACS screen (this requires the video switch option). There may be training or collaboration scenarios where it is useful to display the camera feed from the operating lamp or a laparoscope on the large PACS screen.

Symposia integration can also be used to convert the PACS workstation into an AV source (requires extra hardware to integrate with the Entoli system). This can be useful when a surgeon would like to see PACS images presented on display screen positioned directly in their field of view above the patient.

**Ease of installation**

The Brandon Medical PACS Workstations have been designed to make installation as simple as possible and to suit typical project requirements. The back box and hardware can be delivered in advance to suit project schedules for electrical wiring. A protective cover is temporarily installed. The display screen can be then installed at a later date, when any nearby works are finished and the PACS Workstation is ready for commissioning.

**Product family**

In addition to looking like a quality, modern product, the PACS systems share the same finish as iTCP. This allows Brandon to offer a matched suite of products.

**Image quality**

The PACS display screen supports high resolution images with unhindered readability, even when viewed in high ambient light. The anti-reflective, high haze display minimises reflections from other light sources.

**Reliability**

The Brandon Medical PACS Workstation is constructed from high quality components, giving the user confidence of reliable operation. The industrial grade PC is an embedded system powered by high quality processors. The PC is fanless to maximise reliability. The display screen is designed for 24/7 continuous viewing applications. Both the display and PC have been selected on the basis of long-term supply availability. This allows Brandon to provide assurance that faulty components can be replaced for an extended time period. The keyboards are highly robust and will easily stand up to everyday knocks and scrapes.



**Benefits**

**Unhindered Readability**

The PACS display screen supports high resolution images with unhindered readability, even when viewed in high ambient light. The anti-reflective, high haze display minimises reflections from other light sources.

**DICOM and infection control**

The gPACS range are flush wall mounted screens with integrated medical grade computers with keyboard for connection to hospital patient records systems. They feature DICOM calibrated 4K resolution screens that range from 42" diagonal to 55" diagonal presented in a landscape format.

The iPACS range are smaller flush wall mounted screens with integrated medical grade computers with keyboard for connection to hospital patient records systems. They feature DICOM calibrated screens in either HD or 4K resolutions that range from 27" diagonal to 32" diagonal presented in a landscape format.

# Symposia® CoPax range

PACS, Tablets, Monitors, POC (point of care computers),  
Medical workstations and medical display solutions.



## Monitors

The CoPAX product portfolio includes a range of HD and 4K medical grade surgical field of view monitors from 24" to 32" and a range of dedicated wall mount monitors for integration within the operating room with sizes from 42" to 70", available in both HD and 4K formats.

## Point-of-Care Terminals

- All-in-One computers with battery and camera modules for diverse healthcare applications, featuring 8th generation Intel® Core™ i5/i7 processor
- 15.6" full HD display with multi-touch P-CAP control Multiple I/O, including USB 3.2 Gen 2 (Type A), USB 3.2 Gen 2 (Type C) with display function, and HDMI; PCIe x4, mini PCIe, M.2 expansion slots for integrating add-on modules
- Fan less design with IP43-rated protection for superior hygiene and infection control

## Healthcare Information Terminal tablets from 7" to 18.5"

- Medical and ITE dual certification (EN 60601-1 & IEC 62368) to provide complete application coverage
- Rich optional peripherals – Handset / TV Tuner (SMA Jack)/2nd Smart Card Reader, Barcode Scanner/PoE, RFID+HID
- Supports nurse call button and LED indicator
- Dual isolated Ethernet – Internet (for patients) and intranet (for hospitals) network traffic management and data security
- Supports RFID/NFC/Web Camera/Smart Card Reader

## Video Monitors

EVM24MFA1	24" HD Surgical Monitor 350 cd/m2
EVM24MFA2	24" HD Surgical Monitor 900 cd/m2
EVM27MFA1	27" HD Surgical Monitor
EVM274MFA1	27" 4K Surgical Monitor
EVM32MFA1	32" HD Surgical Monitor
EVM324MFA1	32" 4K Surgical Monitor 700 cd/m2
EVM324MFA2	32" 4K Surgical Monitor 350 cd/m2
EVM1554MFA1	55" HD Surgical Monitor 500 cd/m2
EVM554MFA2	55" HD Surgical Monitor Touch 500 cd/m2
EVM46MFSN1	Multysync 45" FHD monitor with DICOM Preset

## Entoli Video Accessories

EVX70947	Entoli 19" Touch Control Screen HIT
HOP70173	Entoli 19" Touch Screen Pendant Mount Arm

## Quasar eLite Monitor & Accessory Arms (Require Stem Kits)

QeGAOvtc	Quasar eLite 1.5-21Kg monitor arm, 3P with 360° power connectors, no bracket, V spring arms, Titan central axis for ceiling mount.
QeGDvvtc	Quasar eLite 1.5-21Kg monitor arm, cabled with stops, VESA single monitor bracket, V spring arms, Titan central axis for ceiling mount.
QeGDvtc	Quasar elite 1.5-21Kg monitor arm, cabled with stops, VESA twin monitor bracket, V spring arms, Titan central axis for ceiling mount.
QeHDvtc	Quasar eLite 26Kg monitor arm, cabled with stops, VESA twin monitor bracket, V spring arms, Titan central axis for ceiling mount.
15106	Titan Central Axis Inverted Single Accessory Arm
15197	Titan Central Axis Heavy Duty Inverted Single Accessory Arm
15099	SymposiaView Single Monitor Bracket for 21Kg 'V Series' Arm
15064	SymposiaView Duo Monitor Bracket for 21Kg 'V Series' Arm
15141	SymposiaView Duo Monitor Bracket for 26Kg 'V Series' Arm

**Symposia®**

**VAiPOR**

Encoders, decoders  
and image processors

Open technology communication platform that takes input from any medical AV source including surgical video, endoscopy, medical imaging, video conferencing and legacy AV systems.

All AV source signals are converted to a common IP standard which allows them to be integrated, managed and distributed on data networks.

VAiPOR devices are fully compatible with the Brandon Medical high bandwidth fibre optic network and legacy copper networks.



<b>Video Accessories</b>	BVCS60	Wireless Headset with Microphone & Earpiece
	EVXANN100	IP Intercom Transmitter
	EVXPS1	IP Intercom Station with Mic & Speakers
	EA70925	Pair of Premium Sound Ceiling Mounted Loudspeakers
	EVA70850	Mini AV Converter: Decimator HDMI-SDI SDI-HDMI
	EVX70493	Mini AV Converter: SDI to Analogue Video
	EVX70494	Mini AV Converter: Analogue to SDI
	EVX70495	Mini AV Converter: SDI to Optical Fibre
	EVX70496	Mini AV Converter: SDI Distribution Amplifier
	EVX71035	Wireless Video Link Kit (Includes Tx/Rx)

**Entoli Video Accessories**

EVX70946	AVAS212 4KK Encoder
EVX70948	Fanless Control PC ARK
EVX70950	Entoli 10Gb Ultra High Speed Video Management Switch
EVX70951	Fibre 10Gb Media Converter SFP Module
14500	Pendant AV Interface Module
EVW6030003	AAP102 Flush Plate (4xAAP)
EVW6053303	AAP102MK Wall Plate (3xAAP)
EVP7009122	Interconnect Plate: BNC x 3
EVP7040421	Interconnect Plate: VGA
EVP7061613	Interconnect Plate: HDMI
EVP7010024	Interconnect Plate: RG45 x 2 (2U)
EVP7062221	Interconnect Plate: Single Cable Entry
EVP7063603	Interconnect Plate: Twin Cable Entry
EVP7009021	Interconnect Plate: BLANK Single
EVP7009022	Interconnect Plate: BLANK Double
EVP7009024	Interconnect Plate: BLANK Quad
EVWBNC10	BNC extension cable, 10m. Required for remote mounting of Filter/Connector PCB (2 req'd)
EVWBNC20	BNC extension cable, 20m. Required for remote mounting of Filter/Connector PCB (2 req'd)
EVX71102	GigaVex Rugged HDMI Cable, 0.2 meter
EVX71103	GigaVex Rugged HDMI Cable, 0.5 meter
EVX71104	GigaVex Rugged HDMI Cable, 1 meter
EVX71105	GigaVex Rugged HDMI Cable, 2 meter
EVX71099	GigaVex Rugged AOC HDMI Fibre Cable, 15 meter
EVX71100	GigaVex Rugged AOC HDMI Fibre Cable, 50 meter
EVX71101	GigaVex Rugged AOC HDMI Fibre Cable, 100 meter

# Symposia®

## iDAVS

### Medical grade cameras

From simple video systems to complex telemedicine installations, Symposia iDAVS includes all the building blocks to provide integrated solutions.

iDAVS includes a wide range of medical grade components camera components that can be integrated within the Quasar range of operating room lights. In addition to integrated devices the iDAVS range includes stand-alone camera systems that can be either ceiling mounted in the case of, pan – tilt – zoom, or mounted on secondary accessory arms for surgical view applications. iDAVS camera systems are available in both HD and 4K depending on application.



<b>Entoli video accessories</b>	EVCH30ZPS	HD PTZ DOME CAMERA (SDI) Sony SRG300H
<b>Remote control panels for medical luminaries</b>	14721-3	HD600 Quasar eLite Wireless i2i Qe6H Camera Control Unit
	14721-4	HD600 Quasar eLite Wireless i2i Qe3H Camera Control Unit
	14722-3	HD600 Quasar eLite Flush Mount Wireless i2i Qe6H Camera Control Unit
	14722-4	HD600 Quasar eLite Flush Mount Wireless i2i Qe3H Camera Control Unit
	15063	Symposia Wireless HD Camera Yoke Mount Kit (for QeGAOvtc above)
	15060	Symposia Wireless 4K Camera Yoke Mount Kit (for QeGAOvtc above)
	15187	4K Demountable Wireless Camera Module (add ceiling arm & yoke Mount Kit)
	15147	HD Demountable Wireless Camera Module (add ceiling arm & yoke Mount Kit)



# Symposia®

## IR3 Video Hub

### Recording, storage and playback

The IR3 video Hub is a hardware device that provides for the capture, recording, storage and playback of medical video files. IR3 provides central video storage that integrates with all the video signals connected into Symposia. It allows users to easily record video data, has a simple retrieval system and software to allow review and editing of video files. Users can look at the video files by date/time and can write protect material to be saved. The IR3 video Hub is a network enabled device to allow remote viewing and management of the content.

#### The Next Generation Video Recorder

Records Full HD video at 60 frames per second with smooth, crystal clear resolution.

Captures still frames while recording Pre-recording feature ensures that important procedure footage is not missed.

Plays back real-time to check on video (but not for diagnostic purposes) The multi-Input recording provides for two-camera procedures with easy toggling functionality.

#### Workflow Integration

Videos and still images are saved with patient data to a USB stick (or external USB hard drive), internal storage and network storage to be archived or reviewed post surgery.



#### Patient Data

Automatically prompts you to enter patient information via keyboard to the monitor prior to recording. The patient information is saved with the recording on the USB or external hard drive for efficient work flow and data security.

#### Intuitive Use

This highly advanced, medical-grade recorder is intuitive and requires no formal training.

Its light weight, compact size easily connects to the camera and an HD video monitor, and can be operated by:

- Integrated AMOLED 7"/18cm touchscreen control monitor
- MediCapture's user-friendly icons
- Front-Panel Buttons
- Remote Control (included)
- Surgical Camera or Scope
- Foot Pedal

<b>IR3. Integrate, record, retrieve, review</b>	EVPMVR420	Symposia MVR Pro Recorder without screen for iTCP/Entoli Integration
	EVPMVR409	Symposia MVR Pro Recorder with screen for stand alone recording
	EVPMVRDICOM	MVR DICOM Worklist/DICOM Documentation Solution Activation Key
	EVPMVR4K	MVR 4K Recording (2160p30) Activation Key