

Advanced OR Integration Solutions



OR INFINITY

INFINI CONNECT

Medical Video Recording, Live Streaming and Video Conferencing Solution with Integrated Audio

INFINI CONNECT (A)

Infini Connect (A) is an advanced OR Integration solution having Video Recording with Patient Data, Live Streaming and Video Conferencing capabilities along with integrated wireless microphone for audio. It combines advanced video capture capabilities with real-time surgical collaboration and training.

Clinicians can seamlessly host live case discussions, remote consultations, and educational sessions directly from the operating room, fostering stronger collaboration and faster decision-making. Each case can be documented with patient, doctor, and procedure details, ensuring organized storage and easy retrieval. Built for effortless integration with hospital systems and available in both In-Room and Mobile formats, this all-in-one platform combines secure recording, streaming, and live conferencing to enhance clinical efficiency and enable truly connected care.



PURPOSE-BUILT CAPABILITIES



Multi-Channel 4K Input and Loop-out Support

Simultaneously accepts up to four 4K video inputs with 4K loop-out option, ensuring high-resolution clarity for every procedure.



PIP, PAP, Quad Multi-View Display and Recording

Supports PIP, PAP and Quad view formats for parallel visualization and documentation of up to 4 sources in Full HD.



Wireless Mic Integration

Capture high-quality procedural commentary with a wireless mic ensuring synchronized audio-video documentation.



Patient Data Management

Input patient, doctor, and procedure details with each case & associate doctor notes for organized case retrieval and post-procedure review.



Mobile Trolley Configuration

Available in an optional compact, wheeled trolley version with optional camera spring arm (for surgical camera) for multi-room operations



Secure Live Streaming Over Hospital Network

Stream surgical procedures in real time across the hospital LAN with end-to-end encryption and access control.



Integrated Camera Control

21.5" touchscreen interface enables live video preview, recording, multiview selection, and precise camera control for both PTZ and surgical cameras.



Integrated Video Conferencing

Conduct secure, real-time remote consultations or teaching sessions with an optional 4K PTZ camera directly from the OR.



1TB In-built and External Storage

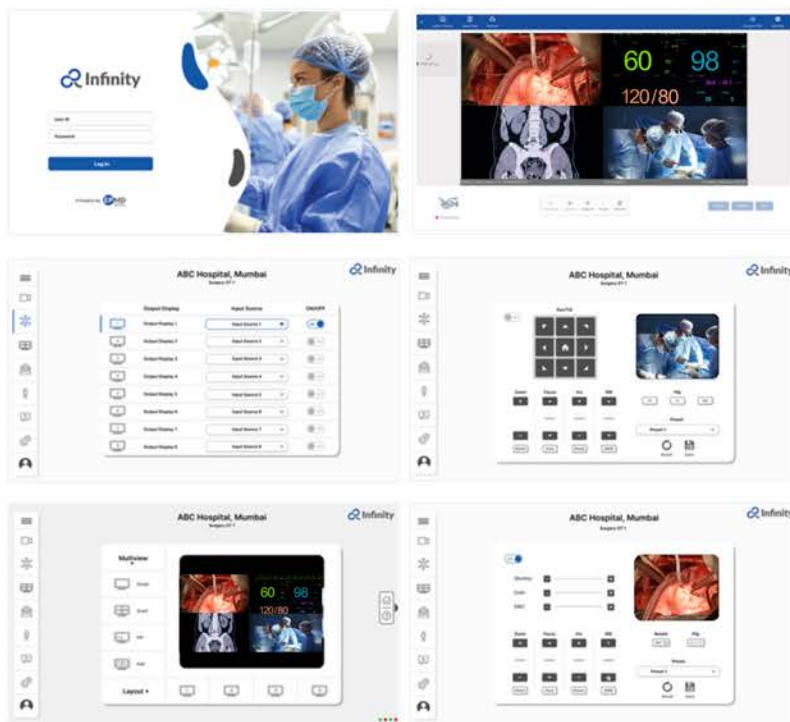
Integrated 1TB local storage for secure, high-capacity recording with options to export to USB or network drives based on workflow needs.



PACs and HIS Integration and DICOM Compatible

Compatible with PACS/VNA/NAS systems and HIS for centralized content management and workflow efficiency.

SYSTEM OVERVIEW



INFINI CONNECT(B)



The Fully Integrated OR Solution is a comprehensive, state-of-the-art platform designed to unify surgical video management, recording, streaming, conferencing, and real-time display control within a single, intelligent system.

Supporting up to 8 video inputs and outputs, the system accepts feeds from OT light cameras, laparoscopes, microscopes, C-arms, patient monitors, and more. Any source can be routed to any display inside or outside the OT, enabling fully customizable visualization for surgical teams. Centralized control simplifies recording, multiview management, conferencing, and source routing. Optional monitors with flush, wall, or ceiling mounts expand flexibility, while dual wireless microphone support lets two surgeons communicate or narrate simultaneously. Built for seamless integration, this solution transforms the operating room into a connected, workflow-optimized environment.

PURPOSE-BUILT CAPABILITIES



Multi-Source 4K Input Handling (Up to 8 Inputs)

Supports up to 8 simultaneous 4K video inputs from diverse clinical devices including OT light cameras, endoscopes, C-arms and more.



Flexible 4K Output Routing (Up to 8 Outputs)

Enables real-time routing of any 4K video source to any 4K display within or outside the OT ensuring optimal visualization.



PIP, PAP, Quad Multi-View Display and Recording

Supports PIP, PAP and Quad view formats for parallel visualization and documentation of up to 4 sources in Full HD.



Dual Wireless Mic Integration

Two mic inputs allow simultaneous narration from two surgeons, enhancing clarity during procedures or remote interactions.



Patient Data Management

Input patient, doctor, and procedure details with each case & associate doctor notes for organized case retrieval and post-procedure review.



Secure Live Streaming Over Hospital Network

Stream surgical procedures in real time across the hospital LAN with end-to-end encryption and access control.



Integrated Camera Control

21.5" touchscreen interface enables live video preview, recording, multiview selection, and precise camera control for both PTZ and surgical cameras.



Integrated Video Conferencing

Conduct secure, real-time remote consultations or teaching sessions with an optional 4K PTZ camera directly from the OR.



1TB In-built and External Storage

Integrated 1TB local storage for secure, high-capacity recording with options to export to USB or network drives based on workflow needs.



PACs and HIS Integration and DICOM Compatible

Compatible with PACS/VNA/NAS systems and HIS for centralized content management and workflow efficiency.

ACCESSORIES



INFINI CAM R 4K



INFINI CAM S 4K



CAMERA SPRING ARM

CONFIGURATIONS



**Infini Connect A -
Trolley**



**Infini Connect A -
Trolley with PTZ
Camera**



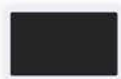
**Infini Connect A -
Trolley with Surgical
Camera**



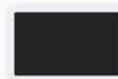
**Infini Connect A -
Trolley with PTZ and
Surgical Camera**



**Infini Connect A - Trolley
with PTZ, Surgical Camera
and Dual Monitors**



**Infini Connect A - Cabinet
(In Wall/Room) and Flush
Mount Monitor**



**Infini Connect B - Cabinet
(In Wall/Room) and Flush
Mount Monitor**

SPECIFICATIONS: INFINI CONNECT (A)

Model			Infini Connect 2A	Infini Connect 4A
Description			2 Input Medical Recording, Streaming & Conferencing with Integrated Wireless Mic	4 Input Medical Recording, Streaming & Conferencing with Integrated Wireless Mic
Video				
Video	Input	SDI (BNC)*	-	1 x 3G SDI 1080p 60
		HDMI*	2 x 4K 60	3 x 4K 60
	Output	HDMI (Loop out)	1 x 4K 60	
Audio	Wireless Microphone		Yes	
Other Interfaces			USB 3.0 (Type A), RJ45	
Display				
Primary	Screen Type		21.5 inch Touchscreen	
	Resolution		Full HD (1080p)	
Recording				
Format	Video		MPEG 4 (H.264 + AAC) or (H.265 + AAC)	
	Image		JPG, JPNG	
Resolution	Video		1080p	
Storage	Internal		1TB SSD	
	External		USB 3.0 HDD (USB 3.0), NAS, PACs	
Patient Data Management	Patient/Doctor/Procedure Details		Yes	
	DICOM Format Images		Yes	
Control	Application		Windows App	
Live Streaming				
Encoding Format			H.264/MPEG-4 AVC/HEVC/H.265 (Video), AAC (Audio)	
Resolution			4K 60, 1080p 60	
Streaming Protocol			RTP, RTSP, UDP, TCP	

SPECIFICATIONS: INFINI CONNECT (A)

Model		Infini Connect 2A	Infini Connect 4A
Multiview			
Video	Layout	Single, PIP and PAP	Single, PIP, PAP and Quad
Computer			
OS		Windows 11	
RAM		16 GB DDR4	
Processor		i5 12th Gen, 6 Core	
Storage		1 TB SSD	



SPECIFICATIONS: INFINI CONNECT (B)

Model			Infini Connect 4B	Infini Connect 8B
Description			4x4 Integrated OR Solution	8x8 Integrated OR Solution
Video				
Video	Input	SDI (BNC)*	1 x 3G SDI 1080p 60	
		HDMI*	3 x 4K 60	6 x 4K 60
		DVI (Dual Link)*	-	1 x 4K 60
	Output	HDMI (Loop out)	3 x 4K 60	7 x 4K 60
		RJ45	1 x Base 10/100/1000-T	
Audio	Wireless Microphone		Yes, Dual Mic	
Other Interfaces			2 x USB 3.0 (Type A), 2 x RJ45	
Display				
Primary	Screen Type		21.5 inch Touchscreen	
	Resolution		Full HD (1080p)	
Recording				
Format	Video		MPEG 4 (H.264 + AAC) or (H.265 + AAC)	
	Image		JPG, JPNG	
Resolution	Video		1080p	
Storage	Internal		1TB SSD	
	External		USB 3.0 HDD (USB 3.0), NAS, PACs	
Patient Data Management	Patient/Doctor/Procedure Details		Yes	
	DICOM Format Images		Yes	
Control	Application		Windows App	
Live Streaming				
Encoding Format			H.264/MPEG-4 AVC/HEVC/H.265 (V), AAC (A)	
Resolution			4K 60, 1080p 60	
Streaming Protocol			RTP, RTSP, UDP, TCP	

SPECIFICATIONS: INFINI CONNECT (B)

Model		Infini Connect 4B	Infini Connect 8B
Multiview			
Video	Layout	Single, PIP and PAP	Single, PIP, PAP and Quad
Computer			
OS		Windows 11	
RAM		16 GB DDR4	
Processor		i5 12th Gen, 6 Core	
Storage		1 TB SSD	



SPECIFICATIONS: INFINI CAM

Model	Infini Cam R 4K	Infini Cam S 4K
Description	4K PTZ Camera	4K Surgical Block Camera
Image Sensor	SONY 1/2.8" CMOS sensor	
Effective Pixels	8.29 Megapixels (16:9)	8.4 Megapixels (16:9)
Zoom	12x optical zoom	
Video output format	4K UHD (30/25/24fps), 1080 FHD (60/50/30/25/24fps), 720P HD (60/50fps)	4K UHD (60/50/30/25fps), 1080 FHD (60/50/30/25/24fps), 720P HD (60/50fps)
Video encoding format	H.264, H.265, MJPG, YUV2	H.264, H.265, MJPEG
Focus Mode	Auto, Manual	
Aperture	F1.6 ~ F9.6	F1.6 ~ F11
Diagonal Perspective	6.48° (N) ~ 80.82° (W)	-
Minimum Illumination	0.5 Lux	
Horizontal Rotation / View	350° (±175°) 0.1°/s ~ 80°/s	72.8° ~ 6.8°
Vertical Rotation / View	180° (±90°) 0.1°/s ~ 60°/s	44.1° ~ 3.8°
External Control	433Mhz Wireless Remote, RS-485, UVC, VISCA over ip	Body Buttons, 360 ° infrared remote control support, RS485, VISCA / Pelco-D / Pelco-P
Output Interface	HDMI, USB3.0 (Type A), RJ45	HDMI, 3G-SDI, USB3.0 (Type C), RJ45
POE	IEEE 802.3at (RJ45 Network Port)	
Installation	Flat, ceiling mount, Wall Mount	Ceiling mount, Wall Mount
Additional Features	Anti-Flicker, Image Flip, White Balance, Backlight compensation, Presets	Anti-Flicker, Image Flip, Image Freeze, White Balance, Backlight compensation, Digital Noise Reduction, Presets



ORDERING INFORMATION

Description	Code
Infini Connect 2A - 2 Input Recording, Streaming & Conferencing with Audio (Cabinet)	LF90358
Infini Connect 2A (M) - 2 Input Recording, Streaming & Conferencing with Audio (Trolley)	LF90359
Infini Connect 4A - 4 Input Recording, Streaming & Conferencing with Audio (Cabinet)	LF90360
Infini Connect 4A (M) - 4 Input Recording, Streaming & Conferencing with Audio (Trolley)	LF90361
Infini Connect 4B - 4x4 Integrated OR Solution (Cabinet)	LF90362
Infini Connect 8B - 8x8 Integrated OR Solution (Cabinet)	LF90363
Infini Cam R 4K - 4K PTZ Room Camera	XK69075
Infini Cam S 4K - 4K Surgical Block Camera	XK69076
Camera Spring Arm - Surgical Camera Mount	XK69077





30+ YEARS
MEDICAL DEVICE
MANUFACTURING EXPERIENCE



50+
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Certifications and Compliances

ISO 9001:2015



HIPAA



ISO 13485:2016



HL7

HL7

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