

Advanced OR Integration Solutions



OR INFINITY

INFINI PULSE

Smart Video Recording and Live Streaming Solution with Integrated Audio

INFINI PULSE (A)

Infini Pulse (A) is an advanced OR Integration solution having Video Recording & Live Streaming capabilities along with integrated wireless microphone for audio. It is purpose-built to enhance documentation accuracy, and team collaboration in surgical environments.

Supporting multiple 4K inputs with Full HD recording and multiview (PIP/PAP/Quad) display, the system enables comprehensive visual capture of procedures. An intuitive 7-inch touchscreen control panel allows easy preview, recording, camera control, and source selection. Integrated wireless lapel mic and amplifier ensure clear, synchronized audio for procedural narration and team communication. Designed for seamless hospital integration and available in both fixed and mobile trolley formats, this solution empowers surgical teams with reliable, secure, and clinically meaningful video documentation and live collaboration.



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 Picture-in-Picture (PIP), Picture-and-Picture (PAP) and Quad formats for parallel visualization and documentation of four sources in Full HD.



Wireless Mic Integration

Capture high-quality procedural commentary with a wireless mic, enabling hands-free operation and ensuring synchronized audio-video documentation.



Mobile Trolley Configuration (Optional)

Available in a compact, wheeled trolley version with optional camera spring arm (for surgical camera) to support flexible deployment across multiple operating or other rooms.



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

Intuitive 7" touchscreen interface enables live video preview, recording, multiview selection, and precise camera control for both PTZ and surgical cameras—all at your fingertips.



Integrated 24" Full HD Monitor

Offers real-time, high-quality video preview with accurate color rendering with an add-on option to upgrade to 4K and/or medical grade display.



External Storage Options

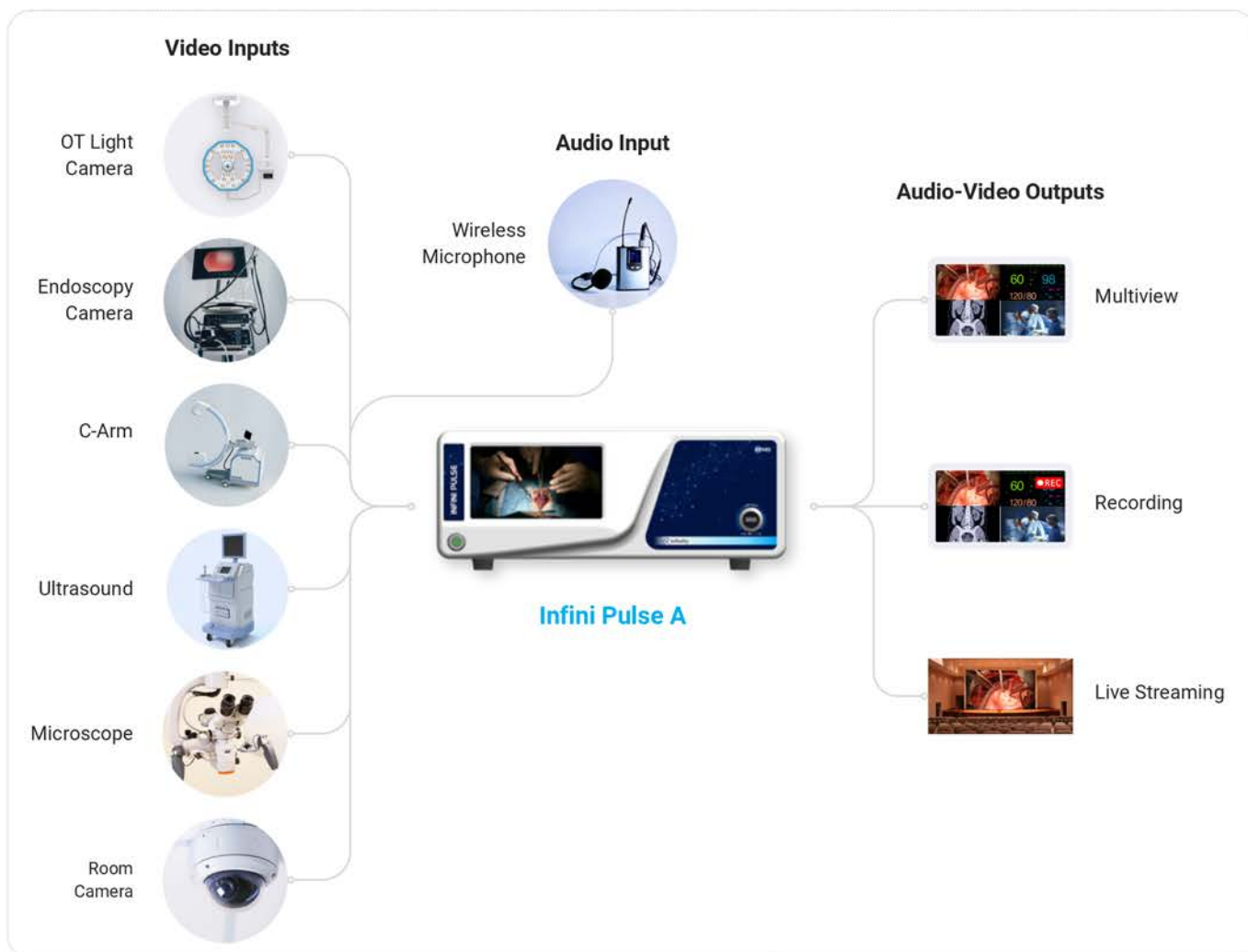
Save recordings to USB drive or a USB disk.



Remote-Controlled Operation

Ideal for sterile environments where direct interaction is limited.

SYSTEM OVERVIEW



ACCESSORIES



INFINI CART (P)



INFINI CAM R 4K



INFINI CAM S 4K



CAMERA SPRING ARM

CONFIGURATIONS



Cabinet



Cabinet with Trolley



Cabinet with Trolley
and PTZ Camera



Cabinet with Trolley and
Surgical Camera



Cabinet with Trolley, PTZ
and Surgical Camera

INFINI PULSE (B)



The Video Conferencing Trolley is a versatile, mobile communication solution designed for seamless use across hospitals.

Equipped with 4K ultra clear webcam, built-in windows PC and a 24-inch monitor, it enables high-quality video conferencing, remote consultations, and interactive teaching sessions. Its compact, mobile design allows deployment in operating rooms, auditoriums, lecture halls, classrooms, or doctor's offices, providing a reliable platform for clinical discussions, telemedicine, and collaborative learning anywhere in the hospital.

PURPOSE-BUILT CAPABILITIES



Integrated 4K Webcam

Ensures sharp video capture for telemedicine, virtual consultations, or training sessions.



Plug-and-Play Connectivity

Quick to set up and operate, minimizing downtime and technical intervention.



Mobile Trolley Design

Compact, wheeled design allows easy movement between OTs, lecture halls, classrooms, and doctors' offices.



Stable & Secure Platform

Designed for reliable performance in clinical and academic environments, with sturdy construction for frequent mobility.



Built-in Windows PC with Keyboard Mouse Support

Enables seamless access to popular video conferencing platforms (Zoom, Teams, Meet, etc.) and hospital network resources.



24" Full HD Display

Provides clear, vibrant visuals for video calls, presentations, and remote teaching sessions. Optional 4K monitor upgrade is available.



Hospital-Wide Utility

Ideal for remote case discussions, virtual training, teleconsultations, and administrative meetings.



SPECIFICATIONS: INFINI PULSE (A)

Model			Infini Pulse 1A	Infini Pulse 2A	Infini Pulse 4A
Description			1 Input Recording and Streaming with integrated wireless mic	2 Input Recording and Streaming with integrated wireless mic	4 Input Recording and Streaming with integrated wireless mic
Video					
Video	Input	SDI (BNC)*	-		1 x 3G SDI 1080p 60
		HDMI*	1 x 4K 60	2x 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		7 inch Touchscreen		
Secondary	Screen		24 inch Non Touch		
	Resolution		Full HD (1080p)		
Recording					
Format	Video		MPEG 4 (H.264 + AAC) or (H.265 + AAC)		
	Image		JPG, JPNG		
Resolution	Video		1080p		
Storage	External		USB 2.0 HDD (USB 2.0), NAS		
Control	IR		Remote Control		
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		
Multiview					
Video	Layout		-	Single, PIP and PAP	Single, PIP, PAP and Quad

SPECIFICATIONS: INFINI PULSE (B)

Model	Infini Pulse B
Description	Video Conference Trolley
Input/Output	
Video In	1 x USB 3.0 (Type A)
Audio	Integrated Wireless Microphone
Other Interfaces	USB 3.0 (Type A), RJ45
Display	
Screen Type	24 inch Non Touch
Resolution	Full HD (1080p)
Computer	
OS	Windows/Linux
Processor	Intel i3 or equivalent
RAM	8 GB
Storage	500GB SSD/HDD
Camera (Webcam)	
Resolution	4K 30 fps (2160p)
Output Interface	USB A
Rotation	AI Speaker Tracking
Digital Zoom	4X
Field of View	94° Diagonal
Pixels	8 MP
Sensor	CMOS
Microphone	Built in 2 Mics
Speaker	Built in



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 Pulse 1A - 1 Input Recording & Streaming with Audio (Cabinet)	LF90354
Infini Pulse 2A - 2 Input Recording & Streaming with Audio (Cabinet)	LF90355
Infini Pulse 4A - 4 Input Recording & Streaming with Audio (Cabinet)	LF90356
Infini Pulse B - Video Conferencing Trolley	LF90357
InfiniCart P - Trolley for Infini Pulse Cabinet	XK69074
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





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Certifications and Compliances

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ISO 13485:2016



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