



NDS
A Novanta Company

EVOLUTION4K™ IP

- *Route any image to any display or remote location in full 4K/60*
- *Lossless video and no transmission delay (latency)*
- *100% IP connectivity to easily share live video and data*
- *Dual channel recording in video and stills*
- *Comprehensive workflow application software*
- *Custom reports with auto-populate and printing*
- *Custom settings for each physician*
- *Stream video in real-time to trainees or conference delegate*
- *Certified medical device for safe use in patient zone*
- *Encrypted video transmission and cybersecure data*
- *DICOM, PACS, HL7 and VNA system integration*
- *Optional larger format external touch panel control*

A COMPLETE DIGITAL OR CONTROLLER IN A SINGLE BOX

A safe, reliable and high performing digital OR media management system in a single device.

Simple, Effective and Powerful; the Evolution4K IP brings advanced medical recording features and 4K video over IP routing functionality into the operating room and day treatment and ambulatory surgical centres. This low cost and feature rich medical device includes 4K surgical video and imaging routing, patient workflow, video streaming video, and integration into Hospital Information Systems – all simultaneously.

The Evolution4K IP allows the users to upload from HIS, a worklist server or manually enter patient data,

capture 4K video and 4K still images, route HD/4K 50/60hz video from any microscope, endoscope or imaging or monitoring device to multiple displays in the OR or external locations. During or post procedure, the physician can play back any 4K video footage, review report images, auto print to medical grade printers or record to dual USB 3.0 external hard drives or flash drives or network attached storage devices.

The device operates with 4K surgical microscope cameras and 4K endoscope cameras trigger buttons, an RS232 footswitch or the internal or external colour touch panel.

Currently Available in Custom OEM Configurations

TECHNICAL SPECIFICATIONS

SDVoE SUPPORTED RESOLUTIONS

4K & 4K UHD	4096x2160p & 3840x2160p: 50/60Hz
Typical HD	1080p, 1080i, 720p
4K/UHD Hz	60, 50, 30, 25, 24
1080p Hz	60, 50, 30, 25, 24
1080i Hz	60, 50
720p Hz	60, 50
Others	1920x1200p, 1280x1024p, 1280x960p, 1024x768p, 800x600p, 640x480p

GENERAL

Video Encoding	AVCHD H.264 encoding .mp4 file format
Operating System	Embedded Linux
Hard Drive Capacity	1TB
Input Power	AC: 100–240Vac, 1.3~0.6A, 50/60Hz power DC: 12V, 6.67A
Ethernet	10/100/1000 RJ45
CMOS Battery	CR 2032
Service Life	15 Years
Dimensions (W x H x D)	205.0mm x 105.6mm x 214.1mm
Display Weight	2.72 kgs (6lbs)

ACCESSORIES

Included Accessories	User manual download card, Medical grade power cable, AC/DC converter, Mini USB keyboard
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INPUT/OUTPUT CONNECTON OPTIONS



* two utilized at a time

The device works within the video over IP standard of SDVoE and is natively compatible with the SDVoE eco-system of encoders and decoders (information on compatible medical grade SDVoE encoders and decoders and IP switches is available from the 4 Medical IT Alliance members website www.4medicalit.com).

CONNECTIVITY

Video Inputs	SDVoE	
Video Outputs	Internal Display	Primary GUI
	DisplayPort++	Secondary GUI*
	HDMI	Secondary GUI*
	VGA	Secondary GUI*
	HDMI 2.0	Live Passthrough Video

REGULATORY COMPLIANCE

ANSI/AAMI ES60601-1, CAN/CSA C22.2 No. 60601-1, , FCC Class B, EN60601-1, EN60601-1-2, CE, MDD 93/42/EEC, Class I Medical Device, CCC, designed to meet IPX0

ORDERING INFORMATION

EVO4K600	Evolution4K IP
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CONTACT INFORMATION

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Med X Change Quality System
ISO 13485 Certified
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