

Medical Monitors and Image Processing Systems

FSN has the solutions for virtually any medical video display or image processing application. FSN's medical grade monitors and video integration products help to manage images generated from a variety of capture devices used in today's high-tech medical environments.

Image processing systems manage medical video signals by routing, converting, digitizing, recording, and archiving, based upon individual facility requirements.

Display monitors used in the surgical environment must perform when needed. Our products are designed and built to withstand the rigors of daily use in the OR. Our large installation base is a sign of the quality and reliability medical professionals have come to expect and receive from FSN.

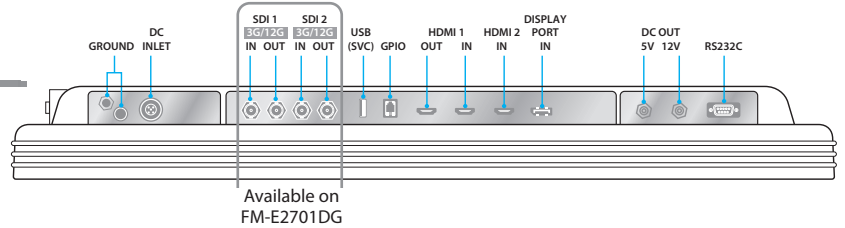
Sharing Your Vision

FSN 4K Medical Monitors

FM-E2701D FM-E2701DG (SDI)

27 inch

- 3840 x 2160 resolution
- Brightness (typical) 700 cd/m²
- Contrast Ratio (typical) 1000 : 1
- Image rotate and mirror

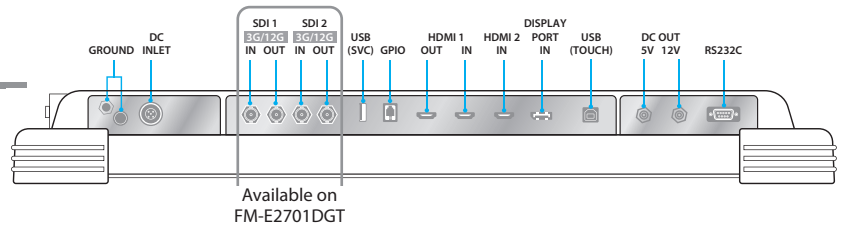


FM-E2701DT FM-E2701DGT (Touch)



27 inch

- 3840 x 2160 resolution
- Brightness (typical) 600 cd/m²
- Contrast Ratio (typical) 1000 : 1
- Image rotate and mirror

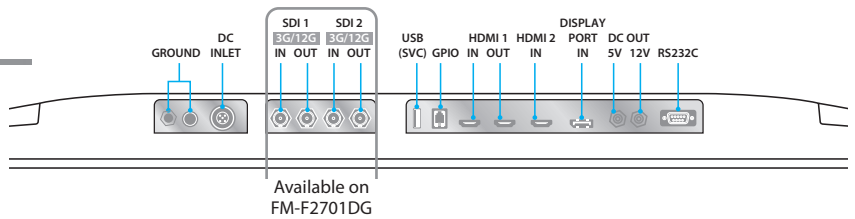


FM-F2701D FM-F2701DG (SDI)



27 inch

- OLED
- 3840 x 2160 resolution
- Brightness (typical) 540 cd/m²
- Contrast Ratio (typical) 1,000,000 : 1
- Image rotate and mirror

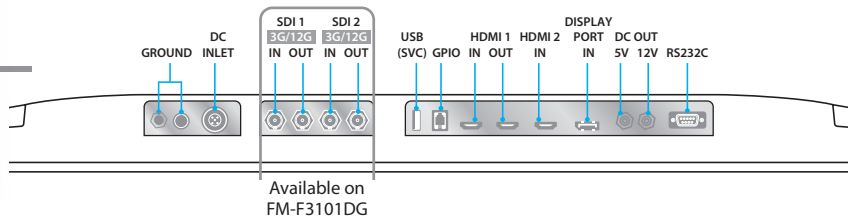


FM-F3101D FM-F3101DG (SDI)



31.5 inch

- OLED
- 3840 x 2160 resolution
- Brightness (typical) 540 cd/m²
- Contrast Ratio (typical) 1,000,000 : 1
- Image rotate and mirror

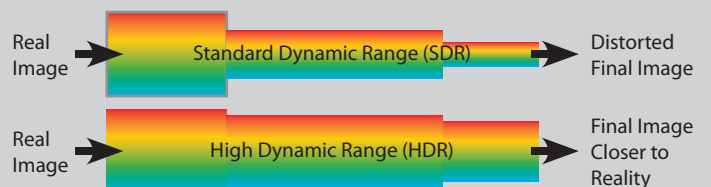


OLED Advantages

- ✓ Picture Quality
- ✓ Thinner
- ✓ Lighter Weight
- ✓ Deep Black Levels - High Contrast Ratio
- ✓ Response Time
- ✓ Energy Efficient

HDR 10

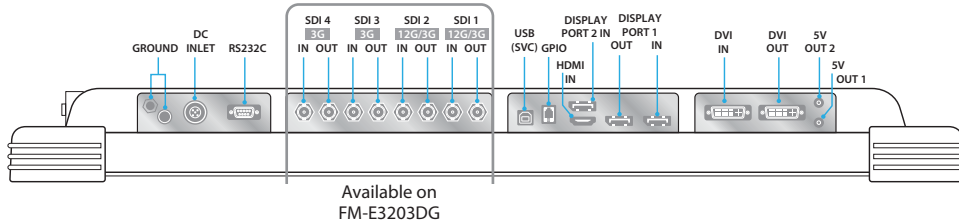
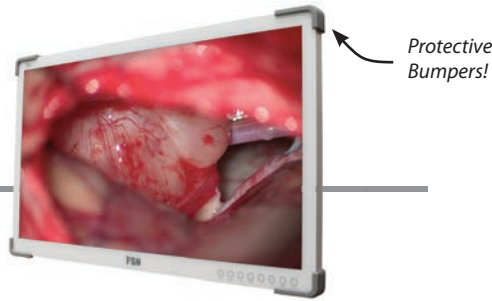
Selected FSN monitors are High Dynamic Range (HDR)/HLG ready, offering brighter highlights, darker blacks, and generally richer, more vivid color.



FM-E3203D FM-E3203DG

32 inch

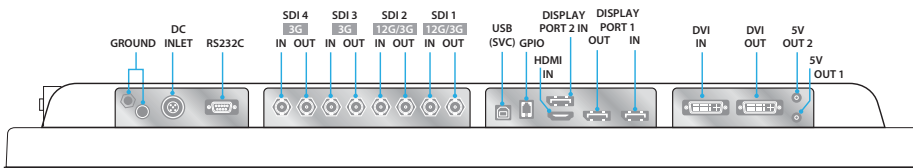
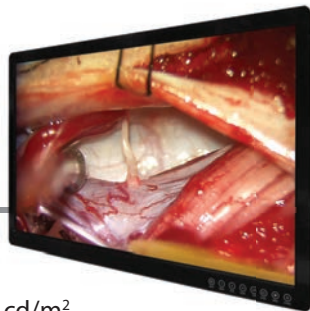
- 3840 x 2160 resolution
- Brightness (typical) 700 cd/m²
- Contrast Ratio (typical) 1350 : 1
- Fast detection of sources



FM-E3204DGC

32 inch

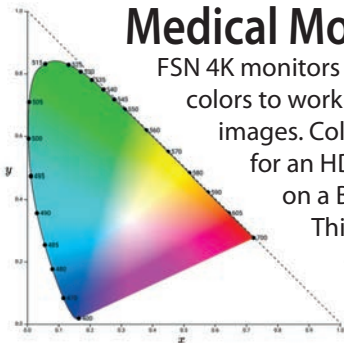
- 3840 x 2160 resolution
- Brightness (typical) 500 (2D), 200 (3D) cd/m²
- 2D/3D is enabled or disabled in OSD
- 3D formats: Side-by-side, line-by-line, top bottom



*FSN monitors are designed for
cart or boom arm mounting.*

Medical Monitor Expertise

FSN 4K monitors have an extended palette of colors to work with when displaying surgical images. Colors that were too deep or intense for an HD monitor can now be shown on a BT.2020-ready FSN 4K display. This means deeper reds, blues, and greens, plus richer secondary colors like magentas, cyans, and yellows.



FSN's unique optical bonding process removes any air gaps in the front panel. This increases LCD brightness, contrast ratio, strength, and condensation resistance.

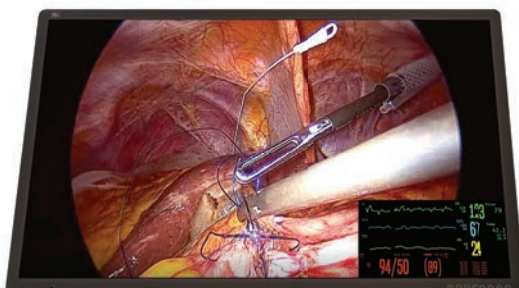
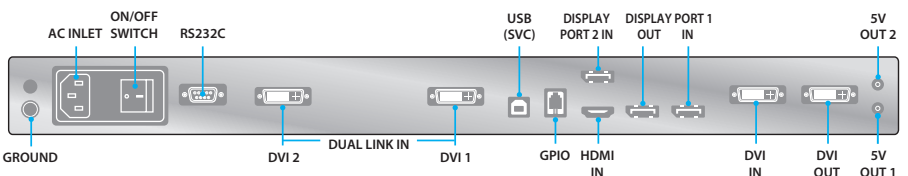


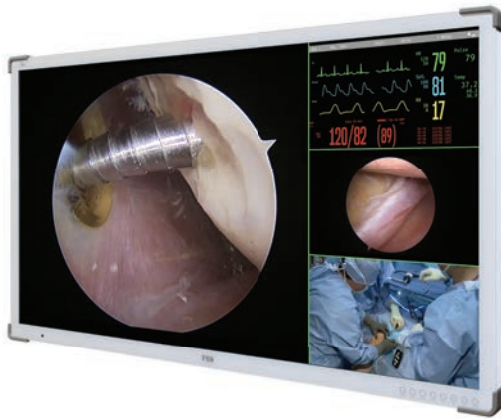
FM-C5501DV

55 inch

- 3840 x 2160 resolution
- Contrast Ratio (typical) 4,000 : 1

- Brightness (typical) 500 cd/m²
- DVI dual link





FM-A5504DS

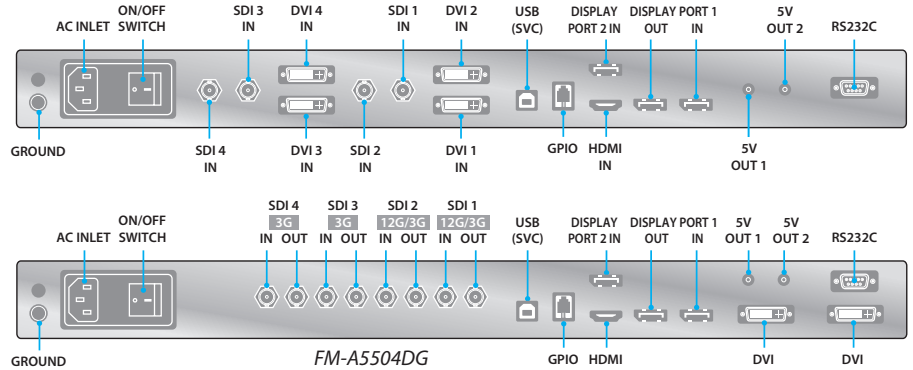
FM-A5504DG



55 inch

- 3840 x 2160 resolution
- Contrast Ratio (typical) 1100 : 1

- Brightness (typical) 500 cd/m²
- Multi window (2, 3, 4) layouts



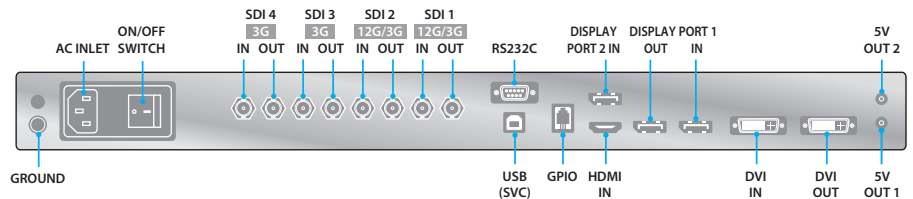
FM-A5505DGC

FM-A5505DGC (Rev.01)



55 inch

- 3840 x 2160 resolution • OLED, 3D • Contrast Ratio (Rev.01 peak) 475,000 : 1
- Luminance (Monitor, 2D, Bypass/ Default Mode) Range 87-260 cd/m²
- Luminance Rev.01 (Monitor, 2D, Bypass/ Default Mode) Range 110-475 cd/m²



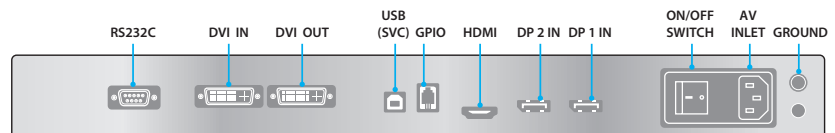
FM-A5503DC

FM-A5503DC (Rev.01)



55 inch

- 3840 x 2160 resolution • OLED, 3D • Contrast Ratio (Rev.01 peak) 475,000 : 1
- Luminance (Monitor, 2D, Bypass/ Default Mode) Range 87-260 cd/m²
- Luminance Rev.01 (Monitor, 2D, Bypass/ Default Mode) Range 110-475 cd/m²

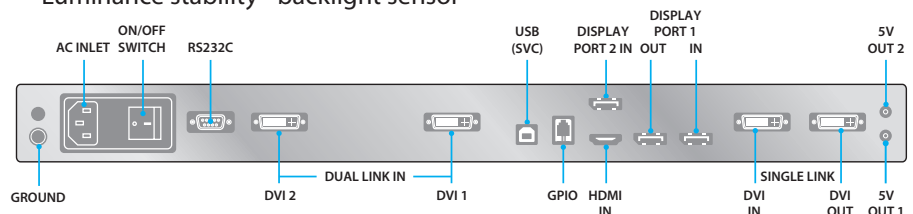


FM-D5801DV

58 inch

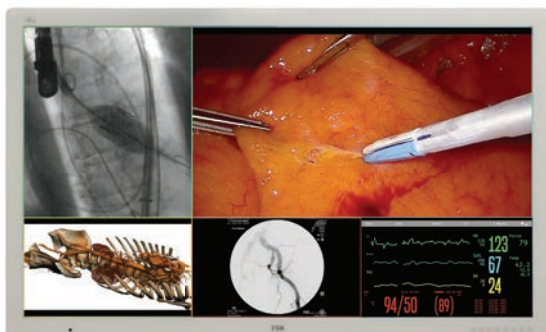
- 3840 x 2160 resolution
- Contrast Ratio (typical) 4000 : 1
- Luminance stability - backlight sensor

- DICOM mode
- Brightness (typical) 700 cd/m²



OLED

- ✓ Deep Black Levels - High Contrast Ratio
- ✓ Optimal 3D Viewing Angles



FSN Image Processing Systems

IPS4000

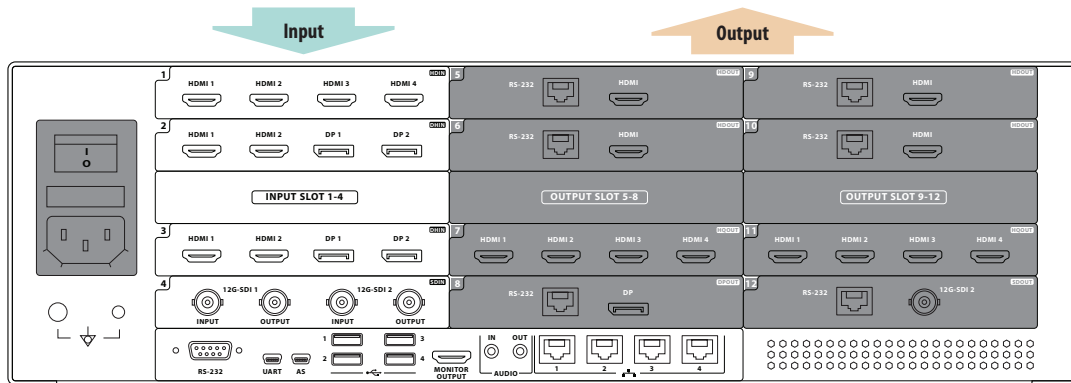
Control OR 4K

IPS4000 is FSN's next generation, high performance video processing system. It can be installed as a stand-alone video processor/controller, or integrated into larger imaging system packages, bringing its unique set of features to medical applications.

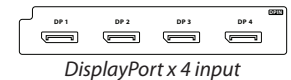
Input video options, depending on configuration, include: DisplayPort, HDMI, 12G-SDI, and analog. Output options include: DisplayPort, HDMI, and 12G-SDI. There is a built-in 7" touchscreen LCD on the front panel for user control.

Use IPS4000 for controlling all aspects of medical video routing from source to destination, output layouts, network streaming, customizing icons and name assignments, and save/recall preset configurations.

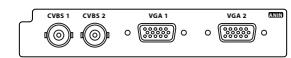
IPS4000 has connections for external preview and interface control on a monitor or tablet, external peripheral control, Ethernet network, and USB 3.0.



IPS4000 user interface on FSN's FS-E2101DT touchscreen.



DisplayPort x 4 input



Analog input

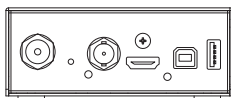


DisplayPort x 4 output

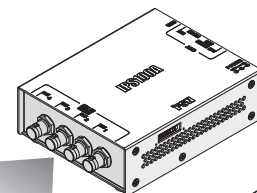
IPS4000 is designed for modular configuration. Additional combinations of input and output cards can be specified, based on IPS4000 unit order quantity.

IPS100A

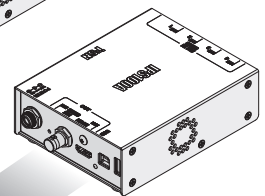
IPS100A is a video signal converter that accepts quad SDI (3G or 12G) input up to 4K, and delivers single SDI (3G or 12G) or HDMI 2.0 output up to 4K.



Quad SDI (3G or 12G) input up to 4K

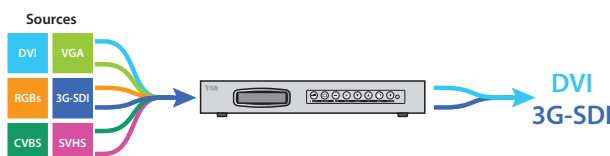


Single SDI (3G or 12G) or HDMI 2.0 output up to 4K



IPS500A

IPS500A supports source selection, advanced windowing features, picture-in-picture, and signal switching. It maintains video picture quality and standardizes the appearance of images across different display devices.



FSN Recording and Archiving

IPS740DS, IPS740DG

Record video and capture still images in crystal-clear 4K resolution. IPS740 series recorders come with a rich set of features that will upgrade any medical video application. These recorders also integrate with VACS® software for video archiving and collaboration.



IPS740DS and IPS740DG (12G SDI) come with 4 TB of internal storage for extended recording times. These models will also record and playback video content in 3D.

Use the integrated 5 inch touchscreen on IPS740 series recorders, or switch to an external monitor to control all recording, playback, saving functions, or to preview the active video signal.

Integrates with
VACS® software



Connect an external control monitor for full screen interface viewing.



IPS720

The IPS720 Medical Digital Video Recorder offers HD image/still image capture (up to 1920x1080p) and medical session video recording (up to 1080p 60Hz). The system will simultaneously record to the 2 terabyte internal hard disk drive and an external USB flash drive. IPS720 integrates easily into medical IT workflows by utilizing: DICOM store, modality worklists, MPPS, appointment booking (HL7), and direct access to PACS.

Accession Number	Patient ID	Patient Name	Modality	Worklist Information
235	PID00100	OLIVER THOMAS	ES	Patient ID: PID00100
244	PID02132	KEARNEY NELSON	US	Patient Name: OLIVER THOMAS
357	PID04930	FRED RALPH	DD	Patient Birth Date: 19700602
1299	PID11769	ABNER PAMELA	NM	Patient Weight: 140
1300	PID00100	BALDWIN OLIVER	NM	Accession Number: 235
1333	PID11769	ABNER PAMELA	XA	Accession ID: AID00211
1334	PID08755	LORENZO ALFREDO	XA	Modality
3001	100	WILLIE DANA	SC	

The IPS720 user interface can be displayed on the front of the unit, or on an externally connected monitor.

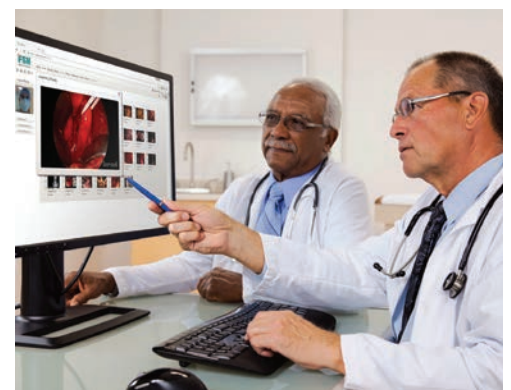
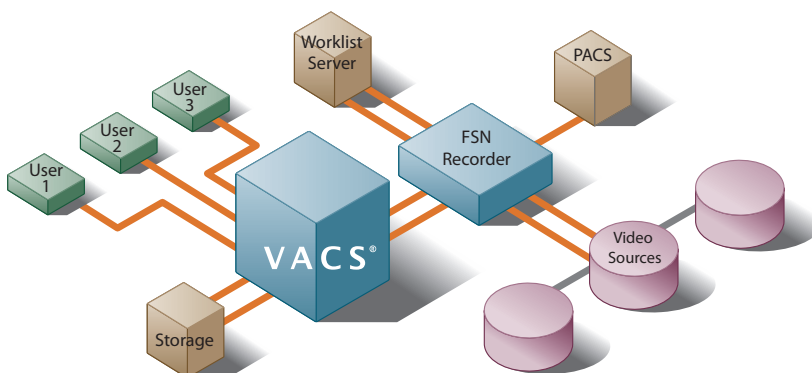
- 2 Channel Recording!
- 3D Recording!



VACS®

High definition video, still captures, procedure notations, and DICOM files are considered valuable assets to medical professionals. The digital asset management capabilities found in a VACS® system make it easy to find and use content when and where it is needed.

VACS software resides on a computer server within a medical facility's secure network. Access to the VACS system is achieved through a password protected web browser interface. Medical video recorders from FSN integrate with VACS to retrieve electronic health records, capture video or still images during a procedure, and send DICOM compliant images to a PACS system.



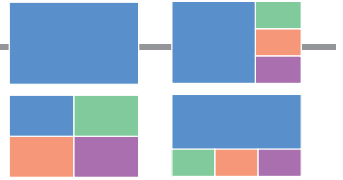
- Centralized Digital Asset Management
- User Friendly, Secure
- Workflow Compatible
- Ideal for Presentations, Education

FSN Video Management

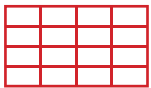
MSV 2

Multi-Scaler Viewer

With MSV 2, multiple video signals can be combined into one destination layout, such as quad screen, 1 large/3 small, or a user-customized layout. MSV 2 accepts up to 4 inputs, each up to 4K resolution, and converts them to resolutions that will display on a single 4K screen.



MSV 2 is controlled by buttons on the unit's front face, or by a web-based PC interface that also offers live preview.



Group several MSV 2 units in order to expand the number of sources that can be controlled.

1. Preview and screen control.

2. Preset and channel options.

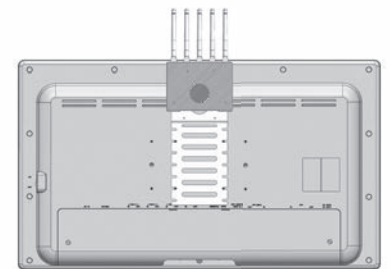
3. Screen, input, coordinate, output information.

WUH4060

4K Wireless at 60Hz

WUH4060 delivers uncompressed wireless audio and video, offers near-zero latency, and is free from lagging or stalling. WUH4060 is the result of extensive research and development, making sure that this proprietary system does not interfere with other wireless signals.

- ✓ Video resolution up to 4K 60Hz
- ✓ HDMI 2.0 and 12G
- ✓ Near zero latency (~1ms)
- ✓ Privacy data encryption
- ✓ Uncompressed AV streams

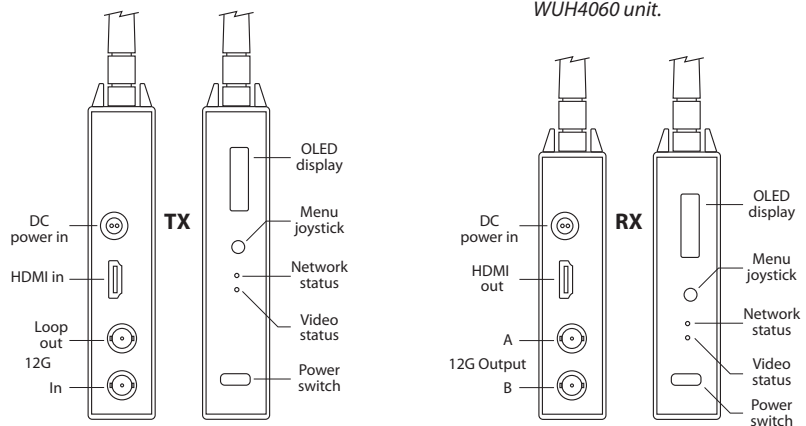


VESA mount brackets are included for each WUH4060 unit.



Transmitter (TX)

Receiver (RX)



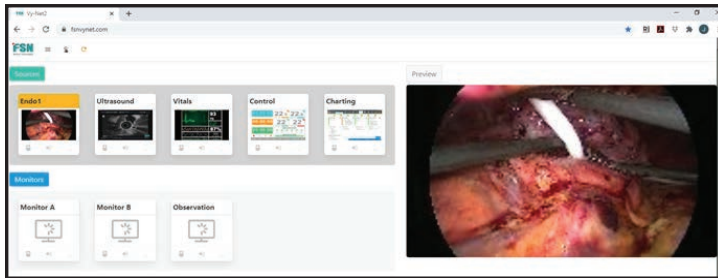
With FSN's wireless system, medical equipment layouts can be flexible and completely mobile. Reduced wiring helps eliminate snagging or tripping hazards. Turn-around time is fast and efficient without the need to constantly connect and disconnect wires from equipment.

FSN Video Management

Vy-Net2

Video Over IP

Vy-Net2 is a video over IP network solution that connects video sources to end-point destinations, using minimal hardware.



Vy-Net2 browser based interface.

Benefits of video over IP.

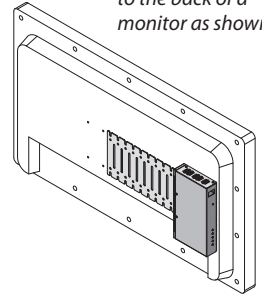
- Infinitely scalable.
Add/remove system components with ease.
- Distribution core (such as matrix switch) is not centralised.
- Ratio of inputs to outputs is not a barrier.
- Longer cable lengths are allowed.

Benefits of the Vy-Net2 solution.

- 3840 x 2160 @ 60Hz.
- Web-based user interface with signal preview.
- Picture-in-picture or multiview layouts.
- Competitively priced.



Brackets are available for mounting Vy-Net2 to the back of a monitor as shown.



Optical Fiber Infrastructure

Fiber optic technology is a natural choice for medical imaging interconnects. It provides a compact and flexible conduit for light or data delivery, without electromagnetic interference.



DisplayPort 1.4 Active Optical Cables

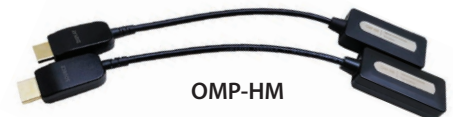


DisplayPort 1.4 Optical Extenders



OMB-DP

HDMI 2.1 Optical Extenders



OMB-HM

Up to 200 meters!

The FSN mission is to provide advanced and reliable products while fostering innovation within our global partner relations. We have sales points throughout the world, and our team is here to help.

Sharing Your Vision

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USA • Korea • UK • Germany • China

