

# Sharing Your Vision



Surgical Display Monitors
Signal Management
Connecting Infrastructure



**FSN** Medical Technologies is your solutions provider for surgical video integration. Our success has come from an experienced research team, product development expertise, efficient manufacturing, and knowledgeable customer service. When you choose FSN, you are putting these capabilities to work for you.

We strive to provide innovative and reliable medical display monitors and video management components. Our goal is to foster innovation within our global partner relations, and deliver technologies that address the user's needs.

Contact any of our locations to learn more about FSN Medical Technologies.



# Sharing Your Vision



### **Medical Display Monitors**

### **FS Series**

From the very beginning, FSN display monitors have been engineered to accept the widest possible selection of video signal types. This built-in compatibility benefits operating rooms and surgery facilities because FSN monitors can work with legacy equipment or the latest source technology.

During a procedure, physicians need to see a crystal clear picture, and the most accurate colors possible. This is best done with an FSN monitor that has been designed exactly for this purpose. Our own research, design, and development protocols deliver a final product that displays smooth, artifact-free images. FSN monitors quickly detect incoming signal types and use color space settings that have been calibrated to well-known surgical preferences. They can handle multiple signal inputs, offer features such as touch screen technology, and are available in a variety of screen sizes.

FSN's large installation base is a sign of quality and reliability. Display monitors used in the surgical environment must perform when needed, including being moved around, bumped, adjusted, and cleaned repeatedly. FSN display monitors mount securely to booms and yokes, and are built to withstand the rigors of daily use in the OR.





FSN's 19" medical display shares many of the same features found in our larger displays, such as image pan, zoom, freeze, and multiple picture-in-picture configurations. It offers a rugged aluminum housing, and is calibrated to clinical color.



### FS-Y1901D

- √ High-bright LED
- ✓ Maneuverable
- ✓ DVI & SDI

### 24-inch

The input/output options on FS-L2402D, our 24" LED medical display, include dual DVI and on-board DC out power connection for smaller component needs. It features rapid signal detection of video sources found in the OR, and can satisfy the need for smooth, artifact-free medical images.



### FS-L2402D

- ✓ High-bright LED, 600 nit
- ✓ 2 DVI in/out
- ✓ 5V DC power output
- ✓ Optical enhancement

#### **FS-Y1901D Features**

Panel	19 inch TFT LCD (LED)		
Resolution	1280 x 1024 pixel		
Aspect Ratio	5:4		
Active Area	376.32 (W) X 301	376.32 (W) X 301.06 (H) (mm)	
Surface Luminance	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	
Contrast Ratio	800 : 1 typical		
Response Time (G-to-G)	25 ms (avg.)		
Input Signal	1 x DVI-D 1 x VGA 1 x S-VIDEO	1 x SDI(SD/HD/3G), 1 x C-VIDEO 1 x Component (RGBS,YPbPr)	
Output Signal	1 x DVI-D	1 x SDI(SD/HD/3G)	
Power Supply	AC/DC Adaptor (	AC/DC Adaptor (AC 100-240V~, DC 12V 7A)	
Unit Dimension	423(W) x 351.5(H) x 76.5(D) (mm) 16.653(W) x 13.838(H) x 3.011(D) (inch)		
Weight	5.8 kg, 12.79 lbs		
Pixel Pitch	0.294 (W) x 0.294 (H)		
Mounting	100 x 100 mm, M4		

#### FS-L2402D Features

Panel	24 inch TFT LCD (LED)	
Resolution	1920 x 1200 pixel (WUXGA)	
Aspect Ratio	16:10	
Active Area	518.4 (W) X 324.0 (H) (mm)	
Surface Luminance	600 cd/m <sup>2</sup>	
Contrast Ratio	1000 : 1 typical	
Response Time (G-to-G)	14 ms (avg.)	
Input Signal	2 x DVI-D 1 x SD/HD/3G-SDI (BNC)* 2 x SOG 1 x VGA (D-sub) 1 x C-Video (BNC) 1 x S-Video (DIN) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Output Signal	2 x DVI-D 1 x SD/HD/3G-SDI (BNC)* 2 x SOG 1 x C-Video (BNC) 1 x S-Video (DIN) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Power Supply	AC/DC Adaptor (AC 100-240V~, DC 24V 6.25A)	
Unit Dimension	580 (W) x 386 (H) x 70 (D) mm 22.84 (W) x 15.20 (H) x 2.76 (D) inch	
Weight	7.5 kg, 16.53 lbs	
Pixel Pitch	0.27 (W) x 0.27 (H)	
Mounting	100 x 100 mm, M4	
*2 x SDI optional		

<sup>\*2</sup> x SDI optional



FSN 26-inch monitors are engineered and built for compatibility with other highly specialized surgical and diagnostic equipment used in surgical suites, operating rooms, emergency rooms, and procedural facilities. These displays utilize an LED backlight system that operates at lower temperatures, and allows for a thinner, lighter weight housing profile design.



### FS-P2601D FS-P2601DT FS-P2602D

- √ High-bright LED
- ✓ Touch option
- √ Enhancement option

### FS-P2601D Features

Panel	26 inch TFT LCD (LED)	
Resolution	1920 x 1080 pixel (HD 1080)	
Aspect Ratio	16:9	
Active Area	576 (W) X 324.0 (H) (mm)	
Surface Luminance	450 cd/m <sup>2</sup>	
Contrast Ratio	1400 : 1 typical	
Response Time (G-to-G)	8 ms (avg.)	
Input Signal	1 x DVI-D 1 1 x DVI-D 2 (optical fiber optional) 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC) 1 x C-Video (BNC) 2 x S-Video (Y/C) (BNC) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Output Signal	1 x DVI-D 1 x SD/HD/3G-SDI (BNC)	
Power Supply	AC/DC Adaptor (AC 100-240V~, DC 24V 6.25A)	
Unit Dimension	638(W) x 389(H) x 74.7(D) mm 25.12(W) x 15.32(H) x 2.94(D) inch	
Weight	7.6 kg, 16.8 lbs	
Pixel Pitch	0.3 (W) x 0.3 (H)	
Mounting	100 x 100 mm, 100 x 200 mm, M4	

#### **FS-P2601DT Features**

Same features as FS-P2601D, with the following exceptions:		
Infrared touch panel	26 inch TFT LCD (LED)	
Unit Dimension 638(W) x 389(H) x 81.7(D) (mm) 25.118(W) x 15.315(H) x 3.216(D) (inch)		
Weight	8.0 kg, 17.64 lbs	

### **FS-P2602D Features**

Same features as FS-P2601D, with the following exceptions:		
Optical enhancement	26 inch TFT LCD (LED)	
Surface Luminance	500 cd/m <sup>2</sup>	
Contrast Ratio	1500 : 1 typical	







### FS-P2603D

- ✓ High-bright LED
- ✓ 5V DC power output
- ✓ 2 DVI in/out, 2 3G-SDI in/out
- ✓ Polymer housing

### FS-P2603D Features

Panel	26 inch TFT LCD (LED)		
Resolution	1920 x 1080 pixel (HD 1080)		
Aspect Ratio	16:9		
Active Area	576 (W) X 324.0 (H) (mm)		
Surface Luminance	450 cd/m <sup>2</sup>		
Contrast Ratio	1400 : 1 typical		
Response Time (G-to-G)	8 ms (avg.)		
Input Signal	, ,	2 x SD/HD/3G-SDI (BNC) 1 x VGA (D-sub) 1 x S-Video (DIN) GBS, YPbPr) (5 x BNC)	
Output Signal	2 x DVI-D 2 x SOG 1 x S-Video (DIN)	2 x SD/HD/3G-SDI (BNC) 1 x C-Video (BNC) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Power Supply	AC/DC Adaptor (AC 100-240V~, DC 24V 6.25A)		
Unit Dimension	668(W) x 421(H) x 88.8(D) mm 26.3(W) x 16.6(H) x 3.5(D) inch		
Weight	8.2 kg, 18 lbs		
Pixel Pitch	0.3 (W) x 0.3 (H)		
Mounting	100 x 100 mm, M4		

### **FS-P2607D Features**

Same features as FS-P2603D, with the following exceptions:		
3D format	Side-by-Side, Dual-Input, Line-by-Line, Top & Bottom	
Weight	8.2 kg, 18.08 lbs	



FSN's 32" LED display features a wide selection of I/O options, including dual DVI and dual 3G-SDI, plus DC out power for smaller components. FS-L3202D is ideal for displaying big images, yet is still within the size range recommended by most operating room boom arm systems. A handheld remote control is included.



### **FS-L3202D Features**

Panel	32 inch TFT LCD (LED)		
Resolution	1920 x 1080 pixel		
Aspect Ratio	16:9		
Active Area	698.4 (W) X 392.9 (H) (mm)		
Surface Luminance	450 cd/m <sup>2</sup>		
Contrast Ratio	1300 : 1 typical		
Response Time (G-to-G)	22 ms (avg.)		
Input Signal	2 x DVI-D 2 x SOG 1 x C-Video (BNC) 1 x Component (RO	2 x SD/HD/3G-SDI (BNC) 1 x VGA (D-sub) 1 x S-Video (DIN) GBS, YPbPr) (5 x BNC)	
Output Signal	2 x DVI-D 2 x SOG 1 x S-Video (DIN)	2 x SD/HD/3G-SDI (BNC) 1 x C-Video (BNC) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Power Supply	AC/DC Adaptor (AC 100-240V~, DC 24V 6.25A)		
Unit Dimension	770 (W) x 471.5 (H) x 80.5 (D) (mm) 30.32 (W) x 18.56 (H) x 3.35 (D) (inch)		
Weight	12.8 kg, 28.2 lbs		
Pixel Pitch	0.27 (W) x 0.27 (H)		
Mounting	100 x 100 mm, 200 x 100 mm, 300 x 100 mm, M4 400mm x 200mm, M6		

### FS-L3202D

✓ High-bright LED ✓ 2 DVI in/out ✓ 5V DC power output 2 3G-SDI in/out



## 27-inch 10mch

The FS-L2701DT display monitor from FSN builds upon our long history of advanced medical-grade monitors. This new 27" 10 point touch screen display features a slim, sleek design and a flush-front glass bezel. The screen size is large for easy manipulation of touch screen elements, yet small enough to mount on a moveable arm or boom if required.



### FS-L2701D

- ✓ Touch screen
- √ High-bright LED
- √ Flush surface

### **FS-L2701D Features**

Panel	27 inch TFT LCD (LED)	
Resolution	1920 x 1080 pixel	
Aspect Ratio	16:9	
Active Area	597.89(H) x 336.31(V) mm	
Average Brightness	600 cd/m <sup>2</sup>	
Contrast Ratio	1000 : 1 typical	
Response Time (G-to-G)	14 ms (avg.)	
Input Signal	2 x DVI-D 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC) 1 x C-Video (BNC) 2 x S-Video (Y/C) (BNC) 1 x Component (RGBS, YPbPr) (5 x BNC)	
Output Signal	1 x DVI-D 1 x SD/HD/3G-SDI (BNC)	
Power Supply	AC/DC Adaptor (AC 100-240V~, DC 24V 6.25A)	
Unit Dimension	649 (W) x 397 (H) x 72 (D) mm 25.55 (W) X 15.63 (H) x 2.83 (D) inch	
Weight	8.2 kg, 18.08 lbs	
Pixel Pitch	0.3114(W)mm x 0.3114(H)mm	
Mounting	100 x 100 mm, 200 x 100 mm	

## 46-inch 100ch

The FS-S4601DT display monitor from FSN offers high definition touch screen capability and a large screen area for presenting detailed images. Its 10 point projected capacitive touch technology can be used while wearing gloves. The flush front glass surface allows for touch commands without bezel obstruction, and easy cleaning of the entire viewing surface.



### FS-S4601DT

✓ Touch screen ✓ High-bright LED ✓ Flush surface

### **FS-S4601DT Features**

	wi es	
Panel	46 inch TFT LCD (LED)	
Resolution	1920 x 1080 pixel	
Aspect Ratio	16:9	
Active Area	1018.08(H) x 572.67(V) mm	
Surface Luminance	650 cd/m <sup>2</sup>	
Contrast Ratio	4000 : 1 typical	
Response Time (G-to-G)	8-16 ms (avg.)	
Input Signal	1 x DVI-D 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC)	
Output Signal	1 x DVI-D 1 x SD/HD/3G-SDI (BNC)	
Power Supply	SMPS , Universal 100 ~ 240Vac, single phase	
Unit Dimension 1178 (W) x 667 (H) x 94 (D) mm 46.38 (W) X 26.26 (H) x 3.70 (D) inch		
Weight	34 kg, 74.96 lbs	
Mounting	100 x 100 mm, 200 x 100 mm, 300 x 100 mm, M4 600mm x 400mm, M6	



### **Visualization Management**

### Control OR™ - IPS1000A

FSN Medical Technologies has simplified surgical video management with Control OR™ - IPS1000A, a medical video integration solution that bridges the gap between imaging signal sources, and the doctors or nurses who work with these images.

IPS1000A can simultaneously handle up to 10 inputs, and distribute signals to 5 output destinations. However, it is so much more than just a video signal switch. IPS1000A actually improves video quality (analog to digital) and maintains signal integrity, with near zero latency. It is compatible with a broad spectrum of medical imaging equipment, old or new. Other capabilities include picture-in-picture configurations, image freeze, zoom, pan, and customized color settings for individual users.

With the IPS1000A system, sophisticated, high performance video processing is available at a competitive price. It focuses on efficiently managing video signals in operating rooms, surgical suites, and procedural facilities. Surgical video integration, efficiently and economically designed, does not have to take up large amounts of space or break the budget.



### Intuitive tablet interface.

- · Simple dashboard. Easy to use for any OR staff.
- Individualized user preferences
- settings.





## Routing flexibility.

- 10 inputs
- 5 outputs
- Digital
- Analog
- Fiber option

### A compatible philosophy.

- Adds flexibility when managing medical video signal acquisition and display.
- Installs as a stand-alone video processor/controller.
- Integrates into a larger imaging system packages, and bring its unique set of features to the application.

### Control OR™ - IPS1000A

Processing unit

Interface tablet.





### **Video Recording**

### MDVR - IPS700A

MDVR, part number IPS700A, from FSN Medical Technologies is designed to capture still images or record video in the surgical environment. An accompanying control tablet runs the intuitive user interface and gives quick access to options for setup, recording, capture, file storage, patient information, play back, and data backup functions.

All recorded files are stored on MDVR's 1 terabyte internal hard disk drive. These files can then be played back on a display monitor, or restored to a variety of media including external drives, memory sticks, DVDs, Blu-ray disks, and network servers.



### Intuitive tablet interface.

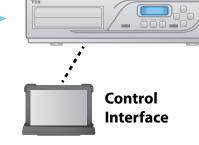
The graphic interface that controls MDVR is simple and easy to understand. Adjust recording settings, enter patient information, and transfer recorded files, all by using MDVR's connected touch screen tablet.





### Source Signals

- VGA
- DVI-D
- CVBS
- S-Video
- Audio



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**Saved to Media** Blu-ray, USB, FTP Server







### **Wireless Transmission**

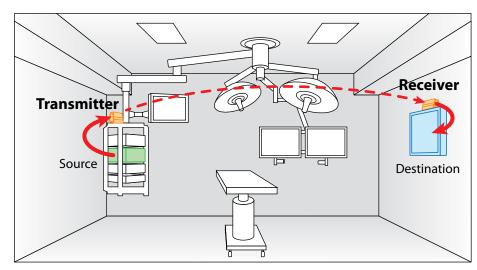
### WIS1000

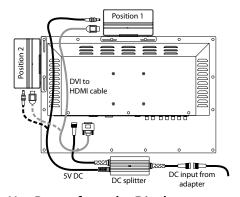
Hard-wired video connections in the OR may not be best for all applications. With FSN's wireless system, video carts or stands can be completely mobile, allowing for flexible equipment layouts. Fewer wires on the OR floor can help eliminate tripping hazards. Without the need to connect and disconnect wires from equipment, turn-around time in the OR is fast and efficient.

#### **Key Features**

- Wireless HD video without compression
- Signal is encrypted and bonds 1-to-1
- Range is designed to stay within one room
- FDA 510k clearance
- Near zero latency







### Use Power from the Display

The DC Splitter uses power from the display monitor and connects to the WIS1000 wireless unit, further reducing wires.



### WIS1000 Signal Conditioner

The WIS1001 is a converter and scaler created to provide a "clean" output signal complying with industry standards. It shapes and synchronizes a video signal, up or down, in order to make the signal compatible with wireless transmission.

### **General Specifications**

Item	Description		
Standards	WIS1000 WirelessHD, HDMI(V1.4a)		
Frequency	60 GHz		
Input/Output Interface	HDMI interface		
Antenna Type	32 Antenna Array (Integrate Ceramic)		
Range	10 meters in-room usage		
AV Port	Transmitter: 1 Port (CEC pass through) Receiver: 1 Port (CEC pass through)		
Physical Specifications	Weight : 242 g (TX) / 242 g (RX) Dimension : 162.0 * 86.0 * 50.0 mm (Tx) and (Rx)		
Adapter Power	AC/DC adapter, BPM010S05F02 AC 90-240~ ,50-60Hz input, DC +5V 2.0A		
LED Indicators	One LED display, power indication		
Environment	Operating Conditions		
Specification	Temperature: $0^{\circ}$ C $\sim 40^{\circ}$ C ( $32^{\circ} \sim 104^{\circ}$ F) Humidity: $5\% \sim 85\%$		
Compliance & Certifications FDA Class II 510(k), UL 60601-1, CAN/CSA-C22.2 No.601.1-M90, FCC Part 15C, MDD Clast EN60601-1-2, R&TTE(EN301 489-1, EN301 489-17, EN302-567, EN62311, EN60950-1)			

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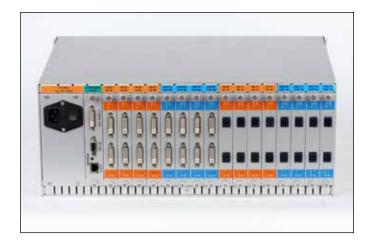
### Switching and Multi-Video

### 16x16 Matrix Switcher

The DMS-H1616 is designed for switching up to 16 input DVI source signals to 16 output destinations. The optical fiber option is available for use with long distance transmission applications (max. distance 300m at WUXGA (1920x1200)). When using multi-mode 1 fiber cable, it is possible to use DVI transmission and maintain compatibility with FSN's signal extending products. Intuitive control for external equipment is possible via the internet when using the RS232 port. In addition, the DSM-H1616's firmware can be upgraded through the internet.

#### **Key Features**

- Supports 16 channels DVI-D single-link input and 16 channels
   DVI-D single-link output
- The EDID parameter of the monitor can be preset or default
- Saves the last operation parameters if power is lost



- Supports RS-232 & WEB control
- Supports network control based on TCP/IP
- Built in signal generator for testing and debugging systems

### Multi-Signal Viewer

MSV is an ideal solution for applications where up to four video signals must be displayed on a single display. MSV allows you to manipulate the size and position of images on your output display device, and also allows you to control functions such as brightness and overlay. The embedded scaler converts signals from an input source to match user-selectable output settings up to 1080p.

#### **Key Features**



MSV uses modular type DVI, D-Sub, SDI and HDMI input and output cards for application flexibility, and to reduce cost by avoiding purchase of unnecessary hardware.







### **Signal Conversion**

### IPS500A

This multi-signal format universal converter makes signal routing, scaling and converting easier. It is a cost effective solution to managing different types of medical equipment video signal variations.

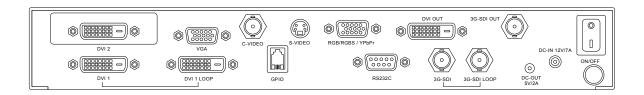
### **Key Features**

- Input: 1 x DVI-D, 1 x DVI-D (Fiber DVI detachable), 2 x D-SUB(VGA, Component, RGBs), 1x BNC (3G-SDI), 1 x BNC (CVBS), 1 x DIN (SVHS)
- Output: 1 x DVI-D, 1 x BNC (3G-SDI)
- Controlled using an intuitive key pad or RS-232C command interface
- Supports output resolution up to 1920 x 1200 for DVI, and 1920 x 1080p for 3G-SDI



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Multiple video inputs • Source switching
Timing selections • PIP, PBP, swap
Freeze picture • Signal loop connections



Sources

3G-SDI

# Optical Converters

Model	Model	Description
CVBXB-DVI	CVBXW-DVI	DVI to DVI optic fiber converter
CVBXB-VGA	CVBXW-VGA	RGB to DVI optic fiber converter
CVBXB-SVID	CVBXW-SVID	S-Video to DVI optic fiber converter
CVBXB-SDI	CVBXW-SDI	SDI to DVI optic fiber converter



Free-standing series



Wall plate series



CVBXB and CVBXW series converters are ideal for use with DMS-H1616 Matrix Switcher.



## **Signal Conversion**

	Model	Input	Output
Multi-format Converters	UVC-S100	HDMI A type (Female) 15pin D-sub (Female)	- 15pin D-sub (Female) - DVI-I (Female) - S-video (Female) - 75Ω BNC (Female) - RCA (Female)
	UVC-100	DVI-I (Female) 15pin D-sub (Female)	- 15pin D-sub (Female) - DVI-I (Female) - 75Ω BNC (Female)
	DAU	15pin D-sub (Female) DVI-D (Female) 75Ω BNC RCA (Female)	DVI-I (Female)
VGA to DVI	DAD-U100	15pin D-sub (Female)	15pin D-sub (Male) DVI-I (Female)
DVI to VGA	DDAP	DVI-I (Female)	15pin D-sub (Female)
	DDA	DVI-I (Female)	15pin D-sub (Male)
	DDAX	DVI-I (Female)	15pin D-sub (Female) DVI-I (Female)
HDMI to VGA/Audio	HDA	HDMI A type (Female)	15pin D-sub (Female) Mini audio jack (Female)
HDMI to SDI	HSC	HDMI A type (Female)	75Ω BNC (Female) x 2
SDI TO HDMI	SHC	75Ω BNC (Female)	HDMI A type (Female) 75Ω BNC (Female)









DAD-U100

SHC

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## **Optical Signal Extension**











Model	Connections	Description	
DSP	DVI-D (Male) SC connector (Female)	Optical DVI 1 Ch Bi-directional Extender	
DSH	DVI-D (Male) SC connector (Female)	Optical DVI 1 Ch Bi-directional Extender Pigtail design	
DOL	DVI-D (Male) LC connector (Female)	Optical DVI 1 Ch Bi-directional Extender	
DSL	DVI-D (Male) SC connector (Female)	Optical DVI 1 Ch Extender	
DDL	DVI-D (Male) LC connector (Female)	Optical DVI 4 Ch Extender	
DDI	DVI-D (Male)	Optical DVI Cable	
DQSP	DVI-D (Male) SC connector (Female)	Optical DVI Dual Link 2 Ch Extender	
DQSL	DVI-I (Female) LC connector (Female) RJ-45 Jack (Female)	Optical DVI Dual Link 2 Ch Extender	
DQL	DVI-I (Female) LC connector (Female) RJ-45 Jack (Female)	Optical DVI Dual Link 7 Ch Extender	
HSP	HDMI A type (Male) SC connector (Female)	Optical HDMI 1 Ch Bi-directional Extender Pigtail design	
НДМВ	HDMI A type (Male)	Optical HDMI Cable	
DSFP	DisplayPort 20pin (Male) SC connector (Female)	Optical DisplayPort 1 Ch Extender Pigtail design	
DPM	DisplayPort 20pin (Male)	Optical DisplayPort Cable	
SDL	75ohm SDI BNC Optical: St, SC, FC	Optical SDI Extender	

### Wireless Transmitter

Our wireless transmitter and receiver system delivers uncompressed, 1080p/60Hz, HD video with near zero latency. Eliminate cumbersome cross-room cables or wires!

## Connecting Infrastructure

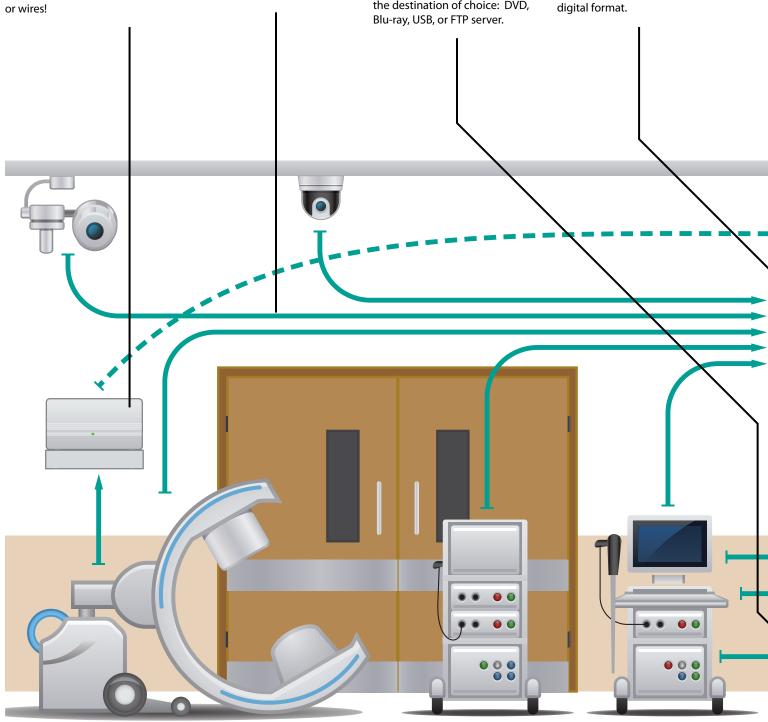
FSN supplies all of the medical video infrastructure components you need, from optical fiber and wall plates, to extenders, splitters, and converters.

### Medical Digital Video Recorder

Image capture and recording in full HD with one easy-to-use device. MDVR features a 1 terabyte internal hard disk to store images. Files can then be transferred to the destination of choice: DVD, Blu-ray, USB, or FTP server.

### **Control OR™**

Designed for medical use, this image processing unit can scale, reformat, and split video signals, all from one central location. It features 10 input and 5 output capability. Control OR can even upgrade an analog signal to digital format



## Touch Screen Control Tablet

Combine ease of use and mobility with FSN's touch screen control tablets. Intuitive user inferface designs help reduce the learning curve for medical devices that are controlled by these tablets.

## Universal Converter

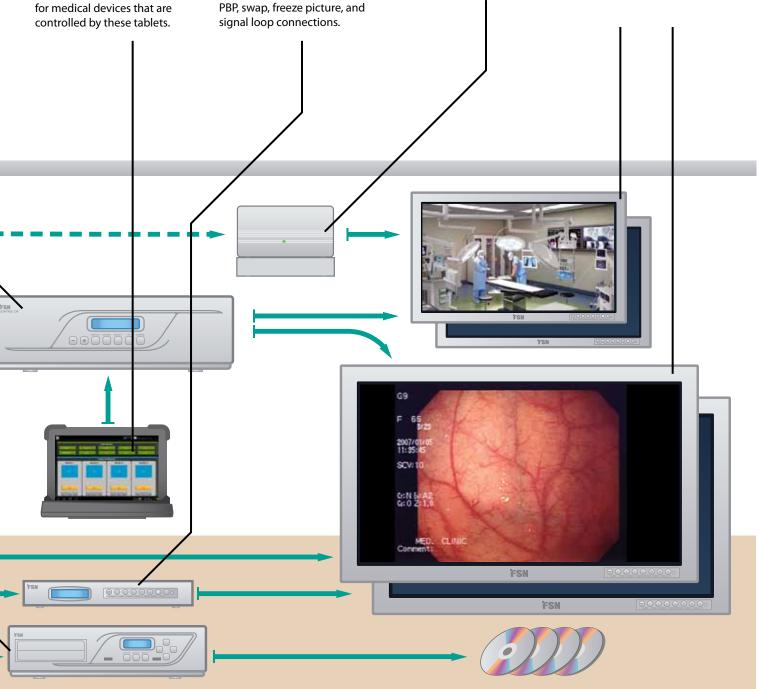
FSN's universal converter accepts a variety of video input signals, then converts them for output as DVI or 3G-SDI. It offers source switching, timing selections, PIP, PBP, swap, freeze picture, and signal loop connections.

### **Wireless Receiver**

Our wireless transmitter and receiver system has options for standardizing proprietary signals and obtaining power directly from a display monitor to further reduce cords.

## Medical Grade Display Monitors

FSN carries a full line of medicalgrade display monitors, ranging in size from 19 to 55 inch. Each display comes with an extensive list of input and output connections.



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Specifications are subject to change with or without notice.

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# Sharing Your Vision