



Company Profile

January 2020

Global Presence

FSN

- Logistics
- Sales Office
- Service

FSN
Headquarters
Anaheim, California, USA

Chicago
Binghamton
Houston
Miami

England

Heusenstamm,
Germany

D&T
Direct Imaging Solutions
WIDE

South Korea
South Korea

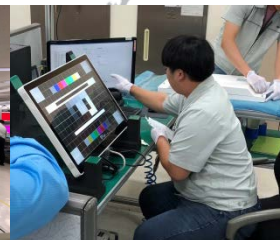
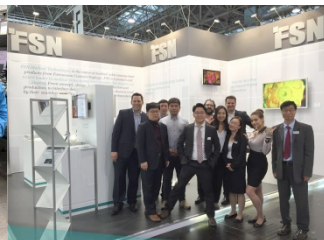
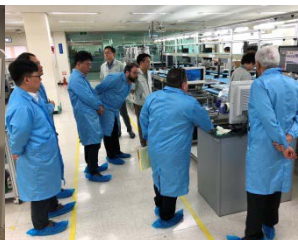
South Korea

Shanghai,
China

Japan

Singapore

South Africa



Introduction



About Foreseeson

- Established in 2000.
- Headquarters in Anaheim, California, USA.
- Regional offices in Korea, China, Germany, England.



Foreseeson Custom Displays manufactures medical video management products. This product group is FSN Medical Technologies. Foreseeson's objective, through FSN, is to develop components for medical video display, video management, and signal distribution. FSN products are designed to work in coordination with large turn-key surgical equipment manufacturers and system integrators.

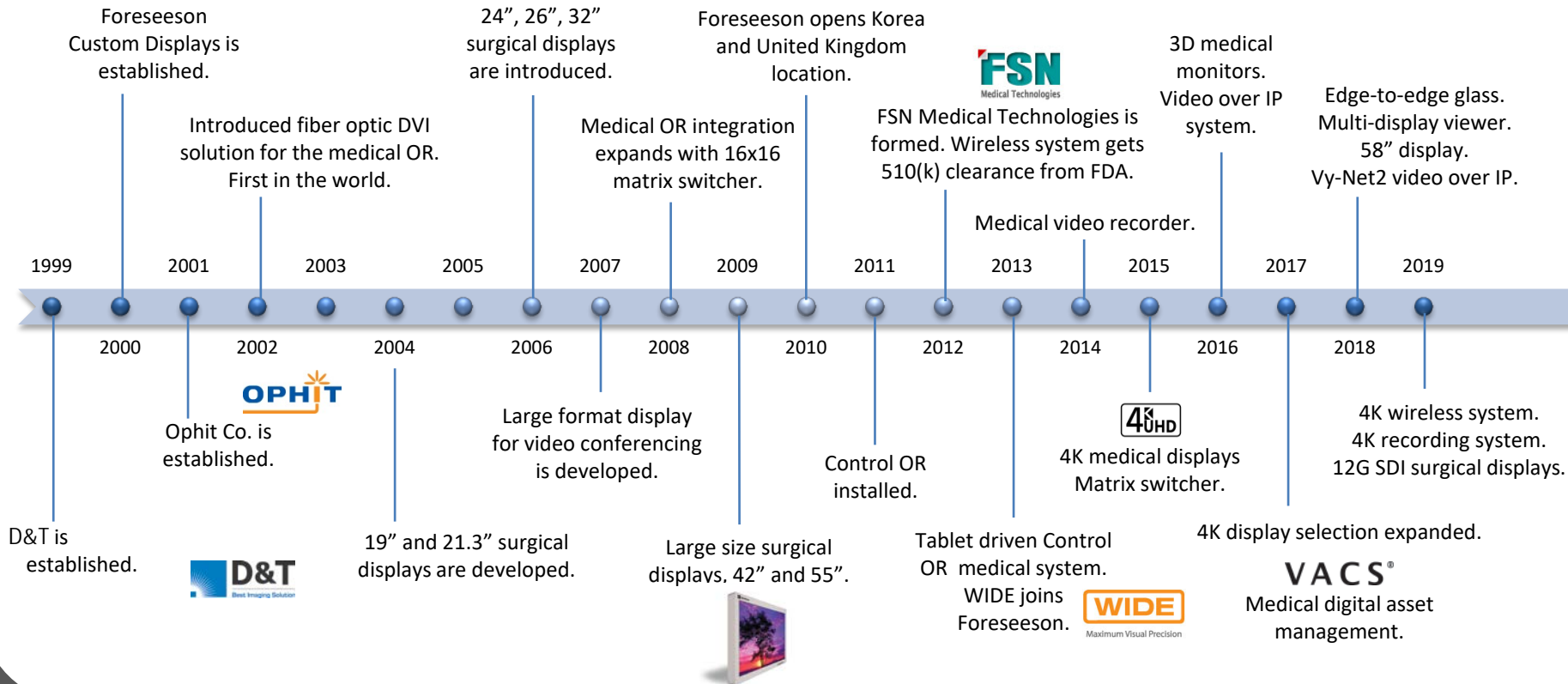


Foreseeson Custom Displays carries a line of highly specialized LCD monitors from WIDE Corporation for diagnostic and imaging applications.

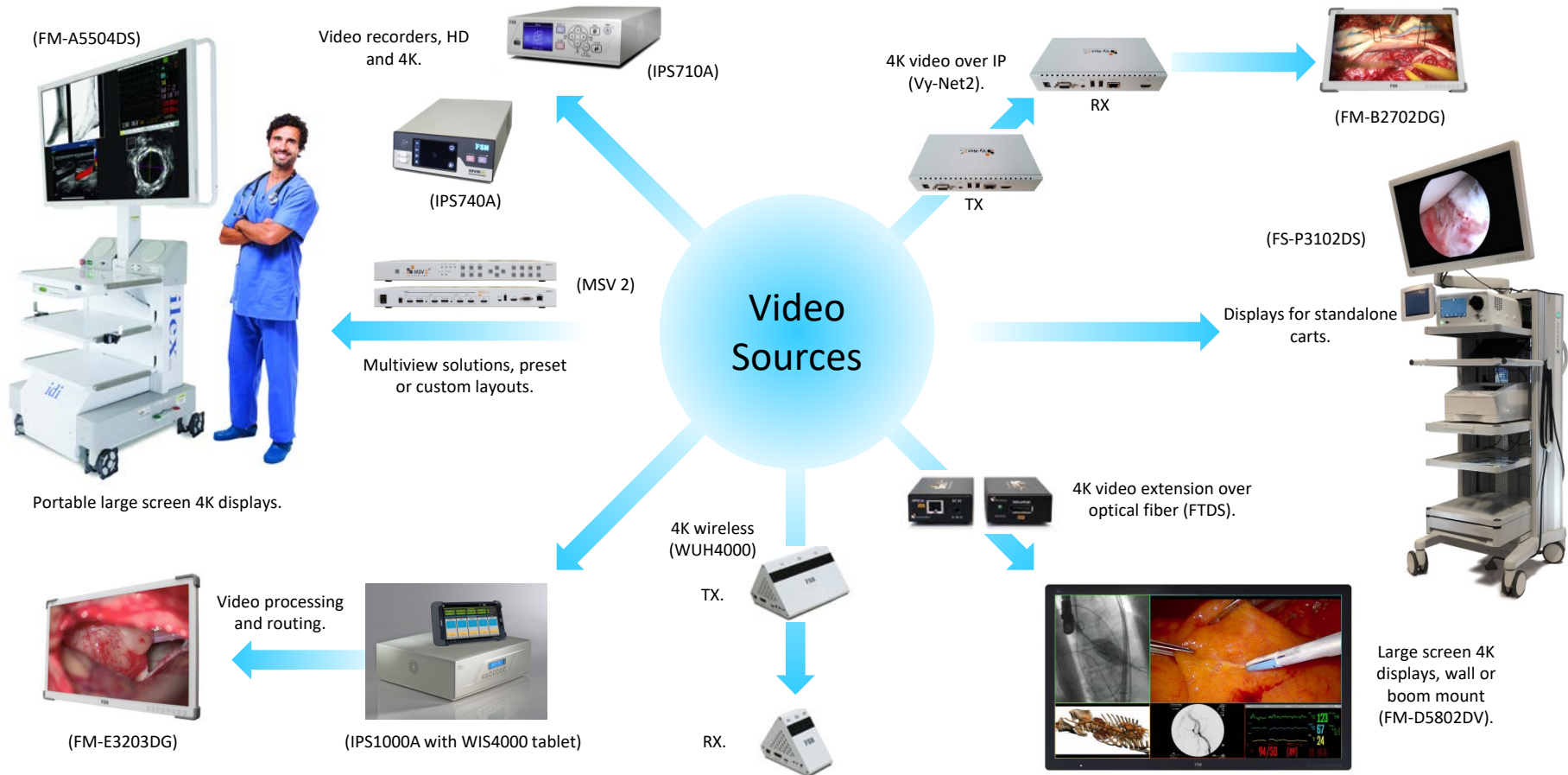


Foreseeson Custom Displays has a strategic alliance with Ophit. Ophit manufactures digital video extension, conversion, and optical interface components for high speed/long distance transmission, and specializes in 4K video.

History

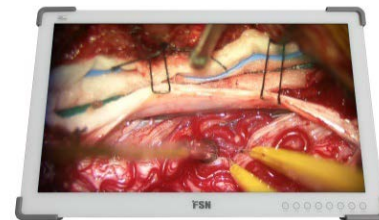


Sharing Your Vision



4K

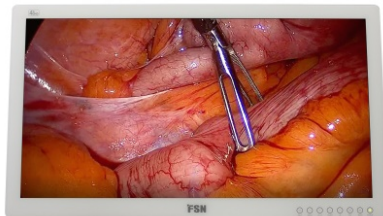
Surgical Displays



Model	FM-A2701D	FM-A2701DS	FM-B2702D	FM-B2702DG
Diagonal Size	27 in.	27 in.	27 in.	27 in.
Brightness (typical)	800	800	800	800
Resolution	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160
Input Signal	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)
Output Signal	1 x DVI (single link) 1 x DP 1.2 (SST)	1 x DVI (single link) 1 x DP 1.2 (SST) 4 x SDI (3G)	1 x DP 1.2 (SST) 1 x DVI (single link)	1 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)
Special Features				12G SDI

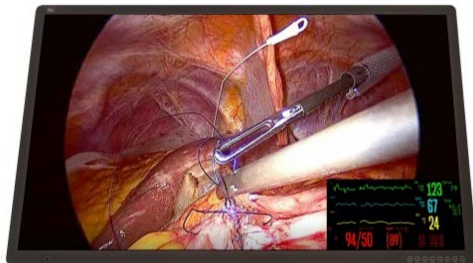
4K

Surgical Displays



Model	FS-P3102D	FS-P3102DS	FS-P3102DG	FM-E3203D	FM-E3203DG
Diagonal Size	31.5 in.	31.5 in.	31.5 in.	32 in.	32 in.
Brightness (typical)	350	350	350	700	700
Resolution	4096 x 2160	4096 x 2160	4096 x 2160	3840 x 2160	3840 x 2160
Input Signal	1 x HDMI 2.0 1 x DP 1.2 (SST) 1 x DP 1.2 (MST) 1 x DVI (single link) 4 x SDI (3G)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link)	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)
Output Signal	1 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G)	1 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G)	1 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)	1 x DP 1.2 (SST) 1 x DVI (single link)	1 x DP 1.2 (SST) 1 x DVI (single link) 4 x SDI (3G), 2 x SDI (12G)
Special Features			3G & 12G SDI		3G & 12G SDI

4K Surgical Displays



Model

FM-C5501DV

FM-A5504DS

FM-A5504DG

Diagonal Size

55 in.

55 in.

55 in.

Brightness (typical)

500

500

500

Resolution

3840 x 2160

3840 x 2160

3840 x 2160

Input Signal

1 x HDMI 2.0
2 x DP 1.2 (SST)
1 x DVI (single link)
2 x DVI (dual link)

1 x HDMI 2.0
2 x DP 1.2 (SST)
4 (Quad) x DVI (single link)
4 (Quad) x SDI (3G)

1 x HDMI 2.0
2 x DP 1.2 (SST)
1 x DVI (single link)
4 (Quad) x SDI (3G),
2 x SDI (12G)

Output Signal

1 x DVI (single link)
1 x DP 1.2 (SST)

1 x DP 1.2 (SST)

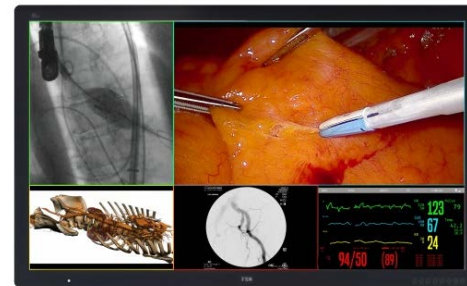
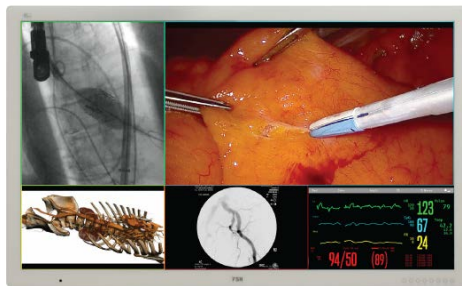
1 x DP 1.2 (SST)
1 x DVI (single link)
4 (Quad) x SDI (3G), 2 x SDI
(12G)

Special Features

Multi-window layouts

Multi-window layouts, 3G & 12G
SDI

4K Surgical Displays



Model

FM-D5801DV

FM-D5802DV

Diagonal Size

58 in.

58 in.

Brightness (typical)

700

700

Resolution

3840 x 2160

3840 x 2160

Input Signal

1 x HDMI 2.0
2 x DP 1.2 (SST)
1 x DVI (single link)
2 x DVI (dual link)

1 x HDMI 2.0
2 x DP 1.2 (SST)
1 x DVI (single link)
2 x DVI (dual link)

Output Signal

1 x DVI (single link)
1 x DP 1.2 (SST)

1 x DVI (single link)
1 x DP 1.2 (SST)

Special Features

DICOM

DICOM, Power supply upgrade

HD Surgical Displays



Model	FS-Y1901D	FS-E2101D	FS-E2101DT
Diagonal Size	19 in.	21.5 in.	21.5 in.
Brightness (typical)	500	400	340
Resolution	1280 x 1024	1920 x 1080	1920 x 1080
Input Signal	<ul style="list-style-type: none"> 1 x DVI-D 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC) 1 x C-Video (BNC) 1 x S-Video (Y/C) (BNC) 1 x Comp. (RGSB, YPbPr) (5 x BNC) 	<ul style="list-style-type: none"> 1 x DVI-D 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC) 	<ul style="list-style-type: none"> 1 x DVI-D 1 x VGA (D-sub) 1 x SD/HD/3G-SDI (BNC)
Output Signal	<ul style="list-style-type: none"> 1 x DVI-D 1 x SD/HD/3G-SDI (BNC) 	<ul style="list-style-type: none"> 1 x SD/HD/3G-SDI (BNC) 	<ul style="list-style-type: none"> 1 x SD/HD/3G-SDI (BNC)
Special Features			Touch

HD Surgical Displays



Model

FS-P2404D

FS-P2604D

FS-P2607D

Diagonal Size

24 in.

26 in.

26 in.

Brightness (typical)

400

500

900

Resolution

1920 x 1200

1920 x 1080

1920 x 1080

Input Signal

1 x DVI-D 1
1 x DVI-D 2 (fiber optional)
1 x VGA (D-sub)
1 x SD/HD/3G-SDI (BNC)
1 x C-Video (BNC)
1 x S-Video (Y/C) (2 x BNC)
1 x Comp. (R, G, B, Pr) (5 x BNC)

1 x DVI-D 1
1 x DVI-D 2 (fiber optional)
1 x VGA (D-sub)
1 x SD/HD/3G-SDI (BNC)
1 x C-Video (BNC)
1 x S-Video (Y/C) (2 x BNC)
1 x Comp. (R, G, B, Pr) (5 x BNC)

2 x DVI-D (3D dual input L,R ready)
2 x SDI (3D dual input L,R ready)
2 x SOG
1 x VGA
1 x C-Video
1 x S-Video
1 x Comp. (R, G, B, Pr) (5 x BNC)

Output Signal

1 x DVI-D
1 x SD/HD/3G-SDI (BNC)

1 x DVI-D
1 x SD/HD/3G-SDI (BNC)

2 x DVI-D 2 x SD/HD/3G-SDI (BNC)
2 x SOG 1 x C-Video (BNC)
1 x S-Video (DIN)
1 x Comp. (R, G, B, Pr) (5 x BNC)

Special Features

3D

HD Surgical Displays



Model	FS-L2702D	FS-L2702DT	FS-L3202D
Diagonal Size	27 in.	27 in.	32 in.
Brightness (typical)	800	800	450
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Input Signal	2 x DVI (single link) 1 x VGA 1 x Component 1 x SDI (3G)	2 x DVI (single link) 1 x VGA 1 x Component 1 x SDI (3G)	2 x DVI-D 2 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 Comp. (RGBS, YPbPr) (5 x BNC)
Output Signal	1 x DVI (single link) 1 x SDI (3G)	1 x DVI (single link) 1 x SDI (3G)	2 x DVI-D 2 x SD/HD/3G-SDI (BNC) 2 x SOG 1 x C-Video (BNC) 1 x S-Video (DIN) 1 x Comp. (RGBS, YPbPr) (5 x BNC)
Special Features		Touch	

Video Processing and Routing

IPS1000A

Simultaneously handles up to 10 inputs, and distribute signals to 5 output destinations. Small footprint. User settings can be saved and recalled.

An IPS1000A system can also be configured to switch between HD and 4K display monitors.

- Powerful hardware-based integration
- Automatic video recognition
- Signal conversion and upgrade
- Route and adjust live surgical images
- Network streaming



Video Switching and Device Control

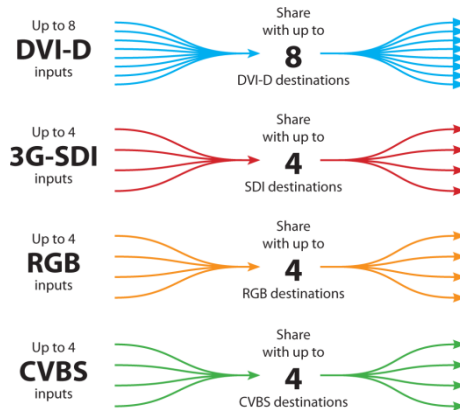


MTS800A

Video Matrix Switcher

- Active source preview
- Tablet & GUI control
- Network streaming

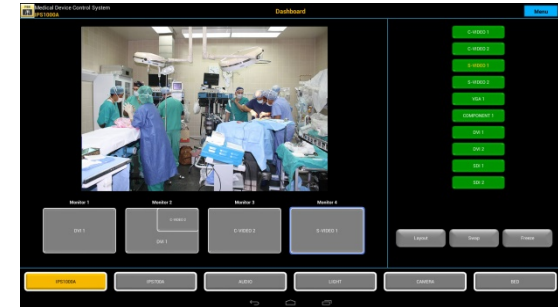
This all-in-one medical device video switcher manages several independent input/output systems typically found in a surgical environment. Streaming is available, and live preview of the active video signal is available.



IPS1001A

Medical Device Controller

- Compact footprint
- Video stream on network
- Supports preview on tablet or PC screen
- Single location control for OR systems



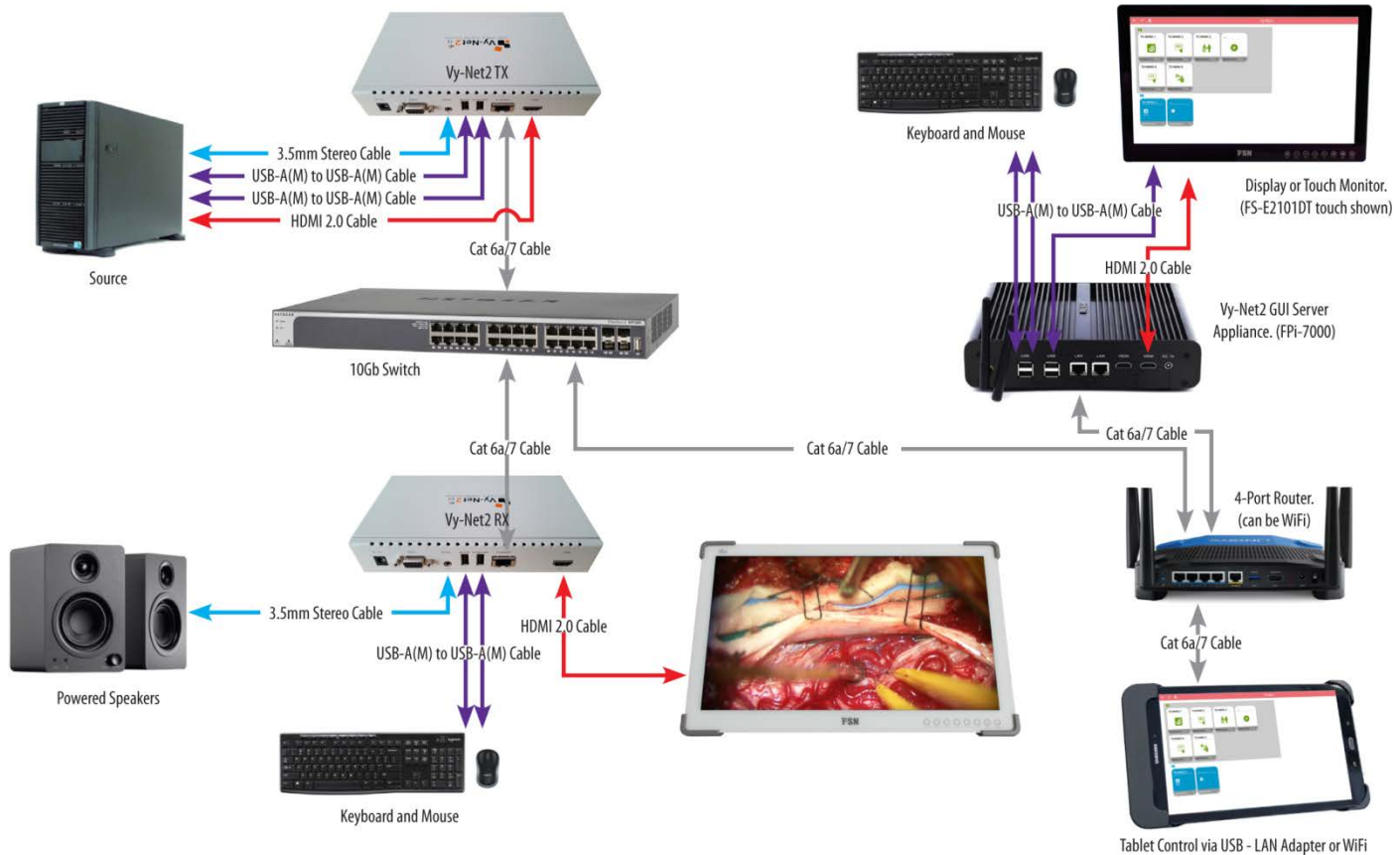
IPS1001A uses a touch screen user interface to control video, in-room audio, surgical lamps, room cameras, and bed or table positioning.

Vy-Net2

4K video over IP.

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

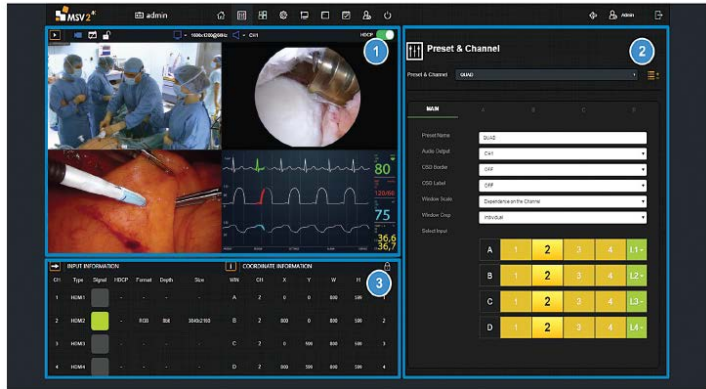
Vy-Net2 is ready to expand when future needs change. The web-based user interface for Vy-Net2 helps with initial setup and daily control of a network.



MSV 2

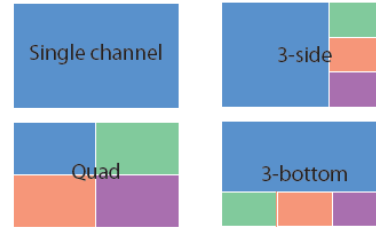
Multi Scaler Viewer.

Display multiple 4K images on one screen. MSV 2 is controlled by buttons on the unit's front face, or by a web-based PC interface.



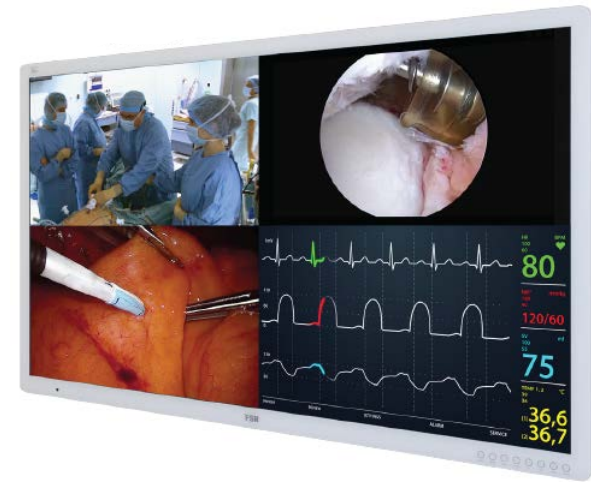
Step 1: Connect video sources to MSV 2, and use a PC to configure and preview within the user interface.

MSV 2 Layouts



Plus, up to 5 custom user layouts.

Step 1: Choose a preset layout, or configure a custom layout.



Step 3: View the results .

4K Video Recording

IPS740DS IPS740DG

4K Medical Video Recorder

- Patient search & query
- Medical printer compatible
- Gigabit Ethernet
- 4 x USB 3.0 ports
- Audio inputs/output
- 2 x foot pedal inputs



CAPTURE button. Capture can also be initiated by using an attached monitor (touchscreen or mouse), or with VACS software.

RECORD button. Video recording can also be initiated by using an attached monitor (touchscreen or mouse), or with VACS software.



Return to **HOME** screen icon.

FILE icon manages tasks, including: search, modify, copy, delete, DICOM store, and print.

WORKLIST icon retrieves patient information that is stored on the worklist server.

SETUP icon opens settings for input sources, file types, DICOM, server, network, local time, foot pedal, printing layout, and system options.



Select the **MONITOR** icon to switch to the connected external monitor. When in this mode, touchscreen can also be used as a touchpad.

Create a new **TASK** when plus (+) symbol is shown, or close an active task when minus (-) symbol is shown.

HD Video Recording



Save Video or Still Images for Later Review • Communicate with DICOM worklist servers • Save images to PACS systems

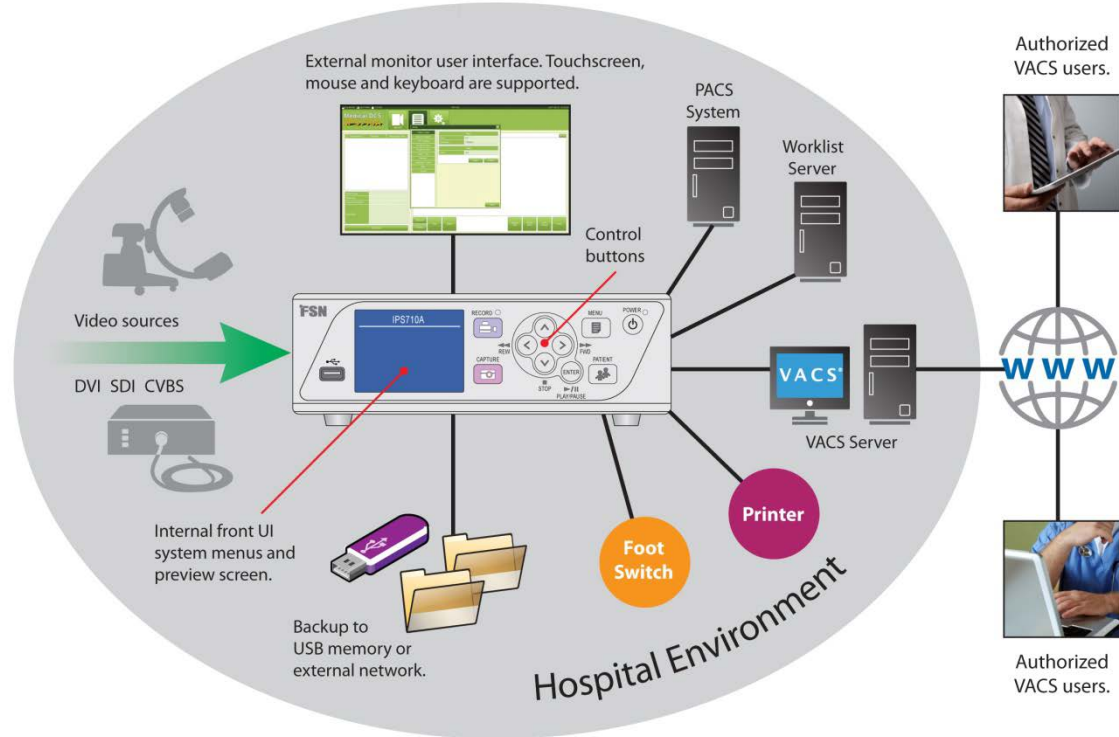


IPS710A

Medical Video Recorder

- DVI , SDI, and CVBS video inputs
- 1terabyte internal hard disk drive
- Supports DICOM worklists and PACS systems
- Network drive (CIFS), FTP transfer
- Integrates with VACS® digital asset management software

IPS710A can also be managed using the screen and buttons on front of the unit, or a mouse and keyboard.



4K Wireless

Wireless Flexibility • Medi-Cast™ Technology • In-room use up to 10 meters

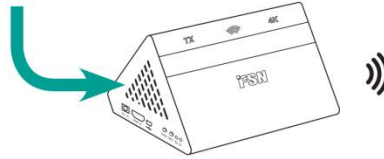


WUH4000

- Smart antenna can negotiate.
- Signal strength indicator.
- Near zero latency (less than one frame).
- 7.1 audio output.

Send live signals anywhere in the OR. Video carts or stands can be completely mobile, allowing for flexible equipment layouts. Tripping hazards are reduced with fewer cables or wires on the floor.

Source



4K UHD wireless transmitter.

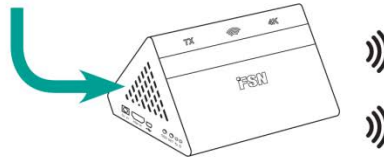
1 to 1 connection



4K UHD wireless receiver.

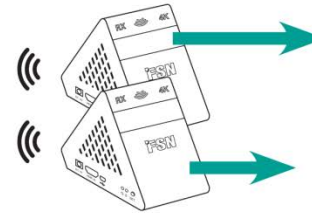


Source



4K UHD wireless transmitter.

1 to 2 connection



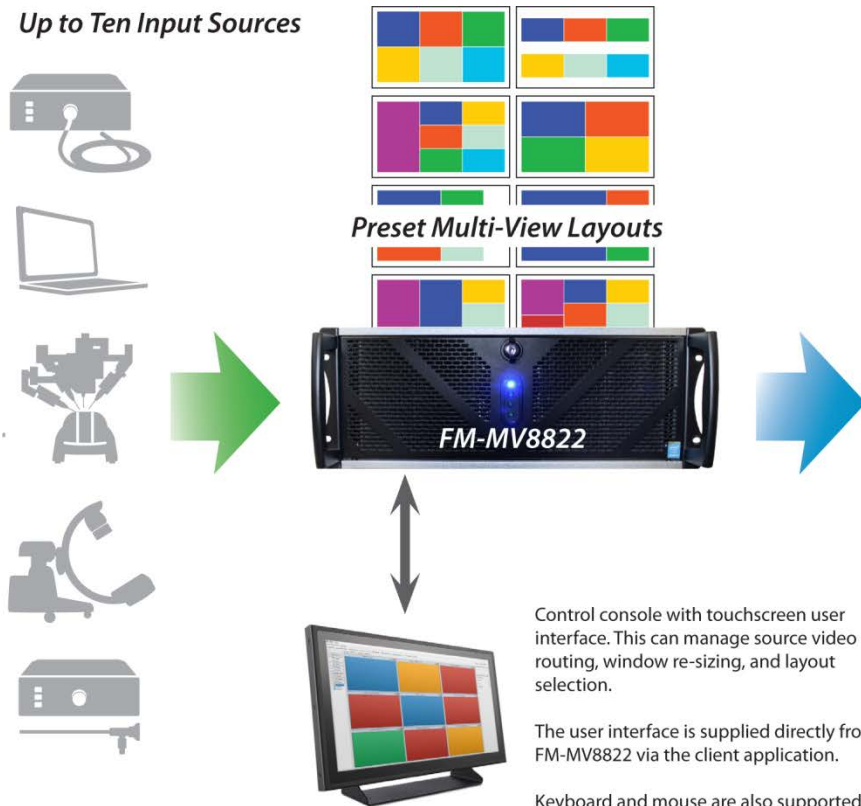
4K UHD wireless receivers.



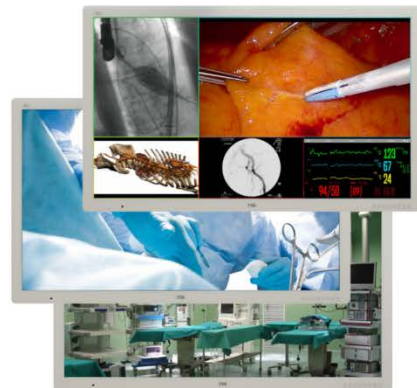
Multi-viewer for Large 4K Displays

Multi Display Viewer

- Collect, combine, and transmit video sources, to a single 4K monitor
- Works with multiple resolution signals
- Adjustable screen layouts
- Overlapping, duplicating, cropping
- Ultra-low latency
- An on-screen administration tools



Up to Three Display Surfaces



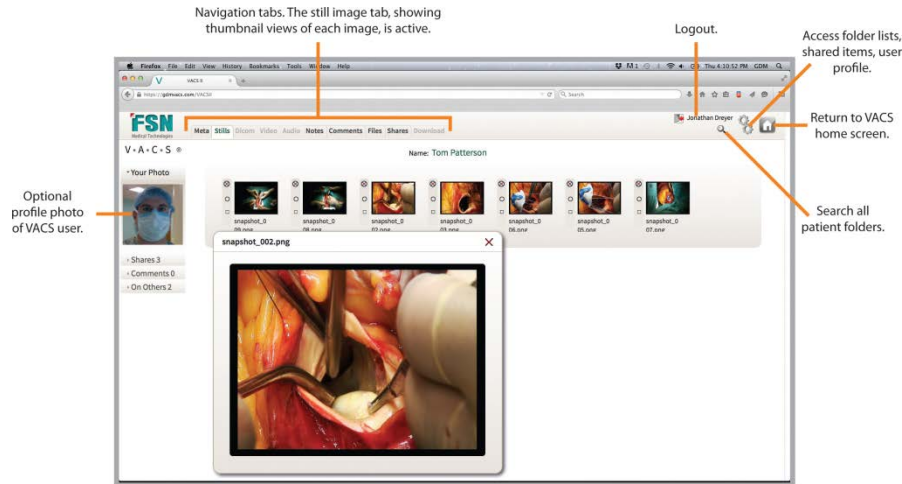
Shown above is FM-D5801DV, FSN's 58 inch monitor. This unit is ideal for showing multiple images on one large surface.

VACS[®] Digital Asset Management

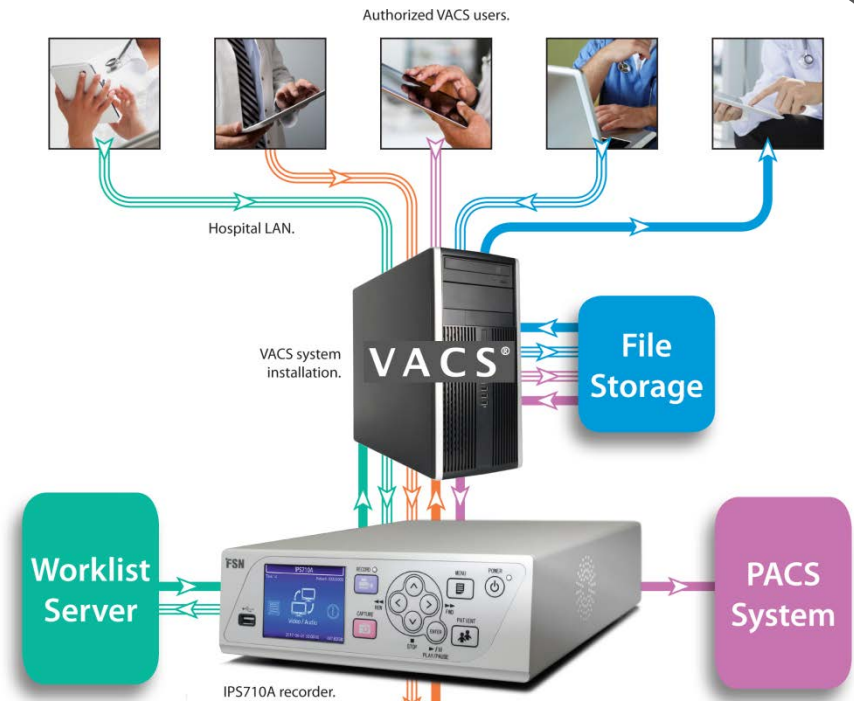
VACS software resides on a computer server within a medical facility's secure network. Access to the VACS system is achieved through a password protected web browser interface.

FSN's IPS710A medical video recorder integrates with VACS to retrieve electronic health records, capture video or still images during a procedure, and send DICOM compliant images to a PACS system.

- Create patient folders from worklist
- Record from surgical devices
- Send images to PACS
- Share and collaborate



A sample VACS patient folder as seen using a web browser.



Centralized archiving provides universal access, solving the issues created when image files are tucked away on thumb drives or in e-mail boxes, with no visibility for searching and retrieval.



Medical image files are massive. Hospital information network systems can be adversely effected if large files are not handled properly. VACS optimizes files based on network capacity.

4K Optical Fiber Infrastructure

Optical Fiber is Ideal for the Operating Room

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.



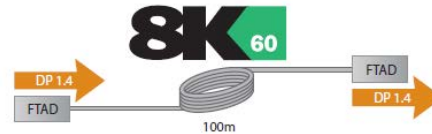
- **Compact**
- **No EMI**
- **Long Distance**
- **4K Ready**

FTAD

Active Optical Cable with DisplayPort



FTDS • FTHS • FTSM Fiber Optic Extenders



Diagnostic & Imaging Displays



WIDE Corporation, also part of Foreseeson Custom Displays, develops innovative display solutions for the medical imaging and diagnostic marketplace. WIDE combines the latest technology with years of digital imaging display experience. Advantages include...

Product Choice

- Color • Grayscale • 1-6 Megapixel • Mammography
- Diagnostic • Modality • Clinical Review

External Design

- Thin chassis • Ergonomic look and feel
- Secure cable management

Internal Technology

- Accurate grayscale and color • Uniform luminance
- Front sensor DICOM calibration • Self-brightness control

Workflow Convenience

- Bundled ezCal™ software • PrivateLite
- Accessible USB connectivity





Thank You.

www.FSNmed.com

Foreseeson Custom Displays, Inc.
2210 E. Winston Road
Anaheim, CA 92806 USA
Tel: 714-300-0540
Fax: 714-300-0546

Foreseeson Korea
404B, PangyoInnovalley B
253 Pangyo-ro
Bundang-gu Seongnam-si
Gyeonggi-do, Korea
463-400
Tel: +82-31-8018-0780
Fax: +82-31-8018-0786

Foreseeson GmbH
Industriestrasse 38a
63150 Heusenstamm, Germany
Tel: +49 6104 64398 0
Fax: +49 6104 64398 11

Foreseeson UK Ltd.
Unit 71
Barwell Business Park
Leatherhead Road
Chessington, Surrey KT9 2NY
Tel: +44 (0) 208 546 1047

Foreseeson (Shanghai)
Medical Equipment Co., Ltd.
Room 307, 3F
No. 56, 461 Hongcao Road
Caohejing Development District
Xuhui, Shanghai 200233
Tel: 86-21-6113-4188