



FORESEESON™
Custom Displays

When Clarity Matters Most

HD Monitors Designed for Medical Needs

Foreseeson Custom Displays Inc. specializes in the development and production of custom LCD display products. One environment that relies greatly on our innovative, HD monitors is the medical operating room. For years, we have been satisfying this need by listening to the professionals who use our products in the health care industry.

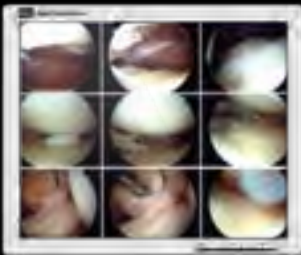
Contact Foreseeson and see for yourself how our customer-first service, the latest technological advances, and world wide representation, can offer you the finest surgical displays available.

The Size You Need

We understand that although space is limited in an OR, quality can not be compromised. From our 19" on up to our 55" medical monitor, Foreseeson offers the same functionality and reliability. All major inputs (DVI, VGA, Component, Composite, S-video, SOG, HDSDI and fiber) are available.

Connection Compatibility

Our monitors are equipped with numerous HD and SD inputs to ensure compatibility with medical imaging equipment. Our standard product comes with the following connectivity solutions: DVI, VGA, USB, GPIO, Serial, RS232C, SDI, S-Video, and C-Video.



19"



24"



26"

Interface Components for the Complete System Solution

Video Management

Central video distribution and control can be a daunting task. Our products range from small switchers, converters, and extenders to large 16 input by 16 output matrix switchers.

Foreseeson, and our sister company OPHIT, have the interface connections to control, convert and distribute all kinds of video, audio and data information.



Control OR

This high quality image capture board features full-functioning PIP image recording. Control OR is truly modular, utilizing 4 input and 4 output card slots on the backplane. All common analog, digital and fiber input/output connections are represented. Control OR also has up to 4 HD/SDI loop through outputs.

PIP

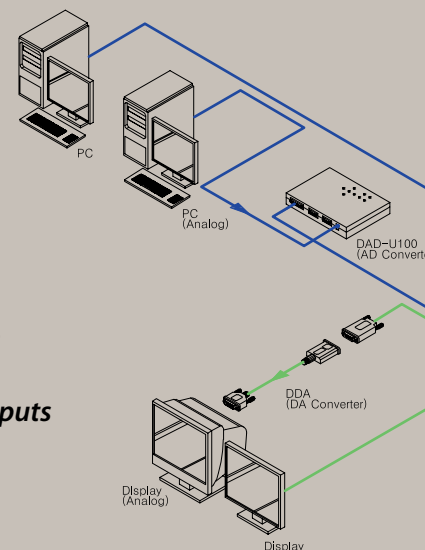
- Full input PIP combination
- Full size and position control
- Any input resolution

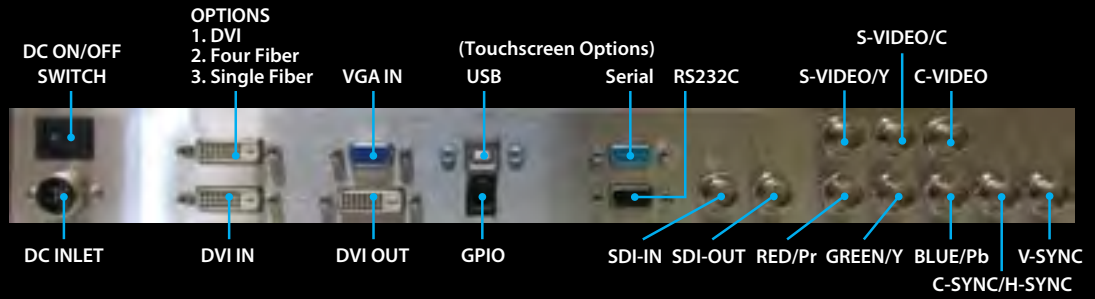
Recording Function

- High quality recording
- Server image display function
- Video streaming and capturing

Supporting inputs/outputs

- Dual SDI (SDI by SDI PIP)
- 3G SDI
- Dual DVI (DVI by DVI PIP)
- Fiber Optic DVI out





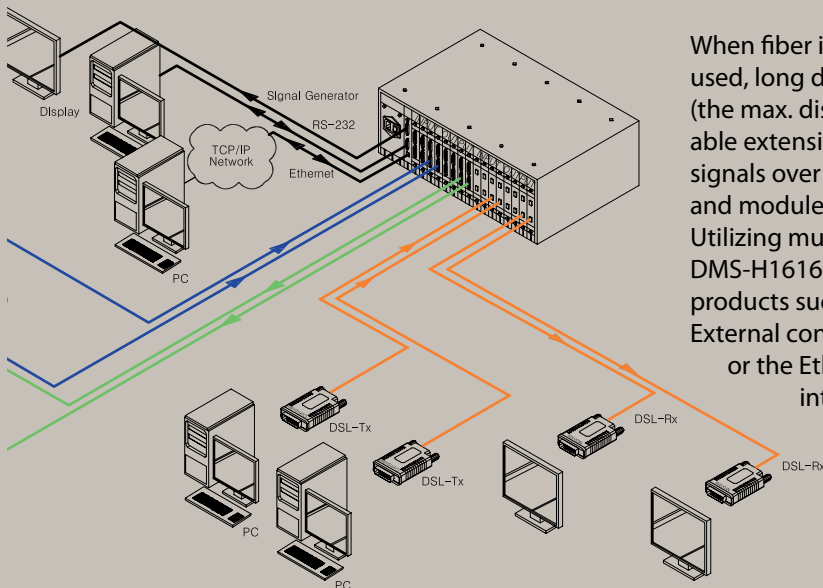
32"



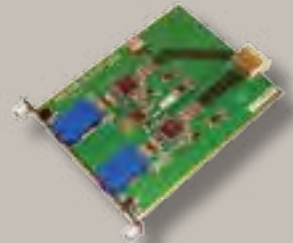
42"

16 x 16 Matrix Switcher

The DMS-H1616 matrix switcher satisfies the need for A/V control in small scale installations. It is designed for switching up to 16-input DVI signals with 16 output destinations. Each input and output module is card based, making it easy for field configuration.



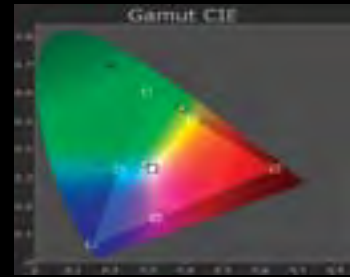
When fiber input or output connections are used, long distance transmission is possible (the max. distance is 3,300 feet). Simple, reliable extension of S-Video, HD/SDI, VGA, or DVI signals over a single fiber strand in a wall plate and module format is essential in OR design. Utilizing multi-mode fiber cables allows the DMS-H1616 to be compatible with other fiber products such as our DSL Series signal extender. External control is done through the RS232 and/ or the Ethernet port. Web based controls are intuitive and simple to use.



DMS-H1616's modular design allows for easy card-based customizing.

Professional Features

- PIP (Picture In Picture)
- PBP (Picture By Picture)
- Zoom
- Counter
- Pan
- On screen display lock and freeze
- Industrial VESA mounting
- OSD (On Screen Display)
- Keypad with protective membrane



55"

Proper Color Reproduction

In the OR, it is particularly important to have a correctly calibrated monitor, and Foreseeson has implemented a technology to accomplish this. We have the ability to clamp down the visible color spectrum, ensuring that doctors see exactly what they expect to see. Distinct color spaces settings in our monitors have been calibrated to well-known surgical color preferences. Or, fine tuning controls can let a display be adjusted to personal preferences.

Extenders

SDL Series

Optical SDI Extension System

- Supports up to 3G-SDI(2.97Gbps)
- Optical link distance : Max 30Km(for SMF version)
- Re-clocker function included in transmitter and receiver
- Available fiber connector types: SC, LC, FC
- Connects 1 source to 2 displays
- Support mounting bracket included



DSP Series

Optical DVI extension module extends video up to 1000 meters.

- High speed transmission through 1 channel SC type multi-mode optical fiber
- Supports resolution up to HDTV / 1080P, PC / WUXGA (1920x1200)
- TMDS video signal and EDID data transmitted
- HDCP support by DDC channel
- Fiber optic transmission eliminates EMI (electromagnetic interference)



HSP Series

Extend video up to 1000 meters (3,300 feet) through HDMI standard optical transmission technology.

- High speed and long distance transmission by 1 channel SC type multi-mode optical fiber
- TMDS signal and EDID data are transmitted by 1 channel fiber
- HDCP support by DDC channel
- Supports 12 bit deep color
- Slim and light aluminum case



DQSP Series

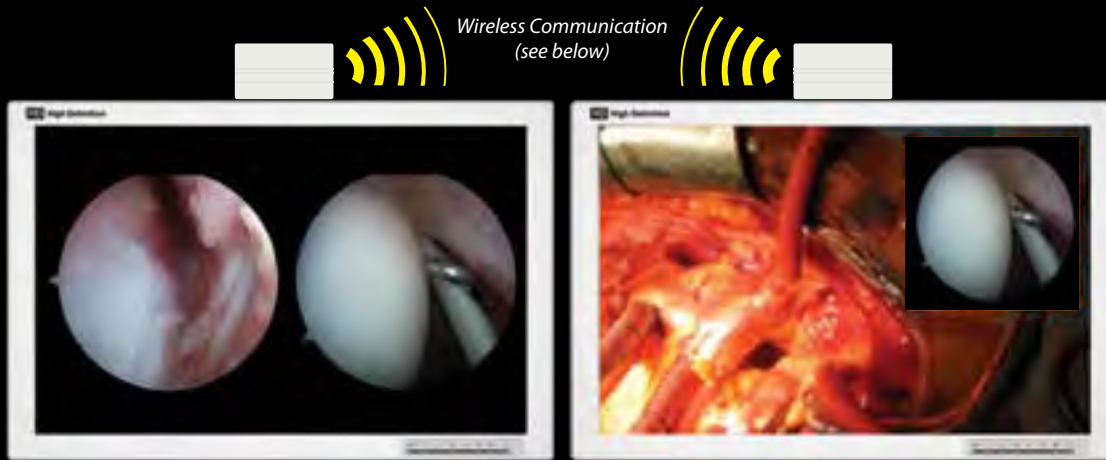
Extend dual link DVI up to 300 meters (1,000 feet) by TMDS digital signal transmission (max. resolution 3840 x 2400)

- High speed, long distance transmission by 2 strands of SC type multi-mode optical fiber
- Supports single link and dual link
- DVI specification 1.0 compliant
- HDCP compliant with HDCP rev. 1.1 specification



Multiple Display Modes

PIP (Picture-In-Picture) and PBP (Picture-By-Picture) are available to simultaneously display crucial data or additional images on the same screen. Other features available are: Zoom, counter, Pan, OSD lock and Freeze. There is also a GPIO connector on the back that allows menu functions to be controlled externally without RS232 commands.



Durable and Easy to Mount

Built with an Aluminum IPX1 enclosure, our medical monitors come with AR (anti-reflection) glass or acrylic anti-scratch protective screens. Each monitor has a back cover with a pattern of VESA mounting holes, making connection to a boom arm or custom yoke an easy task. In addition, the flat perimeter edges on our monitors fit tightly next to one another.



For internal on-screen display menu control, an intuitive key pad is located on the display's front frame.

Converters



WIS1001

The WIS1001 is a DVI converter and scaler created to provide a "clean" output signal complying with industry standards. The device allows the user to upscale a lower resolution to HD. The WIS1001 was designed to be used with the wireless WIS1000 product. Many times the DVI output signal on cameras from different manufactures do not follow the same standard. Using an HDMI to DVI cable, this product converts nonstandard DVI signals to standard DVI.



WIS1001 with transceiver.

Wireless



DC power splitter.

Wireless Audio/Video

WIS1000, our 60 GHz Wireless HD transmitter/receiver provides an easy and flexible solution to wireless transmitting. This system supports HD video, 1080p/60Hz, plus new 3D video formats generated by HDMI 1.4a. Both CEC and non-CEC enabled devices are compatible with our wireless products.

Standards	Wireless HD, HDMI(V1.4a)
Frequency	60 GHz
Input/Output Interface	HDMI interface
Antenna Type	32 Antenna Array (Integrate Ceramic)
Range	10 meters in-room usage
Power	AC 90-230V @ 60Hz input, DC 5V 2.0A

Display Specifications

	FS-L1901D	FS-L2401D	FS-L2601D	FS-L3201D	FS-L4202D	FS-L5501D	
LCD Panel	Panel Type	IPS	IPS	IPS	IPS	IPS	
	Maker	LG Display	LG Display	LG Display	LG Display	LG Display	
	Aspect Ratio	5:4	16:10	16:10	16:9	16:9	
	Resolution	1280x1024(SXGA)	1920x1200(WUXGA)	1920x1200(WUXGA)	1920x1080(HD 1080)	1920x1080(HD 1080)	1920x1080(HD 1080)
	Brightness	270	400	400	500	500	500
	Contrast Ratio	800 : 1	1000 : 1	1000 : 1	1300 : 1	1300 : 1	1400 : 1
	Display Colors	16.7M	1.06 Billion	16.7M	1.06 Billion	1.06 Billion	1.06 Billion
	Response Time(G-to-G)	14 ms	6 ms (avg.)	6 ms (avg.)	6 ms (avg.)	6 ms (avg.)	6 ms (avg.)
	Pixel Pitch	0.294 mm x 0.294 mm	0.270 mm x 0.270 mm	0.2865 mm x 0.2865 mm	0.363 mm x 0.3634 mm	0.4845 mm x 0.4845 mm	0.630 mm x 0.630 mm
	Viewing Angle	R/L 170, U/D 170	R/L 178, U/D 178	R/L 178, U/D 178	R/L 178, U/D 178	R/L 178, U/D 178	R/L 178, U/D 178
	Color Depth	8 bit	10 bit	8 bit	10 bit	10 bit	10 bit
Monitor General	Dimension(mm)	423(W) x 351.5(H) x 76.5(D)	580(W) x 386(H) x 95(D)	618(W) x 412(H) x 99.5(D)	795(W) x 485(H) x 100(D)	1024.6(W) x 617.4(H) x 111.1(D)	1293(W) x 777(H) x 86.3(D)
	Dimension(Inch)	16.653(W) x 13.838(H) x 3.011(D)	22.834(W) x 15.196(H) x 3.740(D)	24.330(W) x 16.220(H) x 3.917(D)	31.299(W) x 19.094(H) x 3.937(D)	40.338(W) x 24.307(H) x 4.374(D)	50.906(W) x 30.591(H) x 3.398(D)
	Weight (Kg)	7.3Kg	7.5Kg	8.8Kg	15.8Kg	28Kg	37Kg
	Weight (lbs)	16.09 lbs	16.53 lbs	19.4 lbs	34.8 lbs	61.7 lbs	81.57 lbs
	Mounting	100 x 100 mm, M4	100 x 100 mm, M4	100 x 100 mm, M4 100 x 200 mm, M4	100 x 100 mm, M4 300 x 100 mm, M4 400 x 200 mm, M6	600 x 200 mm, M8 600 x 300 mm, M8 600 x centerline, M8	600 x 400 mm, M8 600 x centerline, M8
	Input Power	DC 12V, 7A Max	DC 24V, 6.25A Max	DC 24V, 6.25A Max	DC 24V, 7.5A Max	AC 100~230V, 50~50Hz, 3A Max	AC 100~230V, 50~50Hz, 3A Max
	Power Supply	External	External	External	External	Internal	Internal
	Enclosure Rating	IPX1					
	Front Filter	Double side Anti-Reflection Coating					
	Monitor Connectivity	Input	1-DVI, 1-Optical DVI, 1-D-SUB, 1-BNC (CVBS) 2-BNC (SVHS Y/C), 1-BNC (SDI), 5-BNC (Component Y/G, Pb/B, Pr/R, H/CS, VS)				
Input Option		Optical or DVI-D					
Output		DVI, BNC (SDI)					
Monitor Control	Serial Remote	D-Sub 9 pin, RS-232C					
	GPIO	Swap, PIP / PBP1 / PBP2 Select, Record indicator					
Special Features	PIP/PBP	Yes					
	Pan/Zoom	Yes					
	Freeze	Yes					
	Remote Control	NA	NA	NA	Yes	Yes	Yes
	Touch Screen	Optional					
Certifications	EN60601-1-2 : 2001, IEC 60601-1, Rule 12, MDD 93/42/EEC, IEC 60950-1:2001, FCC Part 15 Subpart B Class B, UL 60601-1, CAN/CSA-C22.2 No.601.1-M90					Pending	

Specifications are subject to change with or without notice. Doc. # FSN1915 Rev. 10/11

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