

# Cutting Edge HD Technology Showcased At ACS

**Show attendees learn of HD technologies in a simulated OR environment, the increasing portability of HD and experience the future of HD in 3D in a booth tour with Sony**

Among the multitudes of new surgical technology revealed at ACS this year in Chicago, high-definition (HD) technology for the OR was among the highlights. *Surgical Products* had a chance to talk with representatives from Sony and tour their booth, to catch a glimpse of the HD technology available to surgeons and surgical professionals today, and what is to come in the future.

The Sony booth showcased products that span the entire HD surgical spectrum—from cameras and displays to image capture and printing—showing how HD capabilities is helping to advance minimally invasive (MI) surgery today and impacting the future up with 3D.

### **Simulated OR Environment**

At the booth, Sony displayed its HD technology in a mock operating room, or a simulated OR environment. A free-standing boom-arm surgical tower provided an overview of MI operating room (OR) products that support the HD signal throughout the imaging chain. This included the Sony model PMW-10MD medical grade HD video camera with on-board storage and a 1/2-inch CMOS sensor for ultra-high image quality. The device captures open surgeries in progress with F10 sensitivity and a signal-to-noise ratio of 54dB. Complementing this is the ImageCore HD Digital Capture System, a versatile image management system and a vital part of most HD imaging configurations.

A surgical tower also included the model PCS-XG80 HD Internet-based videoconferencing system, which shares the immediacy of live surgeries with physicians in remote locations. The device can connect up to six sites, provides crisp, clear stereo sound and also supports transmission of PC data in HD at 30 frames per second.

High-performance printers, including the UP-55MD/HD A5 HD color video printer, featuring the Sony ImagePort feature that enables direct image storage to a USB drive for easy importing to a PC. A wall-mountable 65-inch professional LCD was also on display in the mock OR. The SNC-RH124 IP camera, with remote Internet control, can be ceiling-mounted in the OR to allow other clinicians to view the surgical team's activities throughout the entire procedure. Rounding out the display were Sony HD medical-grade monitors in a range of sizes that bring the power of HD technology directly to the user.

### **Versatile, Mobile Carts**

According to Brian Zimmer, senior marketing manager at Sony, not only are

## Cutting Edge HD Technology Showcased At ACS

Published on Surgical Products (<http://www.surgicalproductsmag.com>)

---

surgical teams in today's ORs utilizing HD technology, but reduced budgets due to the slow economy are increasing the need for mobile HD solutions. Hospitals today, Zimmer says, are looking for ways that they can purchase one system that can be used in multiple OR suites. Carts are a solution to meet this need.

At the booth, Sony showcased an HD telemedicine cart equipped with the PCS-XG80 HD videoconferencing system and LMD-3250MD 32-inch HD LCD monitor that support remote Internet-based surgical consultation wherever required throughout the enterprise.

A second cart featured the model PMW-10MD camera for open procedures and model UP-DR80MD printer, showcasing Sony technologies that help surgeons capture and document procedures using both video and still images in the OR or on the go.

### The Future In 3D

Finally, providing a glimpse into the future of HD in the OR, the booth provided a display exploring the clinical benefits of the most realistic video images to date with a preview of Sony 3D video technology.

"What we're finding is there is a trend in minimally invasive surgery. There are some endoscopy camera companies that are developing stereoscopic endoscope systems which enable 3D imaging," he says. "Basically, instead of one camera, you have two cameras recording a left and right eye view. The systems combine those images and that's what gives you 3D depth of field and that increased orientation."

Utilizing a laparoscopic trainer, special 3D glasses and Sony HD displays, attendees were able to experience the power of this emerging technology through a simulated surgical procedure. While the technology is a work-in-progress, 3D capabilities hold a bright future in shaping the path of surgery in the years to come.

**Source URL (retrieved on 03/06/2015 - 9:08am):**

[http://www.surgicalproductsmag.com/videos/2009/10/cutting-edge-hd-technology-showcased-acs?qt-recent\\_videos=0](http://www.surgicalproductsmag.com/videos/2009/10/cutting-edge-hd-technology-showcased-acs?qt-recent_videos=0)