Free-Standing 3D Medical-Grade LCD Monitor

Sony showcased at the American College of Surgeons (ACS) conference this month a free-standing 3D medical-grade display, capturing the full image quality of today's high definition (HD) 3D endoscopes and surgical microscopes. The LMD-2451MT LCD will finally enable minimally invasive (MI) surgeons to take advantage of the depth perception and spatial orientation that our natural vision provides, when utilized with the growing number of 3D HD surgical camera systems being used today in a full range of MI procedures. For robotic surgical systems which offer the surgeon 3D visualization at the console, the new display can also be used as a secondary monitor to enable the surgical team to have the same 3D view of the procedure. The Sony monitor is being shown as a work-in-progress.

Optimized for a demanding medical environment, the new 24-inch (measured diagonally) LMD-2451MT LCD takes advantage of Sony's circular micro-polarizing technology to deliver superb, life-like images of the body captured during surgery. The device will help guide physicians in performing complex MI operations with advanced technology similar to that used in the highest quality commercial 3D motion pictures. Unlike 3D technologies which utilize cumbersome head-mounted displays (HMD) or battery-powered active-shutter glasses, the new monitor allows surgeons to wear comfortable lightweight polarized 3D eyewear similar to lightly tinted sunglasses. These enable users to move freely within the OR while viewing virtually distortion-free images and to switch between 3D and 2D content as well as view surroundings without removing the glasses.

The new Sony LMD-2451MT LCD is 2D/3D switchable enabling use with both 2D and 3D camera systems, which makes it ideal for customers planning to upgrade to 3D in the future. The new display delivers full WUXGA HD performance with 1920x1200 pixels and a 16:10 aspect ratio. It features Sony's ChromaTru technology, assuring consistent color matching across multiple displays. The unit has two built-in option slots to select, expand and change input/output signals for maximum flexibility. It supports picture-outside-picture (POP) and side-by side display for multiple image viewing.

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