

# TRENDS & TECHNOLOGY

## Touchscreen Point of Care Ultrasound with TEE

The new touch controlled TE7 ultrasound system has a 15 inch anti-glare touchscreen, preset image optimization options, continuous wave Doppler, and the ability to accept a TEE transducer. The system is also capable of performing needle tracking and comes with built-in nerve exam presets. The device features a speedy three second boot time from standby, can run for two hours on a battery, and has a built in WIFI to interface with the hospital's PACS system.

Source: **Mindray** (Shenzhen, China)  
www.mindray.com



## App-based Ultrasound System

**Philips** new ultrasound system uses your own tablet as the display and interface. The **Philips Lumify** looks just like a typical transducer, but has a micro-USB plug on the far end. Download the Lumify app onto a compatible Android tablet, plug in the transducer into the micro-USB socket, and get a proper US system. One can select the tablet that fits needs in terms of size, weight, and other characteristics. Moreover, the app allows for easy sharing of scans.

Source: www.usa.phillips.com



## Dual Ultrasound Probes in Single Handheld Device

**GE Healthcare** has introduced a dual-probe version of its ultra-portable Vscan ultrasound. The new version includes a linear transducer within the same



imaging pen to visualize shallow target in addition to the single phased array transducer for deep targets

The controls are within a thumb's reach. From the probe tip to the display, everything is easily cleanable. Easy-to-swap batteries can extend operation all day long.

Source: GE healthcare, Vscan  
www.gehealthcare.co.uk

## AxoTrack Needle Guide

**Sonosite** has launched its AxoTrack needle guidance technology on the SonoSite M-Turbo line of ultrasounds. It allows for needle placement directly into a vessel deep within the body. In addition to ultrasound localization within tissue, AxoTrack uses magnets to spot the location of the needle, allowing for confident placement and faster procedures.

Source: Sonosite, Axotrack needle guidance technology  
www.sonosite.com



## First Response Monitor Tracks Heart, Respiratory Rates in Multiple Trauma Victims

The First Response Monitor has been designed to help first responders to manage multiple victims during emergency situations. It clips onto the nose and monitors the heart and respiratory rate of the person wearing it. The readings can be transmitted in real-time to a paired smartphone or tablet via the Bluetooth. EMTs or battlefield medics can quickly snap the devices on all the trauma victims in their care and



begin monitoring their vitals en masse  
Source: Cambridge Design Partnership  
http://www.cambridge-design.co.uk/  
UK: +44 (0)1223 264428

## IV Watch Monitors IV Placement Sites for Leakage Outside Veins

**IV Watch** is an IV infiltration and extravasation monitoring system. It works via an infrared sensor that is stuck next to the IV site, which non-invasively detects IV fluid leaking outside the vein. The system works with both forearm and dorsum of the hand and can reliably detect 4 cc of leakage. The system is fully automatic, warning the nurses to check

the IV as soon as leakage is detected thus providing safer experience to the patients. It will hopefully relieve staff from frequent checking of IV sites and lead to a safer experience for the patients.

Source: **McLaws**  
Circle, Williamsburg, VA 23185  
www.ivwatch.com



## Non-Invasive Hemodynamic Monitoring System

A new system from **Edwards Lifesciences**, cleared by the FDA, offers advanced hemodynamic information, comparable to that provided by minimally invasive catheters, using only an inflatable finger cuff and finger heart reference sensor. This system also provides stroke volume variation, cardiac output, and systemic vascular resistance and continuous blood pressure measurement. This system may help many fragile patients who cannot withstand the invasive monitoring through PAC's.

Source: The Clear Sight system, Edward Lifesciences,  
http://www.edwards.com



## Esophageal Cooling Device First to Control Body Temp from Within

**Advanced Cooling Therapy** received FDA clearance for its Esophageal Cooling Device (ECD). The ECD is used to cool patient body temperature via the esophagus. It is a disposable, single use device that has three channels, two of which are for running fluids and the third one for drainage and decompression. It is positioned like an oro-gastric tube which is connected to temperature control equipment, and thus running to control body temperature from within.

Mail id- info@AdvancedCoolingTherapy.com

Source: Advanced Cooling Therapy  
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Mask that Keeps Waste Anesthesia Gas Away from Clinicians in PACU

