

Ultrasound System Developed for the ER



Fujifilm SonoSite's (Bothell, WA, USA) new ultrasound system, the X-Porte, has been specially designed for emergency medicine settings and includes novel features for the ER such as an education and training module along with the ability to save images on an external flash drive, *MedImaging.Net* reported.

X-Porte was developed from the ground up to incorporate a breakthrough, proprietary beam-forming technology XDI (Extreme Definition Imaging), according to SonoSite. This signal analysis algorithm shapes X-Porte's ultrasound beam to pinpoint precision. As a result, the company said, artefact clutter is significantly reduced while contrast resolution is substantially enhanced.

Amongst the first users to benefit from X-Porte's sophisticated point-of-care imaging capabilities are the accident and emergency services at The Royal Oldham Hospital (Oldham, Lancashire, UK), part of the Pennine Acute Hospitals NHS (National Health Service) Trust, according to the *MedImaging.Net* report.

"We have been using SonoSite's point-of-care ultrasound systems for 10 years, from the Titan through to the latest systems, and were lucky enough to receive the very first X-Porte delivered in the world," said Rip Gangahar, a consultant in emergency medicine and trauma lead for the Trust.

Ultrasound is an integral part of the emergency department's services and is used for a variety of cases, ranging from suspected gall stones or aneurysms to fractures and pregnancy complications, Gangahar said. With X-Porte's customisable touch-screen interface, users have easy access to its leading-edge capabilities and onboard educational resources, such as step-by-step tutorials viewable simultaneously with live scans.

System Includes Echocardiogram Function

"The XPorte really is on a whole new level in terms of speed and ease of operation, and the image quality rivals many much larger, more expensive systems," Gangahar noted. "The echocardiogram function is also a step ahead in terms of both image quality and the software."

In addition, X-Porte's slender profile makes it easy to manoeuvre alongside beds and examination tables for point-of-care imaging. For portability and durability during transport, X-Porte's screen folds down and its stand lowers making the machine even more compact for navigating busy corridors.

"It is very easy to wipe down, which is important from an infection control perspective, and this, combined with the portability and robustness that is a trademark of all SonoSite instruments, makes the system ideally suited to an emergency setting," Gangahar said.

SonoSite helped revolutionise portable, point-of-care ultrasound technology, and continues to develop bedside ultrasound systems as well as ultra-high frequency micro-ultrasound technology.

Fujifilm SonoSite, Ltd. (UK) is a wholly owned subsidiary of Fujifilm SonoSite, Inc. (Tokyo, Japan). It oversees a direct sales distribution network in the United Kingdom and provides sales and marketing support.

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