Noise-Immune Stethoscope

N I S

www.usaarl.army.mil
The dual-mode hybrid Noise-Immune Stethoscope (NIS) is an auscultation device that detects heart sounds without interference from environmental noise.

In the ultrasonic mode, the NIS transmits a 2.3 MHz signal into the patient’s body through a highly optimized stethoscope head. Due to the Doppler Effect, the signal is reflected from the moving tissues at slightly different frequencies than the 2.3 MHz source. Users of the NIS are able to easily switch from Doppler to acoustic mode, which immediately turns body sounds into electrical signals for enhanced performance.

The NIS will enable medical personnel to assess abnormalities of the heart, arteries, and lungs in high-noise environments such as during the transportation of wounded Soldiers in medical evacuation (MEDEVAC) aircraft, ground warfare, and Intensive Care Units, where use of a standard stethoscope to assess chest sounds can be difficult.

For more information please visit: http://www.usaarl.army.mil or contact:
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