Noblus

Advanced Versatile Ultrasound System
The Noblus offers premium modalities that can be utilized in many different clinical situations. Although compact in design, the powerful engine of the Noblus enables functions such as Real-time Tissue Elastography (RTE), Contrast Harmonic Imaging* (CHI) and CW Doppler, features previously found only on larger cart-based systems.
Since their inception, today’s ultrasound systems have progressed to become essential medical devices not only in examination rooms but in various non-traditional clinical settings as well. The Noblus ultrasound system provides the ultimate in versatility and adaptability for virtually any clinical application. With its state-of-the-art features and large user-friendly display, Noblus provides all the functionality needed to perform examinations in any setting.
The Noblus has advanced features required in various clinical applications including, Real-time Tissue Elastography and Contrast Harmonic Imaging* functions, which support detailed evaluations. Built in the compact-size Noblus, the Ultra BE (Ultrasound Broadband Engine) enables these functions with its powerful transmission and reception capability for excellent performance.
Real-Time Tissue Elastography – An innovative diagnostic tool that provides real-time color display of tissue elasticity.

Fine Flow – Displays blood flow with directional information at higher frame rates and spatial resolution compared to conventional methods. Detail and accuracy of blood flow information is greatly increased with reduced blooming of color.

Trapezoid – Trapezoidal display on linear transducers provides a wider diagnostic field of view.

HI Support – At the touch of a button, the B-mode image is instantly optimized to the user’s preference. This technology continually monitors the user’s typical settings to optimally adjust the image when pressed, resulting in less manual adjustments and more efficient examinations.

HI Definition Tissue Harmonic Imaging (HdTHi) – Provides high quality imaging using an expanded range of harmonic signals. This technology results in excellent image resolution and sensitivity and improved penetration.

HI REZ – Tissue emphasis and extraction of structures at high frame rates provides more uniformed and enhanced imaging while reducing noise.

HI Com – Multi-angle spatial compounding provides exceptional contrast and detail resolution. Interface and organ boundary visualization are improved enabling greater diagnostic confidence.

Contrast Harmonic Imaging* – To improve understanding of blood flow information, Hitachi Healthcare offers harmonics enhanced imaging specifically designed for use with contrast agents. The low MI contrast imaging obtained improves signal-to-noise ratio.

Clear Images and Smooth Examinations – Unchallenged examination-specific image quality is indispensable for high-quality diagnosis. The Ultra BE built in the Noblus is an ultrasound-specific digital signal processing circuit. It achieves advanced ultrasonic beam formation and image processing. This engine, found in higher class models, provides clear images. Easy-to-observe unchallenged examination-specific image quality allows smooth and precise examinations.

*In the USA, contrast-enhanced ultrasound has not been market cleared by the FDA for all imaging applications.
The Smart Touch: Allows users to adjust imaging parameters on the lower part of the screen, focusing on the examination, without turning the eyes away from the screen.

Transducer Flexibility: Flexible fit for standard transducers necessary for routine examinations, special-purpose probes used in operations and for trans-cavity examinations and other various transducers are available.

Built-in Battery: Offers superb portability without system shutdown between examinations.

Transducer Add-on Unit: Up to three active transducers can be connected by installing this unit onto the cart.

Height Adjustment: The height of the cart mounting base may be adjusted. Physical loads to the examiner may be reduced by changing the height according to the user’s conditions.

Wide Leg Space: When used on the cart, the operation panel and monitor can be drawn closer for usability.

The Noblus meets and exceeds operator needs during hospital and private clinical environments, bedside imaging, in hospital or private consultation rooms, desktop use, and both standing and sitting examinations. The monitor swings and tilts to adapt to the operator’s comfort, and the unique housing style with a flip up type operation panel allows desk work between examinations. The Smart Touch feature, which enables intuitive operation, wireless DICOM communication and other functions powerfully enhance examination efficiency and support comfortable operation, regardless of examination situations.
Innovating Healthcare, Embracing the Future

For a society where all can enjoy a secure, safe, healthy way of life, Hitachi delivers innovation for implementing healthcare services tailored to individuals.
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