



# Noblus

Advanced Versatile Ultrasound System

Ultrasound System for Cardiology and Vascular



Ultrasound Solutions Clearly Defined™



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## State-of-the-Art Functionality

**AN APPLICATION-RICH PLATFORM  
IN A COMPACT PACKAGE**



Hitachi Healthcare understands that clinicians demand the best technology, professional support and the specialized tools necessary to perform comprehensive real-time ultrasound imaging for superior patient care. The Noblus continues our dedication and commitment by providing a powerful compact platform with superior image quality, outstanding system reliability and intuitive use of cutting edge technology. Hitachi Healthcare remains the standard in the field of diagnostic ultrasound.





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**Advanced Versatile Ultrasound System  
For Cardiology**

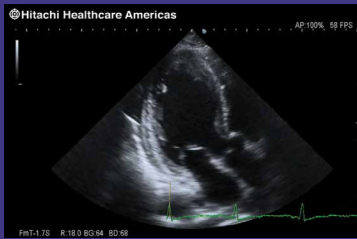
Since their inception, today's ultrasound systems have progressed to become essential medical devices not only in examination rooms but in non-traditional locations as well. Noblus is a dedicated ultrasound solution for clinicians in any clinical setting – Private Office, Clinic or Hospital.

The Noblus ultrasound system provides the ultimate in portability, versatility and adaptability with its state-of-the-art features and large user-friendly display.

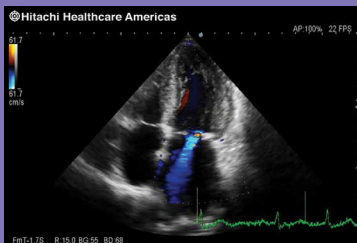


The Noblus has advanced features for a variety of clinical applications including Adult and Pediatric Cardiology and Vascular evaluations. The Ultra BE (Ultrasound Broadband Engine) provides exceptional performance and image quality.



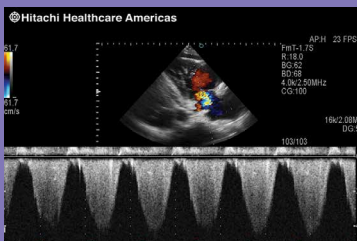


## ADVANCED IMAGE QUALITY AND FEATURES PROVIDE RELIABLE EXAMINATIONS FOR DIAGNOSTIC IMAGING



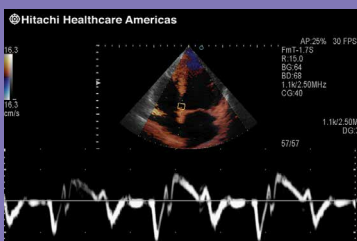
**Fine Flow** – Displays blood flow with directional information at higher frame rates and spatial resolution compared to conventional methods. Detail and accuracy of blood flow information is greatly increased.

**Auto IMT**– Automatic measurement of Intima-media Thickness (IMT). The maximum and mean IMT are automatically calculated following the placement of the ROI on a long-axis section of the blood vessel.



**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.

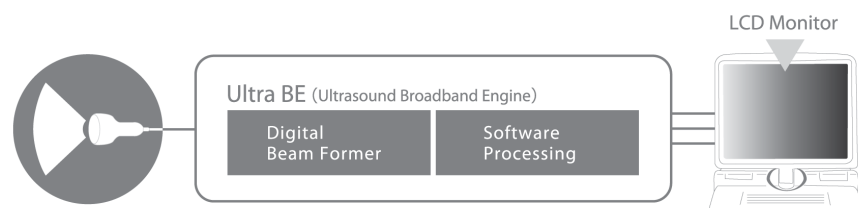
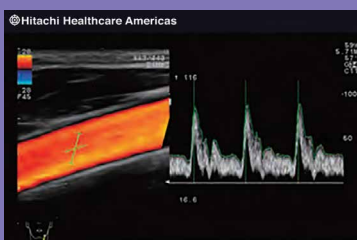
**HI REZ** – Tissue emphasis and extraction of structures at high frame rates provides more uniformed and enhanced imaging while reducing noise.

**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 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 to the Noblus is an ultrasound-specific digital signal processing circuit. It achieves advanced ultrasonic beam formation and image processing to provide exceptional image quality for precise examinations.



*\*In the USA, contrast-enhanced ultrasound has not been market cleared by the FDA for all imaging applications.*

FLEXIBILITY

HITACHI  
Noblus



## ERGONOMICALLY DESIGNED TO MAXIMIZE FUNCTION AND FLEXIBILITY

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.

**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 such as TEE, and 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 base may be adjusted. Physical loads to the examiner may be reduced by changing the height according to the user's conditions.

**Ergonomic Positioning:** When used on the cart, the operation panel and monitor can be drawn closer for usability.

**SMART TOUCH FEATURE**



**MONITOR SWINGS AND TILTS**



**ADJUSTABLE CART HEIGHT**



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## 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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