

HITACHI
Inspire the Next



ARIETTA 70
NEXT GENERATION ULTRASOUND SYSTEM
For Neurosurgery

Ultrasound System for Neurosurgery



Ultrasound Solutions Clearly Defined™



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ARIETTA 70 Overview

Driven by rapidly advancing imaging technology and the constant evolution of healthcare, ultrasound is asked to provide more than ever before. The Arietta 70 combines state-of-the-art features, unique probe designs, and a user-friendly interface into the definitive ultrasound solution for surgeons in any clinical setting.

Arietta 70 systems provide:

- Extraordinary high-resolution digital imaging with advanced imaging options like Real-time Tissue Elastography and Real-time Virtual Sonography
- A broad selection of general-purpose and specialty probes
- Comprehensive ergonomics for scanning comfort
- Intuitive and efficient operation to meet increasing workloads

Symphonic Technology Whether its source is a world class orchestra or advanced medical equipment, recording sound is an art form. It requires precision instrumentation to capture the most subtle details without introducing noise in the process. Arietta 70's Symphonic Technology optimizes data fidelity along the entire signal handling chain, from transducer to display monitor.



Multi-layered Crystal Using multiple layers of crystal within each element, Hitachi Aloka's probes minimize signal attenuation during transmit and receive to increase penetration.



Compound Pulse Wave Generator CPWG+ is a unique transmission technology that allows Arietta 70 to generate pulses to the ideal theoretical waveform. As a result, the heat generation during electro-acoustical conversion is minimized. This allows the use of stronger pulses to improve penetration, contrast and spatial resolution, and signal-to-noise ratio.



Pixel Focusing Arietta 70 dynamically focuses at the pixel level improving resolution and image uniformity.



Ultra Backend The high-speed digital computing of the Ultra Backend fuels the various real-time image processing features of Arietta 70 of frame rate.



IPS-Pro Display Monitor Developed initially by Hitachi Displays, Ltd., In-Plane Switching (IPS) was the first LCD technology to improve viewing-angle. The Arietta 70's IPS-Pro display doubles the half-contrast viewing angle of these displays while also improving contrast, black levels, and switching speed.



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ARIETTA 70 Features

Real-time Tissue Elastography (RTE)

Real-time Elastography creates color images depicting relative tissue stiffness. Arietta 70 supports this function on a variety of curved, linear, and endocavity probes.



Real-time Virtual Sonography (RVS)

RVS merges real-time ultrasound with previously acquired CT, MR, PET, or ultrasound images. It allows a direct comparison of lesions, taking advantage of the strengths of each imaging modality.



Directional eFLOW (D-eFLOW)

D-eFLOW is a high-definition blood-flow imaging mode that combines the directional information and image stability of traditional color flow imaging with the high sensitivity and resolution of power Doppler. The resulting images provide exceptional detail of even the smallest vessels.



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Clearly displays differences in tissues, reducing speckle noise while maintaining the frame rate. It can also display outlines more clearly by selectively emphasizing boundaries.



Compound Imaging

The ultrasound beam is transmitted and received in real time and in the multiple directions resulting in a reduction of speckle noise, suppression of artifacts, and improvement of contrast resolution allowing lesions to be clearly observed.



Image Optimizer

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.



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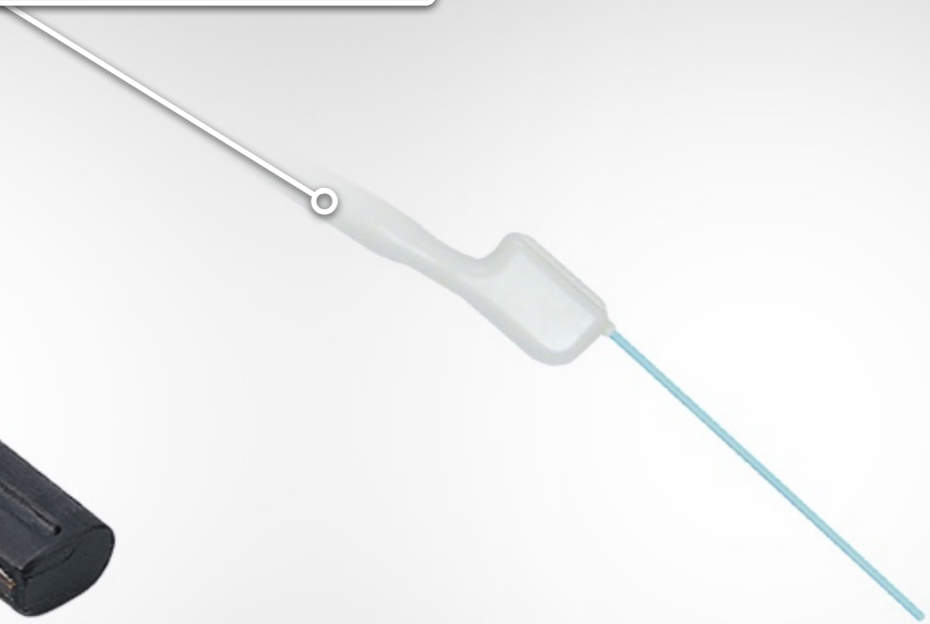
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➔ Schedule a Demo

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