prosound α7
Surgical Ultrasound System
For Surgical Oncology

Hitachi Aloka Medical America, Inc.
ProSound Alpha 7 Overview

Recognized for our superior image quality, outstanding system reliability and intuitive use of cutting edge technology, Hitachi Aloka remains the standard in the field of Surgical Oncology.

Hitachi Aloka’s premium level systems provide:

- Extraordinary high-resolution digital imaging with specifically designed transducers
- Real-time imaging that immediately provides valuable information necessary to assist in surgical planning and execution
- Guidance of biopsy procedures for more accurate placements of needles
- Instant feedback on tumor margin delineation
- Valuable information to guide tumor resections
- Assistance in achieving complete tumor resection
- Ability to visualize and account for blood flow
- Minimally invasive micro-surgery imaging
- Robotic surgery imaging
- Localization and orientation of relative anatomy
- Blending and overlaying of CT/MR images with ultrasound
Compound Pulse Wave Generator (CPWG)
The most advanced broadband beam-forming technology combined with high speed image processing that allows for higher definition ultrasound imaging than ever before.

Broadband Harmonics™ (BbH)
Provides high quality imaging using an expanded range of harmonic signals. This technology results in excellent image resolution and sensitivity and improved penetration.

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

Spatial Compound Imaging (SCI)
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.

SmartProbes
The new high-efficiency probes are very lightweight and designed to be high in energy conversion to transmit high-quality ultrasound beams.
ProSound Alpha 7 Features

Real Time Elastography
An innovative diagnostic tool that provides real-time color display of tissue elasticity.

D-eFlow
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.

Dual Dynamic Display (DDD)
Real-time side-by-side display of a B-mode image and Color Doppler image assisting in easy anatomical interpretation of blood flow.

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

High-Definition Extended Field of View (HD-EFV)
Provides an extended field-of-view image created from a series of real-time images. As the user moves the transducer across the area of interest a larger image is created that provides clearer spatial relationship information of anatomy and structures. This is especially helpful in assessing structures that are larger than the transducer field of view.

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

* In the USA, contrast-enhanced ultrasound has not been market cleared by the FDA for all imaging applications.
ProSound Alpha 7 - Breast Imaging - Breast Dense Tissue
ProSound Alpha 7 - Gall Bladder Imaging - Gall Bladder NonShadowing Stone
ProSound Alpha 7 - Kidney Imaging - Kidney Cyst
ProSound Alpha 7 - Liver Imaging - Liver Lesion
ProSound Alpha 7 - Pancreas Imaging - Pancreas
ProSound Alpha 7 - Thyroid Imaging - Thyroid
UST-9150

UST-5550-R

UST-52109

UST-533

UST-5418

Schedule a Demo

Contact Sales
Surgical Ultrasound System
For Surgical Oncology

SPECIALTY TRANSDUCERS

UST-9132I
UST-9132T

UST-9146I
UST-9146T
Contact Information

Telephone
1-203-269-5088
1-800-872-5652

Fax
1-203-269-6075

Sales: 1-800-872-5652
sales@hitachi-aloka.com

Service: 1-888-782-5652
service@hitachi-aloka.com

24-hour Service Hotline
1-888-782-5652

Hitachi Aloka Medical America, Inc.
10 Fairfield Boulevard
Wallingford, CT 06492

Directions