

**HITACHI**  
Inspire the Next



**ARIETTA 70**  
NEXT GENERATION ULTRASOUND SYSTEM  
For Surgical Oncology

Ultrasound System for Surgical Oncology



Ultrasound Solutions Clearly Defined™





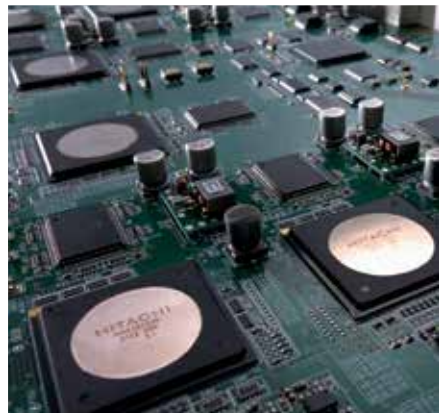
Ultrasound Solutions Clearly Defined™

## Utility and Efficiency

**A SYSTEM DEFINED BY THE NEEDS OF TODAY'S  
IMAGING PROVIDERS**



The Arietta 70 has many advanced features required for a variety of surgical applications. It features Multi-Parametric imaging modalities including Real-time Tissue Elastography, Doppler, D-eFlow and Contrast Harmonic Imaging\*, which support detailed evaluations. The powerful Arietta 70 ultrasound system is equipped with Compound Pulse Wave Generator (CPWG), a broadband engine which enables these functions and provides surgical oncologists with superior imaging.





# **ARIETTA 70**

**NEXT GENERATION ULTRASOUND SYSTEM**  
**For Surgical Oncology**

Today's ultrasound systems have progressed to become essential medical devices in operating rooms and other non-traditional locations.

The Arietta 70 is a dedicated ultrasound solution for surgical oncologists in any clinical setting – Hospital, Clinic or Ambulatory Surgery Center.

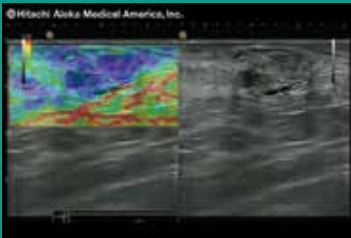
The Arietta 70 ultrasound system provides the ultimate in system reliability and high-resolution digital imaging of liver, pancreas and other soft tissue organs and structures with specifically designed surgical transducers.



Hitachi Aloka understands that surgical oncologists demand the best technology, professional support and specialized transducers necessary to perform comprehensive real-time ultrasound imaging for superior patient care. The Arietta 70 continues our dedication and commitment to surgical oncologists by providing exceptional image quality, outstanding system reliability and intuitive use of cutting edge technology. Hitachi Aloka remains the standard in the field of surgical oncology.

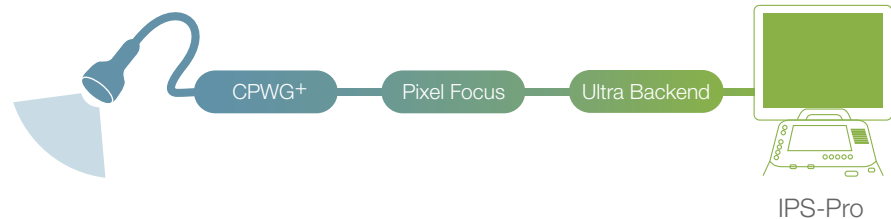


## STATE-OF-THE-ART DIGITAL ARCHITECTURE AND ADVANCED IMAGING FEATURES TO REDEFINE THE CAPABILITIES OF ULTRASOUND



### 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 Arietta70 to generate pulses closer than ever before 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.

### 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.

### 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.

### Contrast Harmonic Imaging (CHI)\*

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.

### Dual CF

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.

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



## ERGONOMICALLY DESIGNED TO MAXIMIZE FUNCTION AND FLEXIBILITY

The ever-evolving healthcare industry demands efficiency in all aspects of patient care. In ultrasound, exceptional image quality without equally exceptional simplicity and ergonomics is unacceptable. That is why the Arietta 70 was designed to provide maximum simplicity, user efficiency, and portability. From its compact footprint to its intuitive, time-saving user interface, the Arietta 70 was engineered for the increasing workloads of today's busy Surgical Oncology environments.

### **Arietta 70 Ergonomics**

Arietta 70's ergonomics address every point of interaction between the ultrasound system and surgeon. In addition to its moveable control panel, adjustable monitor, and portable frame, the Arietta supports a set of lightweight, ergonomically-contoured and specifically designed surgical probes.

### **45% Lighter**

The Arietta 70 is 45% lighter than our previous premium class systems, making it easier to move from room to room or between floors.

### **User-friendly Operation Panel**

Two-way multi-rotary encoders enable the adjustment of multiple functions using a single control, significantly reducing repetitive motions. The large palm rest at the center of the operating console is designed to give optimum wrist support.

### **Adjustable Panel Height**

The panel height can be lowered to 70 cm, allowing the operator to perform lower extremity examinations with the control panel comfortably within reach.





## SPECIALTY TRANSDUCERS

# ARIETTA 70

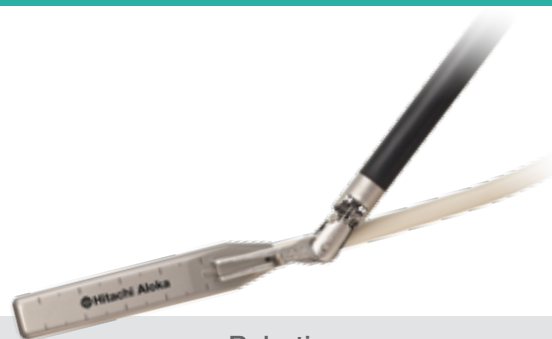
NEXT GENERATION ULTRASOUND SYSTEM

For Surgical Oncology



UST-9150

**4-way Laparoscopic**  
13 – 5 MHz | 65° FOV  
40 mm Radius | Curved



UST-5550-R

**Robotic**  
13 – 4 MHz  
38 mm Width | Linear



L43K

**Robotic**  
12 – 2 MHz  
26 mm Width | Linear



UST-533

**Micro-Surgery Guidance**  
13 – 4 MHz  
10 mm Width | Linear



L44LA

**4-Way Laparoscopic**  
13 – 2 MHz | 36 mm Width  
12 mm Insertion | Linear



L44LA1

**Rigid Laparoscopic**  
13 – 2 MHz | 38 mm Width  
10 mm Insertion | Linear



L44K

**Narrow-View Side-Fire "T"**  
14 – 2 MHz | 42 mm FOV  
42 mm Width | Linear



UST-5550

**2-way Laparoscopic**  
13 – 4 MHz | 38 mm Width  
10 mm Insertion | Linear

## SPECIALTY TRANSDUCERS

# ARIETTA 70

NEXT GENERATION ULTRASOUND SYSTEM

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L46K

**Wide-View Side-Fire "T"**  
13 – 3 MHz | 60 mm FOV  
60 mm Width | Linear



UST-9132I

**"I" Style Finger-Grip**  
10 – 3 MHz | 65° FOV  
20 mm Radius | Curved



C42T

**"T" Style Finger-Grip**  
10 – 3 MHz | 65° FOV  
20 mm Radius | Curved



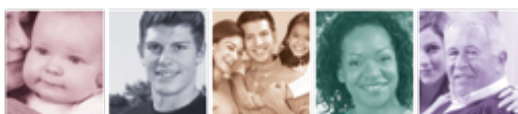
C22I

**"I" Style Finger-Grip**  
6 – 1 MHz | 82° FOV  
20 mm Radius | Curved



C22T

**"T" Style Finger-Grip**  
6 – 1 MHz | 82° FOV  
20 mm Radius | Curved



Ultrasound Solutions Clearly Defined™

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