



Learn more about the ARIETTA 750SE
<https://www.hitachi.com/businesses/healthcare/products-support/us/arietta750se/index.html>

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.

- ARIETTA, Real-time Tissue Elastography, Real-time Virtual Sonography, and 4Dshading are registered trademarks or trademarks of Hitachi, Ltd. in Japan and other countries.
- Specifications and appearance may be subject to change for improvement without notice.
- For proper use of the system, be sure to read the operating manual prior to placing it into service.



ARIETTA 750SE

Sense and Visualize Ultrasound.



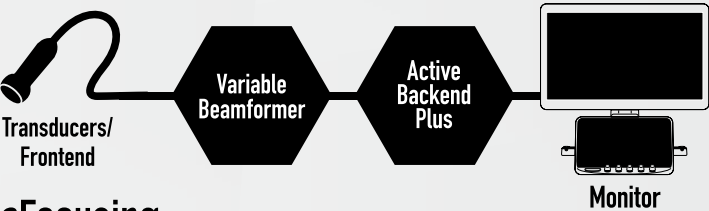
EMPOWERING YOUR ULTRASOUND

Accuracy, safety, and high cost performance are required for ultrasound diagnosis. In order to achieve this goal, we provide ideal equipment that combines high image quality, diagnostic support, and operability required for diagnostic ultrasound systems to all users. ARIETTA 750SE will transform your ultrasound diagnosis.

PURE IMAGE

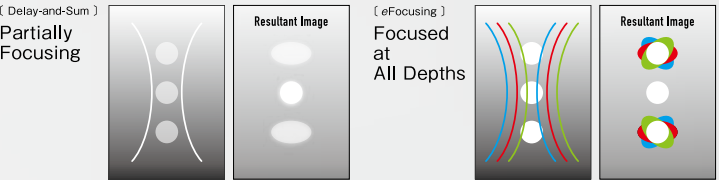
Pure Symphonic Architecture

Definite imaging technologies succeeded from premium class models delivers all users high image quality that allows the detection of even fine changes.



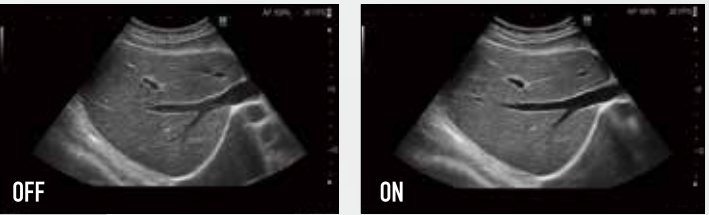
eFocusing

Transmission and reception technology to achieve clarity of imaging from near to far field. Reduced focus dependency and patient dependency.



Carving Imaging

Images with "Clearer Visibility" are produced by our new image processing technology that enhances tissue structure visibility. Realizes stable imaging with less patient dependency.

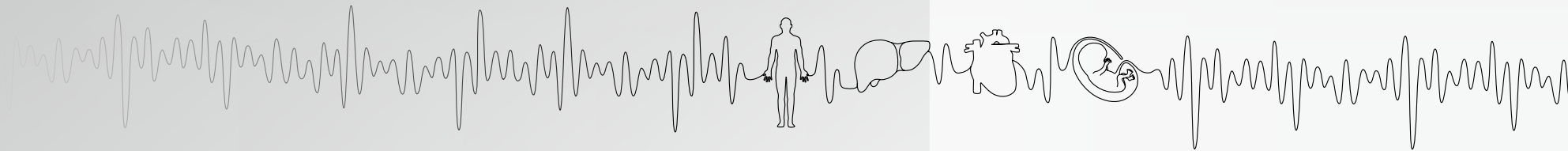


YOUR APPLICATION

A variety of state-of-the-art applications provide you with detailed diagnostic information and enhance your routine examinations.

SEAMLESS WORKFLOW

A comfortable examination environment is the basis for accurate and safe ultrasound diagnosis. This equipment is equipped with innovative functions that support the workflow for a comfortable examination environment.



Radiology

PURE IMAGE
YOUR APPLICATION
SEAMLESS WORKFLOW

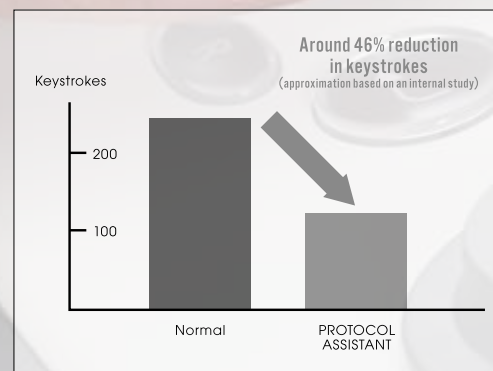
EMPOWERING
YOUR
ULTRASOUND

Today, diseases derived from lifestyles are increasing worldwide. ARIETTA 750SE provides advanced diagnostic information quickly with various functions and advanced applications that support a smooth workflow.

SEAMLESS WORKFLOW

Protocol Assistant

Prior fixed examination protocols and imaging conditions can be registered. Button operations can be reduced significantly to support efficient examinations. Additionally, a reference image can be displayed via the "Guide View" function.



Advanced Workflow for Real-time Tissue Elastography (RTE)

HI Strain

HI Strain is an algorithm used to display an Elastography image more consistently than before. It is possible to display Elastography images with high continuity while maintaining temporal resolution and spatial resolution.

Auto Frame Selection (AFS)

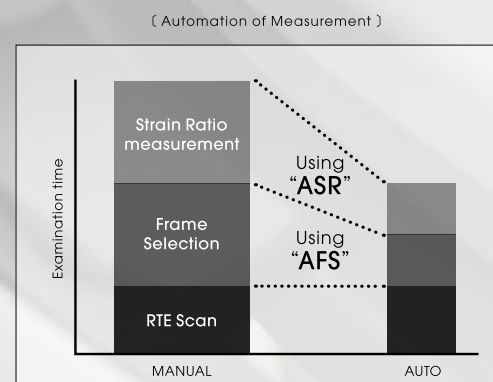
Automatically selects and displays a frame of Elastography appropriate for diagnosis.

Assist Strain Ratio (ASR)

Automatically sets a ROI for Fat Lesion Ratio (FLR) and conducts a measurement.

Interlocking FLR Measurement

A series of operations from frame selection to the boot of FLR measurements are automated. Elastography evaluation with high reproducibility is possible via automation.



YOUR APPLICATION

Examination Elastography

Real-time Tissue Elastography (RTE)

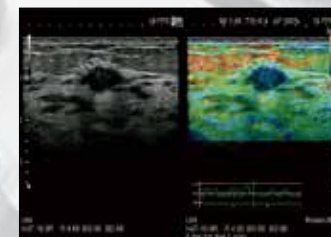
RTE assesses tissue strain in real time and displays the tissue stiffness as a color map. Its application has been validated in a wide variety of clinical fields, and it is possible to calculate an estimate value of liver fibrosis staging.

Shear Wave Measurement (SWM)

It is possible to evaluate tissue stiffness by generating shear waves and measuring Vs, its propagation velocity in the tissue. Combi-Elasto, which integrated RTE and SWM, is expected to be used for cases which is difficult to diagnose though only using SWM.

ATT (Attenuation)

A function to measure the attenuation coefficient generated in the process of ultrasound propagation of tissue. The degree of steatosis can be estimated from the size of the coefficient. Its measurement is conducted simultaneously with SWM, and it can be conducted as an extension of B mode examination.



Contrast Harmonic Imaging (CHI)

Contrast enhanced ultrasound is used widely for clinical practices such as tumor detection, differential diagnosis, and treatment support. High definition and high sensitivity contrast imaging is realized by Variable Beamformer and high sensitivity transducers.

Detective Flow Imaging (DFI)

Imaging technology for visualization of low velocity blood flow below the previous detection threshold. A unique algorithm displays fine blood flow with greater resolution and sensitivity.



Treatment Real-time Virtual Sonography (RVS)

MPR images constructed from CT/MRI/PET-CT volume data can be synchronized to real-time ultrasound imaging. It is applied in a wide variety of clinical fields: such as for Abdomen, Breast, navigation in prostate puncture, and so on.

Volume data | US Imaging



Body Motion Tracking

The omniTRAX Active Patient Tracker (manufactured by CIVCO) facilitates registration of fused images when used at the time of CT/MR image acquisition; with the synchronized status being updated when small movements in the patient position are detected during the RVS examination.

Needle Tracking

VirtuTRAX Bracket (manufactured by CIVCO) can track and display the needle tip location during RFA.

Cardiovascular

PURE IMAGE
YOUR APPLICATION
SEAMLESS WORKFLOW

EMPOWERING
YOUR
ULTRASOUND

In the modern age where the number of elderly and lifestyle-related disease patients are increasing at an accelerating pace, ultrasonic examination requires efficiency. ARIETTA 750SE automates important operations in cardiovascular examination to enable rapid and accurate diagnostics from blood vessels to the heart.

SEAMLESS WORKFLOW

Cardiac Functions

Supports automated measurement package based on Hemo Dynamic Structural Intelligence (HDSI), which is a unique analysis technology incorporating A.I. EyeBallEF measures ejection fraction (EF) automatically via the M.Simpson method.

•Beat Mode: ED/ES auto detection •Doppler Cursor Assist: Auto setting of sample gate position •LV, LA, RA Volume auto measurement

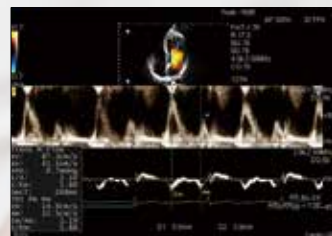


Intelligent Series

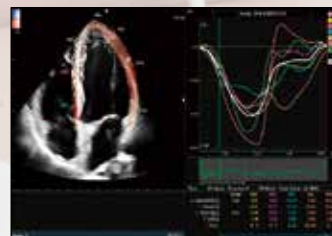
iDGD (Dual Gate Doppler+R-R Navigation)

E/e', one of the key LV diastolic performance indices, is measured automatically in Dual Gate Doppler use. By using this in combination with R-R Navigation, iDGD detects an optimum heartbeat automatically, making it effective for arrhythmia cases.

•Dual Gate Doppler: Enables observation of Doppler waveforms from two different locations in the same heart cycle.
•R-R Navigation: Enables the detection of a stable R-R interval automatically.



Measurement time: Approx. 5 seconds
83% reduction in time taken
(approximation compared to conventional systems)

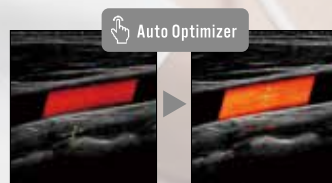


i2DTT

Conducts various measurements via the 2D tracking method fully automatically. One of them, Global Longitudinal Strain (GLS), is attracting attention in heart failure examinations.

iVascular

Settings like the position of Color ROI and cursor can be set by a single click operation in Doppler examination of a vessel. Convex transducers are supported as well. Additionally, it is possible to measure the Intima-Media Thickness (IMT) automatically by AutoIMT.



40% reduction in time taken
(approximation compared to conventional systems)



YOUR APPLICATION

Unique functions to support more detailed evaluation of hemodynamics are supported.

LinearCW/ConvexCW

eTRACKING

Wave Intensity (WI)

Women's Health

PURE IMAGE
YOUR APPLICATION
SEAMLESS WORKFLOW

EMPOWERING
YOUR
ULTRASOUND

High-definition diagnostic images of the ARIETTA 750SE enable detailed fetal morphological examination. In addition, we provide a variety of diagnostic information through our unique applications. We support early diagnosis and treatment, and provide peace of mind to patients and users.

SEAMLESS WORKFLOW

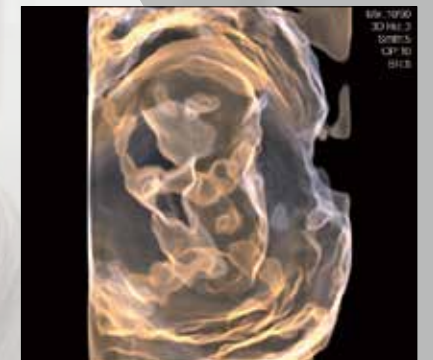
Auto EFW

Assists a smooth measurement of Estimated Fetal Weight (EFW) by analyzing the characteristics of the target and providing automatic setting of the measurement point.

YOUR APPLICATION

4Dshading/4Dtranslucence/Curved MPR

4Dshading is a mode used to express a realistic natural shading like a light is being cast. 4Dtranslucence extracts the tissue boundaries and superimposes them to enable the display of intracavity structures of the brain, digestive tract, and so on. Additionally, Curved MPR displays a plane on an arbitrary curved line. Able to display a curved plane of organs like the spine, uterus, and so on.



Spatio-temporal Image Correlation (STIC)

Constructs the volume data of 1 heartbeat from the data collected during scanning. It is possible to observe the heart motion, and useful to understand the structure of fetal heart stereoscopically.

Dual Gate Doppler

Enables observation of Doppler waveforms from two different locations during the same plane. The rhythm of atrial and ventricle contraction can be evaluated more easily than conventional methods in fetal arrhythmia cases.

