



1.1. Ultragarso
sistema Arietta
850SE



ARIETTA 850SE

**THE NEXT EVOLUTION
IN ULTRASOUND**



Greater examination precision, greater comfort, and a wider range of applications are now possible with ultrasound imaging. In response to the ever increasing expectations of the medical profession, diagnostic equipment continuously evolves. Image quality, workflow, and applications are three key functional areas where we have made a determined effort to refine fundamental performance, with the goal of creating the ultimate ultrasound platform. Flexibly responding to users' individual needs across the range of clinical disciplines, this premium ultrasound platform brings diagnostic imaging without compromise.

It's ARIETTA 850SE, the next evolution in ultrasound.

EVOLVED TO FIT
YOUR SIGHT

PURE IMAGE

Further refinement of technologies that hone the high quality 'sound' gives rise to our highest premium class performance yet.

EVOLVED TO FIT
YOUR TOUCH

SEAMLESS WORKFLOW

Designed with sophisticated ergonomics and multiple new tools that streamline your workflow.

EVOLVED TO FIT
YOUR PROCESS

YOUR APPLICATION

An extensive variety of unique applications that create new clinical value are on offer across all specialties.

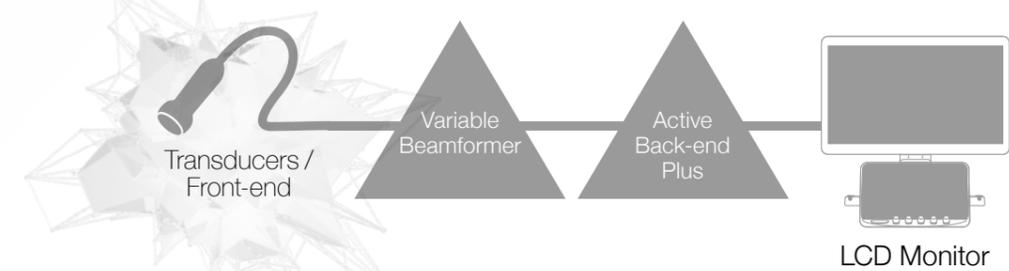
ARIETTA 850SE
The Next Evolution
in Ultrasound,
designed for high
expectations

EVOLVED TO FIT
YOUR SIGHT

PURE IMAGE

ARIETTA 850SE

PURE SYMPHONIC ARCHITECTURE



Transducers / Front-end

Single Crystal

Piezoelectric single crystal technology is applied to both convex and sector transducer elements. The excellent piezoelectric properties of single crystals are used to generate ultrasound with high sensitivity and wide bandwidth resulting in superior quality imaging.



4G CMUT

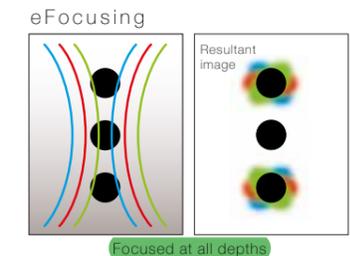
The evolution of CMUT (Capacitive Micro-machined Ultrasound Transducer), using next-generation silicon wafer technology has brought the full complement of ultrasound examination modes into practical use. With super wide frequency bandwidth and high sensitivity the enhanced resolution is maintained in the far field. 4G CMUT can deliver a one-probe solution for a wide range of ultrasound examinations.



Variable Beamformer

eFocusing

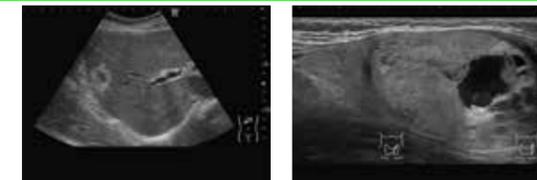
The eFocusing transmission and reception technology newly developed for ARIETTA 850SE significantly improves S/N and reduces focal dependency. Outstanding clarity of clinical images from near to far field with less patient dependency is achieved.



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Active Back-end Plus

Active back-end is the powerful image processing engine developed to realize fast complex arithmetic computations and Carving Imaging is the next level in image quality, providing imaging with outstanding definition.



Carving Imaging

Advanced image technology producing images with "Clearer Visibility". Stable imaging with less patient dependency helps you achieve clearer images with less noise, made possible by our new image processing technology that enhances tissue structure visibility.



LCD Monitor

The ARIETTA 850SE has adopted the latest technology, 23 inch wide LCD Monitor for an optimum image display. With a high contrast ration and wide viewing angle, the LCD monitor provides a detailed representation of the displayed image.



Technologies fostered by FUJIFILM to hone the high quality 'sound' have evolved further giving life to Pure Symphonic Architecture. The combination of transducer/ front-end, variable beamformer, active back-end, and 23 inch LCD monitor – all these technologies work together to realize the highest level of premium class performance.

EVOLVED TO FIT
YOUR TOUCH

SEAMLESS WORKFLOW

ARIETTA 850SE

The ergonomic design of the ARIETTA 850SE minimizes operator fatigue. Supporting seamless workflow, the many easy-to-use functions shorten examination time and provide a more comfortable examination environment. As a result, the patient experience is also improved.

5-Switch System / Operating Console

The core 5-switch layout combined with trackball priority selection display on the monitor streamlines the workflow for more advanced functions, such as 3D measurement and analysis.



Protocol Assistant

Prior registration of routine protocols significantly reduces the operation steps necessary during the examination. Prompts for image store, alerts of mistaken image store repeats, all contribute to increased examination efficiency, accuracy and throughput.

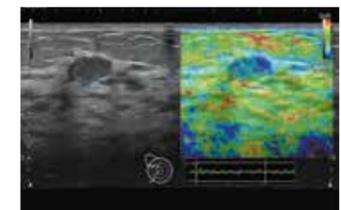
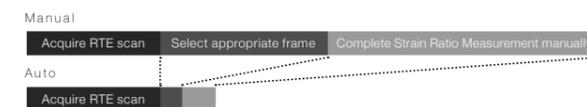


Automated Measurement

Numerous automated functions implemented in ARIETTA 850SE enhance workflow.

Combined Setting of AFS/ASR

Auto Frame Selection (AFS) picks out the appropriate frame for measurement in Real-time Tissue Elastography (RTE). Assist Strain Ratio (ASR) automatically locates the measurement ROI. Complex, repetitive measurement steps can now be completed using a single button.



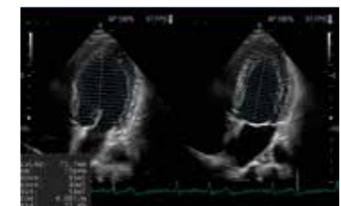
Estimated Fetal Weight (EFW)

By analyzing the characteristics of the target and providing automatic setting of the measurement point, Auto EFW automates the routine measurement for fetal growth evaluation.



Cardiac Function

Automatic detection with dual screen display of End-diastolic/End-systolic images (ED/ES), automatic setting of sample gate location, and automatic detection of LV/LA/RA endocardial border with volume measurement are implemented into the cardiac examination workflow.



EVOLVED TO FIT
YOUR PROCESS

YOUR APPLICATION

ARIETTA 850SE

ARIETTA 850SE performs within an extensive variety of advanced applications that offer support across a broad clinical range. With efficient assistance for rapid and accurate diagnosis, treatment guidance, and research opportunities, FUJIFILM creates new clinical value.

Evolving RVS Features

Since its release in 2003, FUJIFILM's Real-time Virtual Sonography (RVS) has continued to evolve to meet clinical needs. Significant further developments have been introduced with the ARIETTA 850SE.

Body Motion Tracking

Body motion tracking facilitates automatic 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

Needle Tracking can track and display the needle tip location in real time during RFA and other interventional procedures.

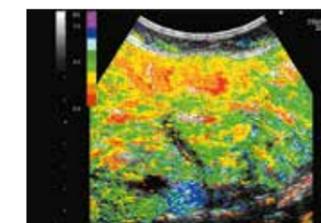
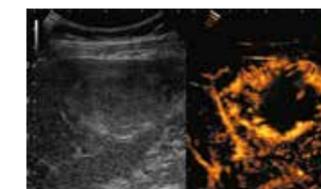
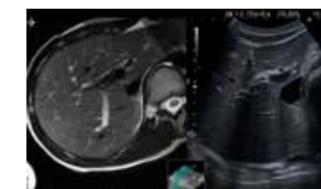
Contrast Harmonic Imaging (CHI)

Contrast enhanced ultrasound is used widely for clinical diagnosis. Benefitting from its variable beamformer and high density transducers, ARIETTA 850SE achieves a new level of performance in contrast agent detection.

Inflow-time Mapping (ITM)

ITM is a parametric display of the contrast agent time-to-peak enhancement, colourizing tissues according to their enhancement pattern.

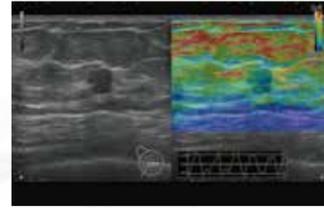
Volume data | US Imaging



Elastography

Real-time Tissue Elastography (RTE)

RTE assesses tissue strain in real time and displays the measured differences in tissue stiffness as a colour map. Its application has been validated in a wide variety of clinical fields: for the breast, thyroid gland and urinary structures. Using the abdominal convex transducer, it can also provide an estimation of fibrosis staging in patients with hepatitis C (LF Index).



Shear Wave Measurement (SWM)

Shear waves are generated using a 'push pulse' to excite the tissues. SWM provides an assessment of tissue stiffness by calculating the propagation velocity of the shear waves. FUJIFILM's SWM provides an additional reliability indicator, VsN, as an objective evaluation of the Vs measurement. Judge the degree of liver steatosis with attenuation (ATT) measurement to assess diffuse liver disease.



Shear Wave Elastography (SWE)

Easily quantify liver tissue elasticity - and visualise it in real time with our 2D Shear Wave Elastography and achieve a precise scoring of the fibrosis level in a non-invasive and reliable way.



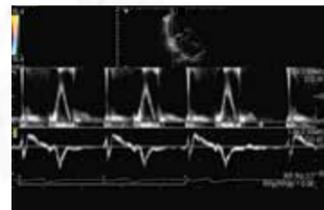
Fetal 3D/4D

Three- and four-dimensional imaging can play a role as a prenatal communication tool connecting parents with their fetus. Auto Clipper automatically defines the optimal cut plane removing placental or other unwanted tissue signals in front of the fetus, offering a clear surface-rendered fetal image.



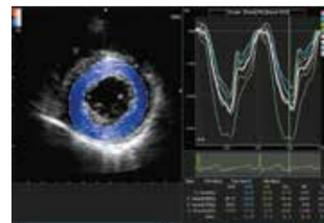
Dual Gate Doppler

This function enables observation of Doppler waveforms from two different locations during the same heart cycle. A combination of blood flow and Tissue Doppler waveforms allow measurements such as the LV diastolic performance indicator, E/e' ratio, avoiding beat-to-beat variation. Simple measurements from two different waveforms can also be useful in the diagnosis of fetal arrhythmia.



2D Tissue Tracking (2DTT)

Quantify the movement of the entire left ventricle or simply a local movement of the myocardium. Pattern matching technology to follow the point of interest can be used to evaluate changes in chamber size and phase.



EyeBallEF

EF (Ejection Fraction) is automatically measured from real-time analysis of the B mode image. Frame selection and tracing can be semi-automated, with resultant reduction in examination time.



23 inch LCD Monitor

10.4 inch Touch Panel

Storage Space



5-SW System

Cable Management



4 Active + 2 Parking Transducer Connector Ports

Double Wheel Casters + Front Lock





ARIETTA 850SE

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- This brochure may contain descriptions of optional functions and products.
- 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.

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