FUJIFILM
Value from Innovation

22 inch OLED Monitor

Flexible Monitor Arm

10.4inch Touch Panel

Storage Space

5SW System

Cable Management

4 Active + 2 Parking
Probe Connector Ports

(W) 550 × (D) 900 × (H) 1220 to 1695mm

Weight : 145kg ±10% Standard Configulation

Power Capacity : AC100 、50/60Hz、Max. 900VA

ARIETTA 750 DeepInsight

●ARIETTA, DeepInsight, eFocusing, Carving Imaging, Real-time Tissue Elastography, Real-time Virtual Sonography, and 4Dshading are registered trademarks or trademarks of Fujifilm Healthcare Corporation in Japan and other countries. ●FUJIFILM and FUJIFILM logo are registered trademarks or trademarks of FUJIFILM Corporation. ●ARIETTA 750 DeepInsight is one of the ARIETTA 750 series. ●This brochure is translated literally from the Japanese brochure. AI was used in the development process, and it is described based on the Japanese regulation. ●This product may not be available in some countries/territories. ● Please contact Fujifilm Healthcare representative for details. ●Fujifilm Healthcare has been developing AI technologies that can be used for medical image diagnosis support, medical workflow support, and maintenance services for medical equipment, and is developing technologies that can be used in these areas under the brand name "REiLI".

FUJIFILM

Powered by
REiLI

Redefining the way we see

DeepInsight

Fujifilm Healthcare has been at the forefront of technology and product developments, responding to the challenges of users, throughout their history, since the birth of diagnostic ultrasound imaging.

An ultrasound system is an indispensable diagnostic tool in numerous medical fields, and can even provide advanced imaging support in surgical environments.

Fujifilm Healthcare's ultrasound systems are designed to meet the ever-increasing expectations for precision in image quality, efficiency of examination and accuracy in diagnosis.

Fujifilm Healthcare will continue to pursue increased depth of image enhancement by implementing all the technologies it has developed to continually meet the challenges ahead.

Fujifilm Healthcare's vision for the future of ultrasound imaging is "DeepInsight".

It represents Fujifilm Healthcare's confidence in delivering the highest quality images and their determination to continue to innovate in order to reach ever higher standards of diagnostic imaging confidence

Redefining
the way we see

Fujifilm Healthcare believes that innovation within 5 essential elements is required to achieve optimal ultrasound imaging.
These are encompassed by "DeepInsight"

DeepInsight, which is an advanced noise reduction technology, eFocusing PLUS and Carving Imaging. The combination of these technologies enhances the signal from the tissues and delivers higher image quality with far less examiner dependency.

Reproducibility
Maintain image quality without inter-examiner and inter-patient variation.

Accuracy
Improve signal to noise ratio (S/N) without compromising resolution.

Visibility
Deliver images that enable examiners to recognize abnormalities even in the most challenging cases.

Deep-Insight

Utilization of AI
Provide an enhanced level of diagnostic image quality with DeepInsight Technology, utilizing AI technology*.

Efficiency
Reduce the process of image optimization providing high quality diagnostic images.

DeepInsight Technology REiLI

DeepInsight technology, which utilizes AI technology* for image enhancement, extracts only the necessary information from a vast amount of data, delivering clearer representations of fine and complex tissue structures that could, until now, have been masked by noise. A more natural representation of the tissue structure is achieved.

Transducer — Signal Processing — Ultrasound image — NOISE REDUCTION PROCESSING — AI
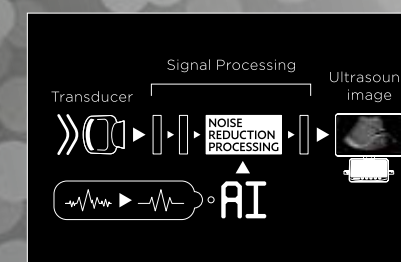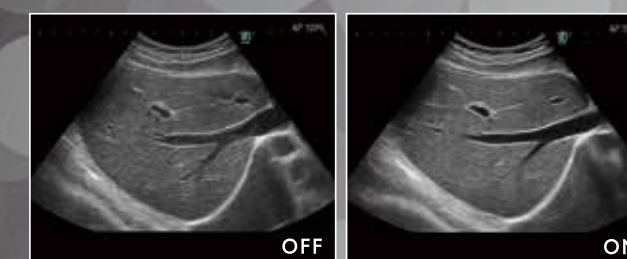
eFocusing PLUS

The eFocusing technology acquires multiple received beams from a single transmission and combines them to display a single image in real-time. The ARIETTA 750 DeepInsight has evolved the eFocusing technology further by incorporating multiple frequencies to achieve high sensitivity, high contrast, and high spatial resolution.

Resultant image

Focused at all depths
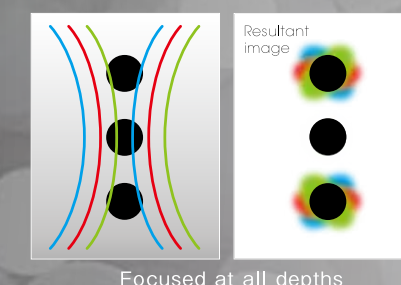
Carving Imaging

Images with "Clearer Demarcation" are produced by our advanced image processing technology that enhances tissue structure. Delivering stable imaging with less patient dependency.

OFF ⟷ ON

*The technology was developed and designed using machine learning, one of AI technologies.
The performance and accuracy of the system does not automatically change after implementation.

Immerse Yourself
in Imaging Excellence

## Designed for medical professionals

Advanced image quality for superior representation of internal structures, hemodynamics, usability that supports the accuracy and efficiency of ultrasound examinations and innovative applications. The new-generation ultrasound system featuring technologies to achieve "DeepInsight" proposed by Fujifilm Healthcare for diagnostic ultrasound. The cost performance, which is essential for the smooth introduction and operation of a system, is focused simultaneously with clinical performance. ARIETTA 750 DeepInsight will work with users to create the future of diagnostic ultrasound within the medical environment.
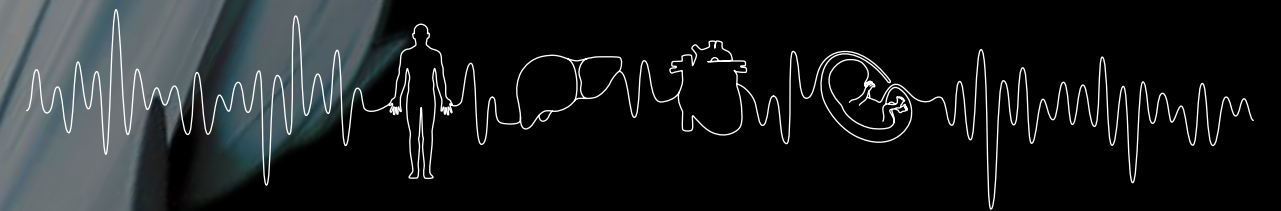
PURE IMAGE

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

Pure Symphonic Architecture

Transducers / Frontend → Variable Beam-former → Active Backend Plus → OLED Monitor
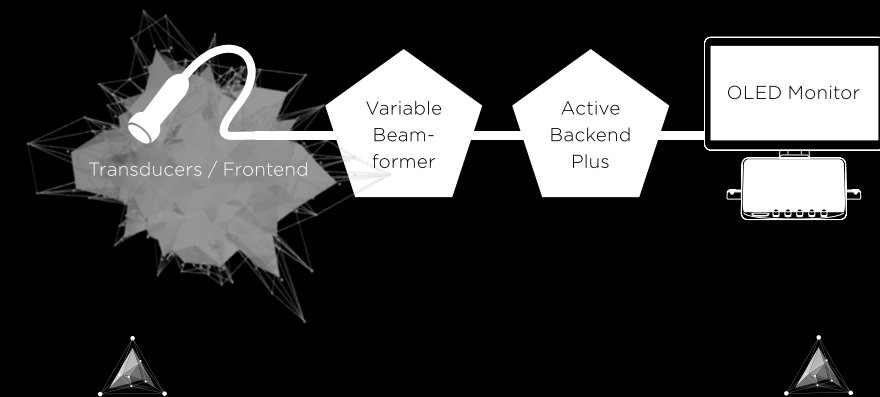
SEAMLESS WORKFLOW

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

YOUR APPLICATION

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

ARIETTA 750 DEEPINSIGHT

Sense and Visualize
Ultrasound

ARIETTA 750 DeepInsight

Radiology

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.
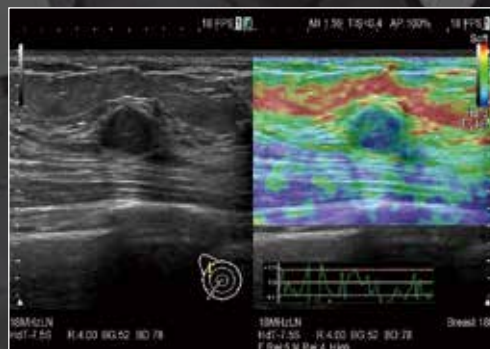
Your Application
〔Diagnostic Support〕

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 including the breast, and it is possible to calculate an estimated elasticity value for liver fibrosis staging.

[Shear Wave Measurement (SWM) / iATT]

It is possible to evaluate tissue stiffness by generating shear waves and measuring Vs (propagation velocity in tissue). iATT measures an index (ATT) to estimate fatty liver quantification. The narrowing of the analysis area and the guided display make it easy to set the ROI therefore avoiding multiple reflections and structures such as blood vessels that would interfere with ATT measurement.

Your Application
〔Treatment Support〕

Real-time Virtual Sonography (RVS)

MPR images constructed from CT/MRI/PET-CT/US 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.
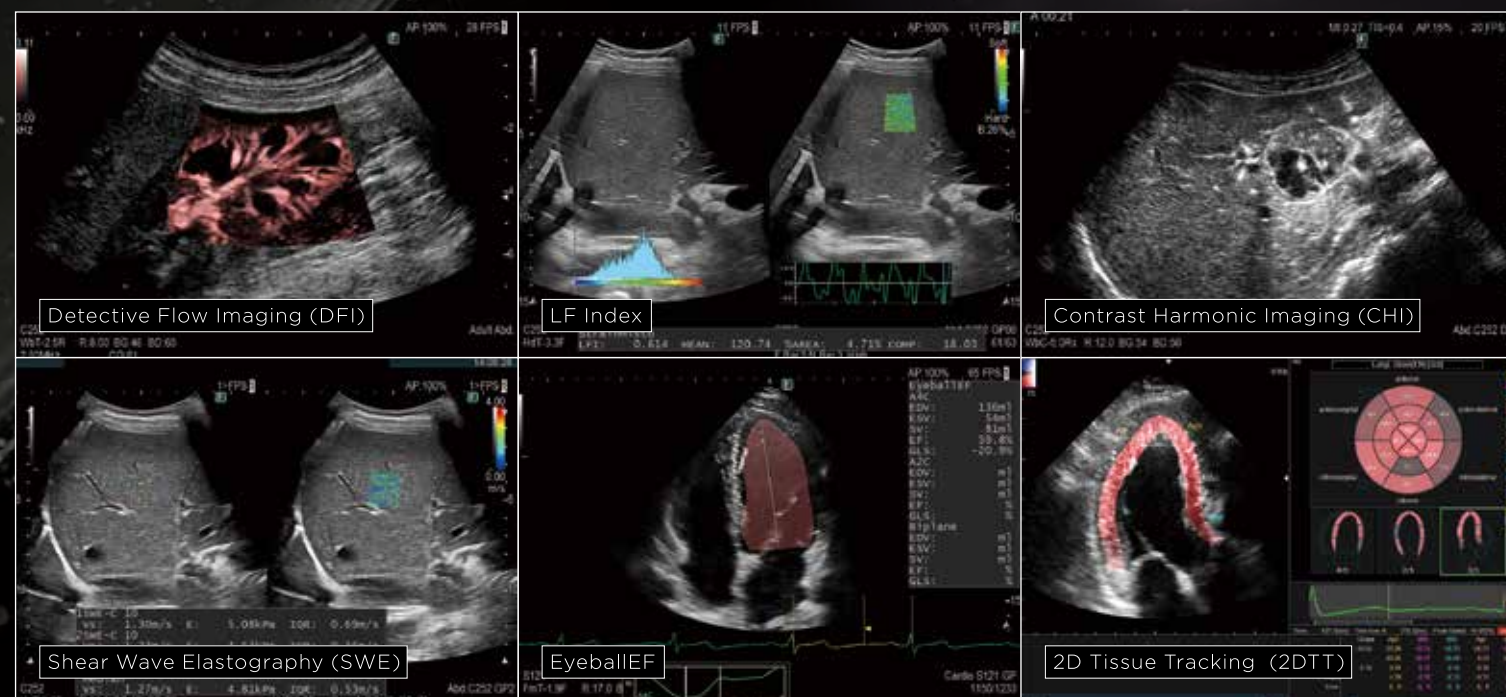
3D Sim-Navigator / E-field Simulator

Provides simulation of single or multiple needle paths during navigation to a target with Real-time Virtual Sonography (RVS). The positional relationship between the marked target and needle paths can be assessed in real time using the 3D body mark and C-plane display. E-field Simulator superimposes the electric field (E-field) from the given location of electrodes on the CT image during RFA treatment. The simulation of E-field allows to consider an effective needle path.

Image Gallery

Detective Flow Imaging (DFI)

LF Index

Contrast Harmonic Imaging (CHI)

Shear Wave Elastography (SWE)

EyeballEF

2D Tissue Tracking (2DTT)

Cardiology

◭ Seamless Workflow

Cardiac Function
Powered by REiLI

Supports the automated measurements which are effective for cardiovascular examinations using AI technology*. Users can perform examinations smoothly and efficiently.
· Doppler Cursor Assist: Auto setting of sample gate position
· LV, LA, RA Volume auto measurement

Intelligent Series
Powered by REiLI

[iDGD]

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 waveform from two different locations in the same heart cycle.
· R-R Navigation: Enables the detection of a stable R-R interval automatically
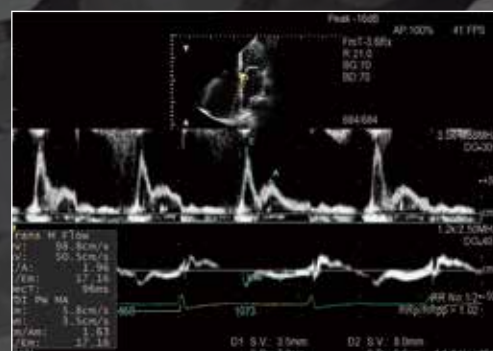
[i2DTT]
Powered by REiLI

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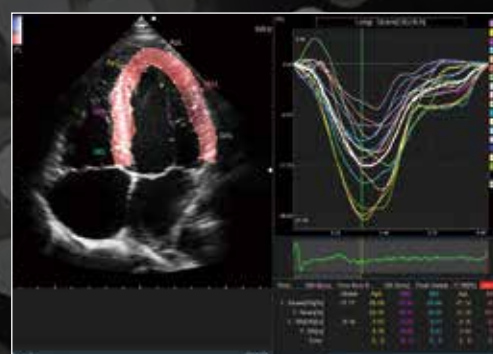
◭ Your Application

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

[Linear CW / Convex CW] [eTracking] [Wave Intensity(WI)]

Women's Health

◭ 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]

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.

[Dual Gate Doppler]

Enables the observation of Doppler waveforms from two different locations during the same heartbeat. The rhythm of atrial and ventricular systole can be evaluated more efficiently than single Doppler methods in fetal arrhythmia cases.
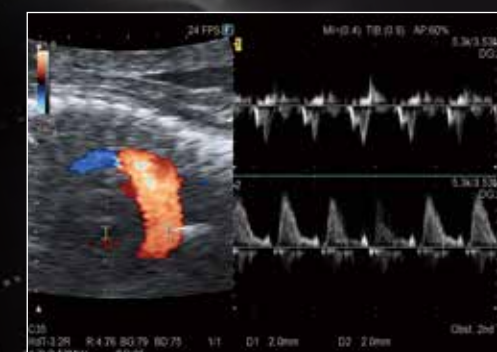
[AutoFHR+ / AutoFS]

AutoFHR+ calculates the fetal heart rate automatically by tracking the movement of the fetal heart from a B mode image in real time. This function is available on both transabdominal and transvaginal transducers, so the fetal growth can be assessed from early gestation onwards. AutoFS tracks fetal heart movement from a B mode image and automatically calculates %Fractional Shortening (%FS). Unlike the M-mode method, AutoFS is not affected by a change in the fetal position, so heart movement can be measured accurately.

* Developed and designed using machine learning and/or deep learning, both subsets of AI technologies.
  The performance and accuracy of the system does not automatically change after activation.