FUJIFILM
Value from Innovation

ARIETTA 750 LE

Flexible Monitor Arm

22 inch OLED Monitor

Storage Space

10.4 inch Touch Panel

Cable Management

5-SW System

4 Active
+2 Parking Probe
Connector Ports

Security Box*

(W) 550 × (D) 900 × (H)1220 ～ 1695 mm ± 10%

Weight: 136kg ± 10% (Standard configuration)

HDD: 1TB

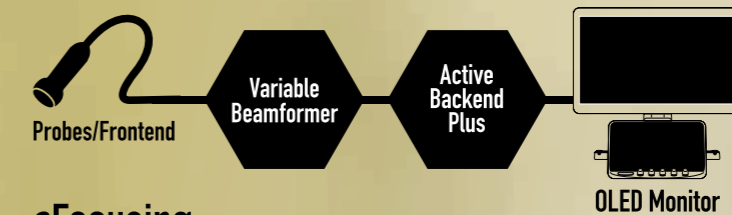Power Capacity: AC100 to 120, 200 to 240V, 50/60Hz, Max. 900VA
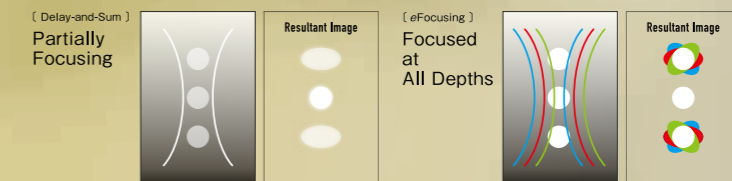
*Option

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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.

Probes/Frontend — **Variable Beamformer** — **Active Backend Plus** — OLED Monitor

*e*Focusing

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

[Delay-and-Sum] Partially Focusing — Resultant Image

[*e*Focusing] Focused at All Depths — Resultant Image

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.

OFF | ON

EMPOWERING YOUR ULTRASOUND

Accuracy, safety, and high cost performance are required for ultrasound diagnosis.
Our answer is ARIETTA 750LE inherited premium performance
with matured cutting-edge technology.
Advanced techonologies provide seamless workflow and expand your capability.
ARIETTA 750LE will transform your ultrasound diagnosis.
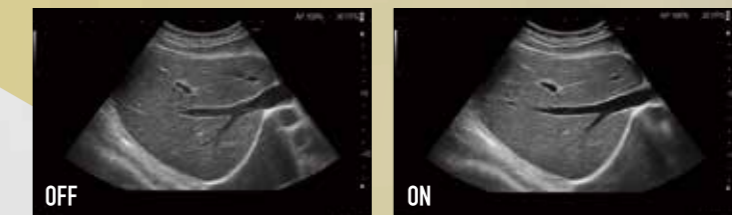
YOUR APPLICATION

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.
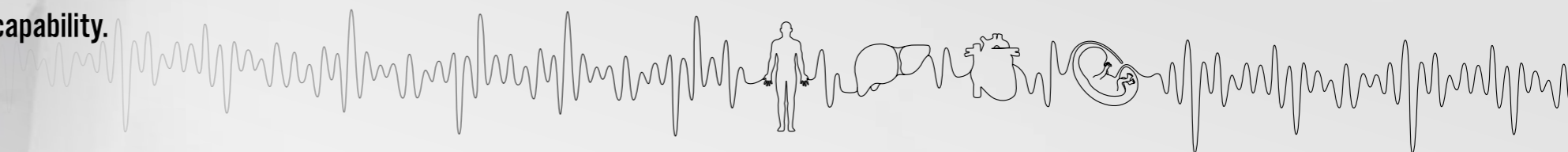
Radiology

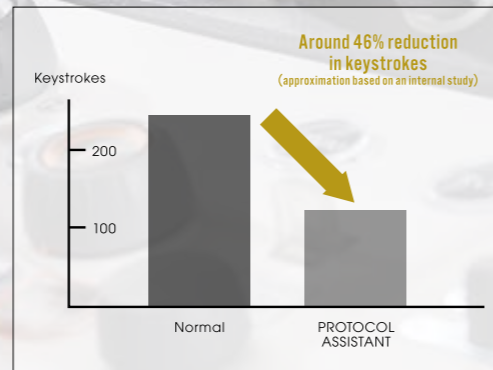PURE IMAGE — **EMPOWERING**
YOUR APPLICATION — **YOUR**
SEAMLESS WORKFLOW — **ULTRASOUND**

Modern medical technology has enabled early detection and treatment
of many diseases. ARIETTA 750LE provides high sensitivity
and resolution to achieve high image quality required by modern medicine.
We handle a wide range of clinical needs by supporting
accurate and safe treatment with more applications.

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.
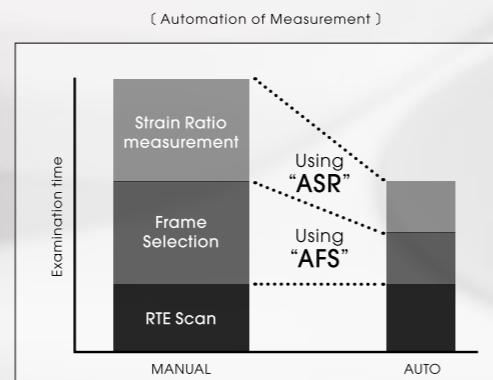
Around 46% reduction in keystrokes
(approximation based on an internal study)

Keystrokes

200

100

Normal | PROTOCOL ASSISTANT

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.

Combined Setting of AFS/ASR

Auto Frame Selection (AFS) picks out the appropriate frame for measurement in Real-time Tissue Elastography. Assist Strain Ratio (ASR) automatically locates the measurement ROI. Highly reproducible measurements can be conducted easily.

〔 Automation of Measurement 〕

Examination time

Strain Ratio measurement

Using "ASR"

Frame Selection

Using "AFS"

RTE Scan

MANUAL | AUTO

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)/ATT

It is possible to evaluate tissue stiffness by generating shear waves and measuring Vs, its propagation velocity in the tissue. The indicator to estimate the degree of steatosis (ATT) is measured simultaneously. Combi-Elasto, which integrated RTE and SWM, is expected to be used for cases which is difficult to diagnose though only using SWM.
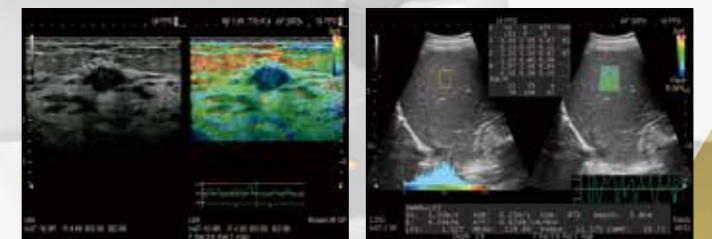
Contrast Harmonic Imaging (CHI)

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)

Since its release in 2003, Real-time Virtual Sonography (RVS) has continued to evolve to meet needs in clinical practice.

3D Sim-Navigator

Provides simulation of needle paths in real time during navigation with Real-time Virtual Sonography (RVS). The positional relationship between the target and needle paths can be understood stereoscopically using a 3D body mark, reconstructed from the volume data, and C-Plane display.

E-field Simulator

The electric field (E-field) from the given location of electrodes is superimposed on the CT image during RFA treatment. The simulation of E-field can be made according to the position of each electrode to consider an effective needle path.

N1(Y) - N2(R): 18mm
N2(R) - N3(B): 14mm
N3(B) - N1(Y): 16mm

0.75

0.25
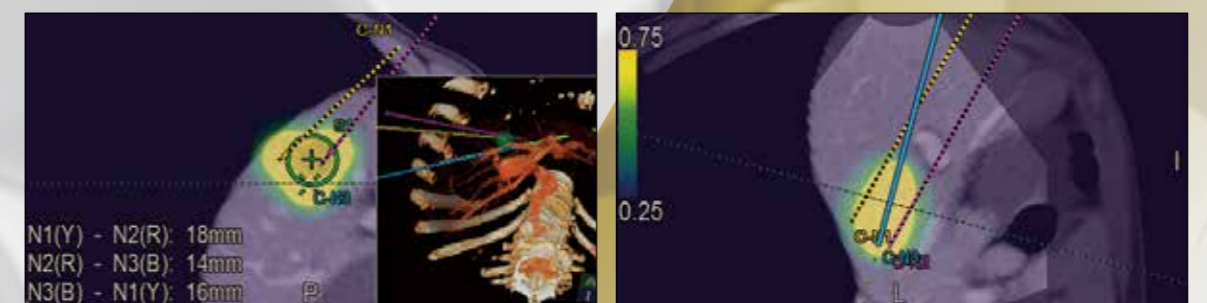
Body Motion Tracking

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

In recent years, aging has increased globally, so interests in diagnosis of heart failure, which is common among the elderly, has also been increasing. ARIETTA 750LE greatly reduces the dependence on the examinee with its high image quality and numerous examination workflow support functions, and provides safe and efficient examination for diagnosis and follow-up of heart failure.

SEAMLESS WORKFLOW

Cardiac Functions

Supports automated measurement package based on Hemo Dynamic Structural Intelligence (HDSI), which is a unique analysis technology incorporating AI. 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
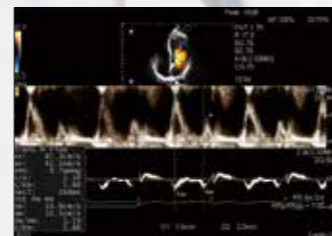
Intelligent Series

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.

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.
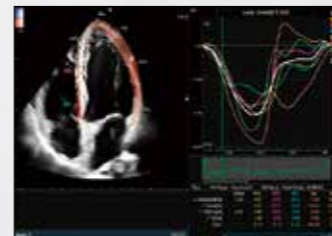
iVascular

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 Auto IMT.
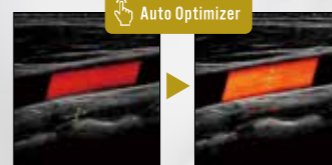
YOUR APPLICATION

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

LinearCW/ConvexCW

eTRACKING

Wave Intensity (WI)

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

Auto Optimizer

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

Women's Health

High image quality provided by ARIETTA 750LE is useful for accurate evaluation of fetal morphology. The equipment is also accompanied with applications dedicated to observation of fetal hearts to support early diagnosis and treatment of high-risk pregnancies.

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.

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.
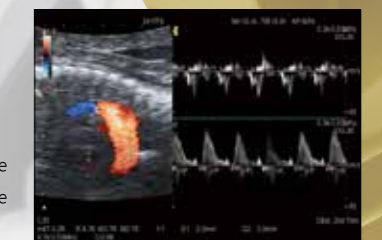
AutoFHR+/Spatio-temporal Image Correlation (STIC)

The fetal heart rate can be automatically calculated by tracking the movement of the fetal heart from a B mode image in real time. This function is available on the transvaginal transducer as well, so the fetal growth can be assessed from early gestation onwards. Additionally, it is possible to understand the structure of fetal heart stereoscopically by using STIC.

AutoFS

Tracks fetal heart movement from a B mode image and automatically calculates %Fractional Shortening (%FS). Unaffected by a change in the fetal position in the mother's breathing, heart movement can be measured accurately.