

FUJIFILM

Value from Innovation

— Ultrasound —

LISENDO 880

CARDIOVASCULAR

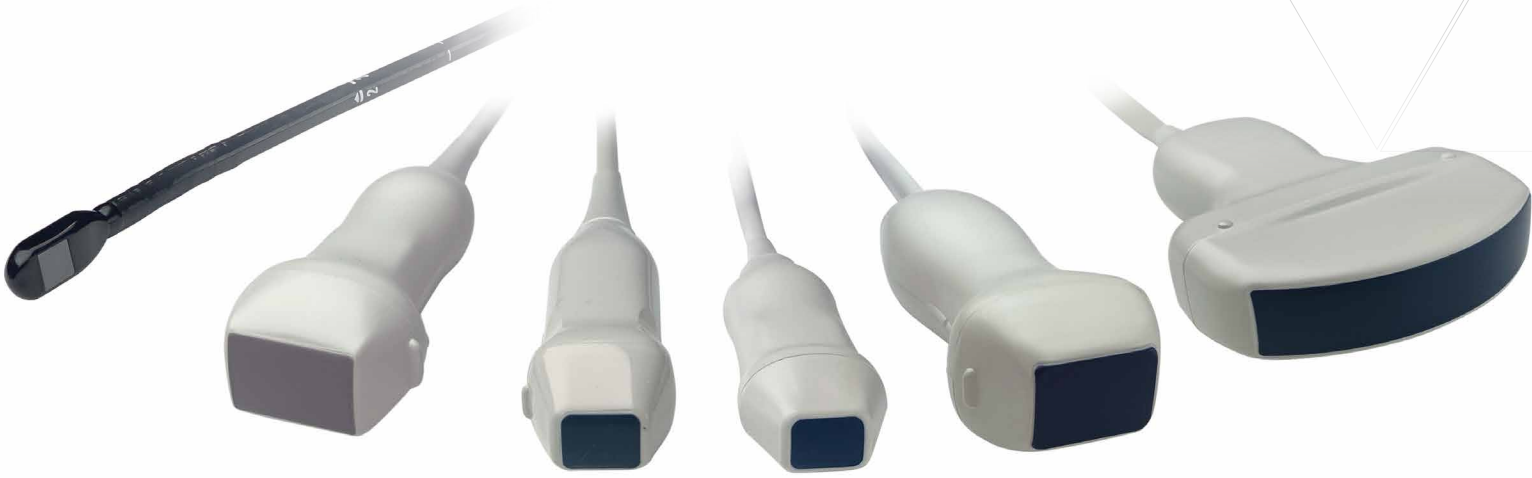


the new vision for cardiovascular ultrasound



LISENDO 880

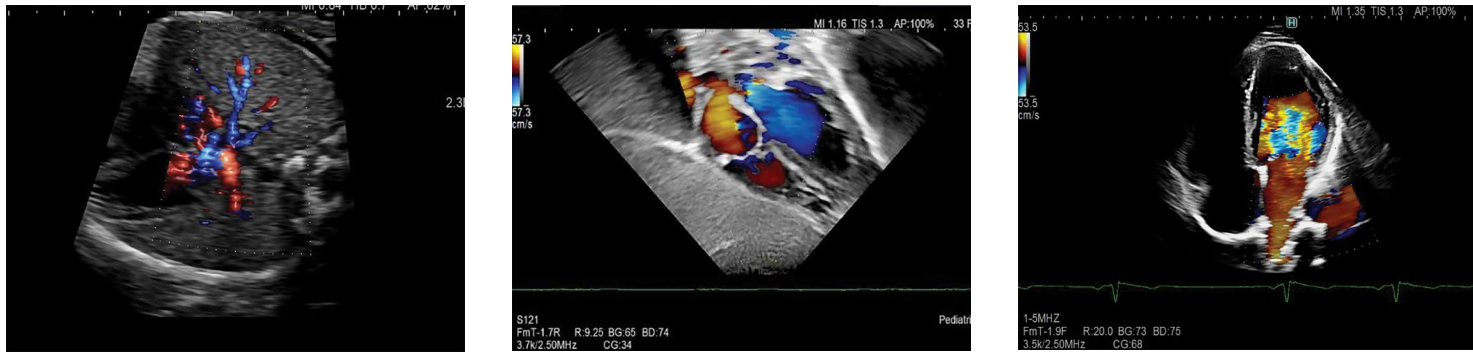
Redefining the Vision for Cardiovascular Ultrasound



Designed by cardiologists...For all cardiologists

The advanced architecture of the LisenDo 880 offers state of the art probe technology for 2D and 3D imaging, a high performance OLED display, premium image optimization parameters such as eFocus and Pure Symphonic Architecture to capture the subtlest of changes and produce the highest-quality "sound".

When it comes to heart disease, a prompt and accurate diagnosis is often vital. From fetal to elderly care, early detection remains crucial and Fujifilm is dedicated to help clinicians achieve that with highly specialized solutions on one system that detects early signs of structural abnormalities, 3D/4D visualization for detailed diagnosis of cardiac functions, heart failure and quick quantifiable tools for consistent results across all generations.



Fujifilm continues to listen to the experts, **our Cardiologists**, by developing an ultrasound system specifically designed for Cardiology.

Fujifilm is committed to designing tools that help Cardiologists evaluate the cardiovascular system and provide the necessary information to immediately make critical decisions.

With the LISENDO 880 **the next level** of innovation in Fetal, Pediatric and Adult echo.

Visualize

LISENDO 880

Redefining the Vision for
Cardiovascular Ultrasound

HDAnalytics

ADVANCED HEMODYNAMIC SOLUTIONS FOR ECHO

Understanding the Hemodynamics of the heart is essential when assessing cardiovascular performance

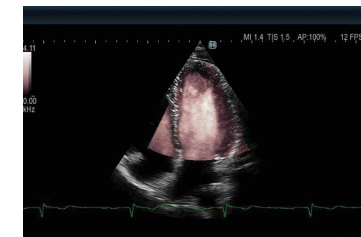


Innovation



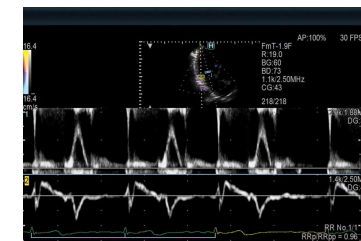
VFM

Vector Flow Mapping is a technique to visualize blood flow and flow velocity in the heart, which enables easy acquisition of vector distributions of cardiac and vascular lumens obtained by B-Mode color Doppler. Vector Flow Mapping evaluates hemodynamics in the heart in a whole new way, identifying flow direction, vorticity, energy loss, wall stress, and relative pressure with one loop capture.



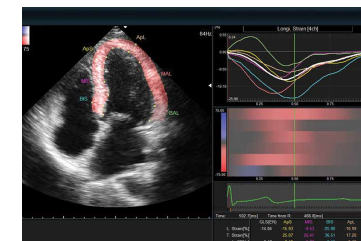
LV eFLOW

LV eFLOW is a noninvasive, high-definition blood flow imaging mode which drastically improves spatial and temporal resolution to improve visualization of the endocardial border in the left ventricle with higher sensitivity and resolution than with conventional methods. LV eFlow may change a technically difficult study into a diagnostic study without using contrast.



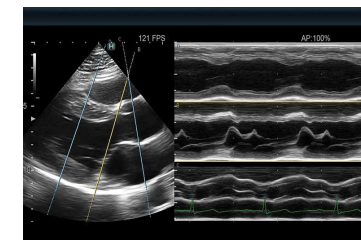
Dual Gate Doppler

Enables observation of Doppler waveforms from two separate locations simultaneously. Measurements such as the E/e' ratio, isovolumetric contraction and relaxation times and evaluation of dyssynchrony in septal and lateral walls, can be obtained during the same heart cycle, eliminating beat-to-beat variation.



2D Tissue Tracking (2DTT)

Provides precise quantification of left strain and strain rate for the left and right ventricles and the left atrium to visualize, quantify and analyze regional and global myocardial mechanics using 2D speckle tracking.



Free Angular M-Mode (FAM)

Three M-Mode lines can be set at any position and angle simultaneously, for diagnostic evaluation of wall and valve motion from multiple points within the same heart cycle.

LISENDO 880

Redefining the Vision for Cardiovascular Ultrasound

Hemodynamic Structural Intelligence (HDSI)

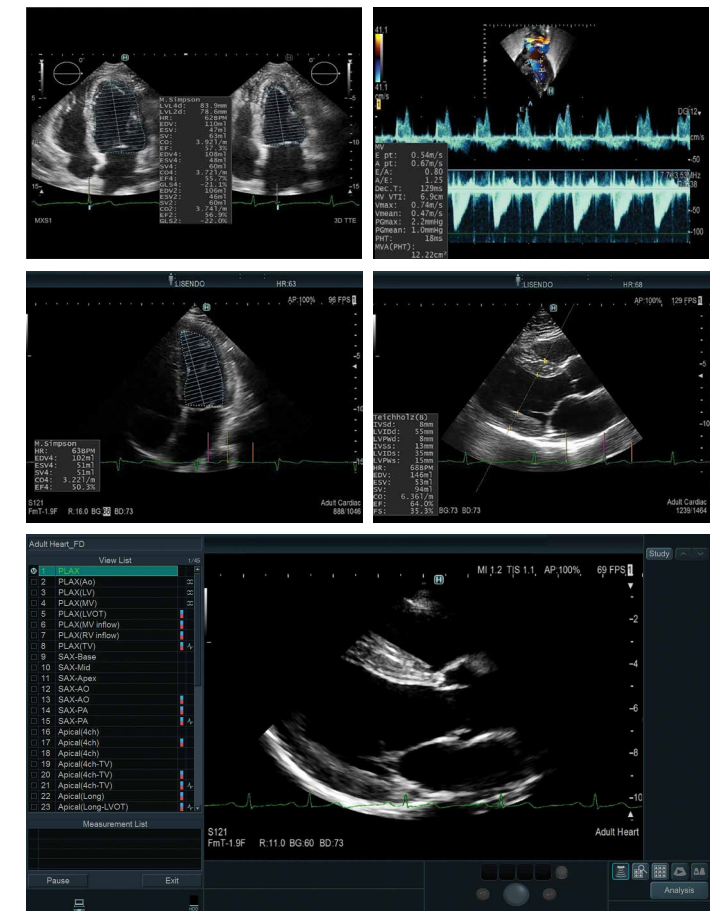
iEF Automated calculation of Ejection Fraction from 3D volume data. The Biplane images (4ch and 2ch) are displayed with ED/ES frames selected automatically.

iDGD (intelligent Dual Gate Doppler) automatically detects Mitral Valve inflow and annulus locations to set two separate PW and TDI gates, displays the Doppler waveforms and automatically measure the E/e' in 5 seconds

R-R Navigation automatically detects appropriate heartbeats for measurement in patients with irregular heartbeats

Automated Anatomical and Structural Intelligent Measurement

- **Auto LV, LA, and RA Volumes and FAC** Left Ventricular, Left Atrium and Right Atrium volumes and the Fractional Area Change in the Right Ventricle are automatically measured
- **Auto LA/Ao** LA diameter in systole and Aortic diameter in Diastole are detected and measured automatically
- **Auto EF** Automated Teichholz ejection fraction is measured in 2D or M-Mode.
- **Beat Mode** Automated detection of End Diastolic & End Systolic frames based on the R wave
- **Protocol Assistant** Move through your study protocol efficiently with automated progressions of modes, measurements, and annotations.



Ergonomics and Workflow

The Lisendo 880 was designed to provide maximum scanning comfort, along with state-of-the-art technology to help you complete your exams more easily. The systems flexible positioning, including an adjustable panel height and a four point articulating arm, support comfortable operation while the operation panel enables ergonomic function adjustment as a part of our intuitive user interface. Our Smart Cardiac Measurements provide automated analysis to enhance examination efficiency. The Lisendo 880 delivers seamless workflow users expect in a premium ultrasound system.

Workflow

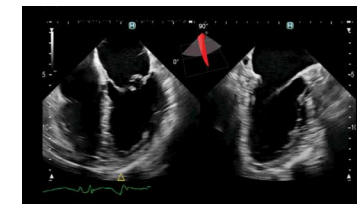


LISENDO 880

Redefining the Vision for
Cardiovascular Ultrasound

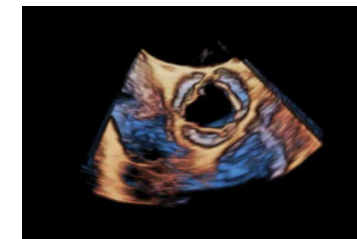
**THE LISENDO 880 OFFERS
EXCEPTIONAL TRANSTHORACIC AND
TRANSESOPHAGEAL 3D IMAGING AND
PROVIDES A COMPREHENSIVE SET OF
DATA FOR YOUR 4D ANALYSIS**

Insight



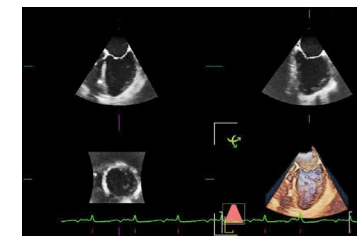
BiPlane

Evaluate two live orthogonal planes simultaneously in 2D for comprehensive anatomical views.



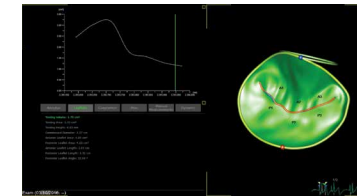
3D Zoom

High resolution 3D volume acquisition for anatomical analysis and data from an anatomical region of interest.



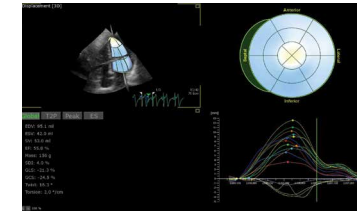
Active 3D and Active 3D Color

Live 3D display within a volume of interest, with or without high resolution live color Doppler.



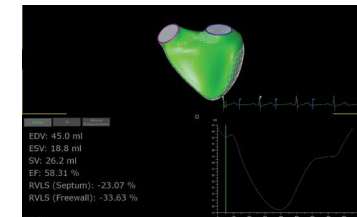
Wide Angle 3D

Full volume imaging evaluation in live 3D.



4D Cardio-View™ 1

An intuitive solution to review and analyze 3D Echo data. The software features the unique navigation tool D'art™, which in just two clicks enables you to generate your preferred 3D view. Even complex cardiac morphologies can be completely visualized in a 3D view.



4D LV-Analysis 1

Provides a full assessment of the LV including Volumes, EF, Strain and dyssynchrony with no more effort than the current routine methods and shows a high correlation with MRI results.

4D MV-Assessment 1

Allows a dynamic analysis of the anatomical structures of the mitral valve, annulus and the closure line of the two leaflets.

4D RV-Function 1

Provides a comprehensive evaluation of the right ventricle including volumes and strain analysis. It provides EDV, ESV, RVEF, SV, RVLS, TAPSE and FAC.

Innovating for a healthier world

Fujifilm transformed its corporate structure for growth by expanding beyond the traditional photographic film business to six priority business fields, including healthcare – ranging from diagnostic imaging to regenerative medicine.

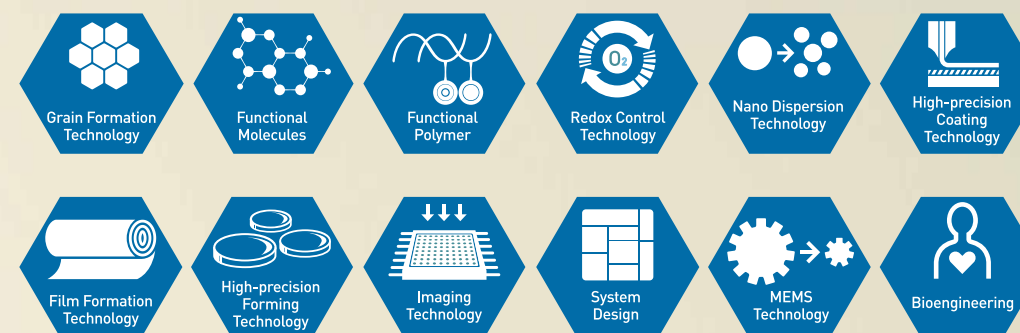
Our R&D innovations over the decades find us today with highly specialized expertise in increasingly relevant technologies that inform modern healthcare.

For over 80 years Fujifilm has continually invested in research and development resulting in world-class, highly versatile fundamental core technologies.

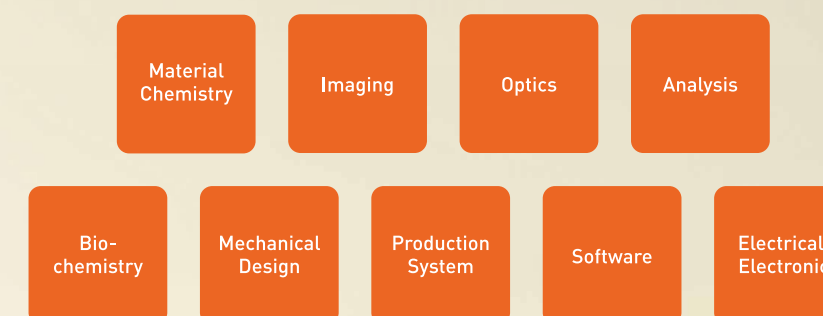
These technologies and knowledge were accumulated in the photographic film business. Today this expertise allows Fujifilm to design and innovate new products and services for diverse businesses that will shape the future for Fujifilm.

We describe this birth of new applications and technologies from Fujifilm's extraordinary background of innovation as leveraging fundamental core technologies.

CORE TECHNOLOGIES



FUNDAMENTAL TECHNOLOGIES



All of these diagnostic and therapeutic technologies form a highly connected, holistic approach to healthcare, with the goal of helping patients along the entire care pathway, from the earliest diagnosis right through to the development of new regenerative treatments.

Innovation

**NEVER
STOP**



S121 **Single Crystal Adult**
5 - 1 MHz | 120°



S31 **Single Crystal Pediatric**
9 - 2 MHz | 100°



S42 **High Frequency Neonatal**
14 - 3 MHz | 100°



C252 **Single Crystal Abdomen**
6-1 MHz | 70°



C35 **High Frequency Fetal**
8 - 2 MHz | 70°



L34 **Low Frequency, Vascular**
7 - 3 MHz | 38 mm



L441 **Mid Frequency, Vascular**
12 - 2 MHz | 38 mm

LISENDO 880

CARDIOVASCULAR SPECIALTY TRANSDUCERS



MXS1

3D TTE
5 – 1 MHz | 90°



SML44

CMUT, Vascular
22 -2 MHz | 38 mm



L53K

**Superficial Vascular
Hockey-Stick Linear Array**
15 – 3 MHz | 25 mm Width | Linear



L64

High Frequency, Vascular
18 – 5 MHz | 38 mm



S3ESEL

TEE Adult
8 – 2 MHz | 100°



MXT1

**MXS2ESLL1
3D TEE**
10 – 1 MHz | 90°



UST-2266-5

**Independent,
Pencil Type CW Doppler**
5 MHz



UST-2265-2

**Independent
CW Doppler**
2 MHz



LISENDO 880

CARDIOLOGY