

F37

DIAGNOSTIC ULTRASOUND
SYSTEM



Diagnostic Ultrasound system MODEL F37



- Contents include optional items.
- The specifications, shape and color of this product are subject to change without notice.
- The standard components and optional items vary depending on the country.

Manufactured and distributed by

Hitachi Aloka Medical, Ltd., Japan

<http://www.hitachi-alka.com>

Distributor for Europe

Hitachi Medical Systems Europe Holding AG, Switzerland

<http://www.hitachi-medical-systems.com>

Smart Imaging Compact Design Easy Operation

Simple operation in a compact system.
Delivers diagnosable images for various
observation targets.

Providing all that is needed in a versatile
diagnostic ultrasound system, F37 is ready
to be your partner.



Advanced Imaging Features and Various Imaging Modes

Advanced Imaging Functions

Broadband Harmonics (BbH), Adaptive Image Processing (AIP), Silky Image Processing (SIP) and Spatial Compound Imaging (SCI) support imaging excellence. Various targets are displayed with outstanding sensitivity and resolution.

Trapezoidal View

Trapezoidal view on the linear probe offers a wide field of view, advantageous for understanding the extent and anatomy of lesions.

Dynamic Slow-motion Display (DSD)

DSD displays a real-time image and its slow-motion image side by side simultaneously, enabling easier and more detailed observation of fast moving organs such as the fetal heart.

Dual Dynamic Display (DDD)

A B-mode image and Flow mode image are displayed side-by-side in real time, assisting easy anatomical understanding of blood flow.

Image Optimizer

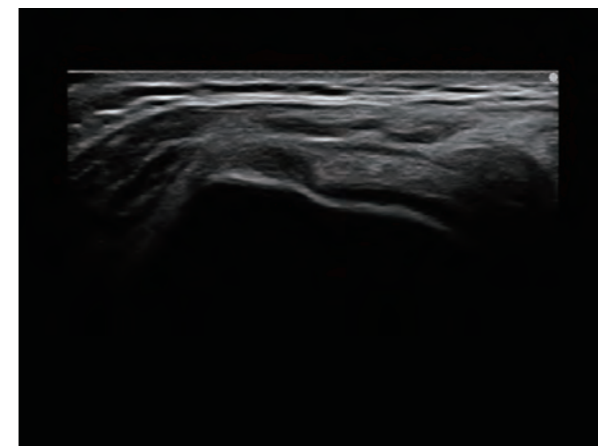
In a single action, B-mode brightness can be adjusted to match your usual examination setting. Velocity range and baseline position can also automatically be adjusted, contributing to examination efficiency.

eFLOW

eFLOW displays blood flow with high spatial resolution and minimum blooming. F37 provides clear blood flow information from high speed flow in large vessels to low speed flow in fine peripheral vessels.

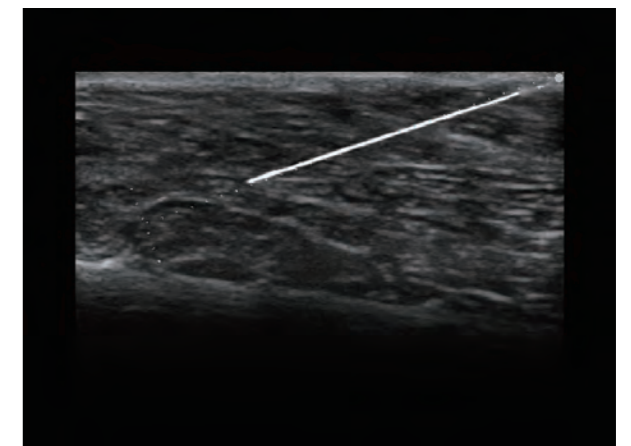
Free Angular M-mode (FAM)

In real time or after freezing, M-mode images can be displayed in real time or reconstructed from the Cine Memory after freeze. Images at arbitrary angles can be displayed regardless of the fetus's position.



Silky Image Processing (SIP)

SIP eases differentiation such as between tissue borders by effectively removing artifacts. The optimal processing can automatically be configured according to each clinical application.



Needle Emphasis (NE)

NE supports accurate and safe puncturing by enhanced visualization of the needle. Angle of ultrasound beam and imaging are automatically optimized.

Obstetrics and Gynecology

3D/4D Functions

4Dshading

4Dshading is a technology for rendering the fetus with natural shadows and skin texture as though light is cast upon it. The virtual light source can be positioned freely, enabling observation in further detail.



Courtesy of Tokuyama Central Hospital



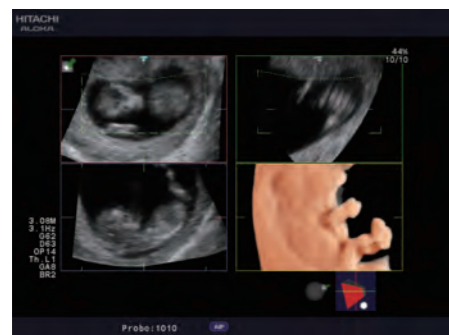
Small Size, Excellent Performance

Both screening examinations and 3D imaging can be performed using the compact and light weight probe, ASU-1014. This probe offers clear-cut images with sufficient penetration to image the fetus, with a wide field of view.



Advanced 3D Functions

Fetal movements can smoothly be displayed with lightweight and compact 3D probes.



Courtesy of Tokuyama Central Hospital

Various analyzing and display modes

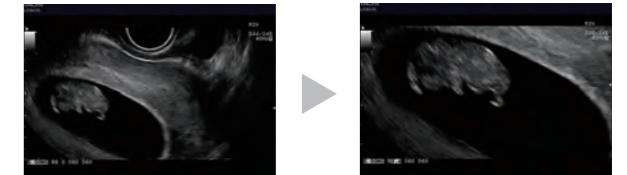
- Multi Slice Imaging (MSI)
- Free Axis of Multi-planar Reconstruction (FMPPR)
- Automated Volume Measurement (AVM)
- Flow 3D

Enhanced Efficiency

In a single action, frequently-used measurements can be activated. Various functions can be assigned to the keyboard, and examinations can be done in a smooth flow. Measurement functions you need are there when you need them.

Easy report function enables stable monitoring of fetal development. Measurement results of fetal ultrasound screening are automatically reflected on a report. Past and present results can be displayed together on a trend chart.

Observe in more detail with the high-quality zoom. F37 enlarges images while maintaining its image quality. Examinations of the fetal heartbeat can be done with easy-to-observe images.



For More Comfort in Endocavity Examinations

Examinations using the endocavity probe are essential for various gynecological and infertility examinations. With the F37, these examinations have become friendlier to the examiner and patient.

- The image quality contributes to reduction of examination time
- Patient-friendly examinations enabled by the small size of the probe
- Basic measurement results can be transferred onto the report
- Unique probe holder for endocavity probes

The transvaginal probe inherited from higher-class models provide quality images.

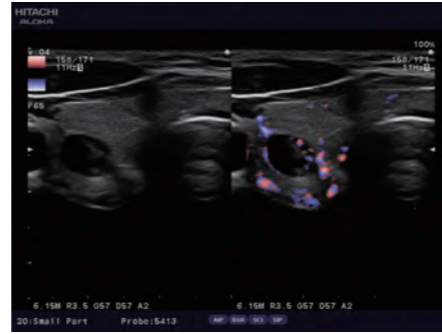


Outstanding Versatility

General Imaging



Image Optimizer optimizes brightness of B-mode images with a single switch. F37 learns your usual settings and automatically adjusts the image brightness to your preference.



A B-mode image and Flow mode image can be displayed side-by-side in real time using Dual Dynamic Display (DDD). Blood flow can be observed while checking the tissue morphology.

OB/GYN

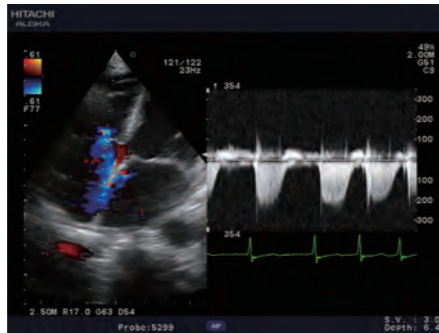


eFLOW clearly displays blood flow in detail. Blood flow in the umbilical cord is sensitively depicted. F37 will support its evaluations.

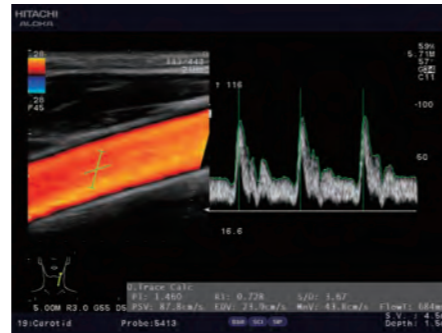


The high quality zoom of F37 allows you to enlarge your region of interest while maintaining the high frame rate. The fetal heart can be observed in high-resolution imaging.

Cardiovascular

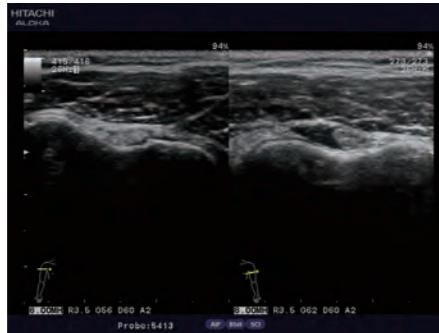


CW Doppler depicts easy-to-measure waveforms with minimum noise.



With Auto Angle Correct, blood flow velocity can smoothly be measured with high accuracy.

Musculoskeletal



2 B-mode images can be displayed side by side. This function can be used in various situations, such as for comparison between long and short axis views or between affected and unaffected sides.



Minute vessels streaming in fingertips can be sensitively displayed using eFLOW.

Simplified Operation

Simple operation for a concentrated examination.

F37's intuitive switch layout with the minimum number of switches for daily examinations and measurements provide just the necessary functions at your hand.

- Frequently-used switches are laid out around the trackball
- Arched switch layout, to fit the shape of the palm of your hand
- Switches and knobs are segmented according to their purposes



Intuitive Panel Layout

Measurement Support

Single action optimizations

Compact and Practical Design

Light weight and with a small footprint, F37 enables nimble transport and comfortable examinations. How did we attain the small size? The equipped, enhanced, and evolutionary 3E Platform is what makes this possible. Because its many functions are software based, it is not only compact but also provides faster processing, lower power consumption, and future upgradeability.

Naturally operate the system at the height of writing on a desk or standing with the height adjustable operation panel. This panel can also be swiveled left and right. With the flexibility of the operation panel and monitor, optimum positions for your examinations are provided.

Cable management from the front, side and back of the system keeps probe, power and other cables neat and tidy. The side pocket can also be used for holding ultrasound gel bottles, record cards, foot switches, and other small items.

