HITACHI
Inspire the Next

F31

DIAGNOSTIC ULTRASOUND SYSTEM

Diagnostic Ultrasound System MODEL：F31

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- The standard components and optional items vary depending on the country.
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We strive to provide quality products and services for our customers.

We operate with regard for the environment.

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ALOKA
illuminate the change

F31
DIAGNOSTIC ULTRASOUND SYSTEM

High-performance ultrasound now becomes affordable with the compact, fully featured F31

Profiting from expertise gained from more than one hundred years of experience,
We at Hitachi Aloka Medical have integrated our longstanding traditions
of reliability and high quality in the design and manufacture of ultrasound products.
F31 embodies these Japanese traditions combining quality and affordability
in a compact ultrasound platform.

Comfort and Ease in Use

F31 combines performance features and ergonomics that ensure efficient workflow with a sympathetic design that safeguards patients' confidence.

Quality Imaging

Performance and advanced features have been tailored to meet the requirements across a wide spectrum of clinical applications.

Powerful Functions that Support Reliable Imaging

■ Advanced Imaging Features

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

■ Silky Image Processing (SIP*)

Silky Image Processing (SIP*) is a function that can effectively eliminate the noise and artifact which disturb diagnosis and clearly defines the edge of tissue, making it easy to observe. It is possible to automatically process images according to each clinical application.

■ Free Angular M-mode (FAM*)

The M-mode can be displayed in real time or reconstructed from the cine memory. Orientation at arbitrary angles can be achieved to allow for fetal position.

■ Dynamic Slow-motion Display (DSD)

Detailed observation of fast moving structures such as the fetal heart can be made using DSD which displays the real-time image alongside a slow motion counterpart.

■ *e*FLOW

Blood flow mapping with *e*FLOW demonstrates vascularity with high spatial resolution and minimal blooming.

■ Dual Dynamic Display (DDD)

Real-time, simultaneous side-by-side display of the B-mode and Flow images enables easy anatomical understanding in vascular examinations such as the carotid artery or lower extremities.

■ Extended Field of View (EFV*)

Large structures or pathology can be displayed on a single screen, whether the body contour is linear or curved.

■ High Frame Rate Zoom

A region of interest can be enlarged while maintaining a high frame rate.

∗Optional

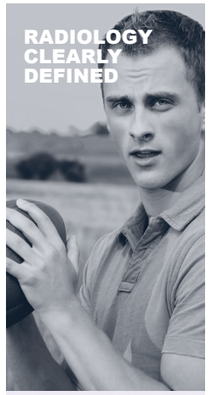
Fully-featured Diagnostic Ultrasound Platform

- Scanning Modes: B-mode, M-mode, D-mode (PW, CW), Flow Mode, Power Flow Mode, *e*FLOW Mode, Free Hand 3D* (B/W, color)
- Trapezoidal View
- Auto Angle Correct
- Real-time Doppler Auto Trace*
- 3D Image Analysis, MPR, FMPR, MSI*
- Tissue Doppler Imaging (TDI)
- Auto IMT* (Intima-media Thickness Measurement)
- Automated Modulation of LED Brightness
- Post Processing and Analysis
- Customizable Keys

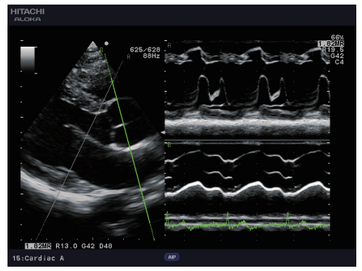
∗Optional

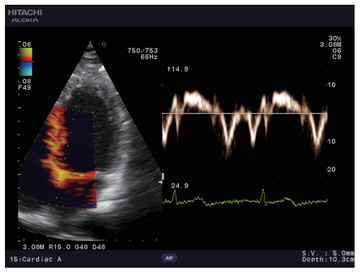
Outstanding Versatility

High-performance ultrasound is made affordable with the compact F31 from Hitachi Aloka Medical. It confidently supports the following clinical specialties.

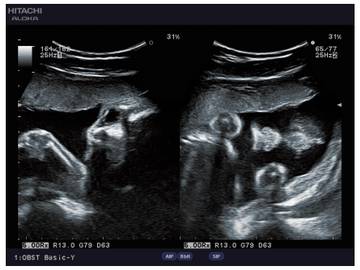


The fully-featured F31 provides a compact, versatile, high performance platform for general imaging that has been designed for ease-of-use and operator comfort.

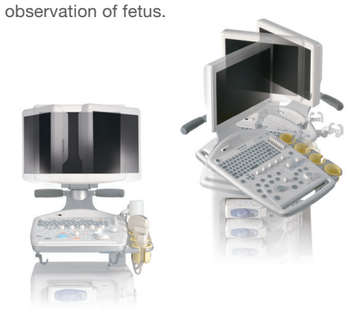




The F31 with Free Angular M-mode (FAM)*, Dynamic Slow-motion Display (DSD), and Tissue Doppler Imaging combined with a dedicated cardiovascular measurement package offers a comprehensive solution for cardiovascular diagnosis.



B-mode image quality is important for diagnosing fetal diseases.
High-quality images assist measuring fetal weight and observation of fetus.



Flexibility in console adjustment and monitor positioning, choice of dedicated transducers, and compact footprint are all features of the F31 that make it the platform of choice for interventional and surgical applications.

∗Optional

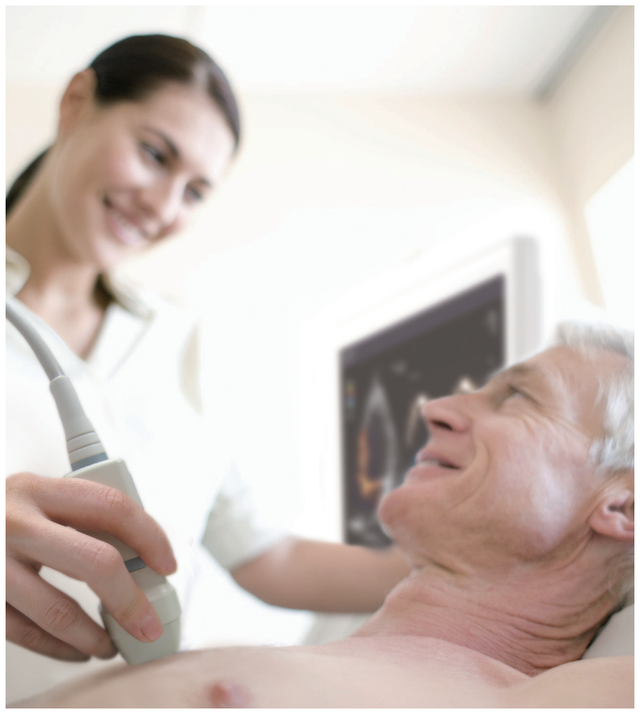
Workflow Efficiency

Intuitive Console Layout
The most frequently used controls are placed together on the operation panel to fit under the palm of your hand.

Single-action Measurement Activation
By assigning the most common measurement functions to the keyboard, examination time can be minimized especially when multiple measurements are required.

Image Optimizer
With a single keystroke, F31 adjusts the B-mode brightness and optimizes the spectral waveform automatically, based on the operator's previously demonstrated preferences.

Auto Angle Correct
Automatic adjustment of beam-toflow angle in PW Doppler mode dramatically improves measurement accuracy.



Diverse Transducer Line-up

Abdominal, OB/GYN

Endovaginal

Endovaginal

Endorectal

Small parts,
Peripheral vascular

Cardiac, Pediatric

Cardiac

Intraoperative

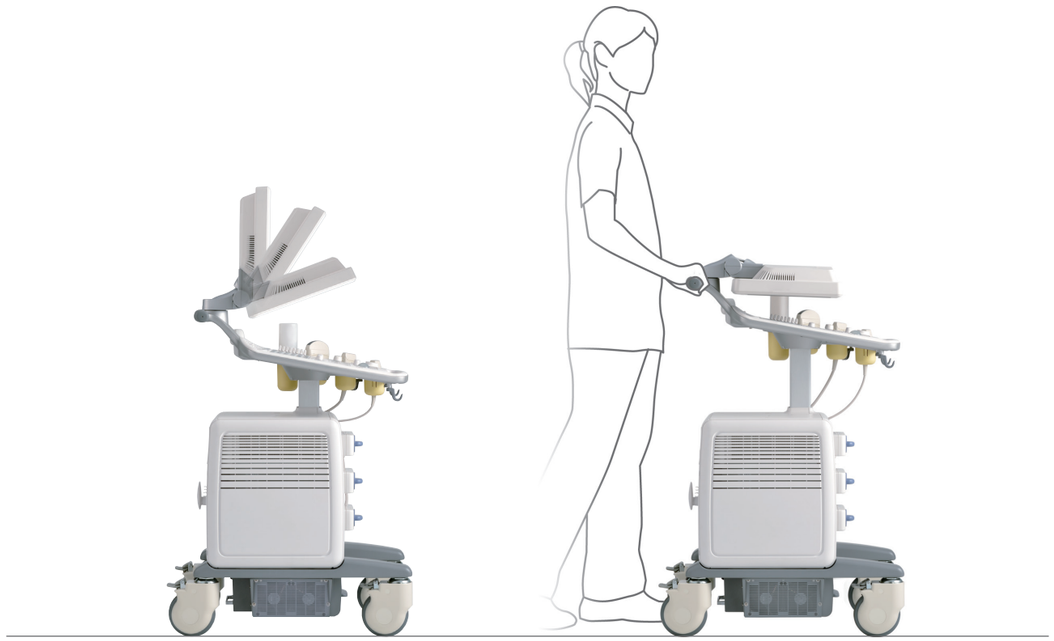
Intraoperative

Intraoperative

Compact, Ergonomic Design

Flexibility of operation panel and monitor position combine with easy, safe mobility

Monitor Design
The monitor tilts and swivels through 330°providing an optimal viewing angle for all applications. When folded, visibility and safety is improved during transportation.

Operating Console Movement
With a 90° right and left rotation of the operation panel, and height adjustment from as low as 70 cm, operator comfort is assured whatever the type of examination performed.

Ease of Mobility
Lightweight, compact, and with large wheels, the F31 can be moved with ease throughout the hospital, guided using rear handles.