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plus representations in various  
European countries.

**HITACHI**  
Inspire the Next

**F31**  
DIAGNOSTIC ULTRASOUND  
SYSTEM



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- DICOM is a registered trademark of the National Electrical Manufacturers Association (NEMA), for its publications containing standards relating to digital communications of medical information.
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**ALOKA**  
illuminate the change

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

Hitachi Aloka have always integrated their longstanding traditions of reliability and high quality in the design and manufacture of ultrasound systems. The F31 embodies these Japanese values 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.





# Compact, ergonomic design

Flexibility of operating console 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 and when folded, improves visibility and safety during transportation.



## ■ Operating console movement

With a 90° right and left rotation of the operating console, 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 around the hospital, guided using rear handles.



# Powerful functions that support reliable imaging

## ■ Advanced Imaging Features

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

## ■ eFLOW

Blood flow mapping with eFLOW 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 whilst maintaining a high frame rate.

## ■ Free Angular M-mode (FAM\*)

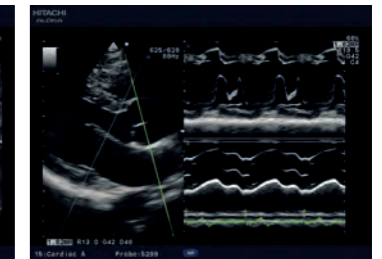
The M-mode can be displayed in real-time or reconstructed from the cine memory. Orientation at arbitrary angles can be achieved to allow for heart position.

## ■ Dynamic Slow-motion Display (DSD)

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



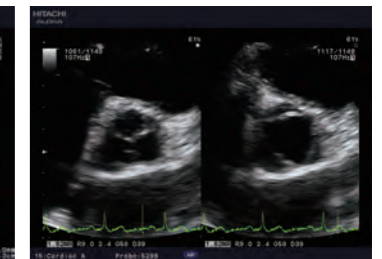
eFLOW / DDD (Dual Dynamic Display)



FAM (Free Angular M-mode)



TDI (Tissue Doppler Imaging)



DSD (Dynamic Slow-motion Display)

## Fully-featured Diagnostic Ultrasound Platform

- Scanning modes:  
B-mode, M-mode, D-mode (PW, CW), Flow mode, Power Flow mode, eFLOW mode, Free Hand 3D\* (B/W, color)
- Trapezoidal field of view
- Auto Angle Correct
- Real-time Doppler Auto Trace\*
- Free Hand 3D imaging\*

- 3D image analysis, MPR, FMPR, MSI\*
- Automated Volume Measurement (AVM)\*
- Tissue Doppler Imaging (TDI)
- Auto IMT\* (Intima-media thickness measurement)
- Automated modulation of LED brightness
- Postprocessing and analysis
- Customizable keys

\*Option



# Workflow efficiency



## ■ Auto Angle Correct

Automatic adjustment of beam-to-flow angle in PW Doppler mode dramatically improves measurement accuracy.

## ■ Intuitive console layout

The most frequently used controls are placed together on the operating console to fit under the palm of your hand.



## ■ Single-action measurement activation

By assigning the most common measurement functions to the keyboard, examination times can be minimised especially when multiple measurements are required.

## ■ Image Optimiser

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

# Full Versatility

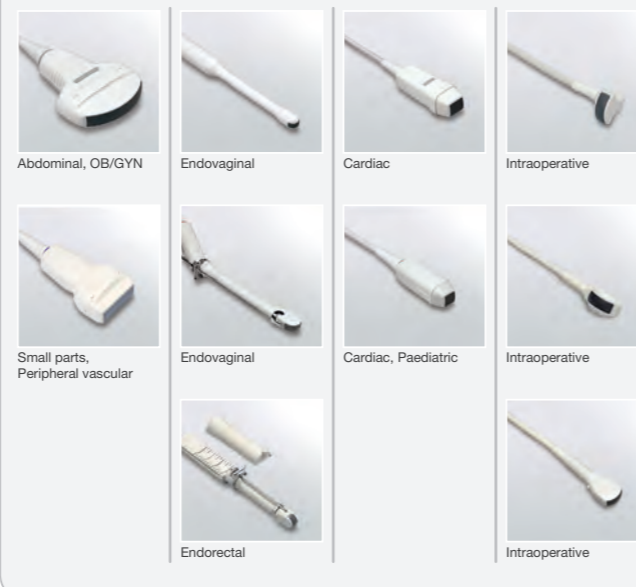
## ■ Data management

- Supports a broad range of image formats, such as DICOM\*, AVI, BMP, and JPG.
- Conforms to the DICOM standard for Worklist\* ensuring an efficient patient throughput.
- Full measurement and analysis package, including fetal growth curves.
- Data can be output to USB recording devices.

## ■ Report Functions

Report functions conform to DICOM 3.0\*: Structured Reporting\* for Ob/Gyn, Cardiology, Vascular, Abdominal and Gynecological measurements.

### Diverse Transducer Line-up



# F31 confidently supports the following clinical specialties:

## ■ Obstetrics/Gynaecology

With a comprehensive transducer range, advanced features such as eFLOW and Dynamic Slow-motion Display, the F31 is a powerful diagnostic tool for OB/GYN examinations.



## ■ General/Internal Medicine

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.



## ■ Cardiovascular Medicine

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.



## ■ Surgery

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

\*Option