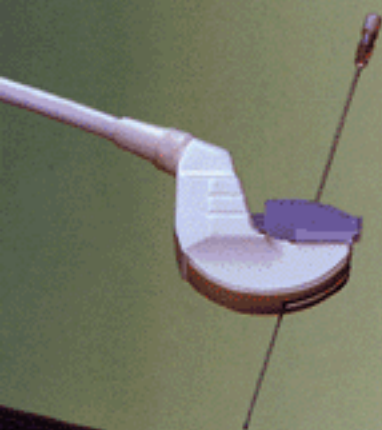


PROBES & SYSTEMS



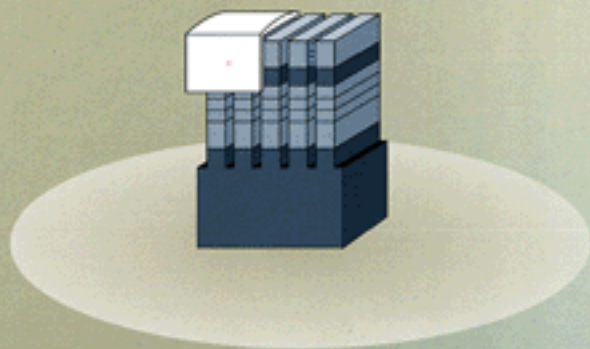
&



**HITACHI**  
MEDICAL ULTRASOUND

*The Applications Company*

The continuously growing importance of Ultrasound in Diagnostic Imaging is clearly related to the progress made in Probe Design and Transducer Technology. Hitachi has been strongly focused on this aspect since the early days of Diagnostic Ultrasound and introduced in 1983 the world's first Convex Probe. Today, Hitachi offers a wide range of application specific probes based on most recent developments in transducer technology. The outstanding performance of our MAXXUM Series of Broadband Frequency Probes is based on Hitachi's Multi-Layer Transducer Technology.



- **High Density**

*transducer design based on 192 elements, allowing beam characteristics for optimum image quality*

- **Low Impedance**

*resulting in significantly enhanced sensitivity and lower noise level*

- **Wide Bandwidth**

*giving higher sensitivity over a broad frequency range*



## Higher performance Lower cost

Our MAXXUM series of Broadband Frequency Probes allow the selection of up to five discrete frequencies for general applications in the range between 2.5 MHz and 5.0 MHz and in high resolution applications between 5 MHz and 13 MHz. For the user, this means the probe frequencies can be changed quickly and effectively for higher resolution near field imaging and for improved penetration at greater depth.

This way the number of probes can be reduced without compromising diagnostic quality.

Broadband Probes are also a prerequisite for Harmonic Imaging, an innovative imaging technology offered by Hitachi's line of Digital Ultrasound Systems. This enables improved morphological differentiation especially in deeper regions.

Certain probes and/or options listed in this catalog or their usage in specific clinical applications with certain model systems may be limited by regulations or other requirements in some countries. Please contact your local Hitachi representative regarding such limitations.



# Products

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## UltraSound Systems

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Hitachi provides a complete range of ultrasound-based systems covering the entire spectrum from compact black and white systems at entry price level up to premium class systems for the most demanding users. Each system is designed to deliver optimum image quality in its product class, a basic prerequisite for a Hitachi System.

### **Ergonomy**

Designed to maximize user convenience with intuitive operation, comfort, fast switching speed and minimum size.

### **Multuser Capability**

In order to maximize economy, we have designed specialty probes supported by application specific image processing in 2D/3D, application specific preset functions and measuring tables and protocols resulting in high interdisciplinary utilization of the system.

In addition, the ease of mobility of a Hitachi system allows usage in different rooms, on patient floors, in emergency departments and intensive care units. Hospital or large private offices achieve highly economical solutions by combining Hitachi base systems from different product classes and utilizing probe compatibility.

### **Connectivity**

The user benefits from digital image archiving, standardized documentation, and networking.

## EUB-405

The EUB-405 weighs only thirty pounds and incorporates the latest in microelectronic technology. It is simple to operate, reliable, portable, and generates images comparable to any system regardless of size or cost.

Because of Hitachi's vast probe technology, this unit is ideal for abdominal, obstetrical, gynecological, endocavitary, urological, prostate, breast, small parts, neonatal cephalic, and surgical scanning.

### Software

The Hitachi EUB-405 allows the user to make comprehensive measurements easily with direct key access and a trackball. There are also autocalculation worksheets for obstetrical and urological data. Another high-end feature is the biopsy software, which provides accurate guidelines on the screen to plot the path of needle entry.

### Probe Technology

Hitachi continues to be a leader in the technology and diversification of ultrasound probes. The EUB-405 is capable of utilizing all of the high-density (maximum 192 elements) probes. This system also supports the high-detail, "double-density" scan mode that doubles the number of scan lines in an image. The EUB-405 is also configured to support Hitachi's dual-frequency probes, and the 200-degree steerable endocavitary probe.

### Simplicity

The EUB-405 is designed to provide superior ultrasound images along with ease of operation. A control panel features durable soft keys and a trackball for easier software manipulation. The Hitachi EUB-405 also allows quick access to the settings for your most common scanning needs.

### Features

- Compact portable system with 9-inch monitor
- Intuitive user-friendly operation
- User defined presets
- Multifunction trackball
- B-mode/M-mode/Split Screen
- Simultaneous B/M-mode
- Dual Frequency Transducers



### PROBE COMPLEMENT

- [Biopsy](#)
- [Biplane](#)
- [Convex](#)
- [Endocavity](#)
- [Fingertip](#)
- [Intra-operative](#)
- [Linear](#)
- [Radial](#)

- Comprehensive measurement functions and tables

### Options

- Two probe ports
- Cine-/Multimemory
- Digital image transfer
- Cart

### Biopsy



EUP-B31



EUP-B314



EUP-C524



EUP-C532



EUP-CC331



EUP-L34T



EUP-L53



EUP-R53W



EUP-U533



EUP-V53W

Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°

EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°

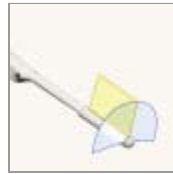
Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Biplane



EUP-CC331



EUP-U533

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°

## Convex



EUP-B314



EUP-C524



EUP-C532

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°

## Endocavity



EUP-CC331



EUP-R53W



EUP-U533



EUP-V53W

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Fingertip



EUP-F334



EUP-F531

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-F334	4.5 - 8.0	Fingertip - Micro Probe	40R	100°
EUP-F531	4.0 - 8.0	Fingertip - Micro Probe	10R	100°

### Intra-operative



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

### Linear



EUP-B31



EUP-L34T



EUP-L53



EUP-L53S



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm
EUP-L53S	4.5 - 10.0	Small Aperture - Small Parts/Vascular Scanning	38mm
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

#### Radial



EUP-R53W

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°

Certain probes noted here or their usage in specific clinical applications with certain model systems may be limited by regulations or other requirements in some countries. Additionally, frequency ranges on certain probes are model system dependent. Please contact your local Hitachi representative regarding such limitations.

## EUB-525 CFA

The EUB-525 CFA (Color Flow Ultrasound) system sets the standard for value and performance in color flow imaging. Designed for versatility and affordability, the EUB-525 CFA is the answer for many of today's health care challenges.

### Image Quality

Using proprietary processing techniques, the EUB-525 CFA provides excellent image clarity and accuracy. The continuous variable, sliding receive filter utilizes the entire frequency spectrum and optimizes both near and far field resolution.

### Probe Technology

Hitachi remains the leader in probe technology. With the most crystal dense probes on the market, Hitachi offers both compact, ergonomic designs and the most real lines of ultrasound information. The crystal technology of the Hitachi probes allows for maximum use of the available frequency spectrum. This allows the user to shift frequencies according to their scanning needs. In fact, the EUB-525 CFA wide bandwidth operation includes frequencies from 2.5 MHz to 10.0 MHz. Another example of Hitachi's leadership is the ability to display a full 200-degree field of view on the EUP-V33W and EUP-V53W endocavitary probes.

### Versatility

Coupled with the full line of multi-purpose and specialty probes, the EUB-525 CFA satisfies your general and special ultrasound scanning needs. There is also ample space for peripheral options on the compact lightweight chassis. The operator's panel is ergonomically designed to place the most commonly used functions at your fingertips. This promotes ease of use and faster patient throughput.

### Reliability

Hitachi medical equipment is known worldwide for its continued, residual value. The Hitachi name assures reliable and quality equipment.

### Features

- Compact, mobile system with 15-inch color monitor and three probe ports
- Multi-User preset function
- B/M-Mode/Simultaneous B/M-Mode
- CFM/CFA (Color Flow Angiography)
- Triple Frequency Transducers
- Real time imaging with biplane probes
- Application specific measuring functions and scanning protocols

### Options



#### PROBE COMPLEMENT

[Biopsy](#)

[Biplane](#)

[Convex](#)

[Endocavity](#)

[Endoscopic](#)

[Fingertip](#)

[Intra-operative](#)

[Laparoscopic](#)

[Linear](#)

[Radial](#)

- 3D imaging module
- Digital image transfer
- ECG/PCG module
- Cart

## Biopsy



Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°

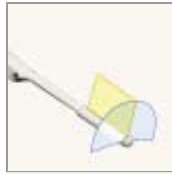
Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Biplane



EUP-CC331



EUP-U533

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°

### Convex



EUP-B314



EUP-C524



EUP-C532

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°

#### Endocavity



EUP-CC331



EUP-R53W



EUP-U533



EUP-V53W



PL-2226-12

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-2226-12	12	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°

## Endoscopic



Model	Freq. (MHz)	Description	Probe Diameter	Field of View
EG-3630UR	5.0-10.0	Electronic Array - 2.4mm Working Channel, 270° Scanning Angle	12.1mm	120°

Model	Freq. (MHz)	Description	Probe Radius	Field of View
FG-34UX	5.0-10.0 Longitudinal	Biopsy, 2.0mm Working Channel	10R	120°
FG-36UX	5.0-10.0 Longitudinal	Biopsy, 2.4mm Working Channel	10R	120°
FG-38UX	5.0-10.0 Longitudinal	Biopsy, 3.2mm Working Channel	10R	120°

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-1726-12	12	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°

PL-1726-15	15	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-20	20	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-7.5	7.5	Radial - MiniRadial, 1700mm Length	8.0mm	8.0mm	360°
PL-1926-12	12	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-15	15	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-20	20	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-7.5	7.5	Radial - MiniRadial, 1900mm Length	8.0mm	8.0mm	360°
PL-2220-12	12	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-15	15	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-20	20	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2226-15	15	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-20	20	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-7.5	7.5	Radial - MiniRadial, 2200mm Length	8.0mm	8.0mm	360°

### Fingertip



EUP-F334



EUP-F531

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-F334	4.5 - 8.0	Fingertip - Micro Probe	40R	100°
EUP-F531	4.0 - 8.0	Fingertip - Micro Probe	10R	100°

**Intra-operative**



EUP-O33J



EUP-O53T



EUP-OL334

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-OL334	4.5 - 9.0	Mono-Plane - Laparoscopic, 420mm Length	40R	40°

**Laparoscopic**



EUP-OL334

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-OL334	4.5 - 9.0	Mono-Plane - Laparoscopic, 420mm Length	40R	40°

## Linear



EUP-B31



EUP-L34T



EUP-L53



EUP-L53S



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm
EUP-L53S	4.5 - 10.0	Small Aperture - Small Parts/Vascular Scanning	38mm
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

## Radial



EG-363OUR



EUP-R53W



PL-1726-12



PL-1726-15



PL-1726-20



PL-1726-7.5



Model	Freq. (MHz)	Description	Probe Diameter	Field of View
EG-3630UR	5.0-10.0	Electronic Array - 2.4mm Working Channel, 270° Scanning Angle	12.1mm	120°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-1726-12	12	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-15	15	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-20	20	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-7.5	7.5	Radial - MiniRadial, 1700mm Length	8.0mm	8.0mm	360°
PL-1926-12	12	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-15	15	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-20	20	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-7.5	7.5	Radial - MiniRadial, 1900mm Length	8.0mm	8.0mm	360°
PL-2220-12	12	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-15	15	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-20	20	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2226-12	12	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-15	15	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°

PL-2226-20	20	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-7.5	7.5	Radial - MiniRadial, 2200mm Length	8.0mm	8.0mm	360°

Certain probes noted here or their usage in specific clinical applications with certain model systems may be limited by regulations or other requirements in some countries. Additionally, frequency ranges on certain probes are model system dependent. Please contact your local Hitachi representative regarding such limitations.

## EUB-2000 B/W

An advanced black and white unit at the mid-price level with optional PW/CW Doppler, offering premium image quality.

### Features

- Outstanding image quality in its class with continuous dynamic focusing.
- Double-density scanning and high speed sampling
- 12-inch monitor/Two probe ports
- B-Mode/M-Mode/Split Screen
- Simultaneous B/M-Mode
- Triple Frequency Transducers
- Cine/Multimemory
- Image rotation/Zoom
- Application specific measuring features and patient reports

### Options

- Three probe ports
- Digital image transfer
- ECG/PCG module



### PROBE COMPLEMENT

[Biopsy](#)

[Biplane](#)

[Convex](#)

[Endocavity](#)

[Endoscopic](#)

[Fingertip](#)

[Intra-operative](#)

[Laparoscopic](#)

[Linear](#)

[Radial](#)

## EUB-2000 B/W Dop

As additional features to the EUB-2000 B/W shown above, the EUB-2000 B/W Dop offers a PW/CW Doppler and auto-trace measurement.

### Features

- Outstanding image quality in its class with continuous dynamic focusing.
- Double-density scanning and high speed sampling
- 12-inch monitor/Two probe ports
- B-Mode/M-Mode/Split Screen
- Simultaneous B/M-Mode
- Triple Frequency Transducers
- Cine/Multimemory
- Image rotation/Zoom
- Application specific measuring features and patient reports

### Options

- Three probe ports
- Digital image transfer
- ECG/PCG module

### Additional Features

- PW/CW Doppler
- Auto-trace measurement



### PROBE COMPLEMENT

- [Biopsy](#)
- [Biplane](#)
- [Convex](#)
- [Endocavity](#)
- [Endoscopic](#)
- [Fingertip](#)
- [Intra-operative](#)
- [Laparoscopic](#)
- [Linear](#)
- [Radial](#)

## Biopsy



Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Biplane



EUP-CC331



EUP-U533

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°

### Convex



EUP-B314



EUP-C524



EUP-C532

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
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EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°

### Endocavity



EUP-CC331



EUP-R53W



EUP-U533



EUP-V53W

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Fingertip



EUP-F334



EUP-F531

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-F334	4.5 - 8.0	Fingertip - Micro Probe	40R	100°
EUP-F531	4.0 - 8.0	Fingertip - Micro Probe	10R	100°

### Intra-operative



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

### Laparoscopic



EUP-OL334

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-OL334	4.5 - 9.0	Mono-Plane - Laparoscopic, 420mm Length	40R	40°

### Linear



EUP-B31



EUP-L34T



EUP-L53



EUP-L53S



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm
EUP-L53S	4.5 - 10.0	Small Aperture - Small Parts/Vascular Scanning	38mm
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

#### Radial



EUP-R53W

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°

Certain probes noted here or their usage in specific clinical applications with certain model systems may be limited by regulations or other requirements in some countries. Additionally, frequency ranges on certain probes are model system dependent. Please contact your local Hitachi representative regarding such limitations.

## Hi Vision 6500

The Hi Vision 6500 High-resolution Digital Ultrasound System combines advanced micro-design components and the latest imaging capabilities into a system that is compact, lightweight and easy to use.

### Digital Architecture

- Quadra Beam Receive Processing
- Dynamic Range of over 150dB
- Windows-based Operating System
- Rapid Response Times when Changing Modes

### Advanced Imaging Capabilities

- 4 Modes of dynamic Tissue Harmonic Imaging (dTHI)
- Wideband Pulse Inversion Imaging
- Directional Color Flow Angiography
- WideView Panoramic Imaging
- Contrast Harmonic Imaging
- 3D Imaging
- Omni-directional M-Mode Display

### Ease of Operation

- Logically Organized Backlit Keyboard
- One Touch Access to Commonly Used Functions
- User Defined Programmable Keys
- Lightweight and Compact

### Specifications

- Image Examination Modes: B, M, PW, CW, CFM
- B-Mode Image Display: Single Image and Dual Images
- Color Presentation Modes:
  - -Standard Velocity: Direction & velocity displayed.
  - CFM: Low velocity flow amplitude
  - Directional CFA: Low velocity flow amplitude & direction
  - Color Flow Mapping
- -Storage to Hard Disk, MO or Floppy
- External Dimensions: (W) 20 x (D) 31 x (H) 55
- Weight: 286 lbs.



### PROBE COMPLEMENT

[Biopsy](#)

[Biplane](#)

[Convex](#)

[Endocavity](#)

[Endoscopic](#)

[Fingertip](#)

[Intra-operative](#)

[Laparoscopic](#)

[Linear](#)

[Phased Array](#)

[Radial](#)

## Biopsy



Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm

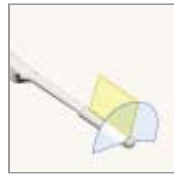
Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
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EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

### Biplane



EUP-CC331



EUP-U533

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°

### Convex



EUP-B314



EUP-C524



EUP-C532

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-B314	2.5 - 5.0	Biopsy - Integral Needle Guidance	40R	90°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-C524	3.0 - 6.0	High Resolution - Abdominal Scanning	40R	70°
EUP-C532	4.0 - 8.0	Pediatric - High Resolution	20R	90°

## Endocavity



EUP-CC331



EUP-R53W



EUP-U533



EUP-V53W



PL-2226-12

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-CC331	4.5 - 9.0	Bi-Plane - Convex Prostate Biopsy	10/10R	120°/100°
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°
EUP-U533	4.5 - 9.0	Bi-Plane - Convex / Linear Rectal	10R/64mm	200°
EUP-V53W	4.0 - 8.0	Mono-Plane - End-Fire Longitudinal, Steerable	10R	200°

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-2226-12	12	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°

## Endoscopic



PL-1726-12



PL-1726-15



PL-1726-20



PL-1726-7.5



PL-1926-12



PL-1926-15



PL-1926-20



PL-1926-7.5



PL-2220-12



PL-2220-15



PL-2220-20



PL-2226-15



PL-2226-20



PL-2226-7.5

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-1726-12	12	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-15	15	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-20	20	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-7.5	7.5	Radial - MiniRadial, 1700mm Length	8.0mm	8.0mm	360°
PL-1926-12	12	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-15	15	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-20	20	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-7.5	7.5	Radial - MiniRadial, 1900mm Length	8.0mm	8.0mm	360°
PL-2220-12	12	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-15	15	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-20	20	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2226-15	15	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-20	20	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-7.5	7.5	Radial - MiniRadial, 2200mm Length	8.0mm	8.0mm	360°

## Fingertip



EUP-F334



EUP-F531

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-F334	4.5 - 8.0	Fingertip - Micro Probe	40R	100°
EUP-F531	4.0 - 8.0	Fingertip - Micro Probe	10R	100°

## Intra-operative



EUP-O33J



EUP-O53T



EUP-OL334

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-OL334	4.5 - 9.0	Mono-Plane - Laparoscopic, 420mm Length	40R	40°

## Laparoscopic



EUP-OL334

Model	Freq. (MHz)	Description	Probe Radius	Field of View
EUP-OL334	4.5 - 9.0	Mono-Plane - Laparoscopic, 420mm Length	40R	40°

## Linear



EUP-B31



EUP-L34T



EUP-L53



EUP-L53S



EUP-O33J



EUP-O53T

Model	Freq. (MHz)	Description	Probe Length
EUP-B31	2.5 - 5.0	Biopsy - Integral Needle Guidance	87mm

Model	Freq. (MHz)	Description	Probe Radius and/or Length
EUP-L34T	5.0 - 13.0	Advanced - High Resolution Scanning	38mm
EUP-L53	4.5 - 10.0	Large Aperture - High Resolution	64mm
EUP-L53S	4.5 - 10.0	Small Aperture - Small Parts/Vascular Scanning	38mm
EUP-O33J	4.5 - 9.0	Intraoperative - High Resolution	46mm
EUP-O53T	5.0 - 10.0	Intraoperative - High Resolution	53mm

### Phased Array



EUP-S50



EUP-S52

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-S50	2.0 - 4.0	General Purpose Scanning/Steerable CW Function	10.88/ 10.88mm	90°
EUP-S52	3.0 - 7.0	Pediatric - High Resolution Scanning/Steerable CW Function	10.88/ 10.88mm	90°

### Radial



EG-3630UR



EUP-R53W



PL-1726-12



PL-1726-15



PL-1726-20



PL-1726-7.5



PL-1926-12



PL-1926-15



PL-1926-20



PL-1926-7.5



PL-2220-12



PL-2220-15



PL-2220-20



PL-2226-12



PL-2226-15



PL-2226-20



PL-2226-7.5

Model	Freq. (MHz)	Description	Probe Diameter	Field of View
EG-3630UR	5.0-10.0	Electronic Array - 2.4mm Working Channel, 270° Scanning Angle	12.1mm	120°

Model	Freq. (MHz)	Description	Probe Radius and/or Length	Field of View
EUP-R53W	4.0 - 8.0	Mono-Plane - Radial, Steerable	10R	200°

Model	Freq. (MHz)	Description	Probe Radius	Probe Diameter	Field of View
PL-1726-12	12	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-15	15	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-20	20	Radial - MiniRadial, 1700mm Length	2.6mm	2.0mm	360°
PL-1726-7.5	7.5	Radial - MiniRadial, 1700mm Length	8.0mm	8.0mm	360°
PL-1926-12	12	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-15	15	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-20	20	Radial - MiniRadial, 1900mm Length	2.6mm	2.0mm	360°
PL-1926-7.5	7.5	Radial - MiniRadial, 1900mm Length	8.0mm	8.0mm	360°
PL-2220-12	12	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-15	15	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2220-20	20	Radial - MiniProbe, 2200mm Length	2.0mm	2.6mm	360°
PL-2226-12	12	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-15	15	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-20	20	Radial - MiniRadial, 2200mm Length	2.6mm	2.0mm	360°
PL-2226-7.5	7.5	Radial - MiniRadial, 2200mm Length	8.0mm	8.0mm	360°

Certain probes noted here or their usage in specific clinical applications with certain model systems may be limited by regulations or other requirements in some countries. Additionally, frequency ranges on certain probes are model system dependent. Please contact your local Hitachi representative regarding such limitations.

## Hi-Vision 8500

The Hi Vision™ 8500 Premium Ultrasound System is Hitachi's latest breakthrough in fully-digital ultrasound systems. At the core of its remarkable imaging capabilities is Sono MR technology which provides users with increased image resolution and the flexibility to tailor each image to the clinical need or patient body type.



Sono MR is the name we have given to the variety of image acquisition and processing techniques that can be combined on the Hi Vision 8500 to achieve outstanding image resolution no matter what the clinical need may be.

### Hi Compound™

- Real-time Compound Imaging
- Reduced Artifacts
- Increased Border Delineation

### Hi Res™

- Adaptive Algorithm Processing in Realtime
- Increased Contrast at Interfaces
- Reduced Speckle

### Raw Data Freeze

- Permits Manipulation of Imaging Parameters when Frozen
- Improves System Productivity
- Reduces Need to Rescan

### dynamic Tissue Harmonic Imaging (dTHI)

- Four Available Modes
- Dynamic Filter to Optimize Near and Far Field
- Reduced Artifacts

## Advanced Imaging Capabilities

- Wideband Pulse Inversion Imaging
- Directional Color Flow Angiography
- WideView Panoramic Imaging
- Contrast Harmonic Imaging
- 3D Imaging
- Omni-directional M-Mode Display

## Ease of Operation

- Logically Organized Backlit Keyboard
- One Touch Access to Commonly Used Functions
- User Defined Programmable Keys

- Lightweight and Compact

### **Specifications**

- Image Examination Modes: B, M, PW, CW, CFM
- B-Mode Image Display: Single Image and Dual Images
- Color Presentation Modes:
  - Standard Velocity: Direction & velocity displayed.
  - CFM: Low velocity flow amplitude
  - Directional CFA: Low velocity flow amplitude & direction
  - Color Flow Mapping
- Storage to Hard Disk, MO or Floppy
- External Dimensions: (W) 22 x (D) 35 x (H) 55
- Weight: 353 lbs.