

EUB 525

ULTRASOUND SYSTEM

Hitachi Medical...see the value!

The Hitachi EUB-525 ultrasound system is setting the standard for value and performance. Designed for versatility and affordability, the EUB-525 is the answer for today's health care challenges.

Image Quality. Using proprietary processing techniques, the EUB-525 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. The EUB-525 is also capable of performing all Doppler and color flow studies, with easier slow flow detection when using the color flow angiography option.

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 wide bandwidth operation includes frequencies from 2.5 MHz to 10 MHz. Another example of Hitachi's leadership is the ability to display a full 200° field of view on the V33W endocavity probe. This is the widest field of view available in any electronic endocavity probe.

Versatility. Coupled with the full line of multi-purpose and specialty probes, the EUB-525 satisfies your general and specialty 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.



Affordable, reliable, high-quality imaging.

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Overall External Dimensions

- Width: 17.7" (45 cm)
- Height: 51.6" (131 cm)
- Depth: 31.5" (80 cm)
- Weight: 286 lbs. (130 kg)

Specifications

Display Modes

- M mode
- 2D (B mode)
- 2D / M mode
- 2D / Spectral Doppler mode
- 2D / Spectral Doppler / M mode
- 2D / Color Flow mode
- 2D Spectral Doppler / Color Flow mode
- CW Doppler mode

Scan Method

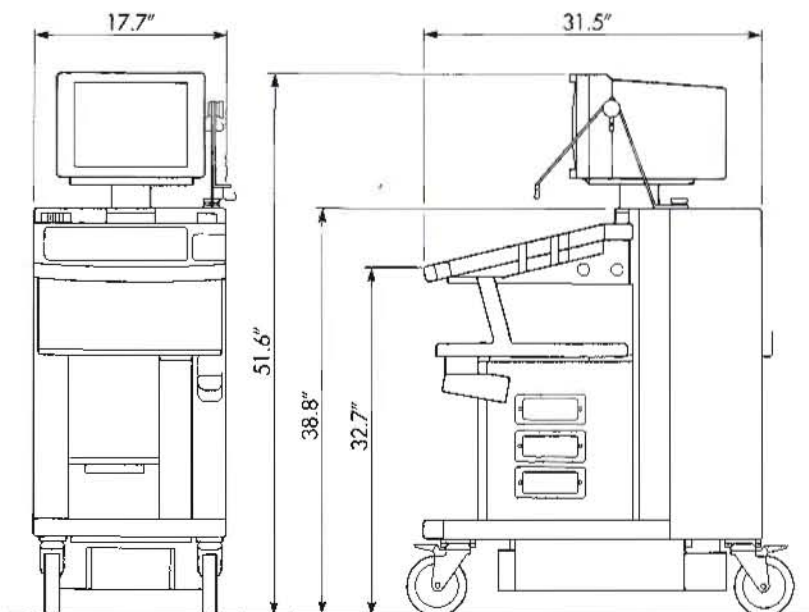
- Convex Array
- Linear Array

Ultrasound Transmitter - Receiver

- Eight step electronic transmitting focus
- Continuous dynamic focusing with variable aperture control on the receiving focus
- Continuous variable, sliding receive frequency filter
- Broad bandwidth operation, 2.5 MHz to 10 MHz
- Eight level Depth Gain Control
- Three settings for ultrasound transmit levels

Digital Scan Converter

- Dual split screen display
- Real time split screen display for bi-plane probe
- Depth range 3cm - 24cm
- Variable FOV up to 200° maximum, with electronic steering
- Image rotation, 90° steps
- Pre-processing
 - dynamic range selectable in 5 dB increments
 - eight level SCC
 - four level Edge Enhancement in axial and lateral directions
- Post Processing
 - four gamma correction curves
 - continuously variable rejection and saturation levels
- Cine Memory
 - easily controlled with trackball
 - continuous play back option
 - fourteen frame multi memory can be selected



Measuring Functions

- Distance
- Area
- Circumference
- Obstetric work sheet
- Vascular measurement package
- Urology measurement package
- Cardiac measurement package

Doppler Functions

- High PRF mode
- FFT high resolution analysis mode
- Electronic beam steering, $\pm 20^\circ$

Color Flow Mapping

- Color Flow Angiography mode (option)
- Programmable default settings
- One key user interface
- ROI box adjustable with trackball while scanning
- Velocity and variance map
- Color hold mode
- Peak hold mode
- B color mode

General Features

- Twelve inch, high resolution color monitor
- Large storage capacity for peripheral equipment
- Option for three probe connector

HITACHI

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Hitachi remains the leader in transducer technology. With the most crystal dense transducers on the market, Hitachi offers both compact, ergonomic designs and the most real scan lines of ultrasound information. The crystal technology transmits and receives over a wide frequency spectrum providing sharper image clarity at all depths. Advanced filtering techniques provide dual frequency selection for optimal patient/procedure settings. For the widest selection of advanced electronic transducer technology...see Hitachi.

Abdominal Imaging: EUP-C314T and EUP-C324T

The EUP-C314T is the workhorse for all abdominal imaging, the EUP-C324T is designed for higher resolution abdominal scanning. They are both wide bandwidth and dual frequency, providing optimal imaging at all depths. The 192 crystal elements can form 384 real scan lines, providing increased lateral resolution and a more detailed image.

Prostate Imaging and Biopsy: EUP-V33W

The EUP-V33W is the most technologically advanced prostate transducer on the market. With 192 crystal elements packed into a 10 mm scan head it is the smallest and most crystal dense transducer on the market. The crystal layout creates a 200° scanning plane in which the 120° field of view can be electronically steered. It can easily image both the sagittal and transverse planes of the prostate with a simple turn of the wrist. This eliminates the need for a costly biplane transducer for diagnostic studies.

Transrectal Procedures: EUP-U332 Transrectal Transducer

The EUP-U332 is designed specifically for transrectal monitoring of prostate treatment therapies. It offers curved array technology for a wide FOV in the transverse plane, linear array technology for imaging the entire prostate gland in the sagittal plane, and high frequency 7.5 MHz crystals that are ideal for monitoring the rectal wall.

Affordable, reliable, high-quality imaging.

EUP-C314T



EUP-C324T



EUP-V33W



EZU-PA3V

EUP-U332





Fully Automated Core Biopsy System

MBD™- When power and performance trump style.

Features and Benefits

- Uses dual action CBN™ core biopsy needles
- Proper length for versatile handling
- High speed precision core cut
- Has a penetration depth of 23 mm
- Economical
- Powerful and reliable

This powerful and reliable, yet economical biopsy solution is all business. Our MBD-23 biopsy device is compatible with our CBN™ Core Biopsy Needles. The device is a precise match between the CBN™ needle and Introducer and allows exact placement of the tip and sample notch of the needle into the lesion.

The MBD-23 device employs a two-stage mechanism so that the needle does not need to be removed to obtain tissue sample. The MBD-23 is made of stainless steel, aluminum and engineered resin and can be sterilized by multiple methods. Please consult product labeling for indications, warnings and directions for use.



Core Biopsy Replacement Needles

With US Biopsy® you always have a choice.

Features

Bevel or Trocar tip configuration
 Echogenic tip
 Etched depth marks
 ISO color coded
 MCN™ Integrated Guide Pin

Benefits

Provides choice when sampling dense tissue
 Enhances visibility under ultrasound
 Provides confirmation of position
 Provides easy identification
 Easier loading and no need to remove a spacer

US Biopsy manufactures two styles of core biopsy replacement needles to accommodate your preference of reusable biopsy device. The US Biopsy® CBN™ needle has a universal hub design that provides compatibility with our MBD™ device as well as the BARD® BIOPTY® and MANAN PRO-MAG™ biopsy devices. The US Biopsy® MCN™ needle has a universal hub design that provides compatibility with both versions of BARD® MAGNUM® biopsy devices.

The Integrated Guide Pin provides proper compatible with the BARD® MAGNUM® biopsy device. The Integrated Guide Pin is designed so the needle can be loaded and the hubs have complete freedom of movement during firings without the hassle of any adjustments or removal. U.S. Patent Nos. 7,309,317 and 6,918,881 and other patents pending.

Please consult product labeling for indications, warnings and directions for use.

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