



Hitachi Medical Systems' Values and Services

Hitachi Medical Systems combines high technology with the Asian tradition of long-term thinking, a high level of consciousness for quality aspects and the subsequent understanding of service.

In building valuable, long-term relationships with our customers, we have achieved an understanding of their different needs and expectations. This has strengthened our commitment to deliver high-quality products which fulfil the requirements of each unique clinical speciality.

We provide a one-to-one service to secure first-class customer satisfaction. The close working relationships among sales, applications and many other key members of Hitachi Medical Systems guarantee appropriate reactions and fast responses.

We always endeavour to go the extra mile. We succeed because we welcome new ideas, products and services.

Services such as our 360° educational programme, the Hitachi Medical Systems Technology Academy, offering tailor-made, added-value services and solutions for professionals in all fields of medicine and other interested groups.

We abide by our corporate philosophy which believes that we have a social responsibility to protect our environment, so that the next generation has a firm grounding on which to build a secure future.



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Ultrasound Transducers

Diversity with Compatibility



Hitachi Medical Corporation Medical System Operations Group, Kashiwa, is certified as complying with the International Standard of System Quality Assurance (ISO 9001), Medical Device Special Requirements (ISO 13485) and etc.

Hitachi Medical Corporation Medical System Operations Group, Kashiwa, has been certified to ISO 14001 (Environmental Management Systems).

The legal manufacturer of PENTAX ultrasound endoscopes is Hoya Corporation, Tokyo, Japan. They are distributed by Hitachi Medical Systems Europe Holding AG, Zug, Switzerland and its subsidiaries in the assigned geographical areas in Europe.

Specifications and physical appearance may be changed without prior notice in order to improve performance. Some features described are optional. Please read instruction manual to ensure correct operation of the equipment.

Ultrasound Transducers, Update-2 | e | 02.2010 | a+w

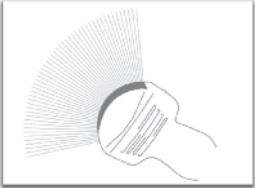






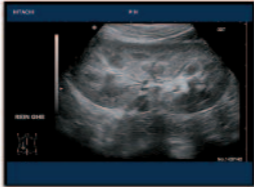

HITACHI
Inspire the Next

Our Transducer Range

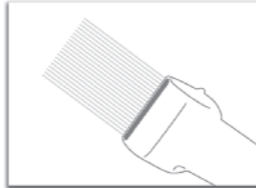

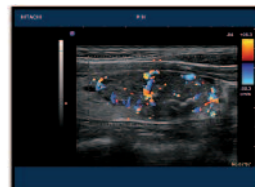
At the forefront of fundamental material research and cable design, Hitachi earned a place in history by introducing the first curved linear array. Today, Hitachi still manufactures the majority of its transducers in-house and is at the leading edge of transducer materials design.

Advances in transducer technology go hand-in-hand with more sophisticated system hardware developments. Hitachi's 7-series transducers represent just such advancement: the expanded bandwidth required to exploit the state-of-the-art technologies on our HI VISION platforms (compounding techniques, advanced tissue harmonics, and HI Rez+ tissue adaptive filtering). Each 7-series probe is designed for high performance across all operating frequencies.¹







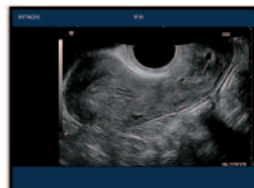
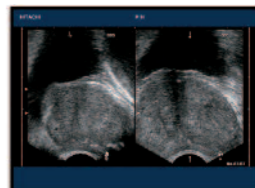
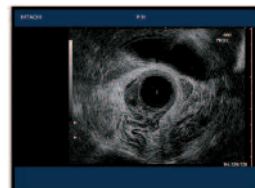
Convex Transducers

				
	EUP C715 · MHz: 5.0 – 1.0 · Convex 50R · Field of view: 75°	EUP C514 · MHz: 5.0 – 2.0 · Convex 40R · Field of view: 90°	EUP C516 · MHz: 5.0 – 2.0 · Convex 60R · Field of view: 65°	EUP C511 · MHz: 4.0 – 2.0 · Convex 10R · Field of view: 100°
				
	EUP C524 · MHz: 6.0 – 3.0 · Convex 40R · Field of view: 70°	EUP C532 · MHz: 8.0 – 4.0 · Convex 20R · Field of view: 85°	EUP C532 Paediatric kidney	EUP C715 First trimester fetus

Linear Transducers

				
	EUP L52 · MHz: 7.0 – 3.0 · Linear 38mm	EUP L73S · MHz: 9.0 – 4.0 · Linear 38mm	EUP L53 · MHz: 10.0 – 5.0 · Linear 64mm	EUP L53L · MHz: 10.0 – 5.0 · Linear 92mm
				
	EUP L74M · MHz: 13.0 – 5.0 · Linear 50mm	EUP L65 · MHz: 14.0 – 6.0 · Linear 38mm	EUP L53L Panoramic view of the breast showing a dilated duct and a small cyst	EUP L65 Hypervascular thyroid nodule

Endocavity Transducers

				
	EUP V53W · MHz: 8.0 – 4.0 · Convex 10R · Field of view: 200°	EUP U531 · MHz: 8.0 – 4.0 · Convex 10R · Field of view: 200°	EUP U533 · MHz: C 8.0 – 4.0 / L 10.0 – 5.0 · Convex 10R/Linear 64mm · Field of view: 200°/64mm	EUP CC531 · MHz: C 8.0 – 4.0 / C 8.0 – 4.0 · Convex 10R/Convex 10R · Field of view: 120°/120°
				
	EUP R54AW-19/33 · MHz: 10.0 – 5.0 · Radial 6R · Field of view: 360°	EUP V53W Normal uterine cavity	EUP CC531 Simultaneous Bi-Plane transverse and longitudinal sections of prostate	EUP R54AW-19 360° electronic radial view of an anal fistula

4D

				
	EUP CV524 · MHz: 6.0 – 3.0 · Field of view: 70° x 75°	EUP VV731 · MHz: 8.0 – 4.0 · Field of view: 140° x 80°	EUP LV74 · MHz: 13.0 – 5.0 · Field of view: 38.4mm x 25°	EUP CV524 Third trimester fetus





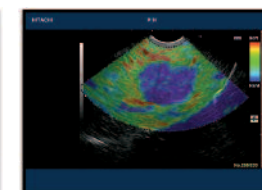


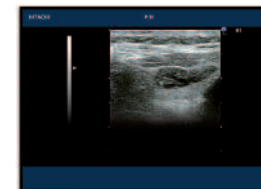
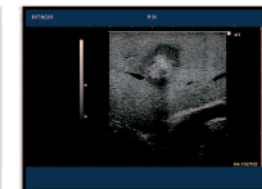
¹Transducer specifications may vary by platform

■ Hitachi Real-time Tissue Elastography (HI-RTE) enabled
■ Dynamic Contrast Harmonic Imaging (dCHI) enabled
■ Biopsy Guidance

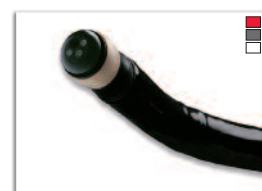
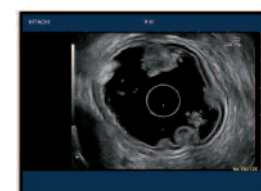
Biopsy Transducers

				
<p>EUP B512</p> <ul style="list-style-type: none"> · MHz: 5.0 – 2.0 · Convex 20R · Field of view: 78° 	<p>EUP B514</p> <ul style="list-style-type: none"> · MHz: 5.0 – 2.0 · Convex 40R · Field of view: 90° 	<p>EUP B512</p> <p>Superior image guidance to a renal tumour is given by the RVS fusion image mode</p>	<p>EUP B514</p> <p>Ultrasound guidance for a radiofrequency ablation of a gastrinoma</p>	

Laparoscopic/Intraoperative Transducers

				
<p>EUP OL531</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Convex 10R · Field of view: 120° 	<p>EUP OL334</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Convex 40R · Field of view: 70° 	<p>EUP OL531</p> <p>Laparoscopic visualisation of cholelithiasis</p>	<p>EUP OL531</p> <p>A liver metastasis is clearly delineated by HI-RTE using the laparoscopic probe</p>	
				
<p>EUP O54J</p> <ul style="list-style-type: none"> · MHz: 14.0 – 6.0 · Linear 22 mm 	<p>EUP O53T</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Linear 57 mm 	<p>EUP O54J</p> <p>The small footprint of this transducer makes it the ideal choice to guide a thyroid biopsy</p>	<p>EUP O53T</p> <p>Intraoperative view of a liver metastasis originating from a colon cancer</p>	

Endoscopic Transducers¹

				
<p>EG-3870UTK</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Convex 10R · Field of view: 120° 	<p>EB-1970UK</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Convex 6R · Field of view: 75° 	<p>EG-3870UTK</p> <p>Malignant lymph node showing significant stiffness (blue) in the elastography mode</p>	<p>EB-1970UK</p> <p>Electronic bronchoscope-guided fine needle aspiration of a mediastinal lymph node</p>	
				
<p>EG-3670URK</p> <ul style="list-style-type: none"> · MHz: 10.0 – 5.0 · Field of view: 360° 	<p>EG-3670URK</p> <p>Subacute pancreatitis with necrotising areas in the pancreatic tail, using low MI contrast mode</p>	<p>EG-3670URK</p> <p>360° electronic radial image clearly demonstrating the different mucosal layers</p>	<p>EG-3670URK</p> <p>Arterial flow pattern from the coeliac trunk</p>	

¹PENTAX ultrasound endoscopes

Phased Array Transducers

				
<p>EUP S70</p> <ul style="list-style-type: none"> · MHz: 5.0 – 1.0 · Field of view: 90° 	<p>EUP S52</p> <ul style="list-style-type: none"> · MHz: 7.0 – 3.0 · Field of view: 90° 	<p>EUP ES52E</p> <ul style="list-style-type: none"> · MHz: 8.0 – 3.0 · Field of view: 90° 	<p>EUP ES52E</p> <p>Aortic valve clearly seen in HdTHI mode</p>	

Biopsy Guidance coupled with Advanced Technologies

Hitachi's range of transducers is innovative and inspired, providing the gateway for mainstream applications, complex interventional procedures and premium technologies

Comprehensive biopsy guidance together with accurate localisation and targeting is key for successful diagnostic and therapeutic interventional procedures.

Biopsy Guidance

Hitachi is unique in the breadth of its support for interventional procedures with dedicated biopsy transducers, biopsy attachments for the majority of its standard imaging transducers, and integrated working channels for scopes that offer accurate needle guidance.



Examples of biopsy attachments for curved, linear and phased array transducers

When coupled with any of our advanced technologies that provide superior localisation and targeting, such as Hitachi Real-time Virtual Sonography (HI RVS), and Hitachi Real-time Tissue Elastography (HI-RTE), successful needle placement for interventional diagnostic and therapeutic procedures is assured.

Hitachi Real-time Virtual Sonography (HI RVS)

Hitachi Real-time Virtual Sonography (HI RVS) is your simple solution for combining multiple concurrent imaging techniques in one comprehensive examination. Giving you simultaneous real-time display of free-hand ultrasound images alongside corresponding Computed Tomography (CT) and Magnetic Resonance (MR) images, HI RVS advanced imaging technology offers you improved diagnostic accuracy and more precise image-guided intervention.

Hitachi Real-time Tissue Elastography (HI-RTE)

HI-RTE is an exciting innovation in ultrasound imaging which allows assessment and real-time colour display of tissue elasticity. With Hitachi's pioneering technology now adding a quantitative dimension – the technique has revolutionised the detection and visualisation of malignant disease and offers increased accuracy for tissue sampling in clinical areas such as the breast, prostate, thyroid and pancreas, and many more.

Our Ultrasound Platforms

Versatile to powerful without compromise – choose from a range of systems that deliver the performance, reliability and image quality to match your clinical requirements.

Across the HI VISION range of ultrasound platforms, we have maintained transducer compatibility, optimising your workflow and investment, especially in a multi-disciplinary setting. This allows you to choose from an array of platforms which delivers the performance, reliability and image quality according to your clinical and budgetary requirements.

High standards of functionality and ergonomics guarantee supreme operator and patient comfort, combined with the unmatched reliability and durability for which Hitachi is renowned.

HI VISION 900

The HI VISION 900 incorporates the highest levels of technology, to give you the best possible diagnostic confidence. In supporting a wealth of clinical applications and transducers, the HI VISION 900 is truly unique in today's market. The design of this system was driven by research, innovation and leading-edge technology, all focusing on the end user.

HI VISION Preirus

Anchored in Hitachi's rich technological expertise, the HI VISION Preirus has a platform architecture designed for the next generation and incorporates the latest in broadband beamforming techniques and ultrahigh speed image processing. With its unique ergonomic design, the HI VISION Preirus adapts to your environment to make you feel comfortable in your diagnosis.

EUB-7500 HV

The compact and affordable EUB-7500 HV provides outstanding performance across a wide range of clinical areas. The most powerful system in its class, it provides a wealth of diagnostic information through superior image-processing. Its unrivalled flexibility accommodates multi-specialty applications such as radiology, obstetrics/gynaecology, internal medicine, cardiovascular and endoscopic ultrasound (EUS).

HI VISION Avius

The HI VISION Avius is efficiently and attractively designed to offer you affordable high quality imaging, with compatibility to Hitachi's full range of standard and dedicated specialist transducers. Incorporating Hitachi's new system architecture and offering premium level technologies such as HI-RTE, you will have the confidence to put the HI VISION Avius at the heart of your diagnostic and interventional therapeutic ultrasound practice.

EUB-7000 HV/EUB-5500 HV

The EUB-7000 HV/EUB 5500 HV is a versatile quality platform, which delivers reliable clinical performance. This all-round system offers the latest technical imaging features combined with sophisticated transducer technology to support all clinical applications with accuracy and precision, ensuring complete diagnostic confidence, and providing investment protection whatever your requirements.

