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Resona R9

Premium Ultrasound System for Radiology

A new leap for precision ultrasound

Powered by ZST+

A new leap for precision ultrasound

Nowadays, more and more challenging cases and heavy workload drive senior radiologists to explorer new ways that make their clinical practice more confident and productive. Additionally, the increasing demands for minimally invasive treatment need to make interventional ultrasound more precise and safe.

No matter routine or difficult cases, Resona R9 has been designed for radiologists to taking a new leap for precision ultrasound. Powered by the revolutionary ZONE Sonography® Technology (ZST), Resona R9' s advanced ZST+ platform elevates ultrasound image quality to a higher level by zone acquisition and channel data processing.

Resona R9 provides more advanced tools for confident diagnosis. High frame rate CEUS and high frame rate STE brings you new tools to enhance the diagnostic confidence. Intelligence tools like Smart Breast and Smart HRI help to accelerate your daily workflow. For interventional ultrasound, the exclusive uHIT solution enables comprehensive fusion based 3D percutaneous ablation with more precision and security. If precision diagnostic and interventional ultrasound is all you need, Resona R9 is the key to take a new leap.

It rises.

With core platform advantages of ZST+

The channel data based ZST+ is an extraordinary innovation, representing an ultrasound evolution. Transforming ultrasound metrics from conventional beamforming to channel data based processing. Equipped with the advanced algorithms, ZST+ is able to deliver exceptional image quality in different clinical scenarios. Financially, the living technology provides you non-stop improvements that delivering extraordinary investment value.

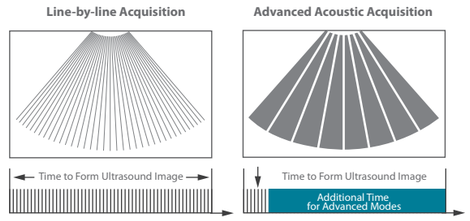
Powered by ZST+

Total Recall Imaging

As ZST+ captures and stores the complete acoustic raw data set. Total Recall Imaging allows system to do retrospective processing on channel data and also permits users to modify numerous imaging parameters on stored images to maximize clinical output.

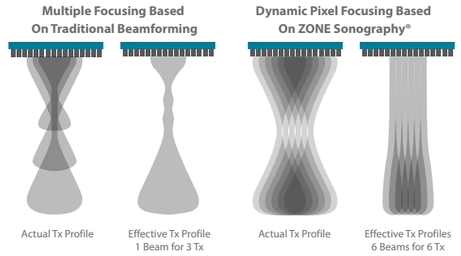
Advanced Acoustic Acquisition

By transmitting and receiving a relatively smaller number of large zones, Advanced Acoustic Acquisition extracts more information from each acquisition, 10 times faster than a conventional line-by-line beamforming method.



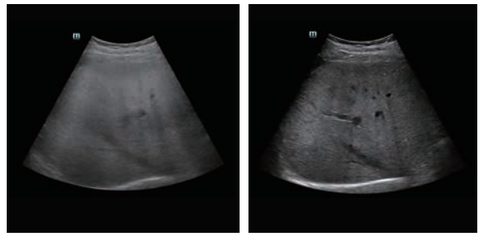
Dynamic Pixel Focusing

Dynamic Pixel Focusing technology allows the Resona R9 to achieve extreme uniformity in pixel level throughout the whole field of view. Now there's no need to adjust the focal positions to achieve uniformity across patient exams.



Sound Speed Compensation

By retrospectively analyzing complete channel data stored in channel data memory, the Resona R9 is able to intelligently choose the optimal sound speed to improve image accuracy even with tissue variation, allowing for adaptive tissue-specific optimization.

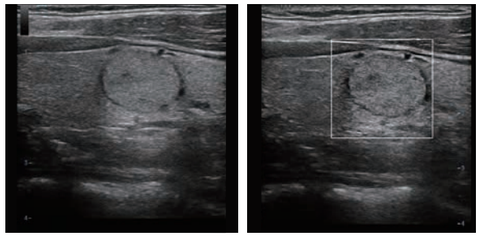


SSC OFF SSC ON

Enhanced Channel Data Processing

Channel data based ZST+ provides Enhanced Channel Data Processing for greatly improved imaging clarity. By multiple and retrospective channel data processing, it makes the best use of acoustic information for image improvement.

- **HD Scope:** higher definition image within ROI.

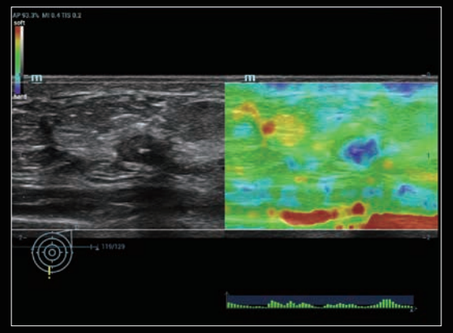


HD Scope OFF HD Scope ON

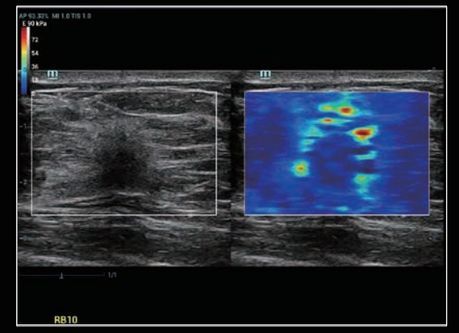
It releases.

A new standard of image clarity

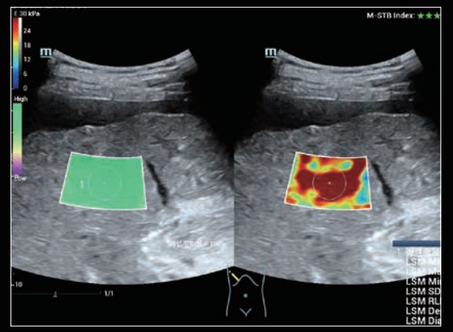
Better vision, deeper understanding. Based on the cutting-edge ZST⁺ platform, Resona R9 redefines a new standard of image performance to meet the needs of the most challenging clinical practices.



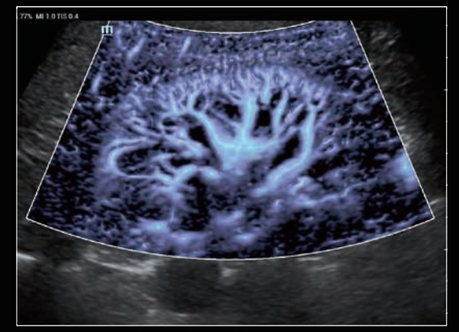
Strain Elastography of Breast Mass



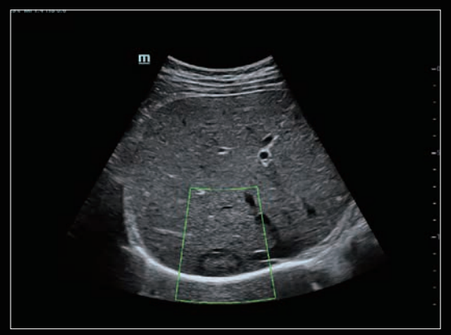
STE of Breast Carcinoma



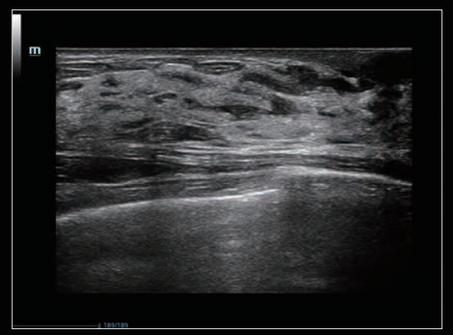
STE of Liver Cirrhosis



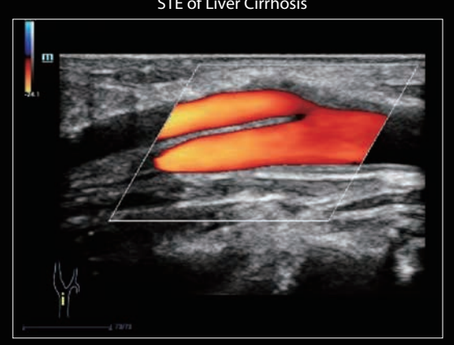
Glazing Flow of Renal Artery



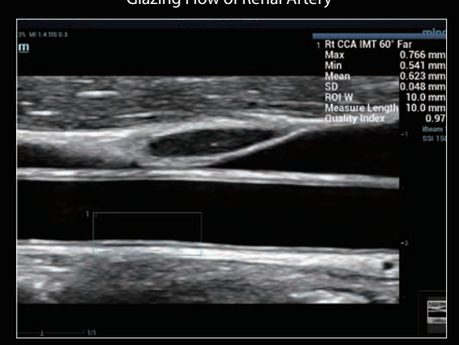
Liver Mass with HD Scope



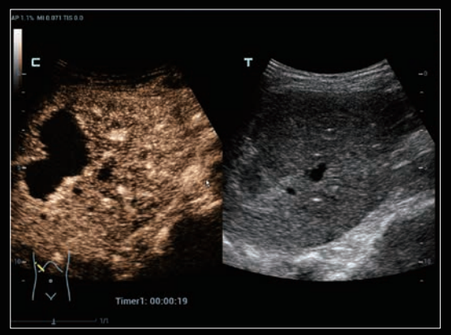
Hyperplasia Of Mammary Glands



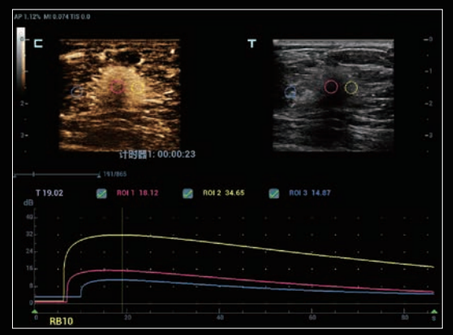
CCA and Jugular Vein



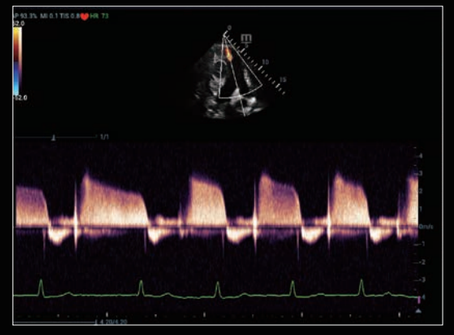
CCA IMT



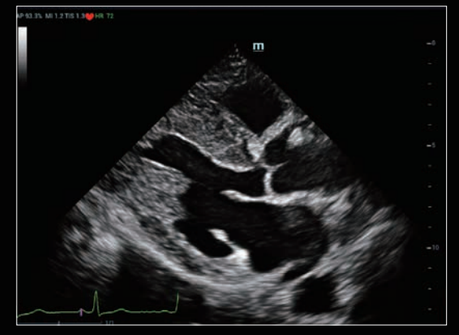
CEUS of Liver Hemagioma



CEUS TIC of Breast Carcinoma



Cardiac Pulmonary Regurgitation



Cardiac HCM

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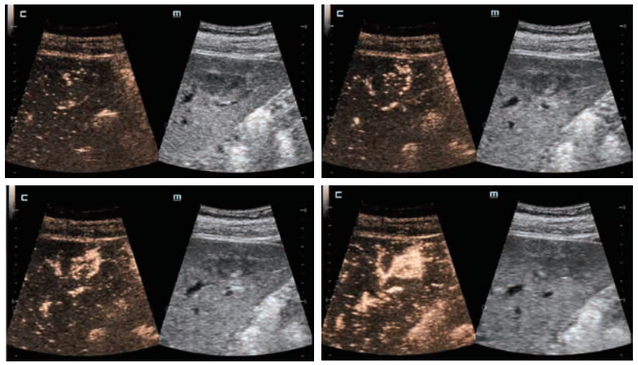
It progresses.

Innovative clinical tools for confident diagnosis

Advanced CEUS

With UWN+ Contrast Imaging, Plane wave based CEUS, Micro Flow Enhancement and the new High frame rate CEUS (HiFR CEUS) technologies, Resona R9's advanced CEUS portfolio defines the new way to assess the perfusion dynamics and angiogenesis in a wide range of clinical applications which have never seen before.

- **HiFR CEUS**: 4-17 times faster than traditional CEUS, enables more detailed vascular structure and perfusion character visualization in arterial phase, especially useful in tumor diagnosis between benign and malignant
- **Micro Flow Enhancement**: delineates the detailed micro vascular structure of tumors for early cancer diagnosis, provides independent prognostic data for clinical staging.

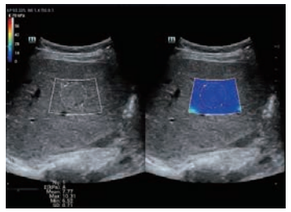


Liver HCC in arterial phase
HiFR CEUS：37 FPS

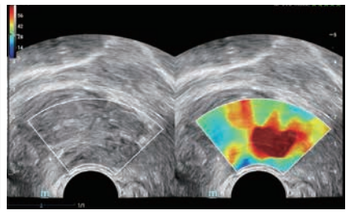
Comprehensive Elastography

Resona R9's comprehensive shear wave (STE/STQ) and strain elastography (NTE) imaging provide you tissue stiffness information from head-to-toe. High frame rate STE enables more smooth and consistent STE bringing more confidence in diagnosis. The exclusive elasticity tools enable dedicated shell analysis and better motion control.

- **Full application**: Thyroid, breast, abdomen, MSK and prostate
- **Complete STE/STQ/NTE**: comprehensive 2D real time shear wave, point shear wave and strain elastography
- **High performance shear wave**: High frame rate STE, with good penetration and high reproducibility, zero cooling time
- **Exclusive elasticity tools**: shell analysis for infiltration area assessment, M-STB index for motion control



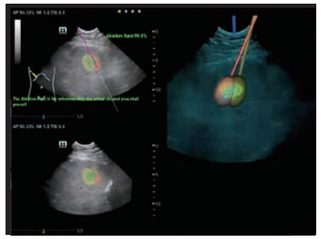
STE of Liver Fibrosis



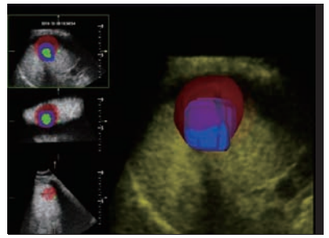
STE of Prostate Carcinoma

Ultrasound guided Hepatic Interventional Therapy (uHIT)

The advanced fusion-based 3D ablation tool elevates your liver percutaneous ablation procedure to the next level. The 3D ablation planning and 3D ablation guidance enable more accurate and intuitive 3D view planning with less experience dependency. The 3D ablation evaluation provides no dead-end 3D ablation evaluation instantly.



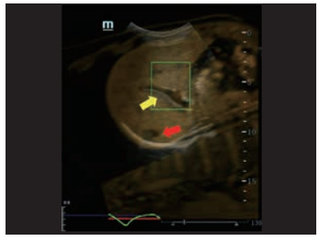
Two needle 3D ablation planning in HCC uHIT Navi



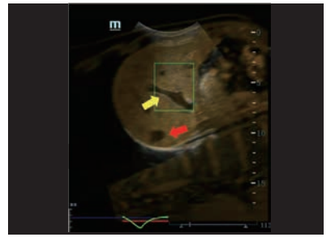
3D ablation Evaluation in RFA uHIT Evaluation

iFusion with Respiration Compensation

Bringing the precision of fusion imaging to a new level, Mindray's pioneering, innovative and exclusive respiration compensation technology - supported by a sensitive magnetic motion sensor with millimeter accuracy - can help eliminate distortion and fusion inaccuracy caused by patient respiration.



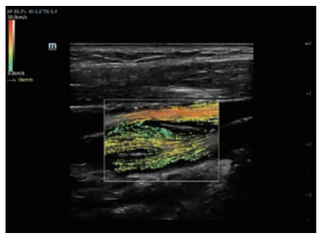
iFusion without Respiration Compensation



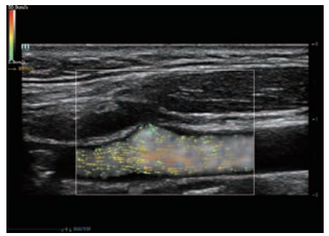
iFusion with Respiration Compensation

V Flow

V Flow (Vector Flow) is a novel approach for vascular hemodynamic analysis. V Flow uses color coded vector arrows to indicate the velocity's magnitude and direction of blood cells. With ultra-high frame rate, it provides extremely vivid, accurate and angle-independent visualization of complex vascular hemodynamics profiles. With comprehensive data information, V Flow is the most valuable tool for vascular clinical research.



V Flow of Carotid Bulb and JV



V Flow of CCA and ICA

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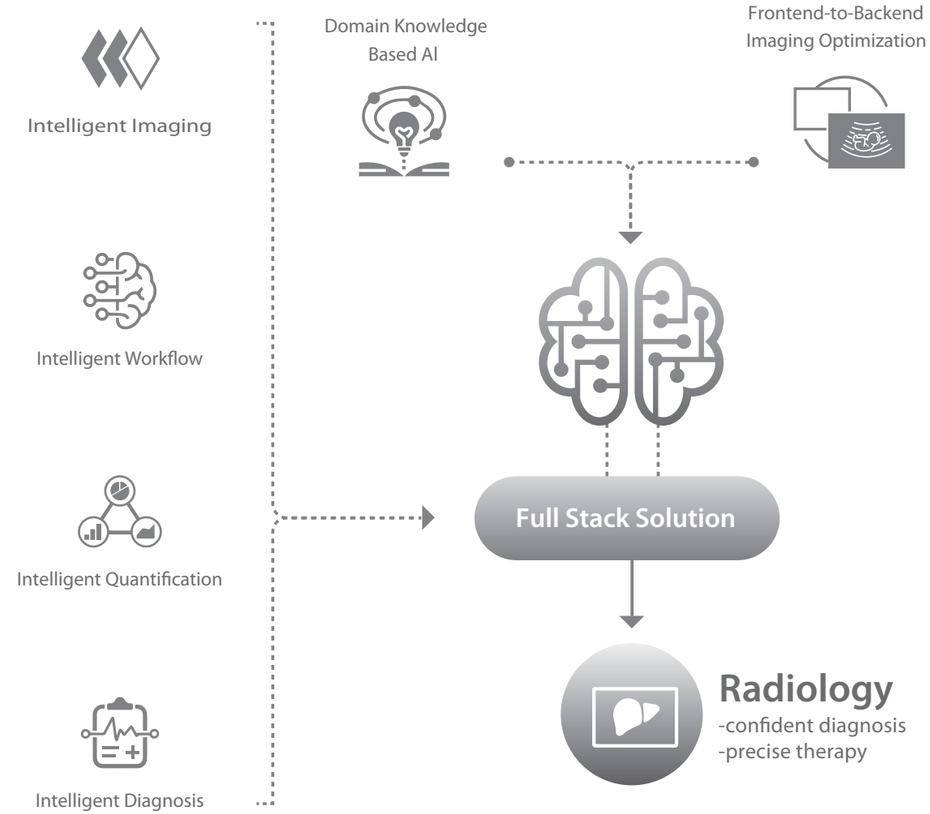
It leads.

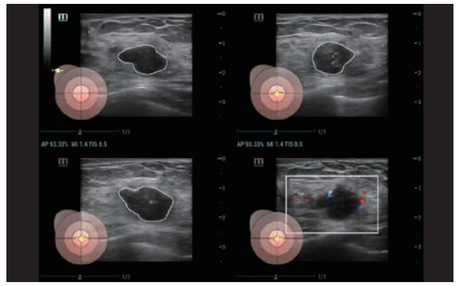
Forwarding smart to clinical intelligence

The Resona R9 elevates clinical intelligence to a new level with a complete solution that enables clinicians to manage both routine and advanced studies more efficiently, consistently, and accurately, from acquisition to calculation. As an example, Smart Breast shows exceptional intelligence in accurate breast ultrasound classification and reporting.



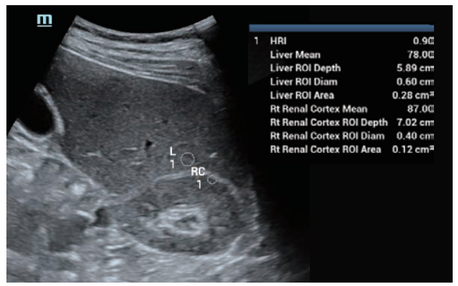
Smart Breast

Smart Breast is an intelligent breast ultrasound classification and reporting tool to make your clinical routine of breast ultrasound more accurate, productive. 4-planes based BI-RADS analysis enables more comprehensive and accurate breast lesion classification. Meanwhile the streamlined automated workflow provides more productive breast scanning.



Smart HRI

Smart HRI is an intelligent liver steatosis assessment tool by automatically calculating brightness of the liver with renal cortex in B mode. Quantitative analysis of fatty liver delivers more reliable and accurate data than traditional qualitative estimation. Additionally, one-push-button liver and renal cortex recognition enables fast and easy to use liver steatosis assessment.



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It senses.

Ensuring a better user experience

The Resona R9 is designed around you. 13.3" high resolution gesture control touch screen enables an agile, smart, and intuitive user experience beyond your expectations. Silence scan reduces up to 44% acoustic pressure in clinical routine. The standby battery provides power for system stay in standby mode by up to 24 hours. Inspired innovations drive a better user experience.

13.3" gesture control touch screen
High resolution(1920x1080) LCD
anti-glare touch screen

Six direction floating control panel
With Electronic control height adjustment

High resolution LED monitor
with wide angle of view

Silence Scan Reduce by up to 44%
acoustic pressure in clinical routine*

Standby battery
Standby mode for up to 24 hours

*Data on file, compared with the old version, depending on different test environment, results may varies;

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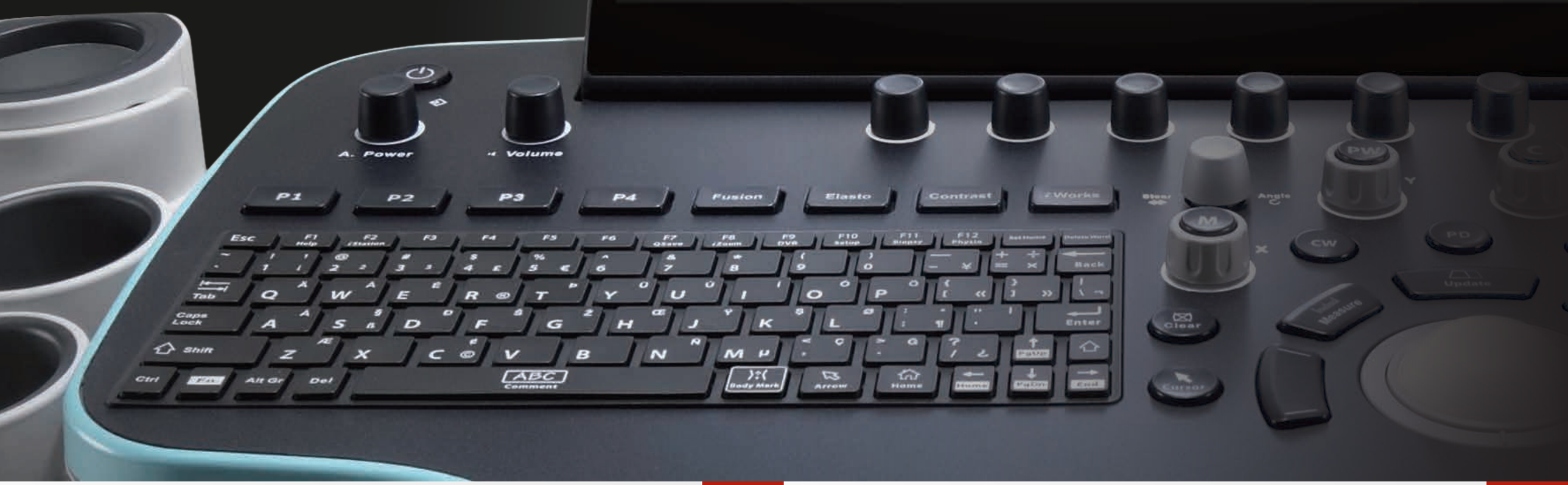
It resonates.

With innovation, better diagnosis, and healthier life

Healthcare is, and remains, one of the most pressing challenges facing humanity across the globe. Technology, the core driver in many diverse industries, is transforming healthcare to a new level of resonance with unprecedented clinical precision, diagnostic confidence, patient safety and satisfaction. The same is true for ultrasound.

With more than 20 years' experience in ultrasound development, Mindray constantly endeavors to integrate the most advanced, reliable ultrasound technology to products of amazing quality, for increasingly enhanced clinical confidence and patient care. Medical minds think alike. By making ultrasound technology better, we are making lives better.



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