

Resona 7
Premium Ultrasound System

**New Waves in
Ultrasound Innovation**

With Zone Intelligence



New Waves in Ultrasound Innovation

Since the company was founded, Mindray has been continuously exploring new ways to improve diagnostic confidence. Powered by the most revolutionary ZONE Sonography® Technology, Resona 7's new ZST+ platform brings ultrasound image quality to a higher level by zone acquisition and channel data processing.

As well as the premium level image quality, Resona 7 also enhances clinical research capabilities with the revolutionary V Flow for vascular hemodynamic evaluation, and the most intelligent plane acquisition from 3D datasets for fetal CNS diagnosis. Combining the most intuitive gesture-based multi-touch operation and all the essential clinical features, Resona 7 is truly leading new waves in ultrasound innovation.



It rises.

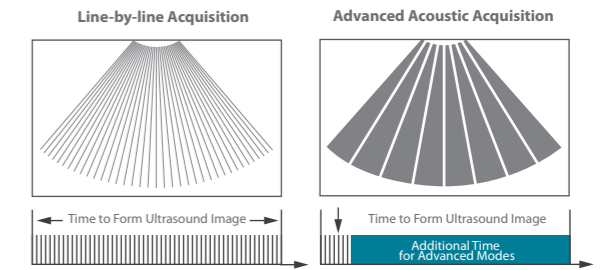
With core platform advantages of ZST⁺

The channel data based ZST⁺ is an extraordinary innovation, representing an ultrasound evolution. Transforming ultrasound metrics from conventional beamforming to channel data based processing, ZST⁺ is able to deliver multiple imaging advances: Advanced Acoustic Acquisition, Dynamic Pixel Focusing, Sound Speed Compensation, Enhanced Channel Data Processing and Total Recall Imaging.



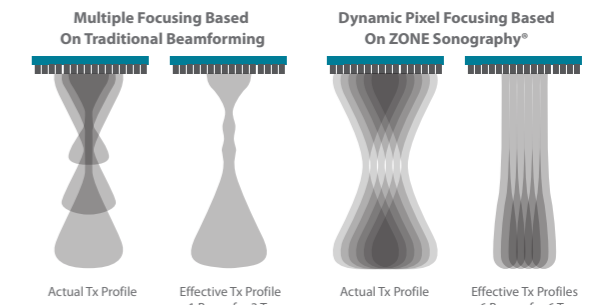
Advanced Acoustic Acquisition

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 7 to achieve extreme uniformity at the pixel level throughout the entire field of view. Now there's no need to adjust the focal position to achieve uniformity across patient exams.



Sound Speed Compensation

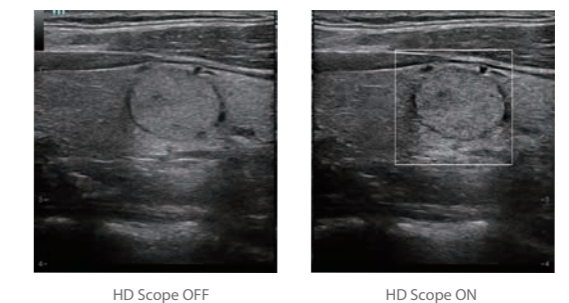
By retrospectively analyzing complete channel data stored in channel data memory, the Resona 7 is able to intelligently choose the optimal sound speed to improve image accuracy even with tissue variation, allowing for adaptive tissue-specific optimization.



Enhanced Channel Data Processing

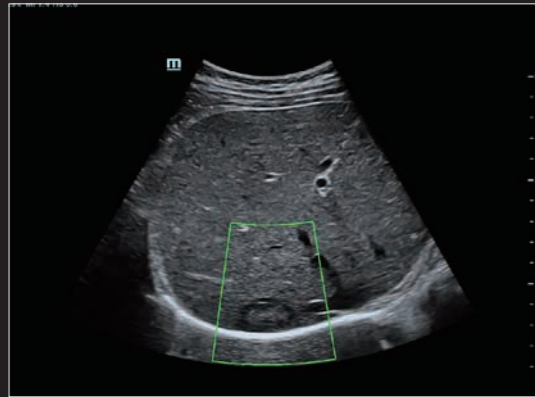
Channel data based ZST⁺ provides Enhanced Channel Data Processing for greatly improved image clarity. By multiple and retrospective channel data processing, it makes the best use of acoustic information for image improvement.

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

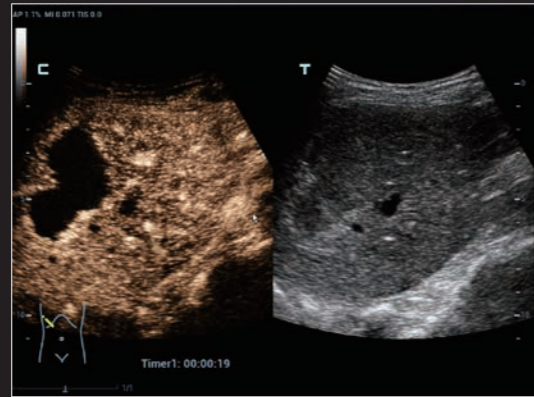


Total Recall Imaging

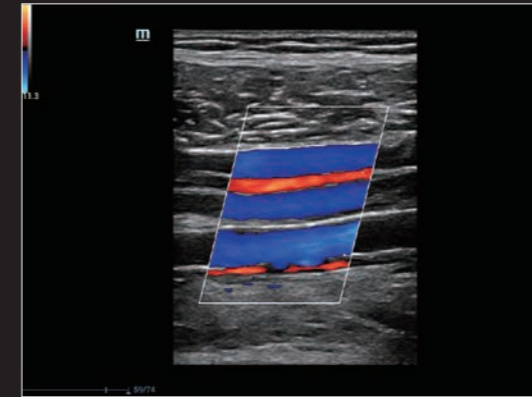
ZST⁺ captures and stores the complete acoustic raw data set. Total Recall Imaging allows the system to do retrospective processing on channel data and also permits users to modify numerous imaging parameters on stored images to maximize clinical output.



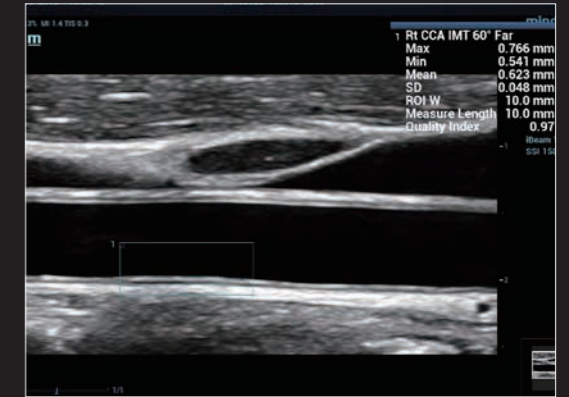
Liver Mass with HD Scope



CEUS of Liver Hemangioma



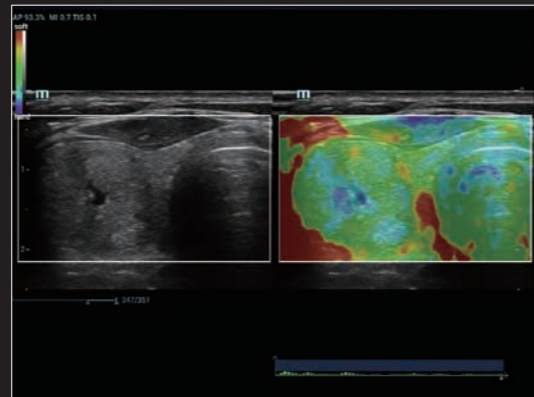
Tibial Vein and Artery



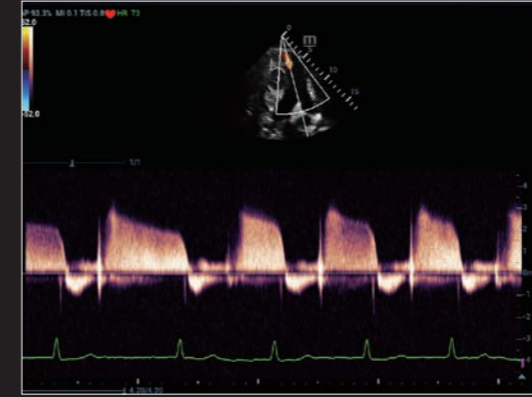
CCA IMT



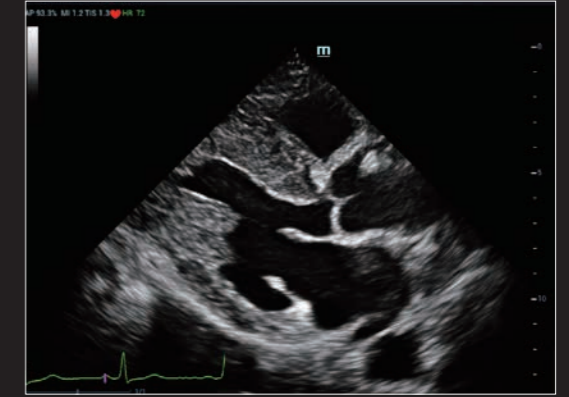
Hyperplasia Of Mammary Glands



Elastography of Thyroid Mass



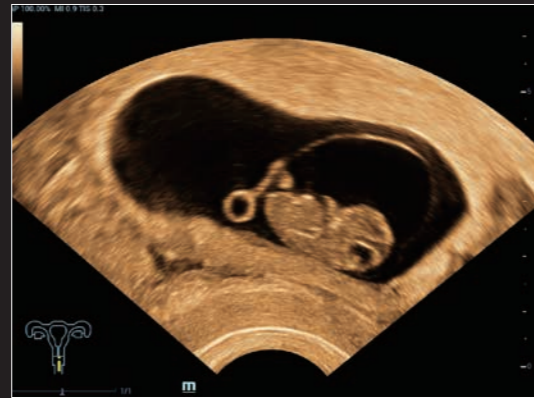
Cardiac Pulmonary Regurgitation



Cardiac HCM



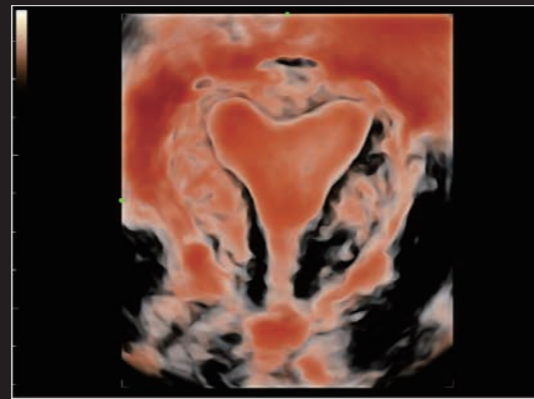
Choroid Plexus on a 14 week fetus



High definition image on an 8-week fetus



A Vivid Fetal face with iLive



Uterus Arcuatus with Hyaline

It releases.

A new standard of image clarity

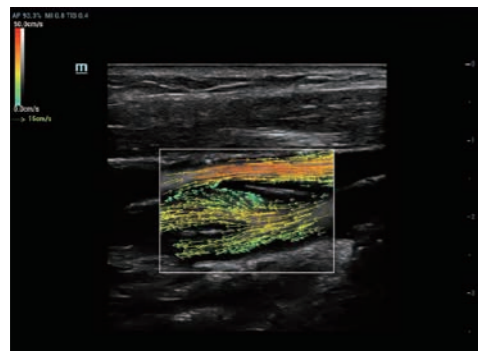
Better vision, deeper understanding. Based on the cutting-edge ZST⁺ platform, Resona 7 redefines a new standard of image performance to meet the needs of the most challenging clinical practices.

It progresses.

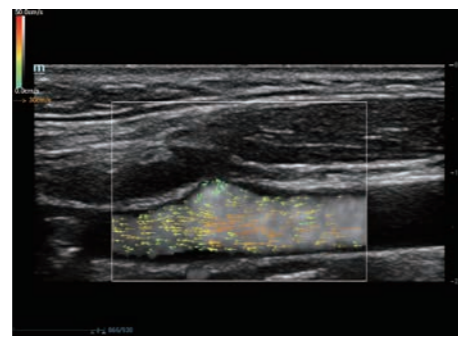
Innovative clinical tools for confident diagnosis

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 rates, it provides extremely vivid, accurate and angle-independent visualization of complex vascular hemodynamic profiles. With comprehensive data information, V Flow is the most valuable tool for vascular clinical research.



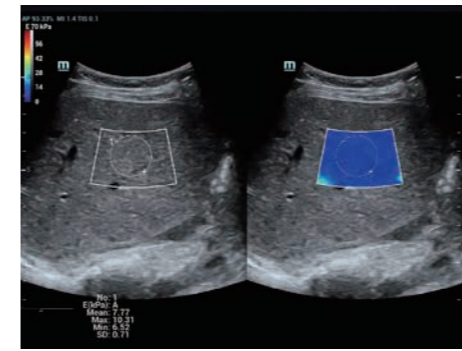
V Flow of Carotid Bulb and JV



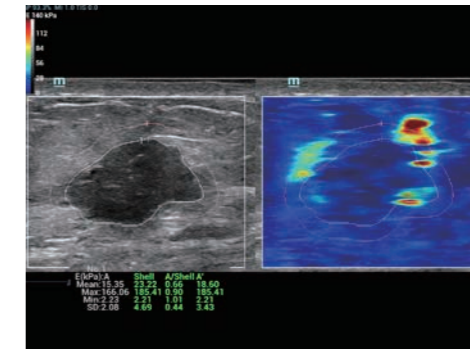
V Flow of CCA and ICA

Sound Touch Elastography (STE)

STE is integrated with Mindray's exclusive Ultra-wide Beam Tracking technology for real time 2D shear wave elastography. The integrated measurement tools enable comprehensive quantitative elastic analysis. Meanwhile, the operator independent STE ensures good reproducibility and highly consistent quantitative elastic results.



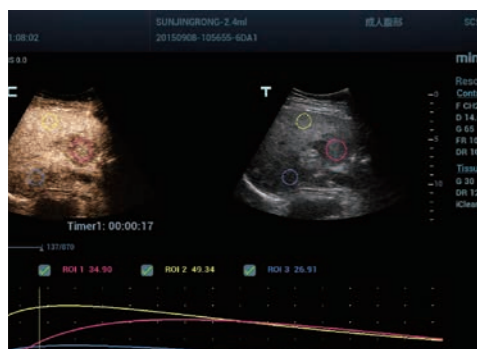
STE of Liver Fibrosis



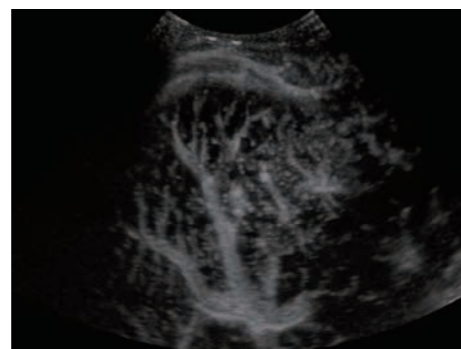
STE Shell of Breast Mass

UWN⁺ Contrast Imaging

UWN⁺ (Ultra-Wideband Non-linear Plus) CEUS enables the Resona 7 to detect and utilize both the 2nd harmonic and non-linear fundamental signals, generating significantly enhanced images, resulting in greater sensitivity of minor signals and longer agent duration with lower MI.



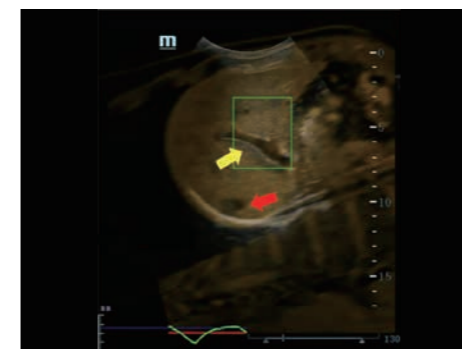
TIC Analysis of CEUS



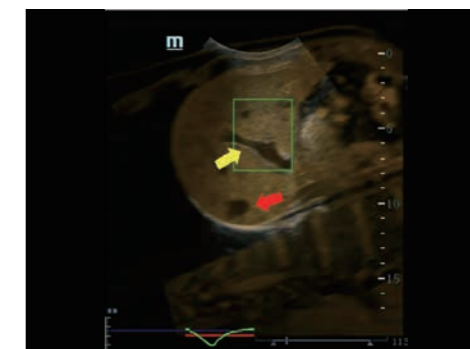
Micro Flow Enhancement

iFusion with Respiration Compensation

Bringing the precision of fusion imaging to a new level, Mindray's 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

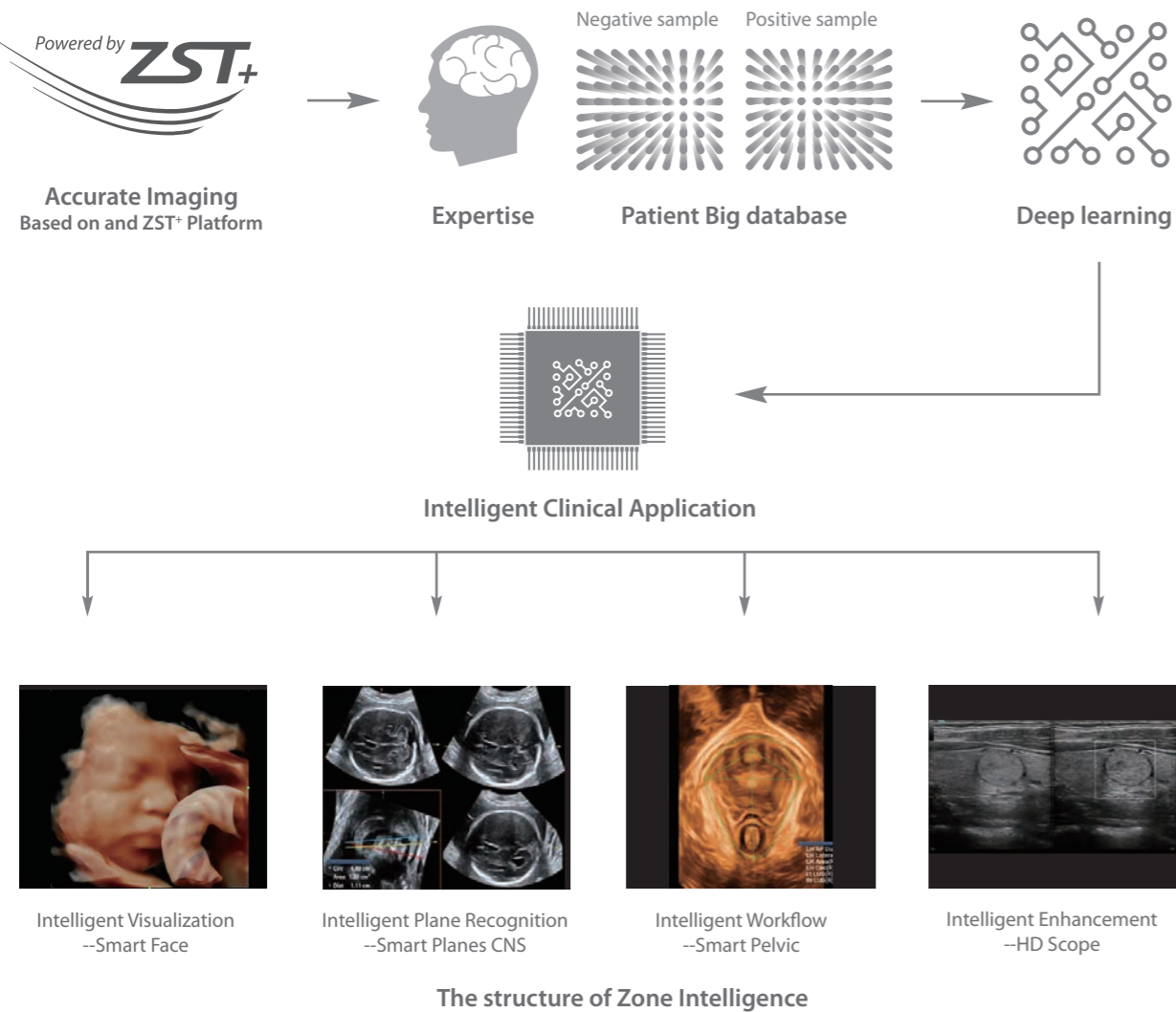


iFusion with Respiration Compensation

It leads.

Forwarding smart to clinical intelligence

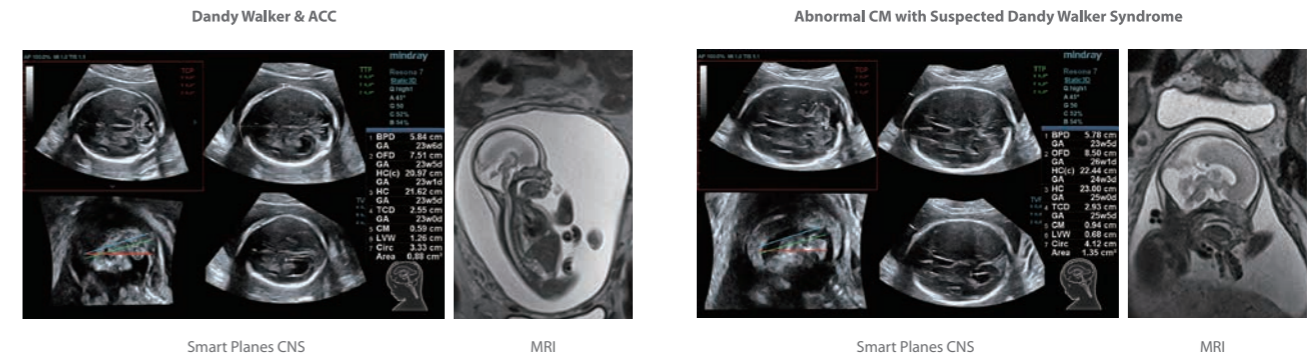
The Resona 7 elevates clinical intelligence with a complete solution that enables clinicians to manage both routine and advanced studies more efficiently, consistently, and accurately, from acquisition to calculation. As an example, Smart Planes CNS shows exceptional intelligence in accurate diagnosis and analysis of the fetal central nervous system (CNS).



Smart Planes CNS

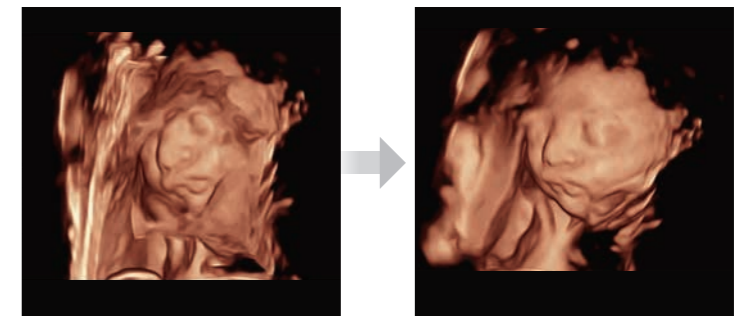
Mindray's exclusive pioneering technology positions the Resona 7 as the industry's first ultrasound system to allow fully automatic and accurate detection of the most significant planes and frequently used measurements of fetal CNS, leading to intelligent diagnosis, improved throughput, and reduced user dependence.

Smart Planes CNS provides a user-friendly tool that greatly improves scanning efficiency through increased accuracy coupled with automated operation. With a simple button click on a 3D fetal brain volume image, the standard CNS scanning planes (MSP, TCP, TTP and TVP) and a range of related anatomical measurements (BPD, HC, OFD, TCD, CM and LVW) are obtained immediately.



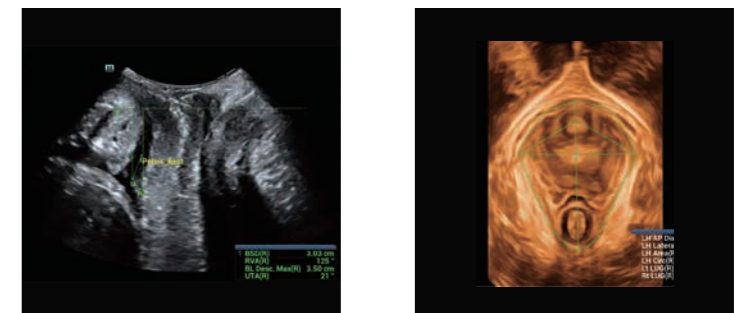
Smart Face

Acquiring an optimal view of the fetal face in 3D ultrasound is cumbersome and time-consuming. In some cases, it is impossible to get rid of the occlusions such as cord, placenta, uterus and extremities. The new Resona 7 with Zone Intelligence provides a fast and intelligent optimization for fetal face with simply one-touch. It can immediately remove occlusions in the volume data, eliminate unwanted noise information, and generate an optimal view of the fetal face with minimal effort.



Smart Pelvic

Realizing the increasing importance of ultrasound diagnosis on pelvic floor disorders, the new Resona 7 with Zone Intelligence provides a new solution to greatly simplify the operation procedures, and minimize the exam time for standardized evaluation of the pelvic floor. With extremely simple user-interaction, it generates a standard coordinate system and automatically provides all related measurements within a few seconds.



It senses.

Ensuring a better user experience

The Resona 7 is designed around you. Gesture-based operation opens up a new trend in cart-based ultrasound with an agile, smart, and intuitive user experience beyond your expectations. Gel warmer's three level temperature and swiveling angle adjustment of the control panel delivers great patient comfort and user convenience.



Tilting multi-gesture touch screen



Six direction floating control panel



High resolution LED monitor with wide angle of view



Gel warmer with three temperature levels



Pinless transducer with light indicator

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' of 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.

