Mindray

Resona 6
Premium Ultrasound System

New Waves in
Ultrasound Innovation

mindray
healthcare within reach

New Waves
in Ultrasound
Innovation

Since the company was founded, Mindray is continuously exploring new ways to improve diagnostic confidence. Powered by the revolutionary ZONE Sonography® Technology, Resona 6's new ZST+ platform brings ultrasound image quality to a higher level by zone acquisition and channel data processing.

As well as ZST+ powered premium image quality, Resona 6 also provides essential clinical features with proven performance, intelligent total solution and intuitive gesture-based operation. All of these above have built up Resona 6 as the achievable premium solution to address challenges of clinical accuracy and efficient diagnosis in today's demanding and overburden hospital environments.
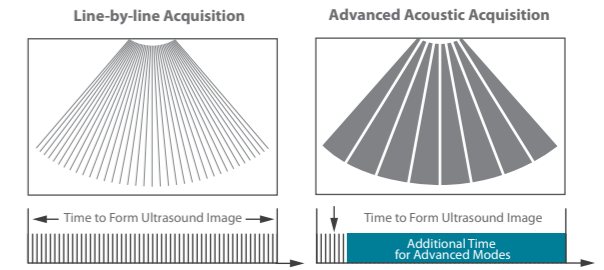
It rises.
With core platform advantages of ZST⁺

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.
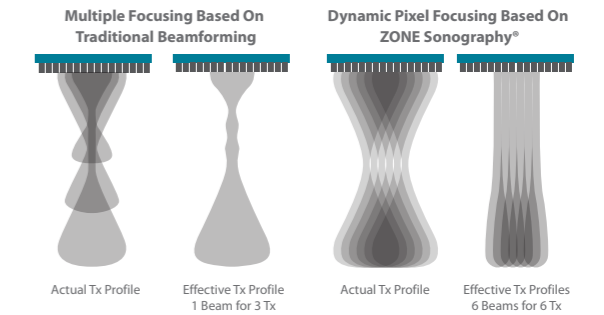
Powered by **ZST+**

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.

Line-by-line Acquisition   **Advanced Acoustic Acquisition**

Time to Form Ultrasound Image   Time to Form Ultrasound Image
Additional Time for Advanced Modes

Dynamic Pixel Focusing
Dynamic Pixel Focusing technology allows the Resona 6 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.

Multiple Focusing Based On Traditional Beamforming   **Dynamic Pixel Focusing Based On ZONE Sonography®**

Actual Tx Profile   Effective Tx Profile 1 Beam for 3 Tx   Actual Tx Profile   Effective Tx Profiles 6 Beams for 6 Tx

Sound Speed Compensation
By retrospectively analyzing complete channel data stored in channel data memory, the Resona 6 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
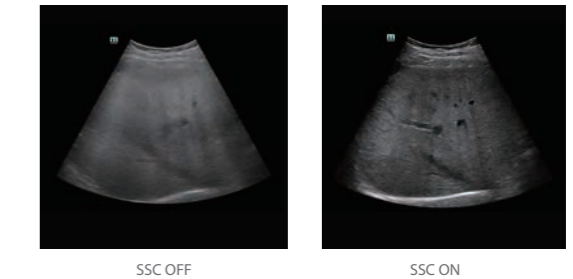
Enhanced Channel Data Processing
Channel data based ZST⁺ provides Enhanced Channel Data Processing for greatly improved imaging clarity. By multiple and retrospective channel data processing, it makes the best use of acoustic information for image improvement.
• **HD Scope:** By processing channel data retrospectively, HD Scope enables tissue-specific enhancement with improved detailed information and image contrast on specific region of interest.
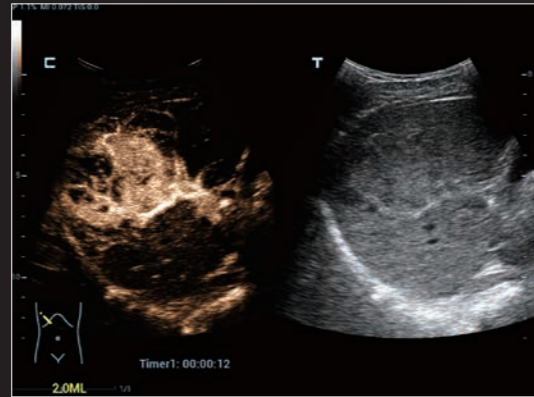
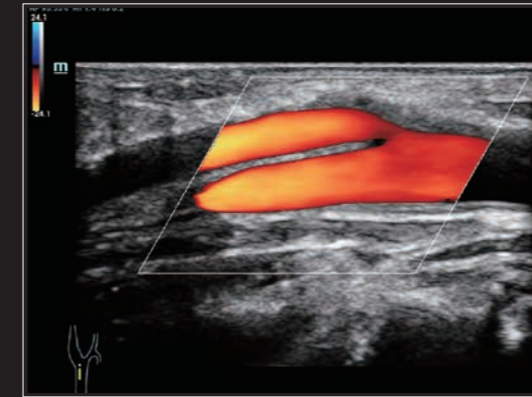HD Scope OFF   HD Scope ON
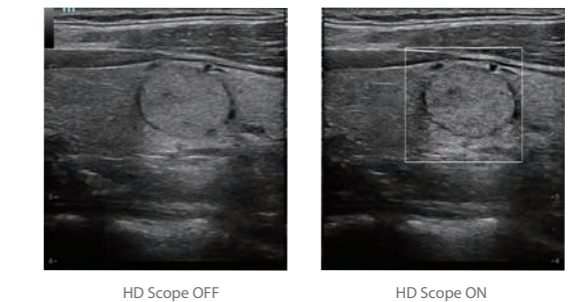
Total Recall Imaging
As ZST⁺ captures and stores the complete acoustic raw data set. Total Recall Imaging allows system to do retrospective processing on channel data and also permits users to modify numerous imaging parameters on stored images to maximize clinical output.
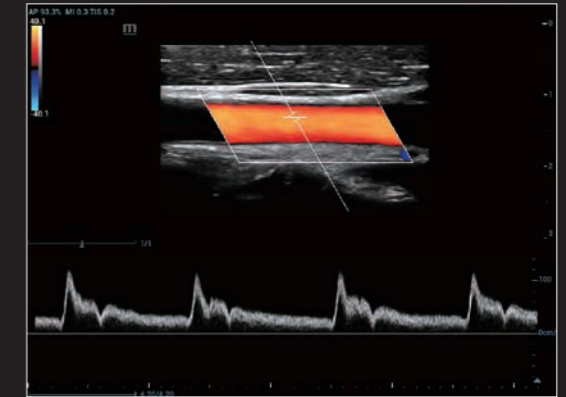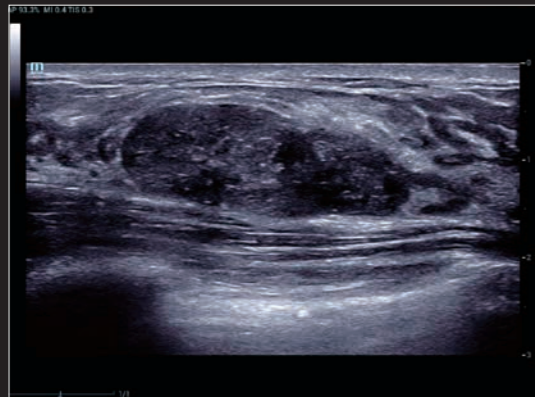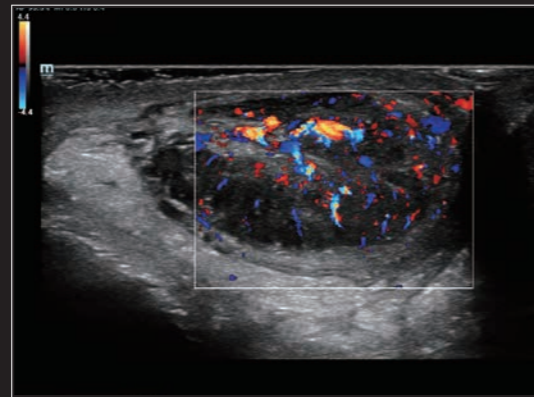
HR Flow in Kidney Perfusion

CEUS of HCC

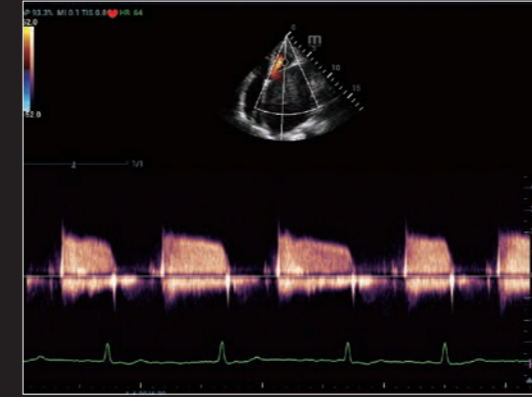Fibroadenoma of Breast

Testicle Mass with CDI
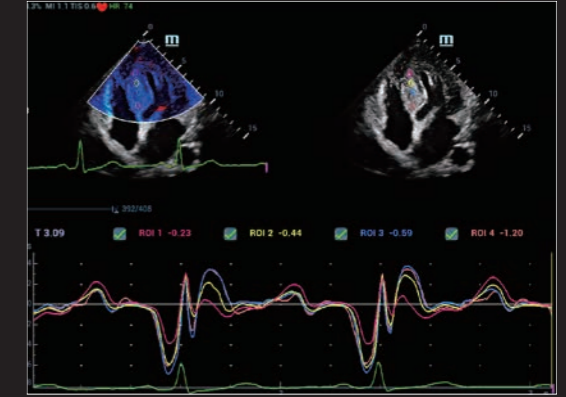
Fetal Omphalocele
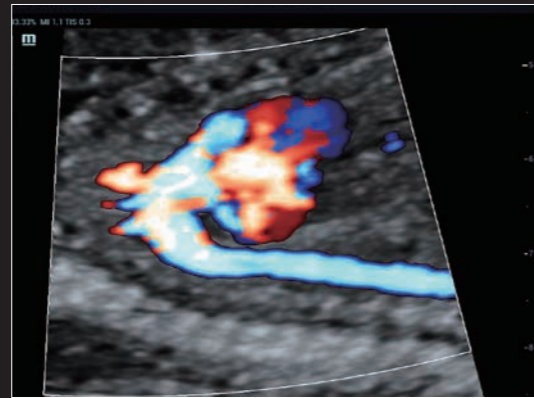
Fetal Aortic Arch
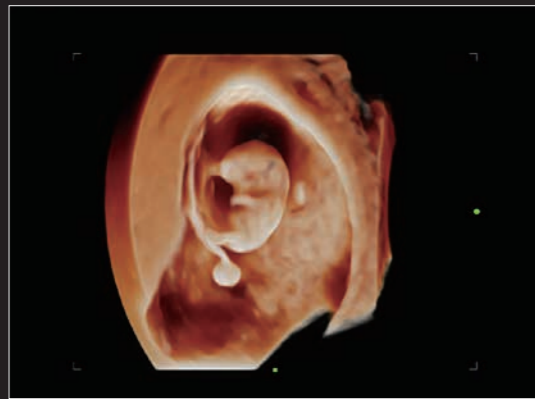
9 weeks Fetal Profile with New iLive
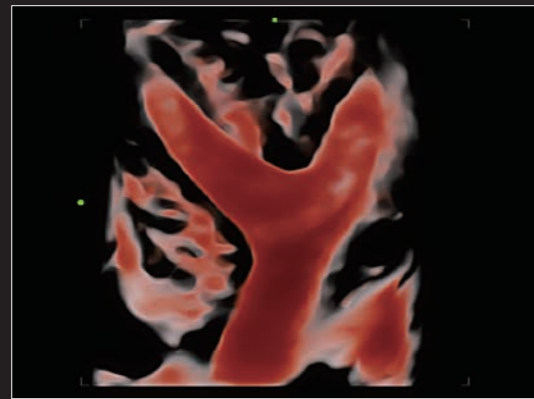
3D Bicornuate Uterine Anomaly with Hyaline

Branch of CCA

Duplex of CCA

Mitral Stenosis

TDI QA

It releases.
A new standard of image clarity

Better vision, deeper understanding. Based on the cutting-edge ZST$^+$ platform, Resona 6 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

Complete RF-data Based Solution for Early Vascular Diagnosis (RIMT&R-VQS)

Based on radio frequency data (RF-Data) with rawer acoustic information, RIMT and R-VQS provide automatic, real-time IMT and vessel stiffness measurements with extremely higher accuracy, less dependence on image quality, and more quantifications of latest six heart cycles for greatly improved diagnostic confidence.
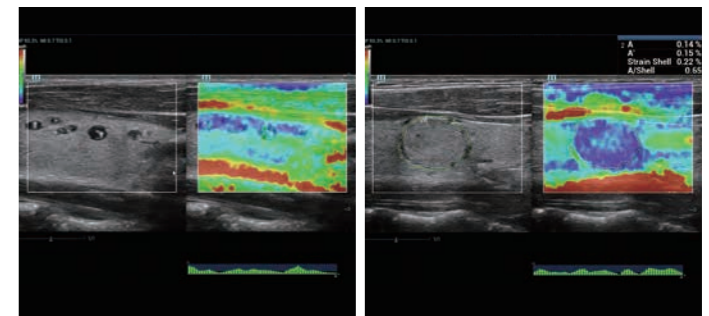

RIMT   R-VQS

Natural Touch Elastography

Based on Mindray's exclusive elastography algorithm, Natural Touch Elastography enables higher stiffness sensitivity and better reproducibility, reducing dependence on operator's scanning skill and improving clinical output and user experience for higher clinical utility.
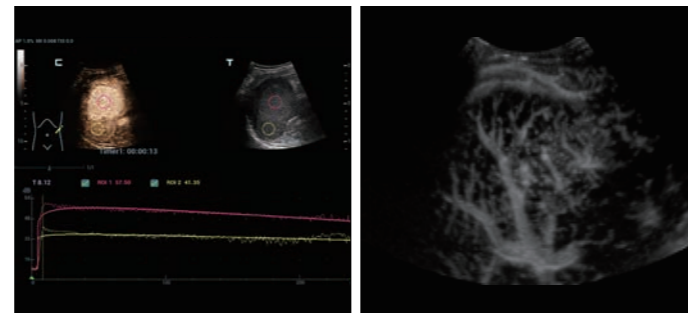

Elastography of Thyroid Nodules   Shell analysis of Thyroid Mass

UWN⁺ Contrast Imaging

UWN⁺ (Ultra-Wideband Non-linear Plus) CEUS enables the Resona 6 to detect and utilize both 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

Sound Touch Quantification (STQ)

STQ is integrated with Mindray's exclusive Ultra-wide Beam Tracking technology for shear wave elastography quantification. The integrated measurement tools enable comprehensive quantitative elastic analysis. Meanwhile, the operator independent STQ ensures good repro-ducibility and brings high consistent quantitative elastic results.
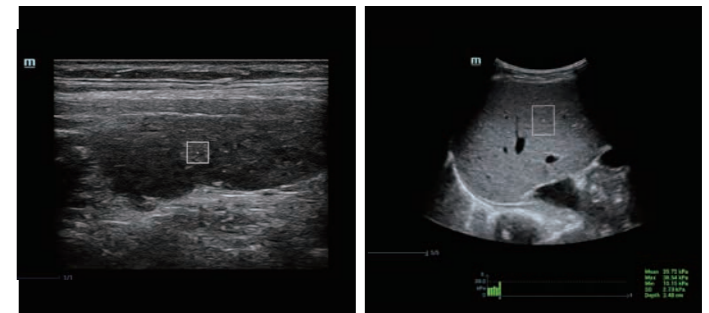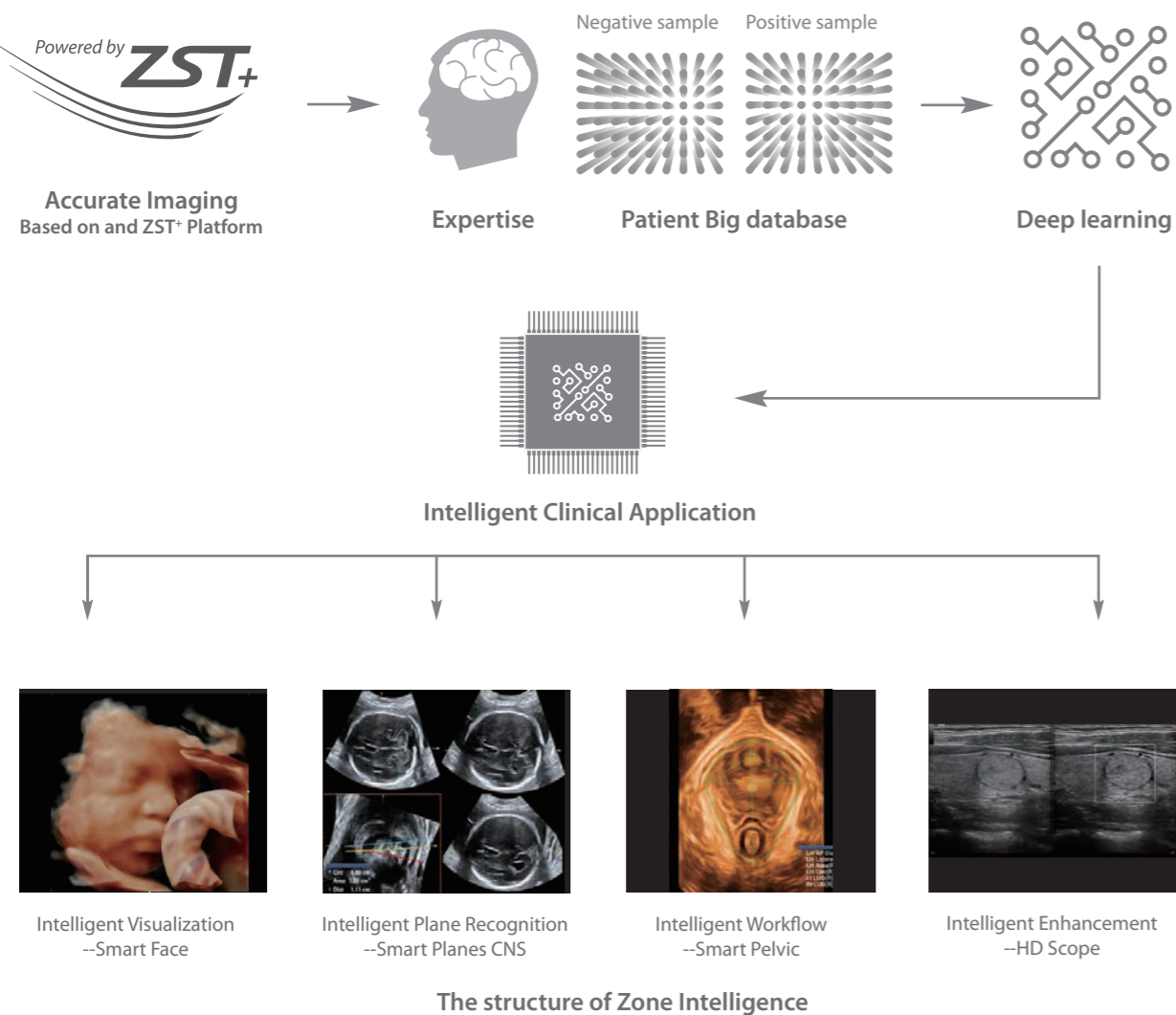

STQ for Thyroid   STQ for Liver Cirrhosis

It leads.
Forwarding smart to clinical intelligence

Powered by the channel data based ZST$^+$ platform, the new Resona 6 with Zone Intelligence builds up a truly smart mechanism to deliver a new level of intelligence. The core of Zone Intelligence is deep learning that is based on big data base and Ultrasound expertise. As a result, it is able to provide multiple intelligent retrospective processing, leading to efficient and effective image visualization, plane recognition, measurement, and image enhancement .

Powered by ZST$_+$

Accurate Imaging
Based on and ZST$^+$ Platform

Expertise

Negative sample   Positive sample

Patient Big database

Deep learning

Intelligent Clinical Application

Intelligent Visualization
--Smart Face

Intelligent Plane Recognition
--Smart Planes CNS

Intelligent Workflow
--Smart Pelvic

Intelligent Enhancement
--HD Scope

The structure of Zone Intelligence

Smart Planes CNS

Mindray's exclusive pioneering technology positions the Resona 6 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 dependency.

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.

Dandy Walker & ACC

Smart Planes CNS   MRI

Abnormal CM with Suspected Dandy Walker Syndrome

Smart Planes CNS   MRI

Smart Face

Acquiring an optimal view of the fetal face in 3DUS 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 6 with Zone Intelligence provides a fast and intelligent optimization for fetal face with simple one-touch operation. It can immediately remove occlusions in the volume data and eliminate unwanted noise information, and generate an optimal view of the fetal face with minimized effort.
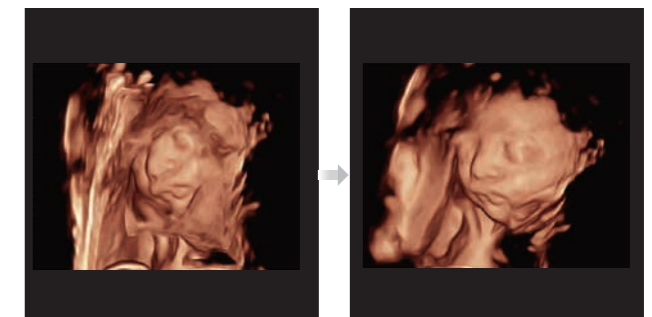
Smart Pelvic

Realizing the increasing importance of ultrasound diagnosis on pelvic floor disorders, the new Resona 6 with Zone Intelligence provides a new solution to greatly simplify the operation procedures, and to minimize the exam time for a standardized evaluation on pelvic floor. With extremely simple user-interaction, it generates a standard coordinate system and automatically provides all related measurements within a few seconds.
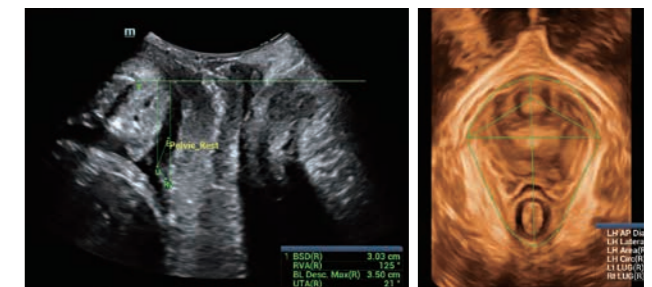
It senses.
Ensuring a better user experience

The Resona 6 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 delivers great patient comfort and user convenience. Inspired innovations drive a better user experience.

High resolution LED monitor with wide angle of view

Tilting multi-gesture touch screen

Three level temperature adjustable gel warmer

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' 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.