



With over 20 years of experience, Mindray hosts a wide range of ultrasound imaging solutions including cart-based and portable systems. Being exported to over 190 countries, Mindray ultrasound systems are today being used by medical professionals for general as well as highly dedicated clinical utility. With a global R&D base spanning over Asia, Europe and America, the ultrasound solutions by Mindray are a result of an integral cooperation with the medical community, allowing for the ultrasound systems to be extremely user centric in terms of performance and usability. Mindray is well positioned to become one of the leading ultrasound imaging solutions provider.



## Resona 6

Premium Ultrasound System

New Waves  
in Ultrasound Innovation

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**mindray**



# New Waves in Ultrasound Innovation

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

As well as ZST<sup>+</sup> powered premium image quality, Resona 6 also provides essential clinical features with proven performance, most intelligent fetal CNS plane acquisition and most 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.

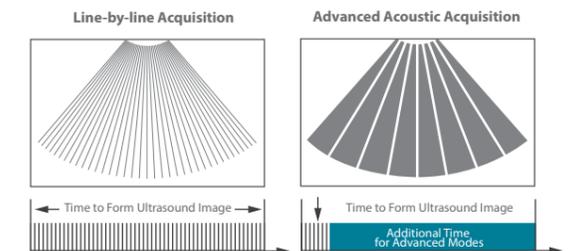
## With core platform advantages of ZST<sup>+</sup>

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



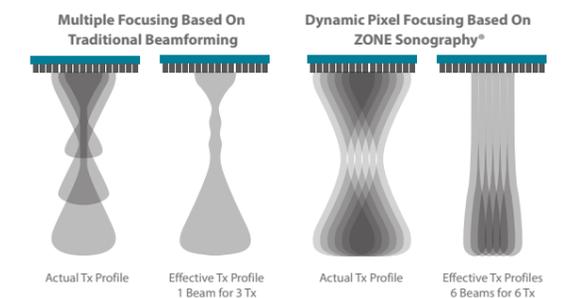
### Advanced Acoustic Acquisition

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.



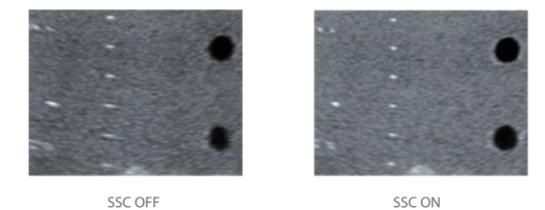
### Dynamic Pixel Focusing

Dynamic Pixel Focusing technology allows the Resona 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.



### Sound Speed Compensation

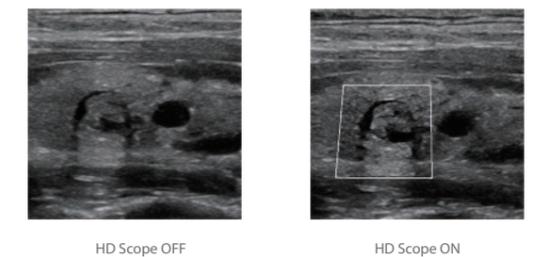
By retrospectively analyzing complete channel data stored in channel data memory, the Resona 6 is able to intelligently choose the optimal sound speed to improve image accuracy even with tissue variation, allowing for adaptive tissue-specific optimization.



### Enhanced Channel Data Processing

Channel data based ZST<sup>+</sup> 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.
- **Coherent Spatial Synthesis:** further improved image quality of spatial compound.

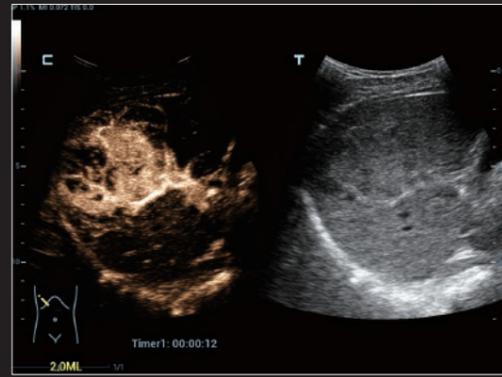


### Total Recall Imaging

As ZST<sup>+</sup> 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.



Hepatic Hemangioma



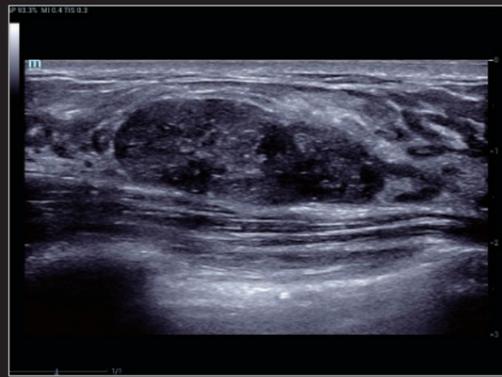
CEUS of HCC



Auto IMT



Duplex of CCA



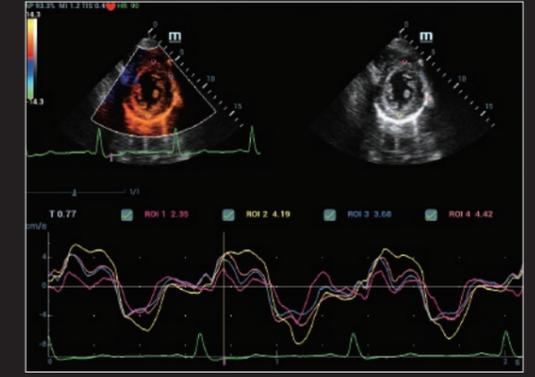
Fibroadenoma of Breast



Thyroid Mass



Mitral Stenosis



TDI QA



Fetal Adrenal Gland



Smart Planes



3D of Fetal Profile



3D of Bicornuate uterine anomaly

# It releases.

## A new standard of image clarity

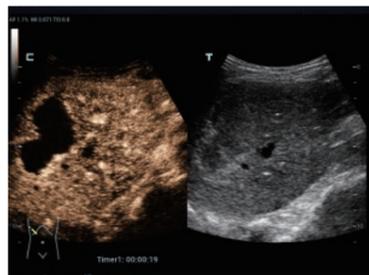
Better vision, deeper understanding. Based on the cutting-edge ZST<sup>+</sup> platform, Resona 6 redefines a new standard of image performance to meet the needs of the most challenging clinical practices.

# It progresses.

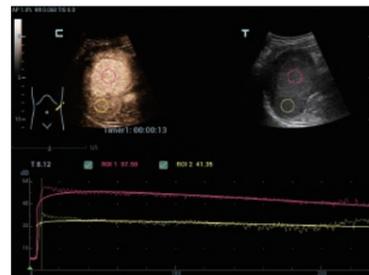
Innovative clinical tools for confident diagnosis

## UWN<sup>+</sup> Contrast Imaging

UWN<sup>+</sup> (Ultra-Wideband Non-linear Plus) CEUS enables the Resona 6 to detect and utilize both 2<sup>nd</sup> harmonic and non-linear fundamental signals, generating significantly enhanced CEUS images, resulting in greater sensitivity of minor signals and longer agent duration with lower MI.



CEUS of Liver Hemangioma



CEUS QA of Spleen Mass

## RIMT (RF-Data IMT)

Based on radio frequency data (RF-Data) with rawer acoustic information, RIMT provides automatic and real-time IMT measurements with extremely higher accuracy of 5 $\mu$ m, more quantifications within six heart cycles, and less dependence on image quality for greatly improved diagnostic confidence.

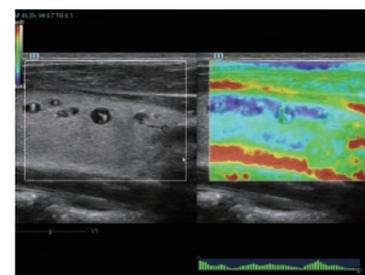


RIMT

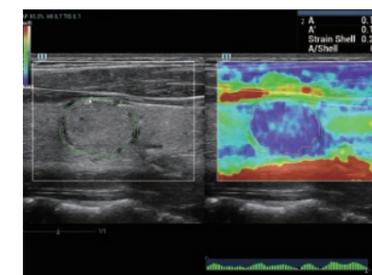


## Natural Touch Elastography

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. Particularly unique shell analysis, a very useful tool to evaluate benign and malignant lesions, provides relative strain ratio between surrounding tissue and the lesion, indicating status of the infiltration of cancer cells into peritumoral tissue.



Elastography of Thyroid Nodules



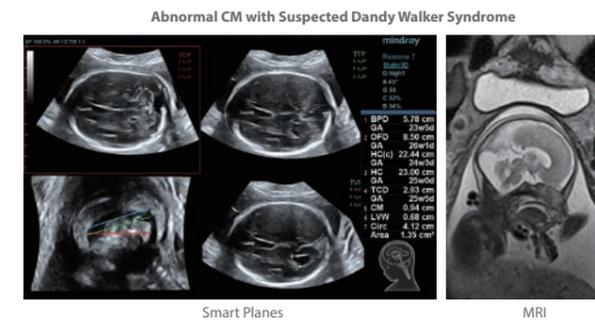
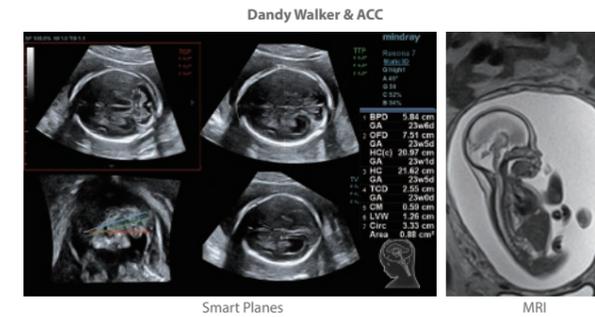
Shell analysis of Thyroid Mass



### Smart Planes

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 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.



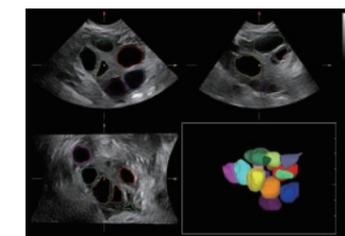
# It leads.

## Forwarding smart to clinical intelligence

The Resona 6 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 Planes shows exceptional intelligence in accurate diagnosis and analysis of fetal central nervous system (CNS).

### Smart FLC

Smart FLC automatically detects the number of follicles and calculates each volume from a 3D ovarian volume image, assuring accurate assessment of follicles, especially with IVF exams.



### Smart OB/NT

Automatic measurements of the most frequently examined parameters, including BPD, HC, FL, AC, OFD and even NT as early as 11 weeks, are available with a single click for higher productivity and reproducibility.



# 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. Resona 6 allows ultrasound professionals to do more much faster, putting patient care first through better user experience driven by inspired innovations.



- 21.5" high resolution LED monitor
- 12.1" tilting multi-gesture touch screen
- 3 level temperature adjustable gel warmer
- Flexible and user-friendly control panel
- Pinless transducer with light indicator
- Separate pedals for swivel and rolling lock

# 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.

