

# DC-80

Diagnostic Ultrasound System



Insight, Intelligence,  
and Innovation

**mindray**

# DC-80 Ultrasound System

**The best patient care is the ultimate goal.**

With today's demanding healthcare environment, a high level of clinical confidence is required to achieve the best patient care. The DC-80 ultrasound system, built on the foundation of Mindray's continuous focus on premium technology, helps you manage your daily workflow with excellent insights, intelligence, and much more no matter what challenges you face.



# Insight

The DC-80 system delivers outstanding performance with advanced capabilities for addressing your diagnostic requirements across a wide range of applications. This includes a comprehensive elastography solution with shear wave and strain elastography for tissue stiffness assessment, UWN+ CEUS and quantitative analysis tools for vascular perfusion analysis, Depth VR for vivid 3D/4D with depth perception, and tissue tracking for regional myocardial analysis.

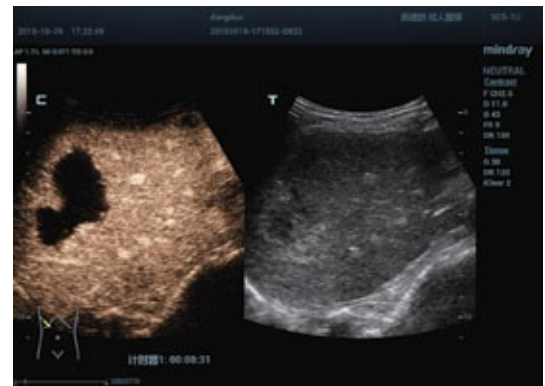
## Elastography Solution

Sound Touch Elastography (STE) with reliability map allows clinicians to get real-time 2D elastography and Young's modulus quantification for liver and tissue assessment. Sound Touch Quantification (STQ) with unique "E Avg" also enables real-time and easy tissue stiffness quantification for hepatic fibrosis. Natural Touch Elastography for tumor infiltration analysis provides high stiffness sensitivity in applications such as thyroid, breast, and GYN.



## UWN+ Contrast Enhanced Ultrasound (CEUS)

UWN+ (Ultra-Wideband Non-Linear Plus) CEUS enables the DC-80 to detect and utilize both 2nd harmonic and non-linear fundamental signals, generating contrast with longer agent duration and lower MI. The UWN+ CEUS is available for liver applications.



## 3D with Depth VR

Aided by an innovative new algorithm with depth information, 3D image with Depth VR provides an interactive lighting effect that generates more vivid rendering of images with depth perception.



# Intelligence

Customer input is always critical in our comprehensive system design process. The result enables a more customer focused solution as evident with the DC-80 system. It is an intelligent system designed to improve efficiency, consistency, and accuracy – from image acquisition to diagnosis.

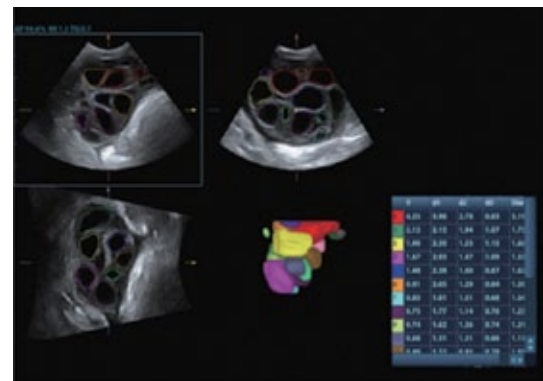
## Smart Planes CNS

The DC-80 provides fully automatic and accurate detection of the most significant planes and frequently-used measurements of fetal CNS, leading to reduced user dependency. With a simple button-click, the standard Smart Planes CNS is user-friendly. With a simple button-click on a 3D fetal brain volume image, the standard CNS scanning planes (MSP, TCP, TTP and TVP) and anatomical measurements (BPD, HC, OFD, TCD, CM and LVW) are obtained immediately.



## 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.



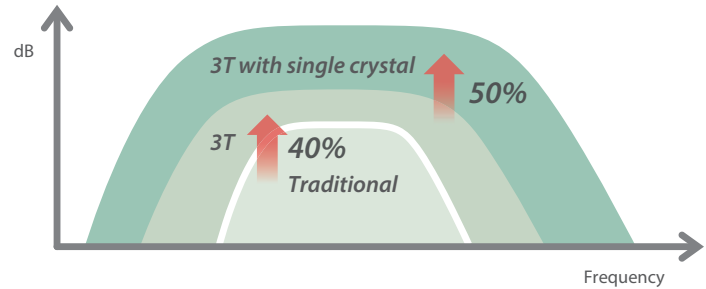
## Smart Track

Smart Track is Mindray's unique ultrasound feature to reduce time-consuming scanning steps in vascular exams. By intelligent tracking of vessels, it can automatically adjust the ROI position, steering angle of Color/Power, and PW sample volume position during real-time scanning.



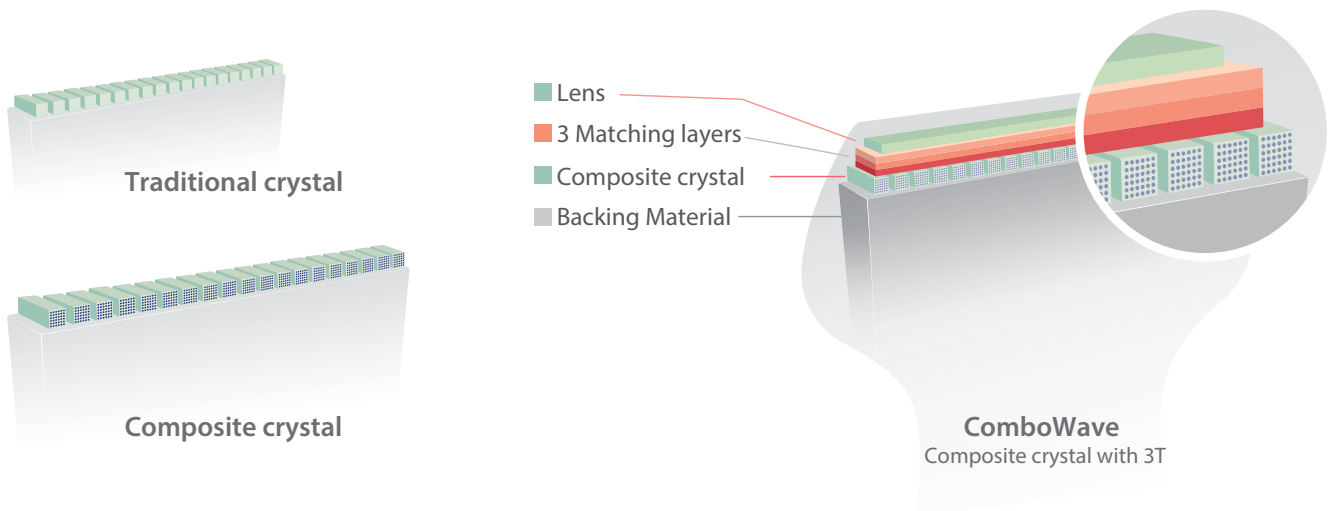
## Single crystal transducers with 3T technology

Based on single crystal with Mindray's unique 3T technology (Triple-matching layers, Total-cut design, Thermal control), the transducers provide a wider bandwidth to simultaneously offer better penetration and higher resolution, resulting in an optimum scanning solution for technically difficult-to-image patients.



## ComboWave transducers

Compared with traditional transducers, ComboWave transducers utilize a new type of composite piezoelectric material to dramatically optimize the acoustic spectrum and reduce acoustic impedance. Further integrated with Mindray's unique 3T technology, the ComboWave transducers L12-3E, L14-5WE and L9-3E allow you to experience optimized performance and uniformity in applications such as thyroid, breast, vascular, and more.



## Ultra-light volume transducer with superior performance

The ultra-light and high-density volume transducer D8-2E offers excellent obstetric performance across 2D, color, and 3D/4D for more diagnostic confidence.

## Dedicated interventional transducer

The C6-2GE is a dedicated interventional transducer for optimum 2D and CEUS performance. It has an excellent hand-fit design, minimum blind biopsy area, and needle-guided bracket with a coating of nanometer material for easy disinfection.

# Innovation

Mindray believes innovation should be driven by your clinical needs. To this end, the DC-80 focuses on what matters most and refines your experience with better ergonomics, easier scanning, and flexible management. We believe this cutting-edge ultrasound platform goes beyond your expectations while helping to reduce repetitive actions and increasing efficiencies.



## Unique dual-wing floating arm with 21.5" monitor

Mindray's exclusive dual-wing delivers an unlimited-angle floating design for extremely flexible monitor positioning, adapting to clinical needs. The folded dual-wing also minimizes system body height for easy transportation.



## 12.1" Tilting multi-gesture touch screen

Powerful gesture-based operation opens up a new trend in cart-based ultrasound with an agile, smart, and intuitive user experience beyond your expectations.

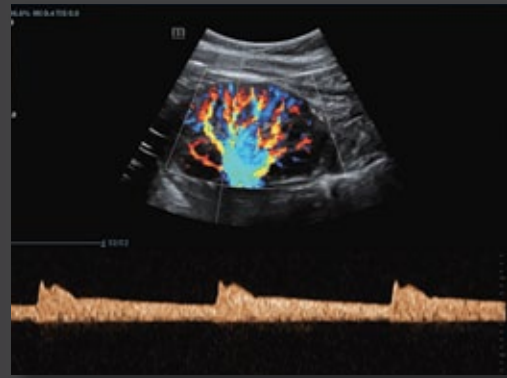


## MedTouch Interactive ultrasound APP

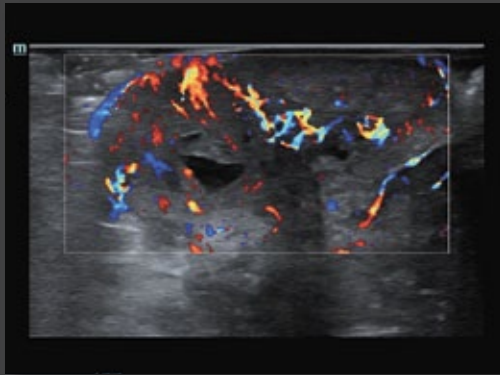
MedTouch is a one-stop solution for a smarter way to control ultrasound devices, access patient data and built-in tutorial software via your IOS/Android operated smart devices.



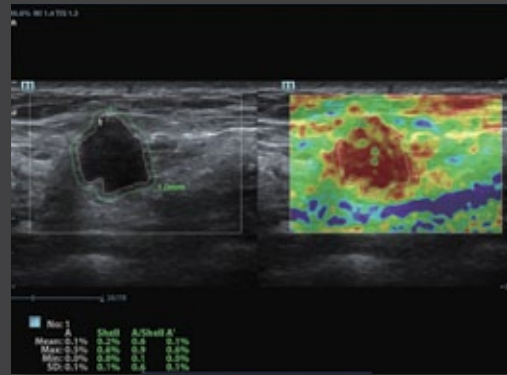
Gallbladder Polyp



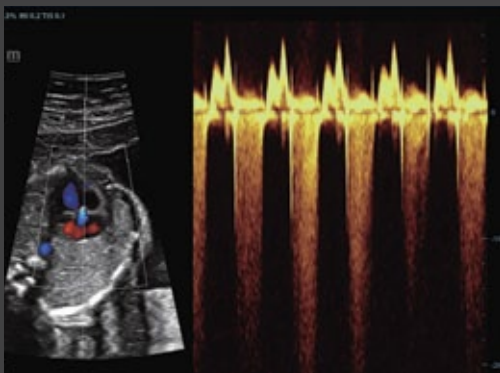
Duplex Kidney



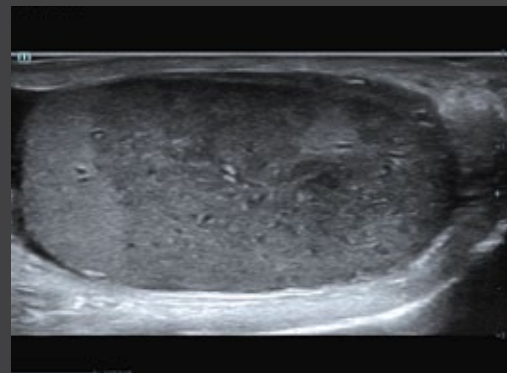
HR Flow of Breast Tumor



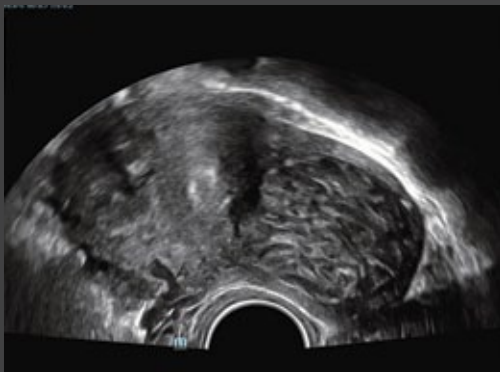
Shell Analysis of Breast Mass



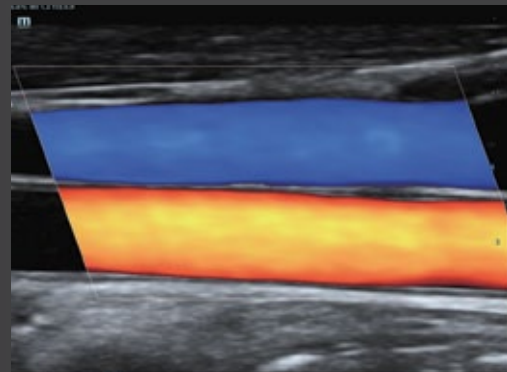
Fetal Heart Tricuspid Regurgitation



Testicle Infarction



Fibroid



CCA and Jugular Vein



**Mindray Global Headquarters**  
Shenzhen, China



**Mindray Innovation Center**  
San Jose, California



**Mindray North America Headquarters**  
Mahwah, New Jersey

**Mindray North America  
Innovation Center**

2100 Gold Street  
San Jose, CA 95002

Tel: 800.288.2121 Support: 877.913.9663 [www.mindray.com](http://www.mindray.com)

©2018 Mindray DS USA, Inc. Subject to change. Mindray® is a registered trademark of Shenzhen Mindray Bio-Medical Electronics Co. Ltd. 05/18 P/N: 0002-08-40348 Rev A

**mindray**  
NORTH AMERICA