

**mindray**  
healthcare within reach

**DC-8**  
Diagnostic Ultrasound System



# INSPIRATION BEYOND YOUR EXPECTATION



In the past 10 years, we continually evolve the Mindray family of ultrasound products. We listen carefully and we constantly strive to improve our products according to our customer needs. Now we deliver the new DC-8 that truly represents the achievement of our persistent effort.

It is your demands that inspired the performance and functionality of DC-8. Advanced technologies, best-in-class image quality and ergonomics are the new DC-8 attributes, in order to improve the quality of patient management. When all of these components come together, you really appreciate a state-of-the-art ultrasound system to support the most demanding applications on the day-to-day basis.

# Proven Technologies Guarantee Excellent Images



Image quality was the cornerstone when designing the DC-8. We developed a completely new architecture which has the capability to easily adapt to different body types by using new transducer technologies and innovative image processing algorithms. This allows you to acquire excellent images incredibly easy even performing difficult ultrasound examinations.



## 3T New Transducer Technology

It is Mindray's unique technology to increase bandwidth and transmission efficiency, thus offering better S/N ratio and improved resolution. It allows you to:

- Scan with higher frequency even focusing on in deep structures;
- Acquire images easier and faster at different body types;
- Obtain better image clarity scanning most challenging patients.

**HR Flow** is an innovative technology to better visualize tiny vessels and complex flow patterns. Based on our exclusive processing algorithm, the system can:

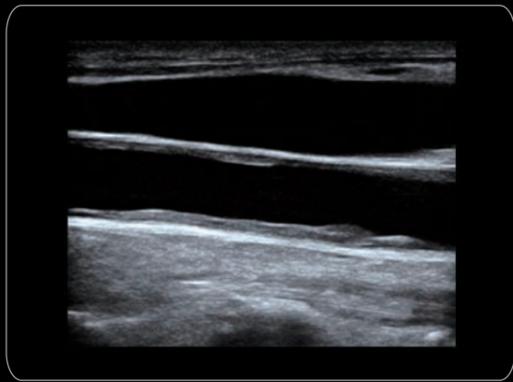
- Detect very weak color Doppler signals with an optimal S/N ratio;
- Provide extraordinary spatial resolution without compromising penetration or sensitivity.

**Ultra Wideband Nonlinear Processing** is Mindray's latest patent technology to enhance contrast capabilities. With the ultra-wideband signal transmission, the system is sophisticated in manipulating both 2nd harmonic and non-linear fundamental signals, and finally generates the image with significant enhancements:

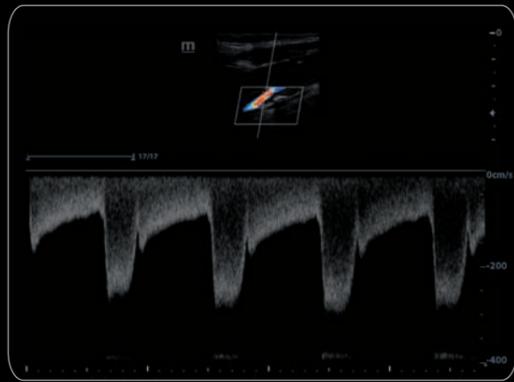
- The S/N ratio can be improved by approximately 20-30% as compared with other systems;
- The contrast enhanced signal can last for 20-30% longer for better observation.

**High resolution iClear:** speckle suppression technology improves contrast resolution to better detect and visualize pathological structures.

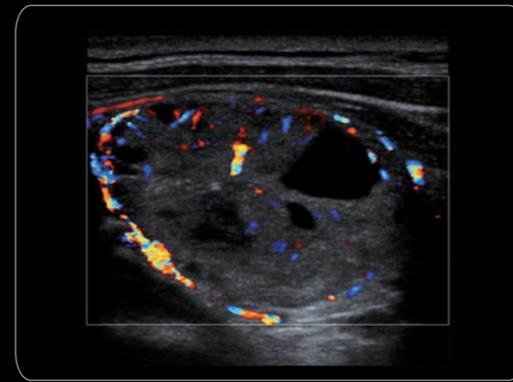
**iBeam spatial compounding:** use multiple scan angles to form a single image that has enhanced contrast resolution and improved visualization.



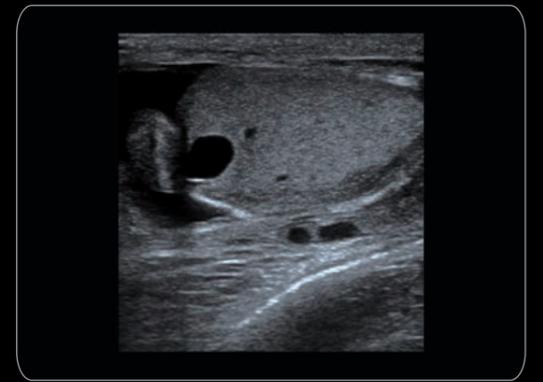
Sclerosed CCA



Stenosed ICA



Thyroid mass



Testicle cyst

# CONFIDENCE BEYOND CERTAINTY



Liver with ascites and pleural effusion



Kidney perfusion



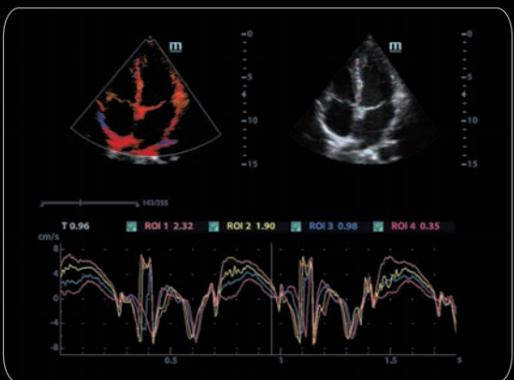
Fetal face (28-week), surface rendering mode



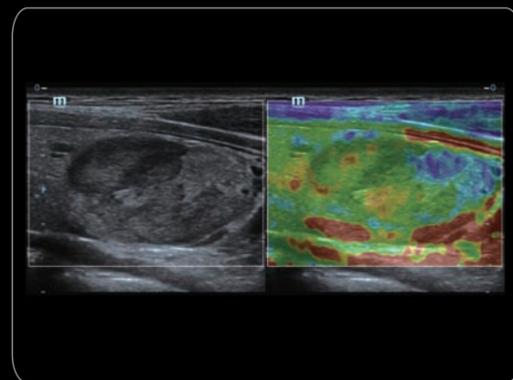
Fetal profile ( 14-week ), surface rendering mode



Ovarian mass



TDI with quantitative analysis



Elastography imaging of breast mass



Liver mass with CEI

# INTELLIGENCE BEYOND YOUR IMAGINATION



DC-8 is committed to improving your scanning procedures and reducing repetitive stress. The new platform enables an optimum flexibility for post processing and analysis of the Raw Data image. This allows you to achieve maximum productivity during scanning. Meanwhile, you can easily manipulate the stored images to assure diagnostic confidence whenever and wherever needed.

Raw Data processing is versatile and powerful, which allows you to:

- Adjust B-mode gain, dynamic range gray scale maps, and iClear to bring out subtle detail;
- Adjust color invert, color maps and smooth;
- Adjust Doppler gain, baseline shift, sweep speed, angle, spectral invert, and wall filter for Doppler optimization;
- Take measurements, add or edit annotations.

What's more, the DC-8 can tell you the next step of an exam and automatically inserts comments, initiates the required measurements, and even more. All this is enabled by the powerful iWorks, by which you can have standard scan protocols or you can easily customize a user-defined protocol. iWorks allows you to concentrate more on the patient, and much less on operation steps or keystrokes.

With iWorks the system can do the following:

- Automatically sets up imaging controls and modes;
- Automatically inserts comments;
- Automatically initiates the required measurements;
- Very flexible to customize the protocol for unusual cases.



# CONSIDERATION BEYOND COMFORT



DC-8 offers ergonomic solutions that address every aspect of your comfort. A smart new shape and more convenient operations make DC-8 a well-suited system for multiple clinical settings.

The high quality LCD monitor facilitates better assessment of more detailed structures using iZoom. In addition, an intuitive touch screen is supported which offers permanent direct access to all modes and features.



## 19 inch high-resolution LCD monitor

- Bigger image area with high resolution reduces your eye fatigue;
- Wide degree of tilt and rotate angle brings your body a neutral position;
- Fold-down mechanism allows easy moveability.

## Articulating arm

- Smooth horizontal swiveling and height adjustment.

## 10.4 inch color touch screen

- Direct accessibility to all functions at your touch.

## User- friendly control panel

- Logically grouped keys reduce learning time and bring easy operation;
- Swivels and rotates into place effortlessly;
- Innovative "kidney" shape design enables the most comfortable posture;
- Gel warmer and specially designed placement for endocavity probe.



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