

DC-8

DIAGNOSTIC ULTRASOUND

by MINDRAY

In an effort to continually evolve the family of ultrasound products, Mindray listens carefully and constantly strives 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 a day-to-day basis.

**Inspiration
beyond your
expectations!**



Obstetrics & Gynecology



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 SNR and improved resolution. It allows you to:

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

iFlow 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 tissue ratio can be enhanced by 20-30% as compared to phase inversion method;
- . The contrast enhanced signal can last for 20-30% longer for better observation.



Other imaging technologies:

High resolution **iClear**: speckle suppression technology improves contrast resolution to better detect and visualize pathological structures. It is now even available for 3D/4D imaging.

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

Intelligence beyond your imagination

DC-8 is committed to improve 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 and gray scale maps to bring out subtle detail
- . Color invert, color maps and colorflow on/off capability
- . Doppler gain, baseline shift, sweep speed, angle adjust and spectral invert for Doppler optimization after scanning
- . 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 and completes 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 operational steps or keystrokes.

With **iWorks** the system can do the following:

- . Automatically sets up imaging controls and modes;
- . Automatically inserts comments;
- . Automatically initiates and completes 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 operation 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 clinical image area with high resolution reduces your eye fatigue
- . Wide degree of tilt and rotate angle brings your body to a neutral position
- . Fold-down mechanism allows easy transport ability

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 brings 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

Imaging Concepts

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