

# “New” Mindray DC 8 High Resolution Ultrasound System

## 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 (signal to noise ratio) and improved resolution. It allows the operator to:

- . Scan with higher frequency while focusing on deeper structures;
- . Acquire images easier and faster, even 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 SNR;
- . 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 SNR 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 the phase inversion method;
- . The contrast enhanced signal can last for 20–30% longer for better image observation.

## Other imaging technologies:

**High resolution iClear** offers speckle suppression technology which improves contrast resolution to better detect and visualize pathological structures. It is now 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.



For information on the “NEW” DC 8 Ultrasound System, contact:  
Imaging Concepts, Inc 2818 Hungary Road Richmond, Virginia 23228  
**800-228-0060 [www.imagingconcepts.com](http://www.imagingconcepts.com)**

**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 on a frozen image.
- . Color invert, color maps and 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 operation 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 operations make the 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 offer permanent direct access to all modes and features.

### **19 inch high-resolution LCD monitor**

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

### **Articulating arm**

- . Smooth horizontal swiveling and height adjustment

### **10.4 inch color touch screen**

- . Direct accessibility to all system 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 shape and design enables the most comfortable posture.
- . Gel warmer and specially designed placement for endocavity and scanning transducers.