

# DC-8 Exp

Diagnostic Ultrasound System



confidence | comfort | ease

**mindray**



## Introducing the DC-8 Exp: Designed by users for users

Healthcare continues to evolve and new tools are developed to improve clinical functions and simplify processes. Our products are continually refined to ease the tasks of clinicians and increase patient throughput. The DC-8 Exp, designed by users for users, was developed in the spirit of this commitment.





The DC-8 Exp Ultrasound System supports the most demanding applications on a day-to-day basis. Advanced technologies, superior image quality, and a special focus on ergonomic design combine to improve patient management, increase ease of use, and enhance users' overall level of confidence.

# Clarity = better outcomes



Thyroid mass using HR Flow



Fetus profile using 3T technology

**Multi-Beam Parallel Imaging Technology™** integrates advanced imaging technologies to produce optimized images with minimal user involvement. When combined with the DC-8 Exp's echo-enriched beamformer, it produces excellent images.

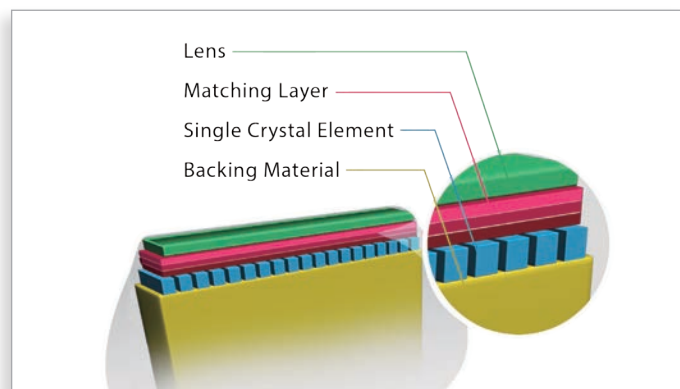
**HR Flow** is an innovative technology that is designed to visualize vessel profiles and complex flow patterns.

- Provides detection of color Doppler signals
- Offers extraordinary spatial resolution without compromising penetration or sensitivity

**Single Crystal Transducer with 3T™ Technology Provides Sharper Images**

Enhanced with the addition of single crystal technology, the transducer offers improved penetration with significant noise reduction, especially for technically difficult patients.

- Triple-matching layer design for higher sensitivity, wider bandwidth, and improved signal-to-noise ratio
- Total-cut design for lower cross-talk noise, improved directivity, and improved lateral resolution
- Thermal-control design for improved acoustic transmission and higher signal-to-noise ratio



Single Crystal 3T™ Transducer Technology

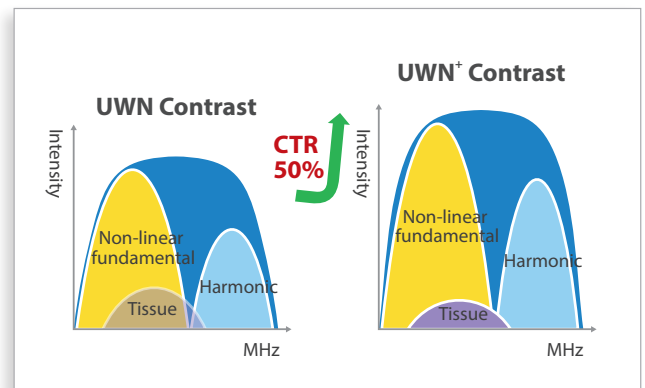
**UWN<sup>+</sup> (Ultra-Wideband Non-linear Plus) Contrast Imaging** enables DC-8 Exp to detect and utilize both 2nd harmonic and non-linear fundamental signals. The images generated have significant enhancements, resulting in a more sensitive minor signal, and longer agent duration with lower MI.

### ART Flow™

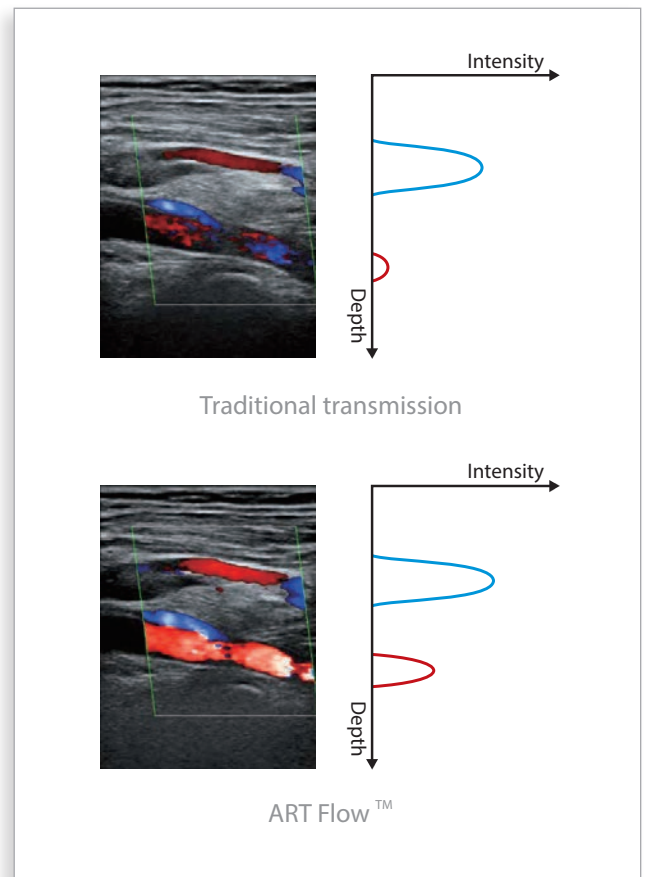
Automatic Recognition Transient Flow is Mindray's exclusive Doppler technology for better display of hard-to-detect deep blood flow, providing more confidence for vascular disease diagnosis such as deep vein thrombosis, artery stenosis, and occlusion.

### Advanced Imaging Technologies

- **iBeam™** spatial compounding using multiple scan angles to form a single image with enhanced contrast resolution for better visualization
- **iScape™** provides real-time panoramic imaging of large structures in a single sweep
- **iTouch™** offers single-button image optimization that provides excellent image uniformity
- **iClear™** speckle suppression and edge enhancement technology improves contrast resolution to differentiate between normal and abnormal structures
- **iZoom™** one-touch expands displayed image for viewing at a distance
- **iNeedle™** enhances needle visualization to aid in biopsy procedures

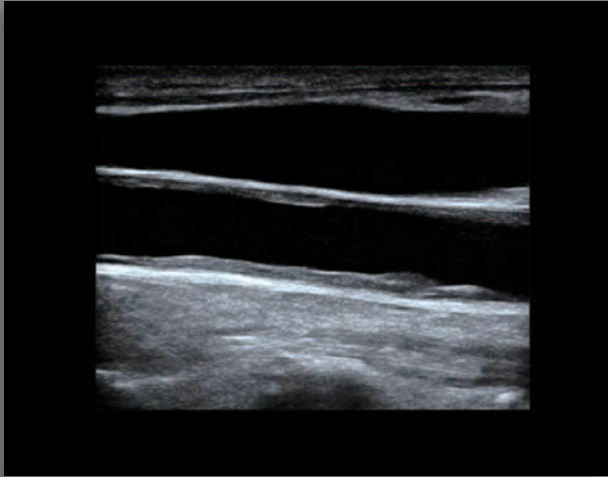


Ultra-Wideband Non-linear Plus contrast imaging

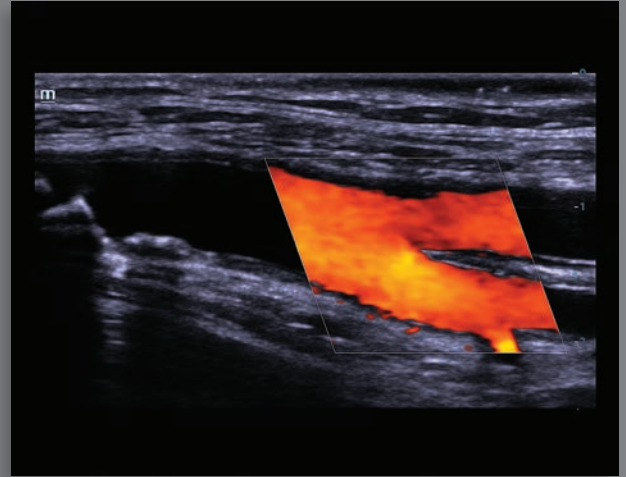


Automatic Recognition Transient Flow

When we see,



Sclerosed CCA | L14-6WE



Femoral artery bifurcation | L14-6WE



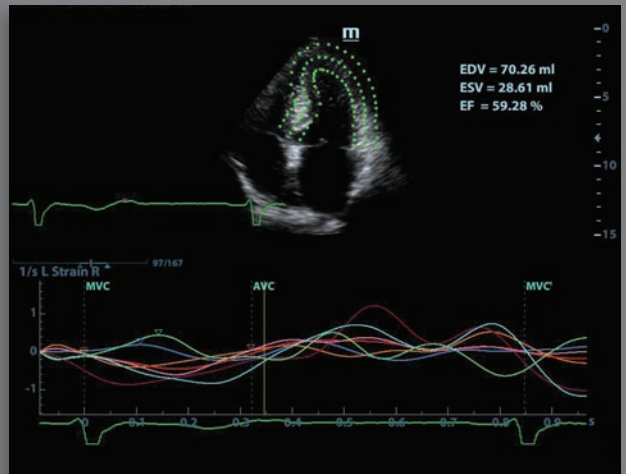
Liver with ascites and pleural effusion | C5-2E



Kidney perfusion | C5-2E

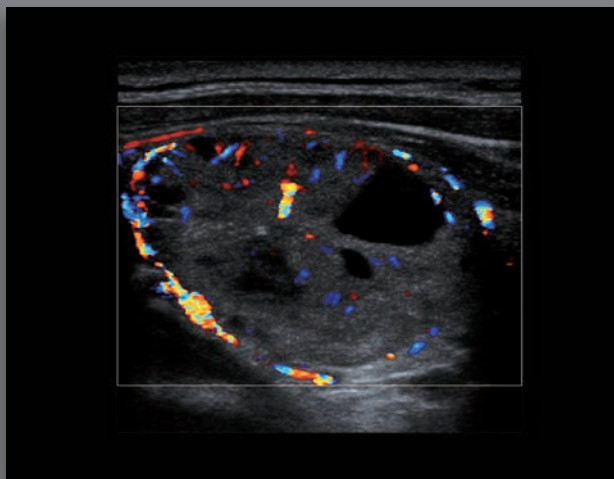


Cardiac four chamber view

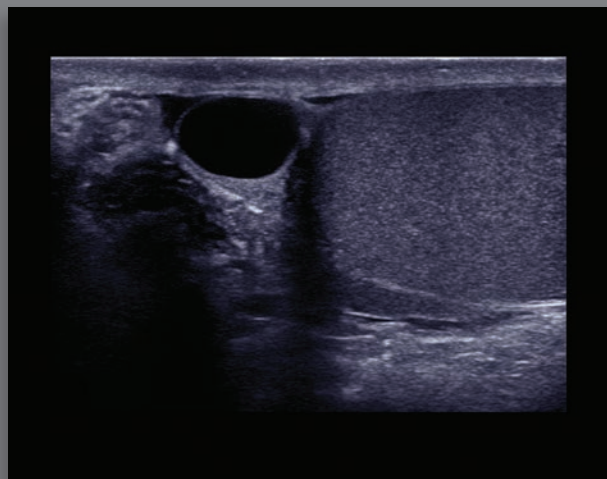


LV speckle tracking

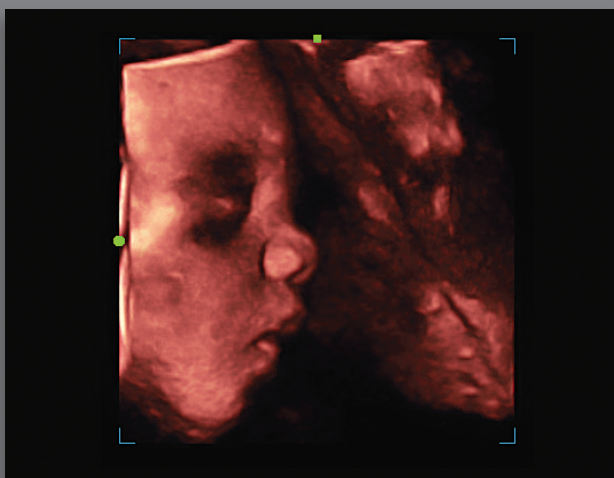
we understand.



Thyroid mass | L14-6WE



Epididymal cyst | L14-6WE



Fetal face (30 week) surface rendering mode | 4D probe



Fetal profile (14-week) surface rendering mode | 4D probe



Ovarian mass | V11-3E



Umbilical cord | C7-3E



Intuitive touch screen



Adjustable control panel



Articulating arm adjusts height and angle

DC-8 Exp's **ergonomic solutions** address every part of your body that interacts with the device. We know that users have a physical relationship with the device and with this fact in mind, we have improved procedural efficiency and reduced repetitive actions. A new user interface enables logical and efficient workflow while ensuring more convenient operation.

The result: easier acquisition of clinical images acquired with less stress. What's more, the intuitive touch screen provides direct access to advanced modes and features. Working together, these features and benefits simplify and enhance the clinical experience.

#### User Centric Control Panel

- Common commands are easily executed with minimal movement of one hand
- The height-adjustable control panel swivels and rotates effortlessly
- Control keys, dials, and toggles, intuitively grouped within an innovative kidney-shape design, enhance comfort and support healthy posture

#### Ergonomic Solutions

- Lightweight transducers designed with soft flexible cables reduce stress while scanning
- 10.4" touch panel places all functions within reach
- 19" high-definition LCD monitor helps reduce eye fatigue and can be viewed at angles greater than 170°
- Wide degree of monitor tilt and rotation works with your natural body movement to ensure maximum comfort
- Monitor fold-down function allows for easy mobility



## See more

DC-8 Exp's large 19" high-definition LCD monitor provides better image detail.

## Save time

iWorks/iWorks OB reduces the number of key strokes required for a complete diagnostic study by 71-82%.

## Eliminate tasks

The user interface reduces repetitive motions required to complete complex ultrasound functions.

## Reduce stress

The system design exceeds industry standards to reduce work related injury.

## Move gracefully

Height-adjustable control panel swivels effortlessly.







## More intelligent workflow

DC-8 Exp incorporates tools to increase your speed, accuracy, and productivity while maintaining the flexibility you need to complete exams comfortably and efficiently.

**iWorks** is a powerful protocol management system beneficial for all ultrasound practitioners. From an experienced sonographer to a student, or the occasional visiting physician, the DC-8 Exp allows the user to focus on the patient and spend less time on operational steps and keystrokes. The system:

- Automatically guides the user through an exam protocol
- Automatically inserts comments
- Automatically sends measurement results to the report for easy interpretation
- Enables customized protocols for unusual cases
- iNSert is a patented and unique feature that allows users to measure and document common pathology within iWorks

**iWorksOB** is a patented and dedicated extension of iWorks, designed to work easily with the random movements of the fetus.

- Practical solution for OB automated protocols
- Automatically sends measurement results to the report for easy interpretation
- Recognizes the random nature of OB exams to better facilitate workflow

**Raw Data Manipulation** is a versatile and powerful tool for optimizing images and analyzing information even after the image has been saved. By providing this flexibility, the DC-8 Exp enables the user to work with the stored data wherever and whenever it is needed.

- Allows you to manipulate multiple parameters, measurements, and annotate on acquired images

**Seamless connectivity.** Plug and play offers you a wireless LAN option to connect to your local network wherever you are. Transfer images or patient data with ease and convenience. Comprehensive DICOM features: Store/Print, Worklist, MPPS, Query/Retrieve, OB/GYN S/R, Vascular S/R and Cardiac S/R.



- Mindray Global Offices
- ◉ Mindray R&D / Mfg Operations

## Exceptional service and support

Mindray is a global medical device manufacturer with three established business segments: Patient Monitoring and Life Support Products, Medical Imaging Systems, and *In-Vitro* Diagnostic Products. With more than 10,000 employees and R&D centers on three continents, we offer the medical community a wide range of innovative solutions designed to ensure the highest quality of care, while containing costs.

Purchase from Mindray includes system installation and comprehensive clinical training by Mindray's specialists. Additionally, technical remote support is available 24 hours a day, 7 days a week, at no charge.

Our dedicated field service team and in-house technical support organization represent one of the largest direct service teams in the industry. Individually and collectively they are committed to enhancing patient care while protecting your investment.

Learn how we can help you maximize your resources, with some of the most advanced and affordable devices in the industry.

For more information about Mindray products and services, visit [www.mindray.com](http://www.mindray.com).



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