

With over 20 years of experience, Mindray hosts a wide range of ultrasound imaging solutions including cart-based and portable systems. Being exported to over 190 countries, Mindray ultrasound systems are today being used by medical professionals for general as well as highly dedicated clinical utility. With a global R&D base spanning over Asia, Europe and America, the ultrasound solutions by Mindray are a result of an integral cooperation with the medical community, allowing for the ultrasound systems to be extremely user centric in terms of performance and usability. Mindray is well positioned to become one of the leading ultrasound imaging solutions provider.



DC-8 Exp

An expert you can rely on

<p>Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680 E-mail: intl-market@mindray.com www.mindray.com</p> <p>Mindray is listed on the NYSE under the symbol "MR"</p>	
<p>mindray is a trademark of Shenzhen Mindray Bio-Medical Electronics Co.,Ltd. © 2013 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved. Specifications subject to changes without prior notice. P/N:ENG-DC-8 EXP-BROCHURE-210285X10P-20141010</p>	
<p>CE 0123</p>	<p>mindray</p>

mindray
healthcare within reach



DC-8 Exp

An entirely new generation of ultrasound architecture

By touching all aspects of acoustic acquisition and image processing, DC-8 Exp is built on a completely new ultrasound architecture that can dynamically optimize the imaging capability to acquire remarkable images on a variety of patient types. This extraordinary architecture fully empowers more innovative technologies, such as ART Flow for deep vascular visualization, and Mindray's new Echo Boost technology for intelligent optimization of images across multiple applications.

Introducing Mindray's new DC-8 Exp -- an innovative ultrasound imaging solution dedicated to minimizing the limitations and maximizing the effectiveness during difficult-patient scanning. Based on Mindray's new generation of ultrasound platform, mQuadro, DC-8 Exp brings together a new set of innovative solutions to enhance your experience of conducting an expert diagnosis for your patients of various ages and sizes. Industry's very first ultrasound system to implement deep vascular detect solution, DC-8 Exp hosts a winning combination of outstanding processing capability, Mindray's proprietary probe technology and user-defined interface that would enable you to provide an expert diagnosis.

A new level of imaging capability:

- Bran-new imaging architecture for more powerful and intelligent processing
- Advanced transducer series for maximized penetration without compromising image resolution

To the next level of diagnostic confidence with dedicated tools:

- Industry's unique innovation technology for better image quality
- Full range of diagnostic features for radiology, vascular and cardiac applications

A new experience of easy scanning:

- A series of high level automation tools significantly improve your productivity
- Fully customizable iWorks greatly reduces keystrokes

mQuadro

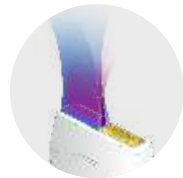
mQuadro, Mindray's high end ultrasound architecture, empowers DC-8 Exp to offer efficient and reliable diagnosis, making it an optimum choice during diagnosis of difficult patients. The name mQuadro signifies the combination of four innovative technical aspects, including high speed hardware module, advanced frontal transmission/reception, powerful parallel processing, and patent intelligent algorithms, which together raise the diagnostic capability into a new level.

The most advanced transducer technology



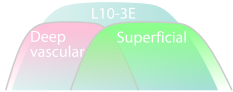
New single crystal technology combined with 3T technology:

provides a wider bandwidth to offer better penetration and higher resolution simultaneously, resulting in an optimum scanning solution for difficult patients.



New matrix array transducer technology:

uses multiple rows of crystals to help achieve uniform resolution throughout the whole field of view, providing better out-of-focus region visibility.



New broadband linear transducer:

improves contrast resolution by acquiring maximum tissue information, and allows lower and higher frequency coverage for superficial, deep vascular and tissue imaging.

Next level of diagnostic confidence

General Imaging

With DC-8 Exp, you now have the power to easily encompass a comprehensive range of clinical exams, including abdominal, OB/GYN, small parts, and etc., and to easily obtain extraordinary image quality even on difficult patients. The new single crystal convex transducer truly enhances penetration without compromising resolution. Advanced imaging technology together with dedicated features will certainly maximize your diagnostic confidence.

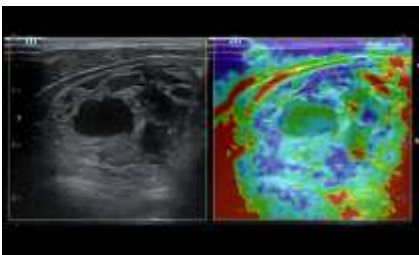
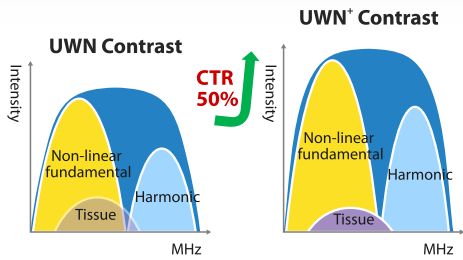
UWN⁺ Contrast Imaging

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

Natural Touch Elastography

Based on Mindray's latest patent technology, Natural Touch Elastography reduces dependence on user's operation technique, improving operator's reproducibility with higher stiffness sensitivity and better stability.

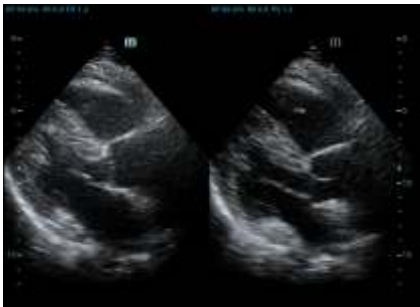
The new Elastography technology is available on both linear and endovaginal transducers, providing more diagnostic information in a variety of clinical areas, including thyroid, breast, testicle, cervix, uterus and ovary lesion, and etc.



Thyroid Tumor with Elastography

Cardiology

Thanks to the mQuadro architecture, DC-8 Exp now provides more powerful processing capability for cardiovascular imaging and analysis. The single crystal phased array transducer offers new answer to difficult-to-image patients. In addition, a wide variety of sophisticated analysis tools will help evaluate cardiovascular structure and function with more accuracy and confidence.



Echo Boost Off Echo Boost On

Echo Boost™

Mindray's new breakthrough in image processing. It is empowered by mQuadro platform, and its application is extended from phased array to linear array transducers, resulting in better contrast and homogeneity even for big size patients.

Professional analysis tools

TT QA permits advanced cardiac motion tracking analysis including strain, strain rate, leading to easy recognition of regional LV abnormalities. LVO (Left ventricular opacification) is another sophisticated tool to reveal structural and functional changes of left ventricle.

Vascular

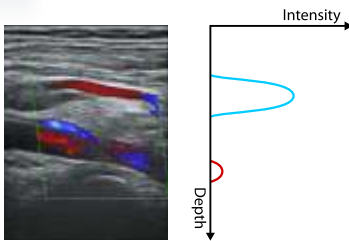
With a full range of dedicated transducers, and specialized exam presets, DC-8 Exp allows you to have more professional vascular diagnosis. Especially, the wideband linear transducer provides one transducer solution for both superficial and deep vessels. And the specialized vascular exam presets with optimized imaging parameters will make quality exams much easier.

ART Flow™

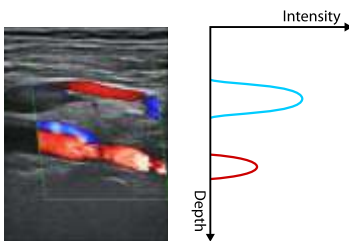
Automatic Recognition Transient Flow, Mindray's exclusive Doppler technology for better display of hard-to-detect deep blood flow, giving more confidence for vascular disease diagnosis such as deep vein thrombosis, artery stenosis and occlusion.

Complete Vascular solutions

Editable vascular mapping enables you to better understand varicose vein position, morphology and severity, providing quick and easy surgery planning. More dedicated tools, including Auto IMT, Power iScape, offer more diagnostic confidence with minimal effort.



Traditional transmission



ART Flow™



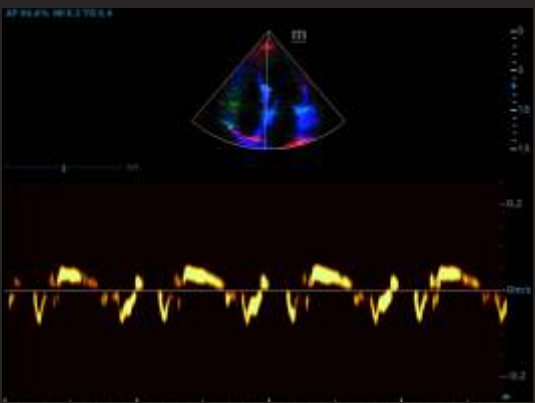
4 Chamber View



Myocardium Hypertrophy



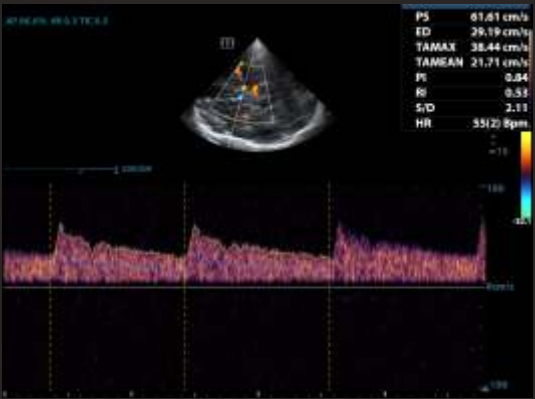
Aortic Regurgitation



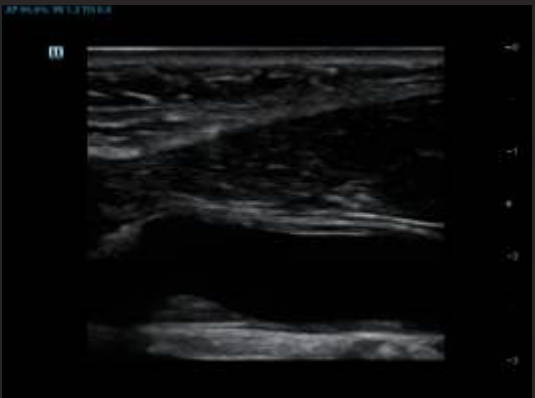
Tissue Doppler Imaging



Left Ventricle 2D Speckle Tracking



Transcranial Color Doppler Imaging



CCA Plaque



CCA Plaque



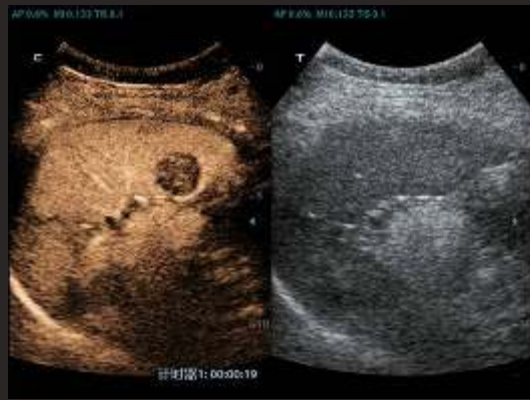
Hepatic Tumour with SC5-1E



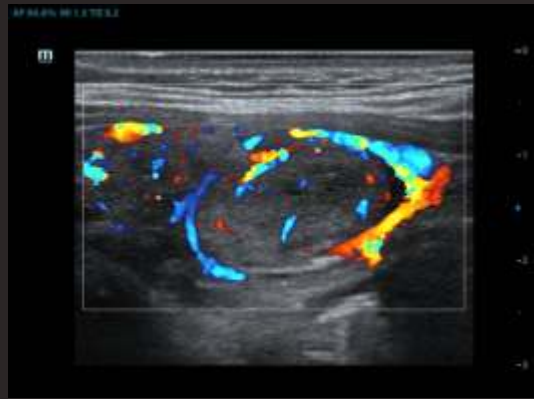
Extended IVC with SC5-1E



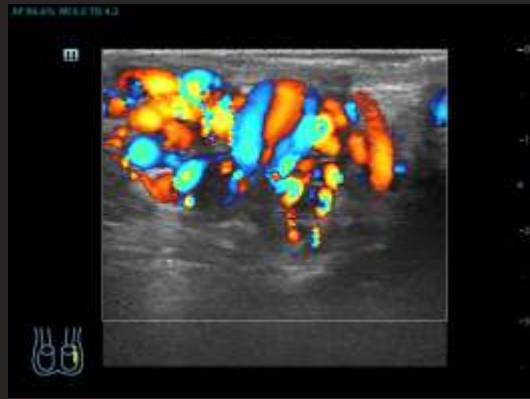
Renal Tumour CDI



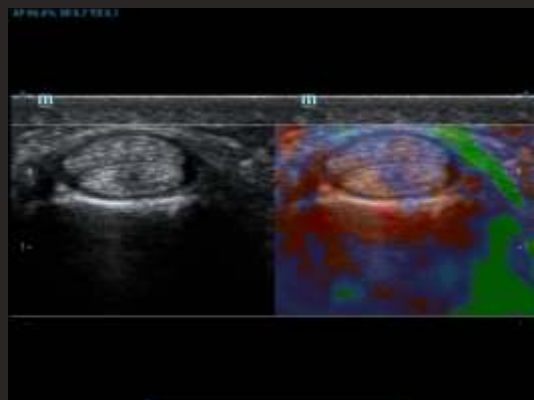
Splenic Tumour with Contrast Imaging



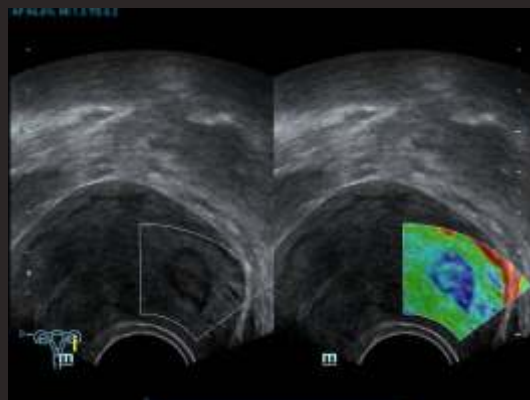
Thyroid Tumour CDI



Varicocele CDI



Finger Tendon with Elastography



Uterine Fibroid with Elastography

A new experience of easy scanning

Experience

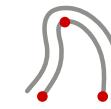
Intelligent auto optimization to achieve best imaging setting in one keystroke:

Smart Doppler: automatically optimizes color box positioning and sample volume placement, therefore significantly reduces repetitive operations and allows you to be more focused on the patient diagnosis.



Advanced auto measurement tools help you work smarter:

- Auto IMT and auto PW calculations enable efficient risk assessment of vascular studies.
- Auto LV: helps doctors automatically trace the endocardium to calculate left ventricular ejection fraction.



Standard workflow protocol to improve exam consistency and efficiency:

iWorks provides complete protocols for abdomen, vascular and other 38 applications. It reduces up to 50% exam time and 80% keystrokes for daily scanning.



MedSight™

DC-8 Exp lets you transfer clinical images and cines to your IOS smart device via an interactive APP. It could be a convenient image sharing tool. With MedSight you can now take the clinical examinations with you wherever needed.

