



mindray
healthcare within reach

DC-8 Exp

Product introduction



DC-8 Exp
An Expert
You Can Rely
On

Difficult patients are big challenges, we need the power to easily image patients of various sizes and ages with more confidence.

Amazing imaging performance

Powerful processing capability

mQuadro

Innovative Mindray patent
technology

ART Flow™
Advanced Echo
Boost™

Advanced transducer family for
difficult patients

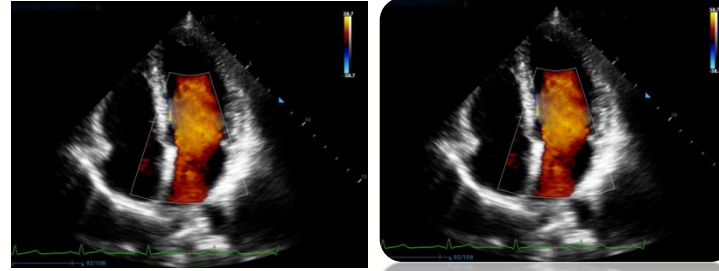
Single Crystal
technology
Wide band
transducer

Amazing
Imaging performance

Versatile
clinical application

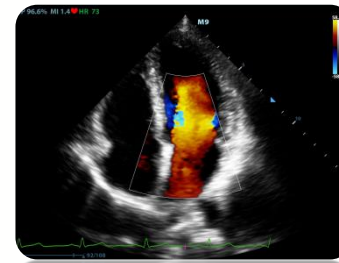
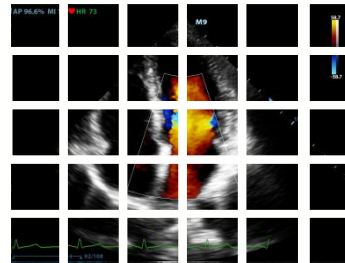
Extraordinary
user experience

mQuadro



Traditional
Post optimization

Based on image analysis (gray scale and color)



Intelligent algorithm
(powered by mQuadro)

Based on Image segmentation analysis and
anatomical structure database

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

ART Flow TM (Automatic Recognition Transcient Flow)

Traditional transmission

Mindray exclusive technology for deep vascular scanning, acquiring hard-to-detect blood flow with superb color sensitivity

- Specific designed TX / RX algorithm to improve visualization of deep vessel flow
- Greatly improve the diagnostic confidence for vascular exam

*Available on L10-3E and L12-

3E

Amazing
Imaging performance

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clinical application

Extraordinary
user experience

ART Flow™



Clinical Benefits:

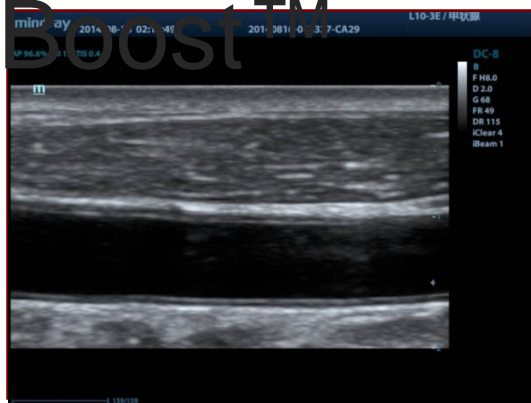
- Greatly improve penetration and sensitivity for deep vessels exam
- Accurate differentiation of vessel lumen and tissue echo
- Provide more diagnostic information for difficult DVT , artery stenosis and occlusion

Amazing
Imaging performance

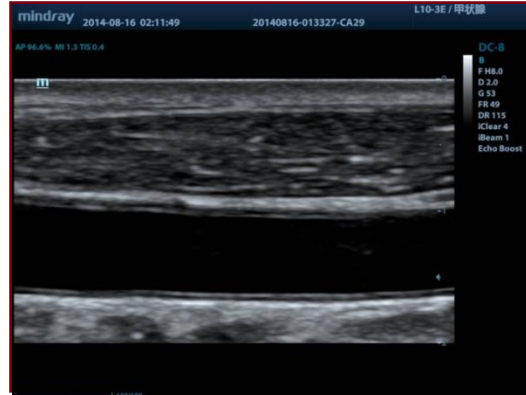
Versatile
clinical application

Extraordinary
user experience

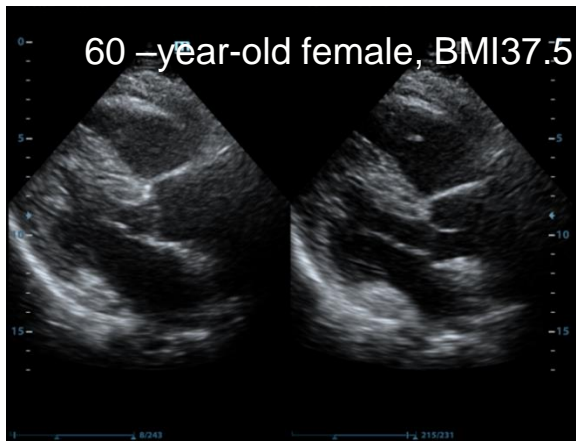
Advanced Echo



Echo Boost OFF



Echo Boost ON



Echo Boost OFF

Echo Boost ON

Clinical Benefits:

- Improve homogeneity of image throughout the entire field of view
- Better contrast resolution for near field tissue layers on linear transducers
- Better signal to noise control in cardiac chambers and myocardium tissue

Amazing
Imaging performance

Versatile
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Extraordinary
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Advanced transducer technology



New single crystal technology combined with 3T technology for better penetration



Matrix technology for high resolution and excellent image uniformity



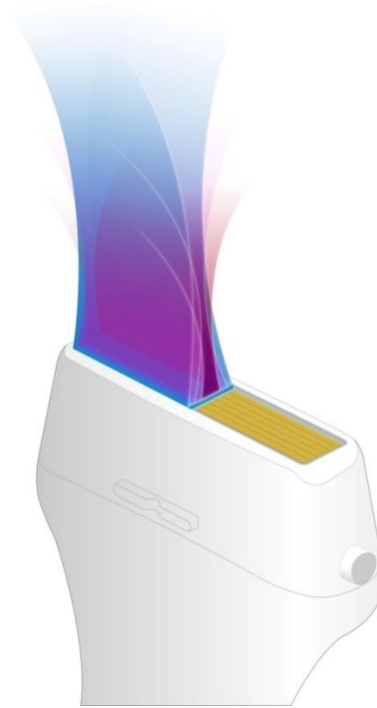
New broadband linear transducer for a wider coverage of applications

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

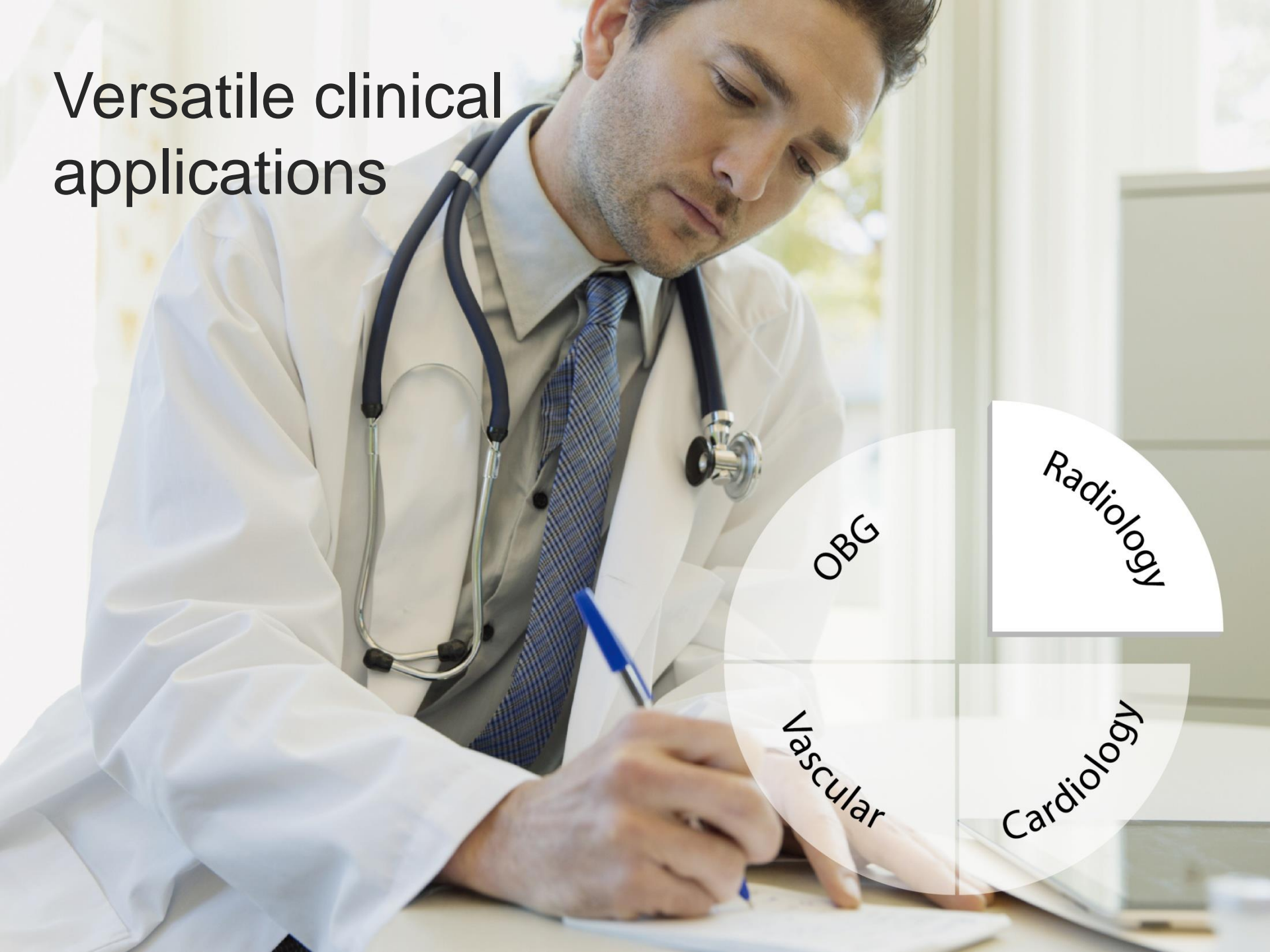
Matrix technology for linear probe



New 1.5D matrix array transducer (LM14-6E)

- Use multiple rows of crystal to achieve uniform resolution throughout the entire ultrasound beam
- Better resolution from near to far field

Versatile clinical applications



OBG

Radiology

Vascular

Cardiology

Amazing
Imaging performance

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Extraordinary
user experience

Radiology

High performance transducers for difficult patients

- SC5-1E single crystal convex transducer for good penetration and resolution
 - Matrix transducer for uniform and high resolution images
 - Dedicated transducer solutions for special applications
-

Superb image technology

- ART Flow for enhanced color sensitivity and penetration
 - Echo Boost for better contrast resolution and image homogeneity
-

Advanced Imaging Options

- UWN⁺ contrast imaging for more confident diagnosis
 - Natural touch elastography for higher stiffness sensitivity and good stability
-

Amazing
Imaging performance

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user experience

Transducer solution



Convex

SC5-1E for big patients
C11-3E provides high resolution image for neonatal and pediatric



Linear

One-probe solution
L10-3E covers superficial and deep structures

Matrix LM14-6E for superb resolution for MSK and superficial



Hockey stick

High frequency probe L16-4HE for both intra-operative and MSK



Bi-plane

CB10-4E for professional urology application

Amazing
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UWN⁺ (Ultra-Wideband Non-linear) Contrast Imaging



Liver Tumor

Clinical Benefits:

- Excellent contrast agent sensitivity
- Improved contrast imaging penetration with HPen mode
- Longer CEUS perfusion time with lower MI setting
- MFE (Micro Flow Enhancement) for better visualization of tiny vessel perfusion

Amazing
Imaging performance

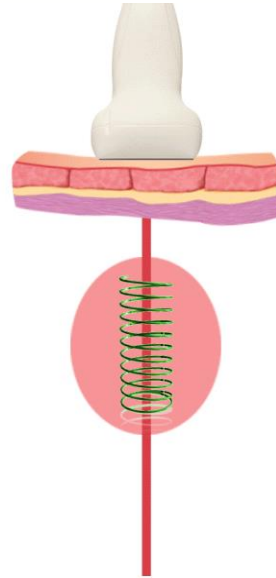
Versatile
clinical application

Extraordinary
user experience

Natural touch elastography

Traditional

- Processing speed: low
- Stiffness sensitivity: Normal, manual pressing
- Operation: user dependent, long learning time



Natural touch

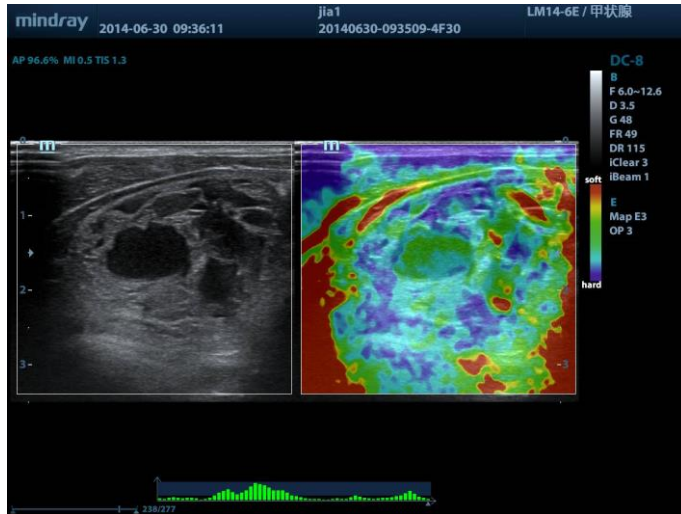
- Processing speed: fast
- Stiffness sensitive: High, sensitive to Breathing, Heart beating
- Operation: easy to learn and master

Amazing
Imaging performance

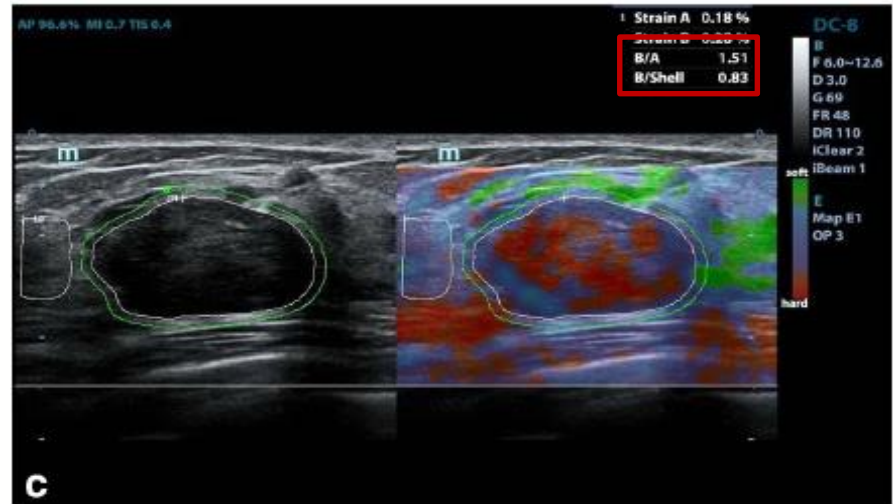
Versatile
clinical application

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user experience

Natural touch elastography



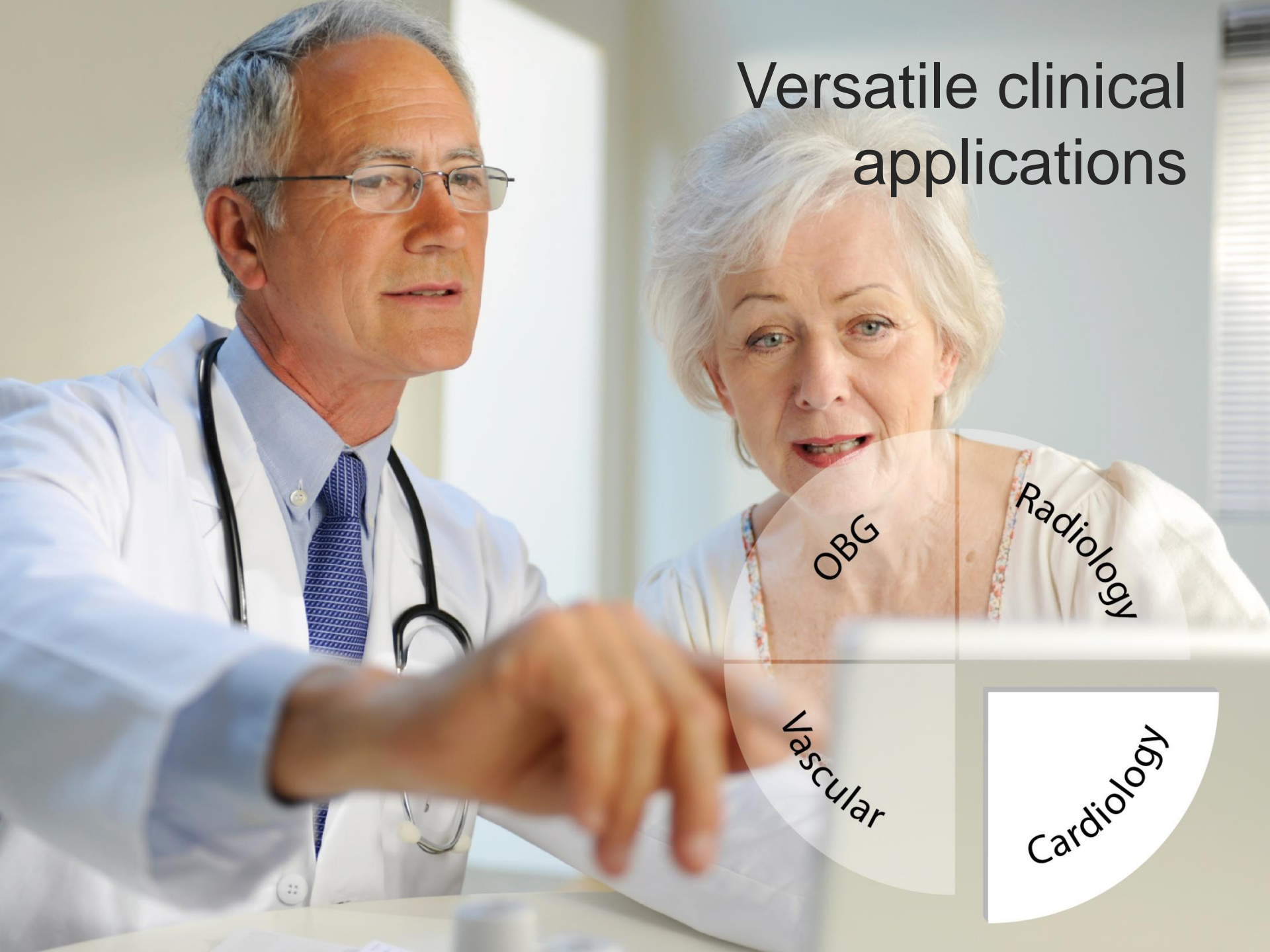
Thyroid Tumor



Shell Analysis for fibroadenoma

- Stable and good reproducibility
- Unique shell function to analyze infiltration status
- Multiple parameters quantification analysis
- Available for breast/thyroid/nerve/prostate

Versatile clinical applications



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Cardiology

High performance transducer

- Single Crystal SP5-1E for difficult cardiac patients
-

Full range of cardiac transducers

- Dedicated transducers for adult, pediatric and neonatal study
 - TEE transducer for advanced cardiac monitoring
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Professional research package

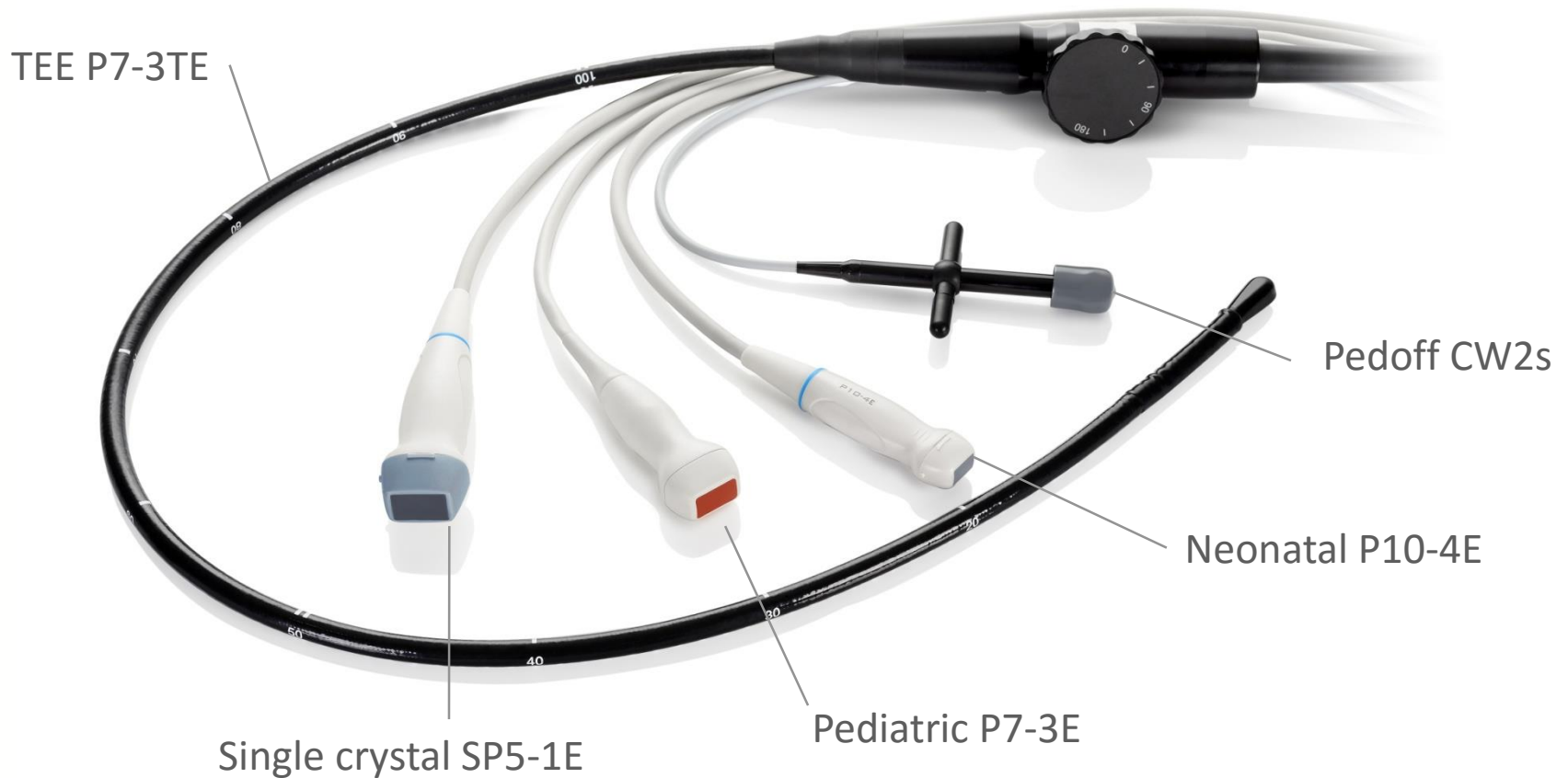
- TT QA and Strain/Strain Rate offer quantification data
 - Stress Echo and LVO(Left Ventricular Opacification) for advanced myocardial function analysis and evaluation
-

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
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Transducer family



Amazing
Imaging performance

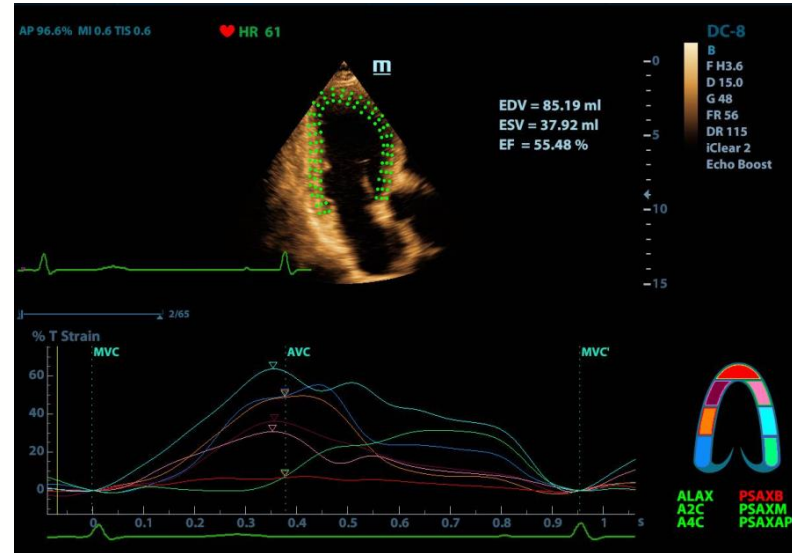
Versatile
clinical application

Extraordinary
user experience

Strain/Strain rate



Strain - TDI



Strain - Tissue Tracking

Reproducible and quantitative assessment of the left ventricle function

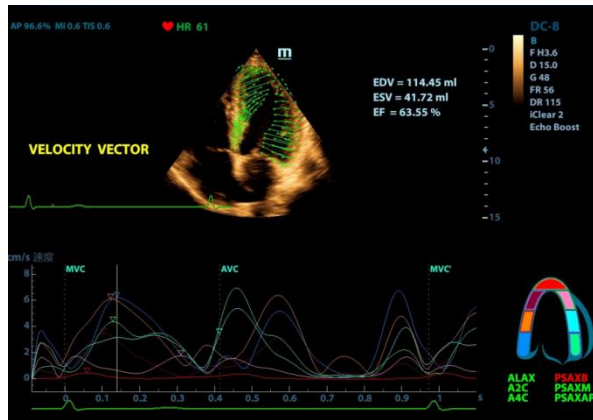
- Provide analysis of the myocardium with ROI up to 8 selections
- Available on 2D tissue tracking QA and TDI QA

Amazing
Imaging performance

Versatile
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Extraordinary
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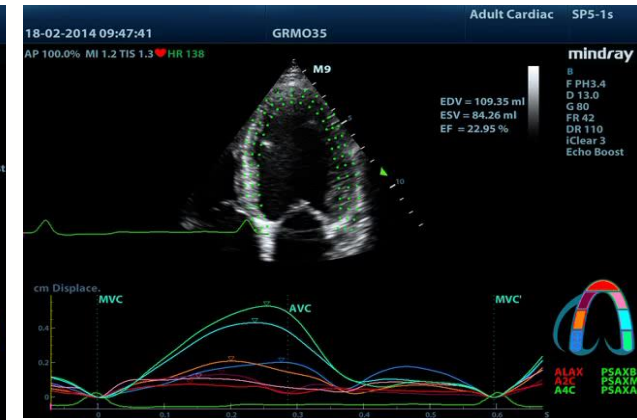
TT QA



Vector Image



Bull's Eye Scoring



Displacement Analysis

Track myocardial motion by detection of the 2D speckle patterns, provide LV regional abnormalities diagnostic information

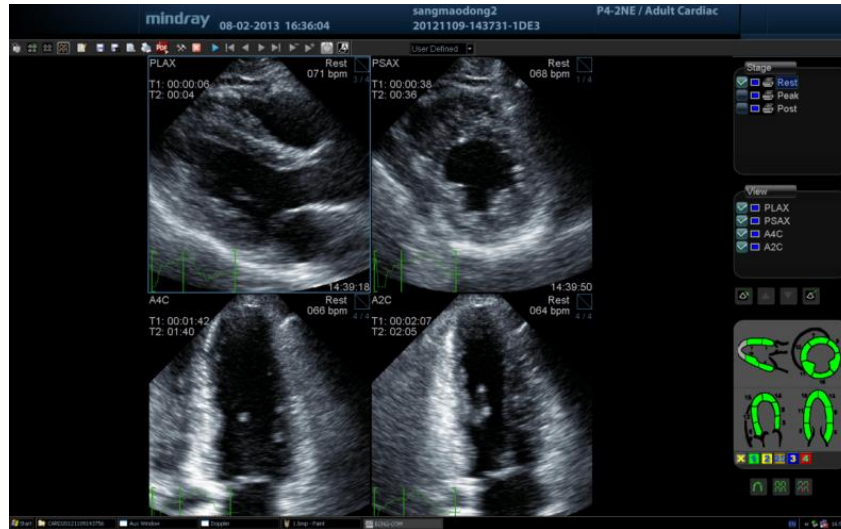
- Accurate tracking results even for difficult patients
- Fast multiple quantification parameters such as Bull's eye scoring
- Velocity display method selectable including vector and point

Amazing
Imaging performance

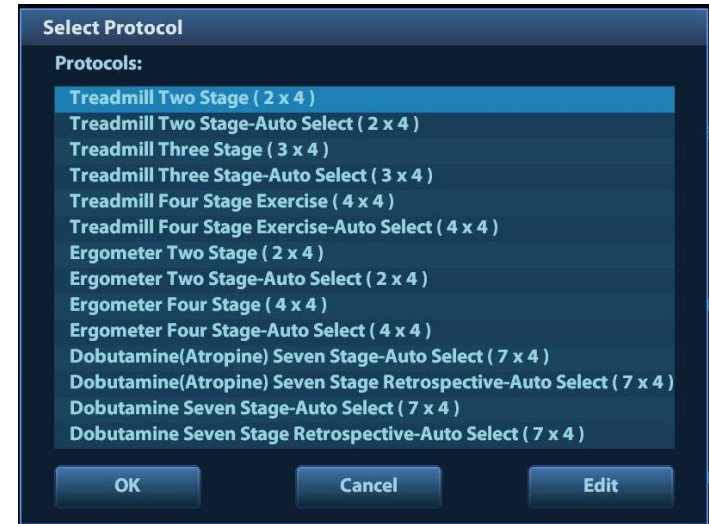
Versatile
clinical application

Extraordinary
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Stress echo



Wall Motion Scoring



Stress Protocols

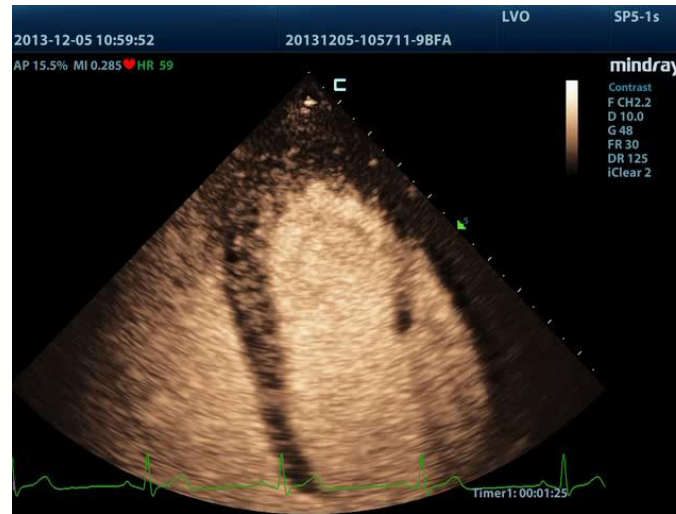
- Versatile exercise and pharmacologic protocols
- User configurable protocol for different clinical preference
- Wall motion scoring reporting
- Multi loops selectable with one section

Amazing
Imaging performance

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clinical application

Extraordinary
user experience

LVO (Left Ventricular Opacification)

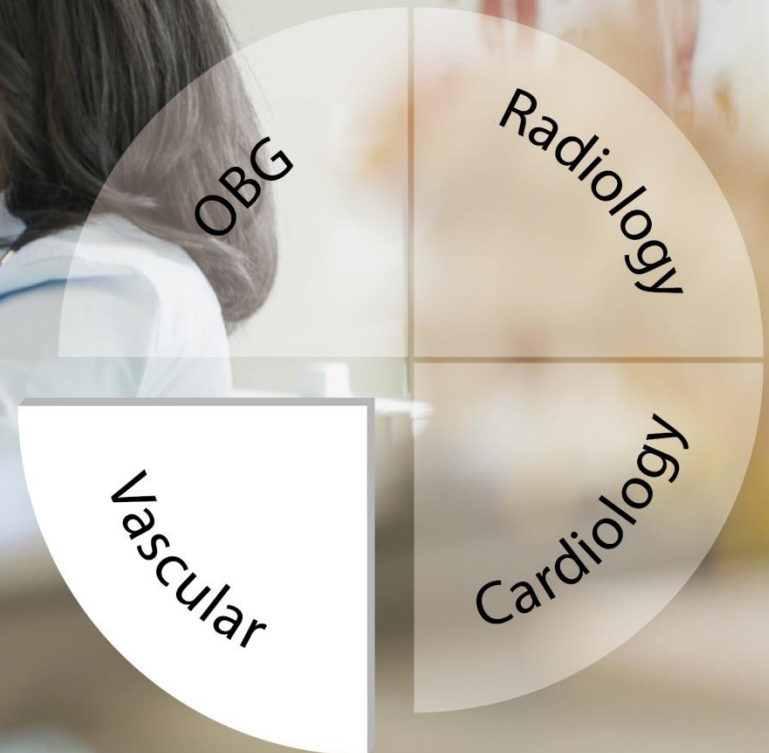


LVO with SP5-1E

Reveal structural and functional change of left ventricle with contrast imaging

- Longer bubble duration and higher sensitivity with UWN+ technology
- Improved contrast resolution of myocardium empowered by single crystal transducer

Versatile clinical applications



Amazing
Imaging performance

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Extraordinary
user experience

Vascular

Comprehensive imaging capability

Full range of vascular transducers
Wide bandwidth linear transducer L10-3E
Comprehensive exam settings for dedicated studies

Unique technology for premium image quality

- ART Flow improves visualization of deep vessels flow
 - Echo boost provides excellent lumen contrast resolution
-

Outstanding vascular analysis tools

- Auto IMT for easier vascular evaluation and studies
 - V-Mapping for more informative vascular report
 - Powerful iScape for extended view of vessels
-

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

Transducer solution



L10-3E
provides one
probe solution
for deep and
superficial
vascular
exams



SP5-1E
for renal
artery with
high
penetration
and good
color
sensitivity



L16-4HE
for both carotid
and extremity
vascular with
extraordinary
detail resolution
and professional
design



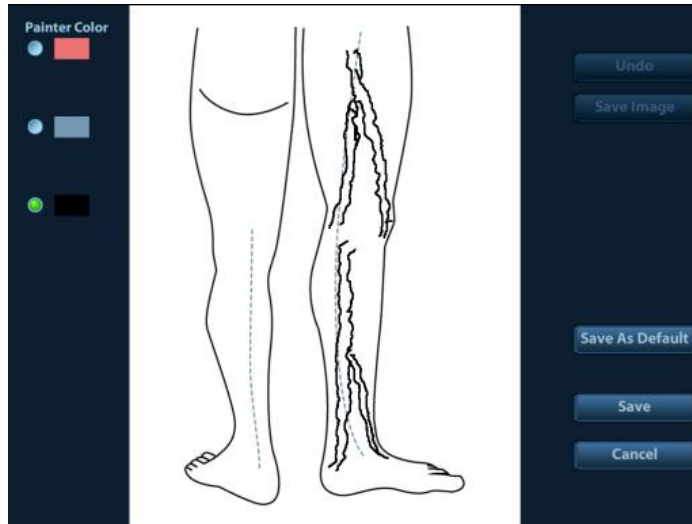
Micro-
convex C11-
3E with wide
angle of
view and
high
definition
image

Amazing
Imaging performance

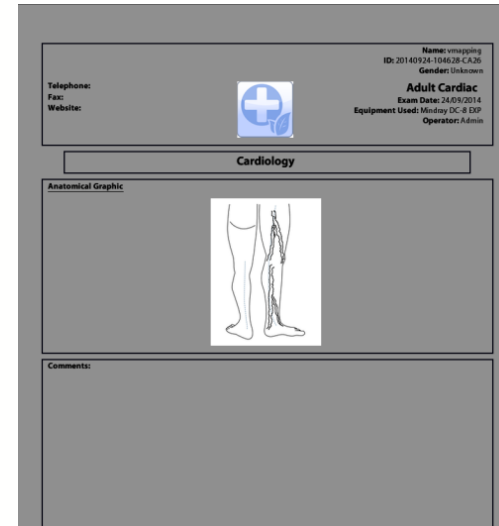
Versatile
clinical application

Extraordinary
user experience

V-Mapping



Touch Screen Drawing



Report

Allow users to highlight pathology on vascular anatomy map

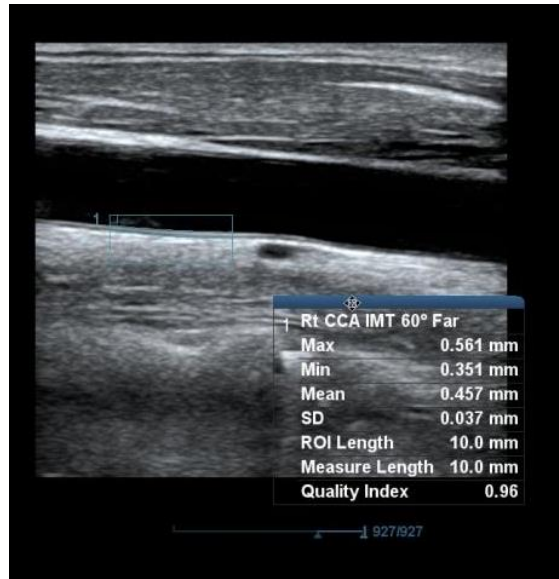
- Draw pathology location and shape intuitively on touch screen
- Provide more anatomical information on report

Amazing
Imaging performance

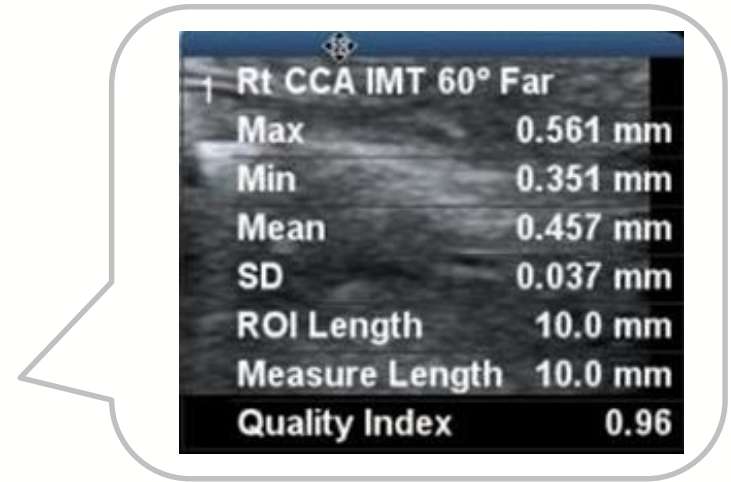
Versatile
clinical application

Extraordinary
user experience

Auto IMT



IMT Result



Automatically detect and calculate IMT for cardiovascular risk assessment

- Easy operation and less user dependence
- Provide comprehensive vascular parameters for evaluation

Versatile clinical applications



OBG

Radiology

Vascular

Cardiology

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

OBG

Comprehensive transducers

- Abdominal and endocavity volume transducers
 - Wide angle TV transducer for easy and confident examination
-

Powerful 3D/4D solution

- Mindray patent Smart MSP for 3D fetal brain structures
 - SCV+ for better 3D slice image contrast resolution
 - iLive for realistic view of fetus
-

Superior gynecology solution

Endocavity elastography enhance diagnostic information
Smart FLC for automatic follicle detection and calculation
Dedicated package for IVF application

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

Transducer solution



SC5-1E offers complete solution for whole pregnancy cycle



C7-3E for extraordinary fetal heart imaging



Volume probe D6-2E for effective and efficient 3D/4D imaging



V11-3WE with superb spatial resolution and wide angle of view for dedicated GYN scanning

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

Smart MSP (Middle Sagittal Plane)

	2D(trans-abdominal)	2D(trans-vaginal)	3D(trans-abdominal)	Data Source
MSP Acquisition successful rate	35.5%	26%	98.5%	Chinese Journal of Ultrasound in Medicine 2006

Mindray exclusive algorithm that automatically displays accurate fetal brain anatomy at the middle saggital plane in 3D

- Quick and easy viewing of corpus callosum and cerebellum vermis
- Improved diagnosis confidence and accuracy

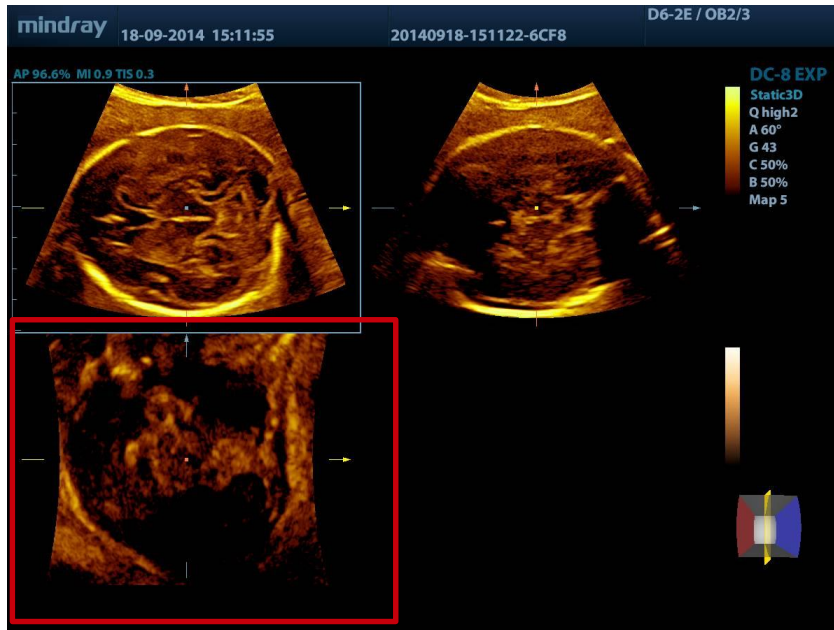
Amazing
Imaging performance

Versatile
clinical application

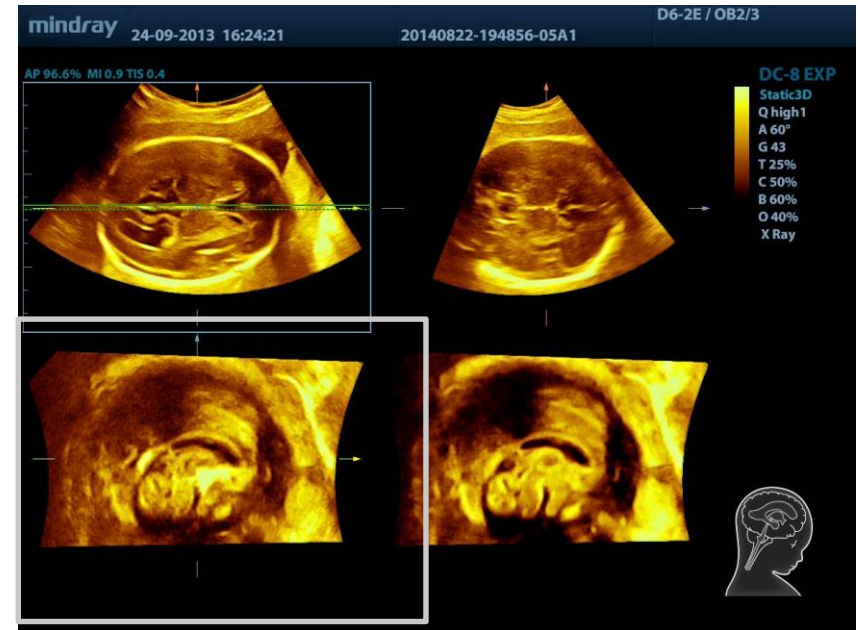
Extraordinary
user experience

Smart MSP

One button



Section without MSP



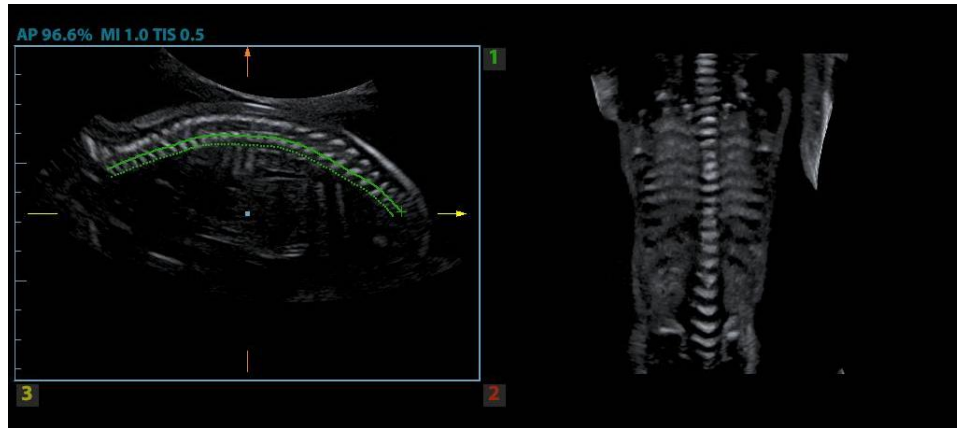
Sagittal section

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

SCV⁺(Slice Contrast View Plus)



Fetal Spine

Virtual 'unfolding' and 'stretching' of complex anatomical structures by a curvilinear section

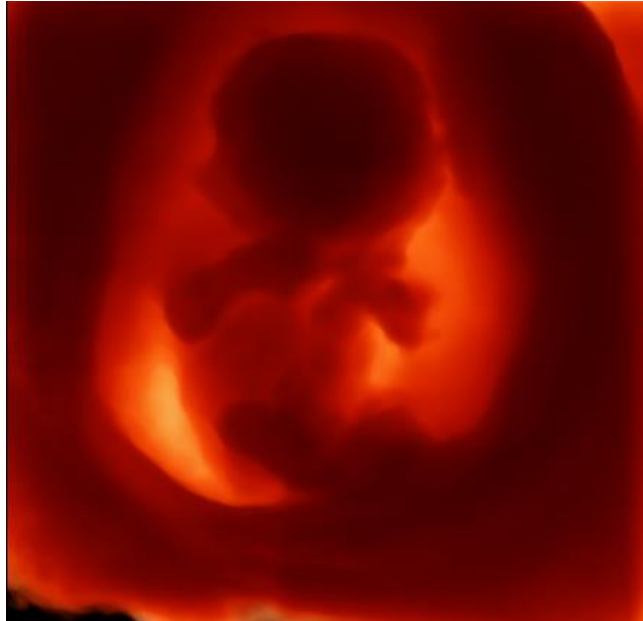
- Enhanced contrast resolution for planes defined by an arbitrary curve
- Allow more complete structural information in one single image
- Provide important anatomic information in particular with regard to anomalies of fetal face, brain, spine and endometrium.

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

iLive



A revolutionary way to obtain the amazingly realistic view of fetus with human skin like color

- New virtual and movable light source integrated
- Light source adjustment

Amazing
Imaging performance

Versatile
clinical application

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user experience

Smart FLC(Smart Follicle)



Follicle Rendering

	V	d1	d2	d3	Diam
1	4.25	5.96	2.78	0.83	3.15
2	2.12	2.15	1.94	1.07	1.72
3	1.90	2.30	1.53	1.15	1.66
4	1.67	2.03	1.47	1.09	1.53
5	1.48	2.38	1.60	0.87	1.62
6	0.91	2.05	1.29	0.84	1.35
7	0.83	1.81	1.51	0.68	1.34
8	0.75	1.77	1.14	0.76	1.23
9	0.74	1.62	1.26	0.74	1.21
10	0.68	1.31	1.21	0.86	1.13
11	0.48	1.33	0.93	0.78	1.01

Smart Follicles Table

Automatically detect the number and calculate the volume of follicles from a 3D volume image

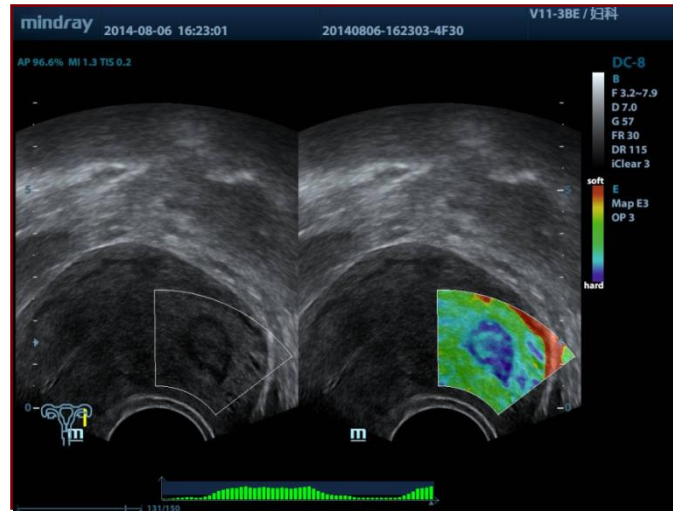
- Accurate assessment of the size of follicles
- Follicles are automatically sorted by sizes with color code
- Easy reporting with colorful graphic designed for follicle study

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

Natural Touch Elastography on Trans-Vaginal Probe



Endometrium mass

Provide multiple relative strain and stiffness parameters of cervix, uterus and ovary lesion for diagnosis

- More sensitive, and less user dependent
- Excellent reproducibility with consistence

*Available on V11-3E/V11-3BE/V11-3WE

Extraordinary user experience

Efficient work flow

- iWorks
- iTouch
- Smart doppler
- Auto measurement
- Raw data

Easy data management

- iStation
- MedSight
- Built-in DVR
- DICOM

Excellent ergonomic design

- 19" high resolution LCD
- 10.4" touch screen
- Flexible control panel
- Four active sockets
- Gel warmer

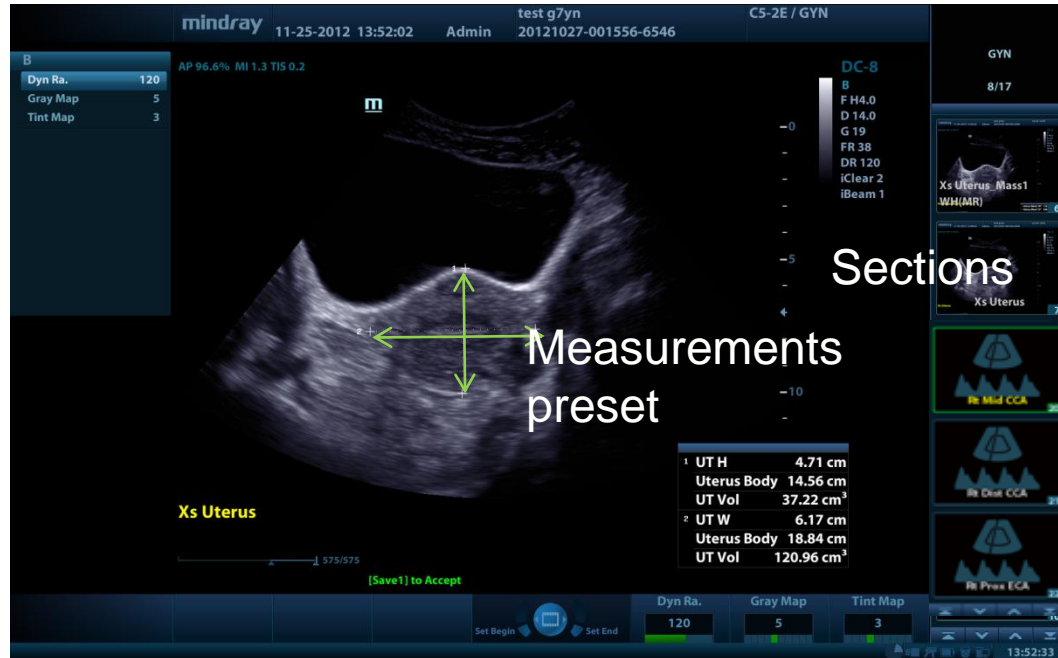


Amazing
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iWorks



Standardize and simplify the workflow, let you be more focused on the patient and diagnosis

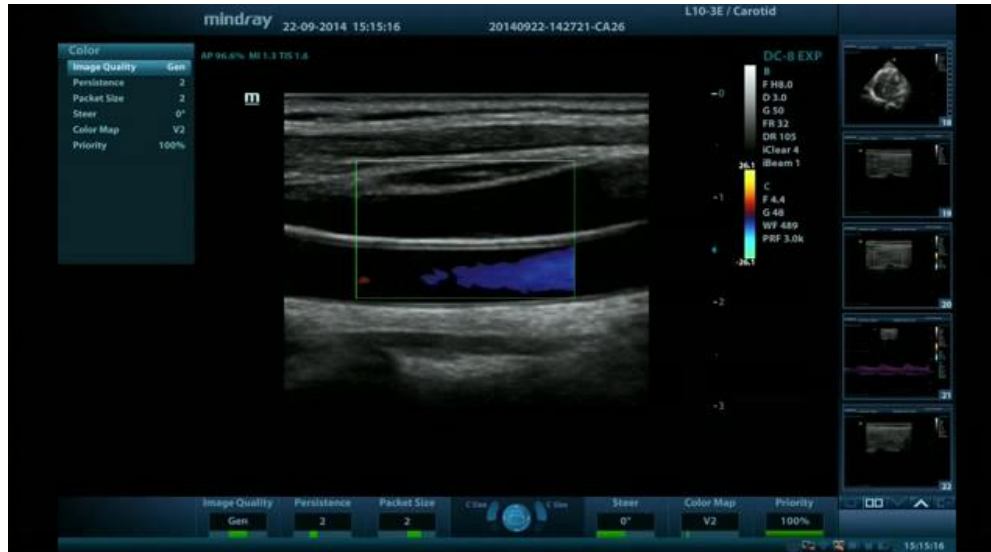
- Complete protocols for abdomen, vascular and other 38 applications
- Reduce up to 50% exam time and 80% keystrokes
- Very flexible with powerful user-define capability

Amazing
Imaging performance

Versatile
clinical application

Extraordinary
user experience

Smart Doppler



Automatically positioning color box and doppler gate placement inside vessel to ensure quick color and spectral doppler imaging

- Automatically detect best optimal Color box position and angle
- Perfect alignment of PW sample volume position and angle

*Available on L10-3E and L12-3E

Amazing
Imaging performance

Versatile
clinical application

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MedSight



Interactive App that could transfer clinical images/cines and reports from DC8 Exp to IOS smart devices via WiFi

- Specially designed for patients to transmit images
- Enable maternal mother to easily share the lovely unborn baby images with her family or friends

Amazing Imaging
performance

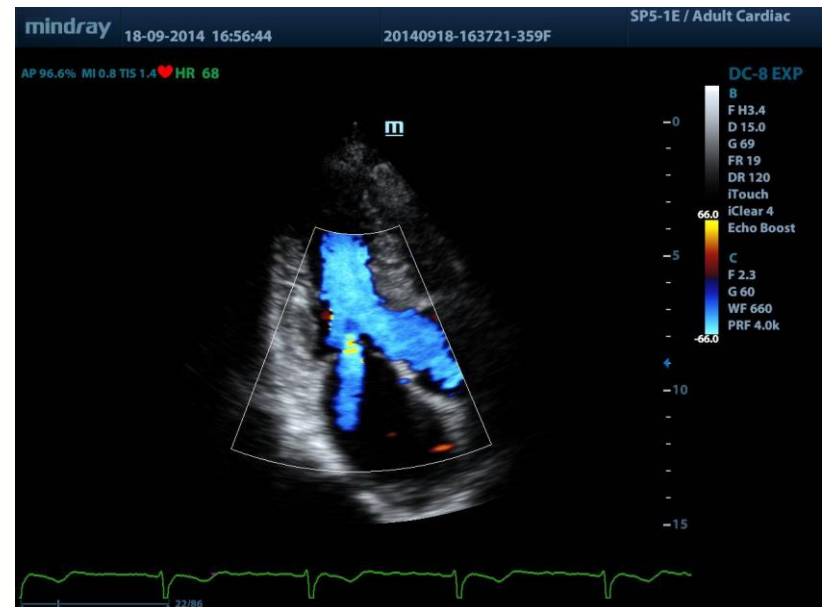
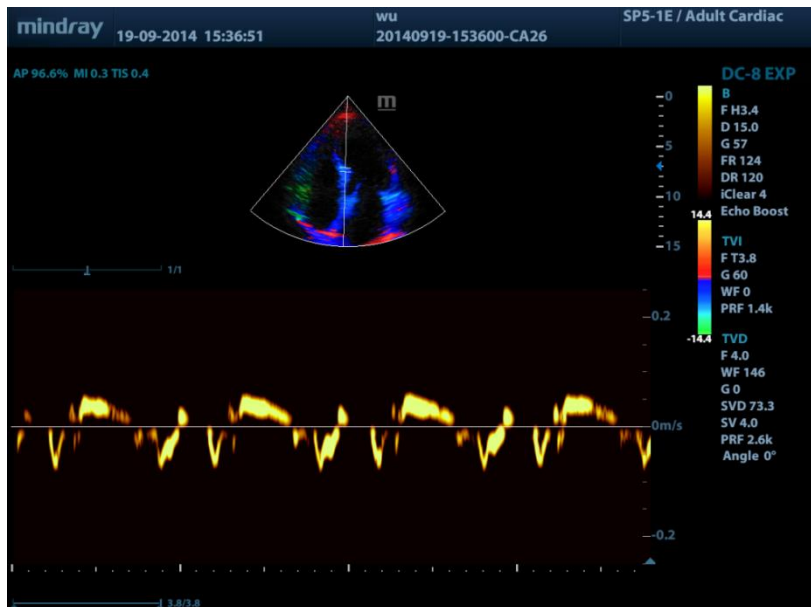
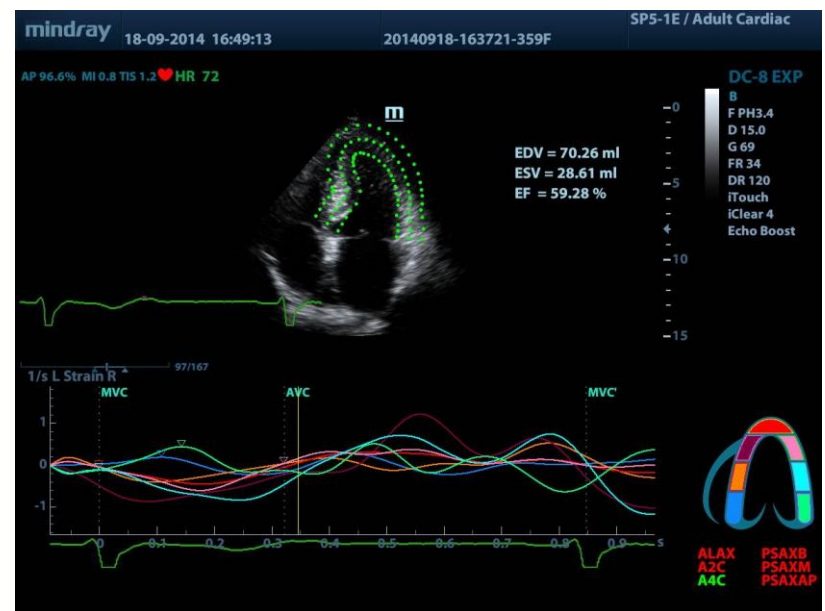
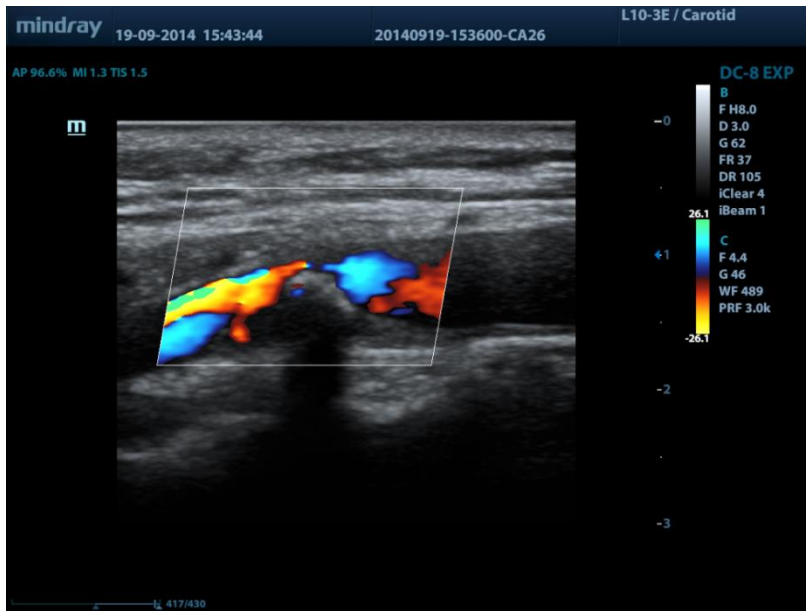
Versatile clinical
application

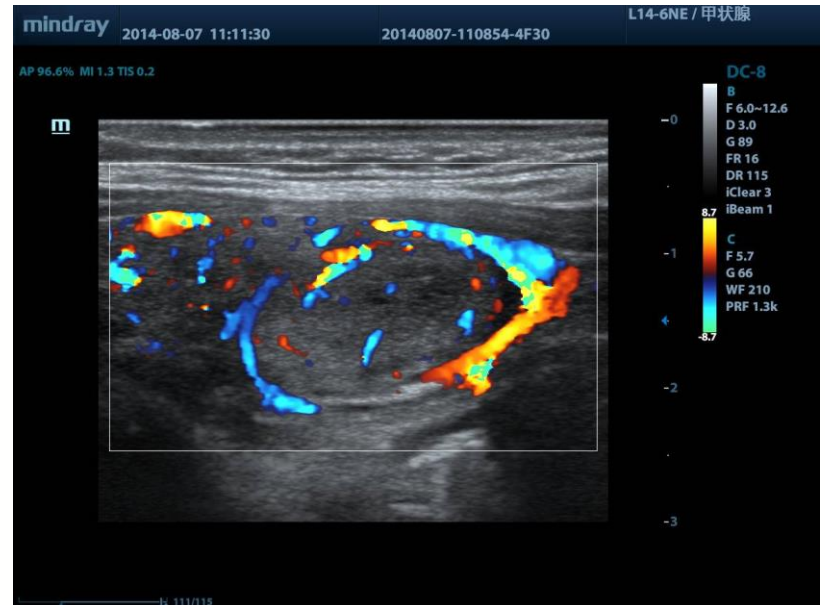
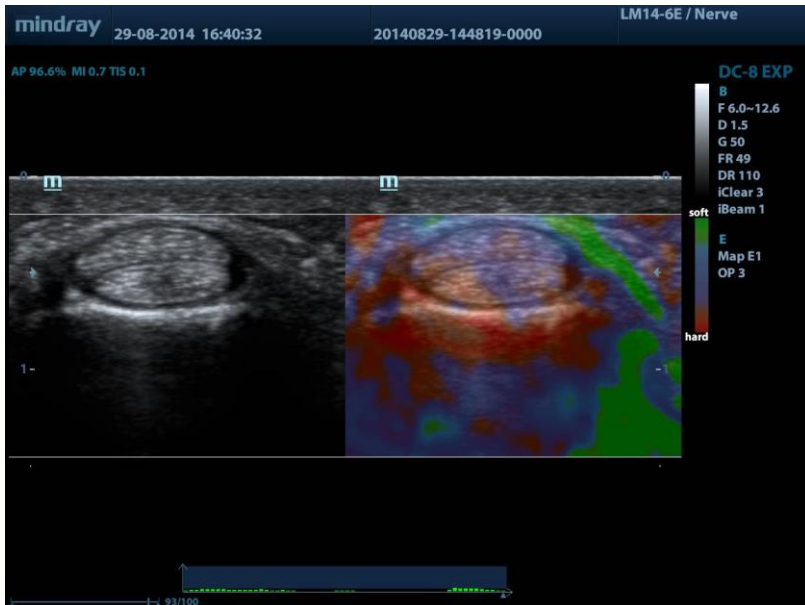
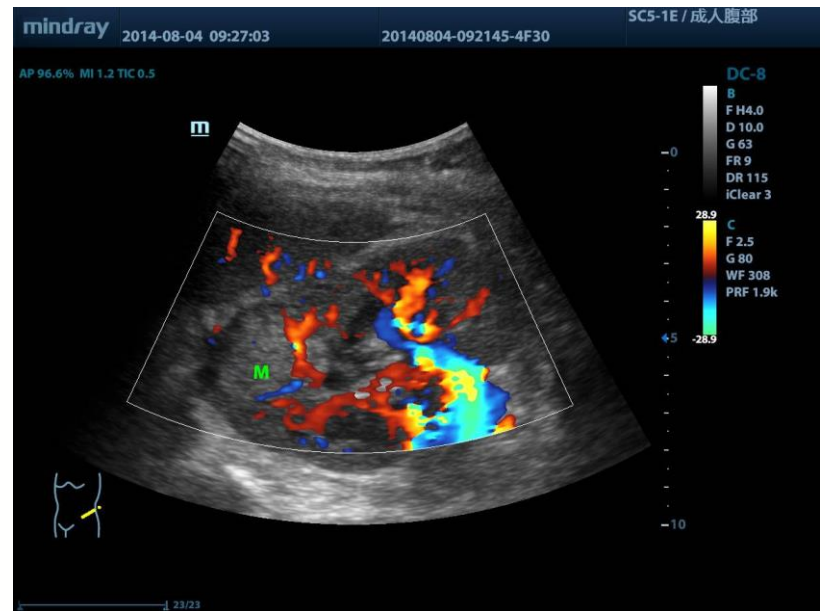
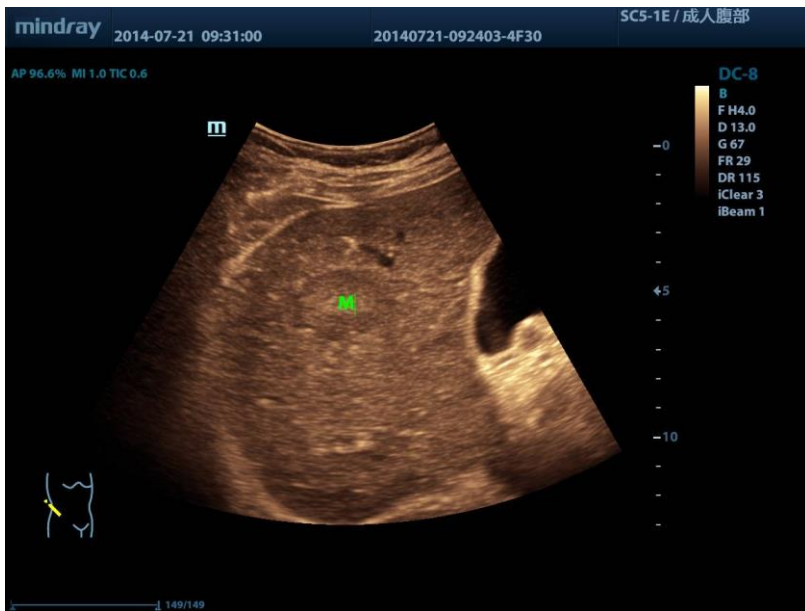
Extraordinary user
experience

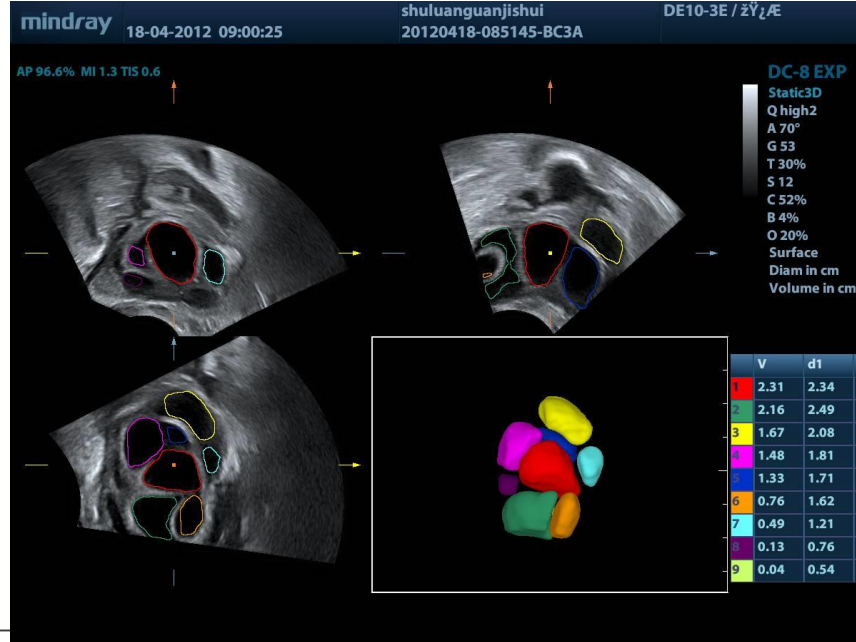
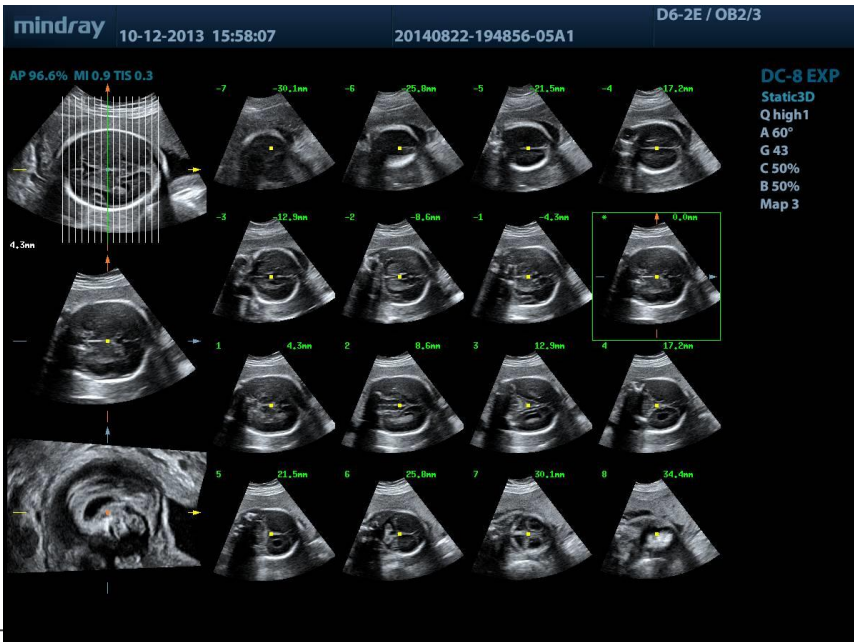
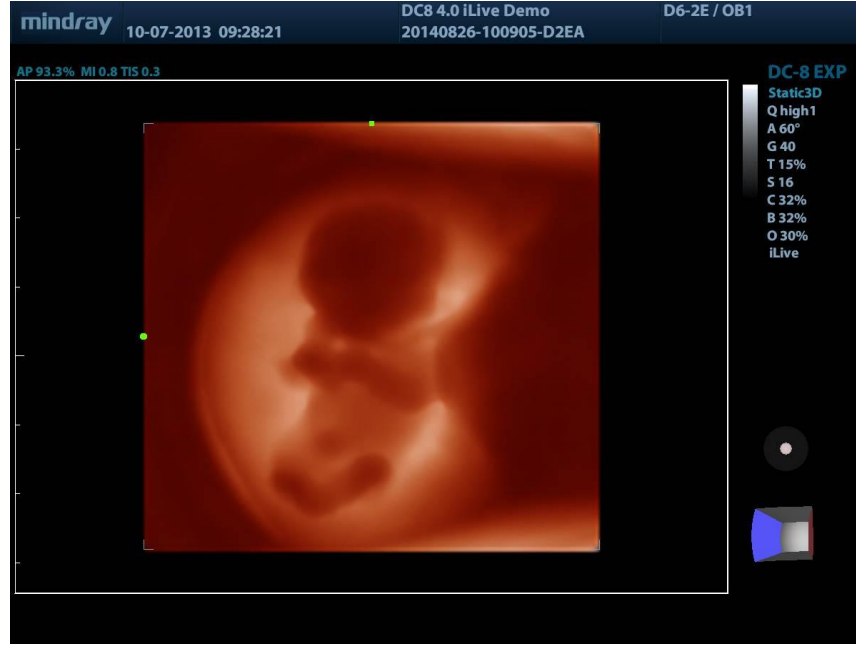
User-friendly ergonomic design



Image Gallery







Thank you!