

mindray
healthcare within reach

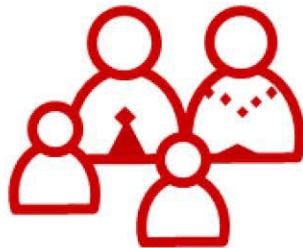


Tiara Medical®
медицинское оборудование

DC-60

Product
introduction

Global healthcare trend



Booming population Ageing people

- 2013-2050, >60 year proportion: 11.7%-21.2%
- 2013-2050, global population: 7.2B-9.6B



Emerging markets

- India: free treatment
- Russia: free basic medical care
- China: number of private hospital is growing



Medical policy

- USA: ACA (Affordable Care Act) implementation



Innovative technology

- Improved image quality
- Versatile application fields

Growing demand of high quality healthcare service

Limited healthcare resource, busy daily work



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mindray



DC-60



Tiara Medical®
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Designed as part of cost-effective
and efficient healthcare to enhance
diagnostic confidence and reduce
daily work burden .



DC-60

Quality Exams at Your Fingertips

mindray
healthcare within reach

Quality Exams

- Reliable image quality
- Versatile transducer solution
- Comprehensive application

Comfortable User Experience

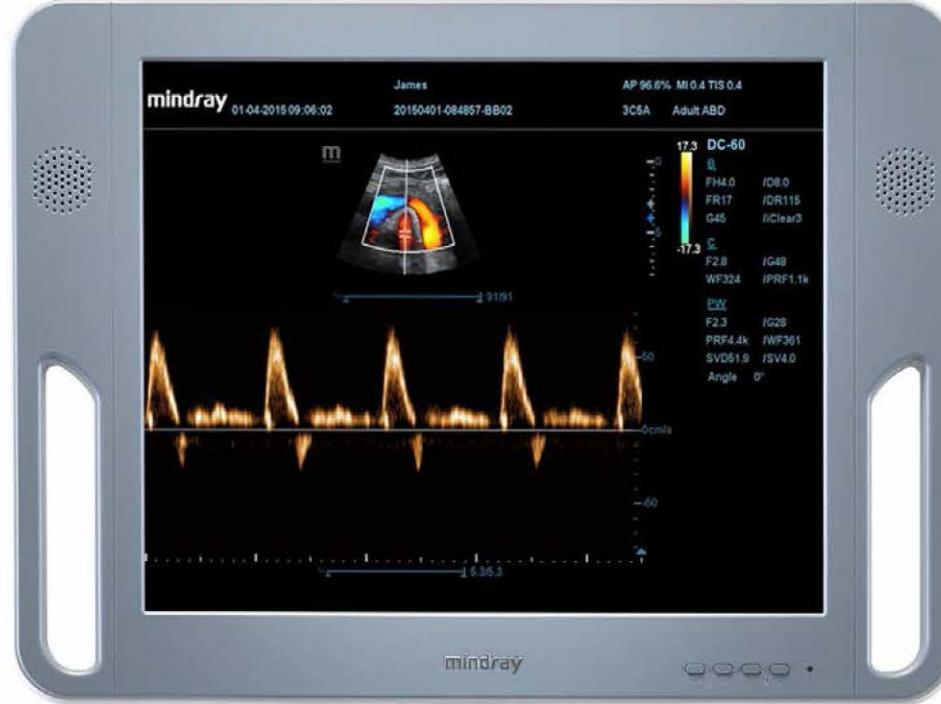
- Gesture sensitive touch screen
- Streamlined workflow
- Powerful data management
- Smart design





Quality Exams

- Reliable image quality
- Versatile transducer solution
- Comprehensive application



mindray

Reliable image quality

Image optimization
technology

- Echo-enriched beamformer
- PSH, iClear, iBeam

Advanced technology
for dedicated
application

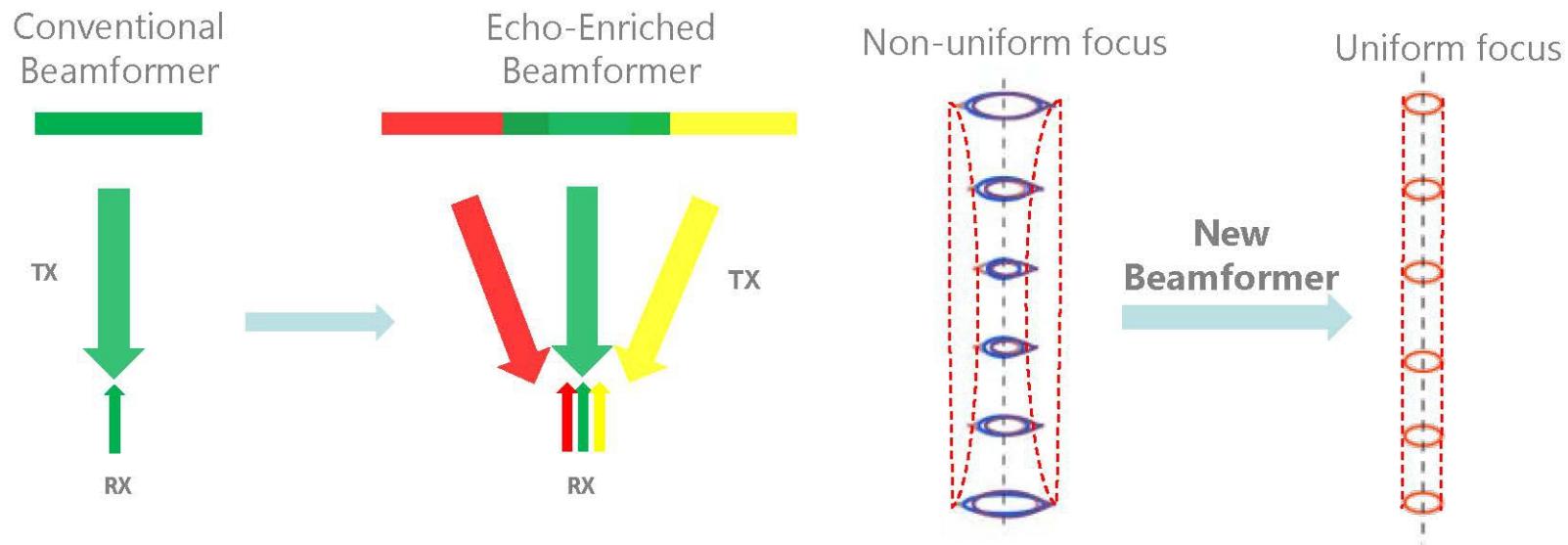
- HR Flow
- Echo Boost



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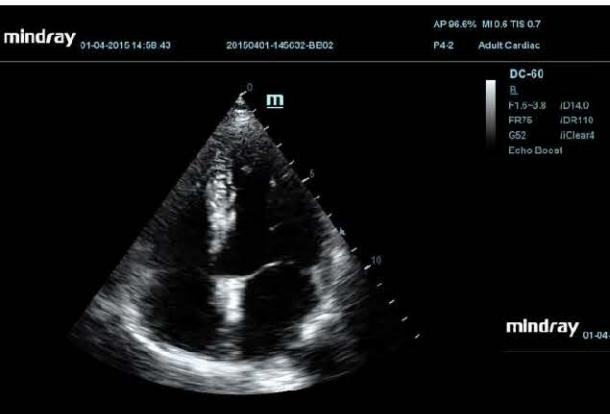
Echo-enriched beamformer



Utilizing traditionally neglected echo of adjacent transmit beams to form one finer and stronger imaging beam

- Providing better out-of-focus image resolution and deeper penetration

Phase Shift Harmonic Imaging(PSH)

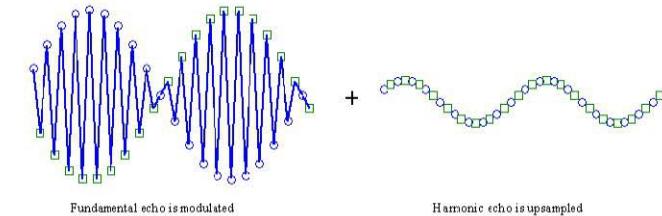
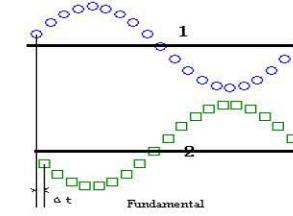
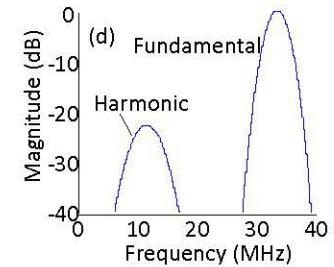
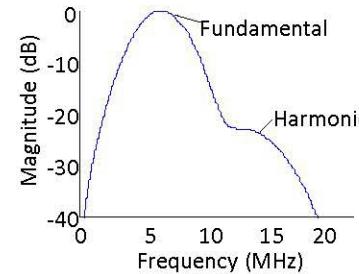


PSH Off



PSH On

- Purified harmonic imaging for better contrast resolution
- High S/N ratio to get better noise suppression



iBeam



Traditional

With iBeam

Conventional imaging

Spatial Compound imaging

- Combine multiple angle-steered images into one, no frame rate drop
- Better contrast resolution
- Less shadow for more information

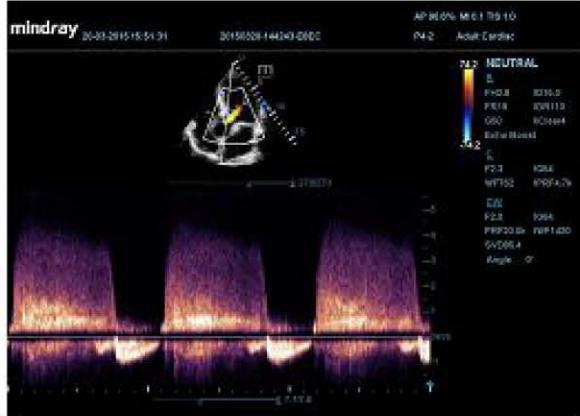
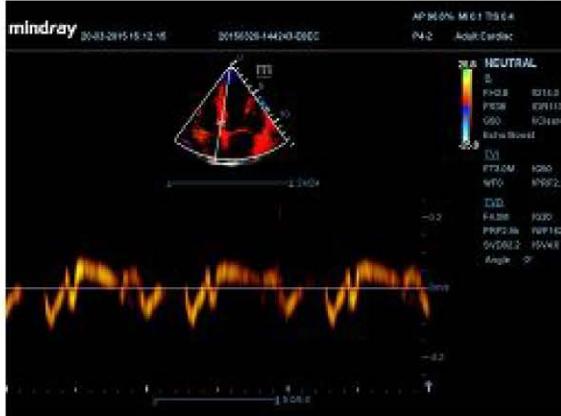
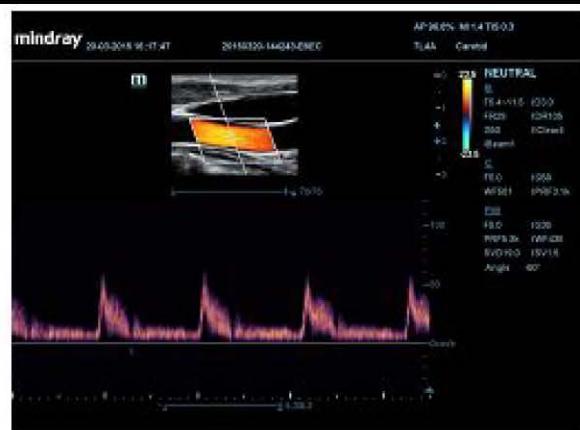
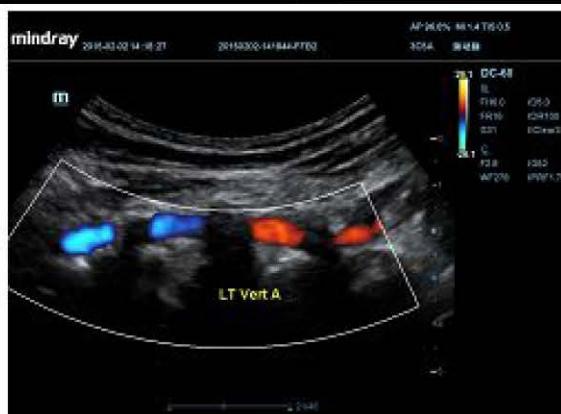
iClear



- Detect different structures then separate them into 3 categories:
 - Edge: Sharpen it and make it more continuous
 - Uniform tissue: Smooth it
 - No echo area: Clean the noise
- Better contrast resolution
- Clearer and sharper tissue border definition

Quality Exams

Comfortable User Experience



Versatile transducer solution

- Total 11 transducers
- High density transducer L14-6NE
- Up to 16MHz (L14-6NE)



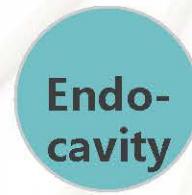
**3C5A
6C2**



**7L4A
L14-6NE**



**P4-2
P7-3**



**V11-3
V11-3B**



D7-2E



**CW2s
CW5s**



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Comprehensive application



General Imaging

Versatile Transducer

- 1.3-16MHz wideband frequency
- 192 elements high density linear probe



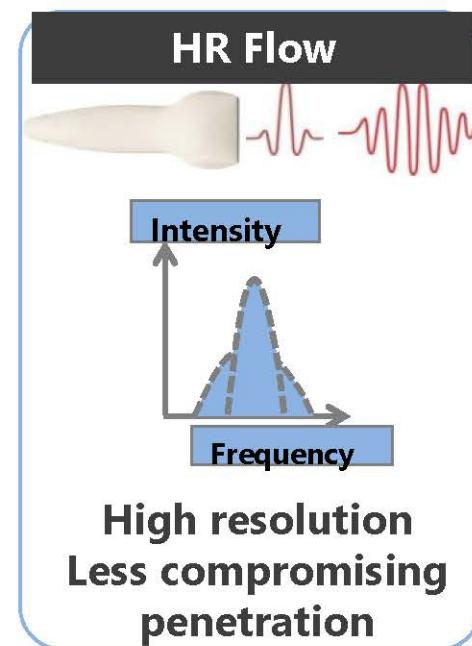
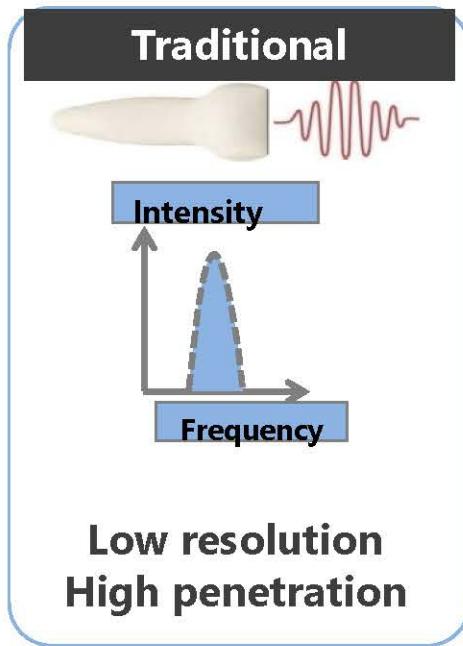
Enhanced confidence

- HR Flow: for accurate profile and less overflow
- iScape: real time panoramic imaging for B & Power
- iNeedle: needle visualization enhancement

Intelligent assistance

- Auto IMT
- Auto focus position
- Auto PW trace and calculation

HR Flow

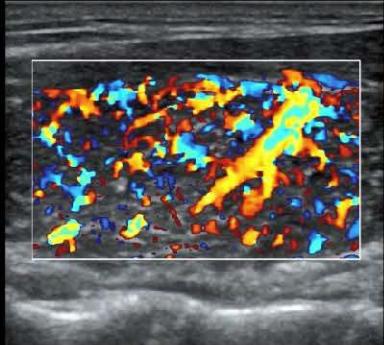


High resolution flow with better spatial resolution for accurate vessel profile and less overflow

- Support both Color and Power

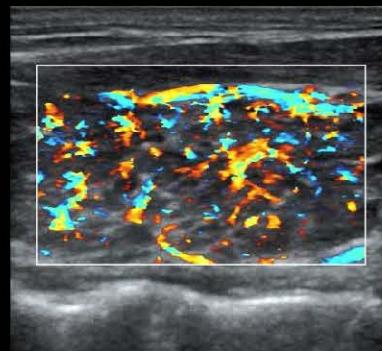
HR Flow

mindray
01-04-2015 14:17:31 20150401-140814-BB02



Traditional

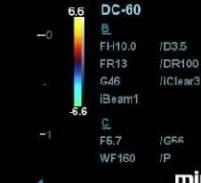
mindray
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HR Flow Color

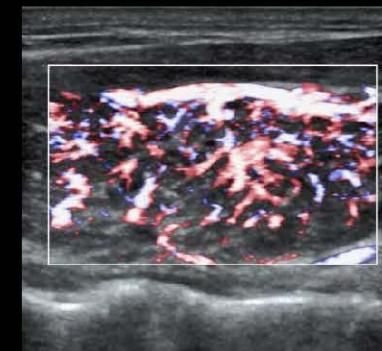
mindray
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AP 96.5% MI 1.4 TIS 0.2
7L4A Thyroid



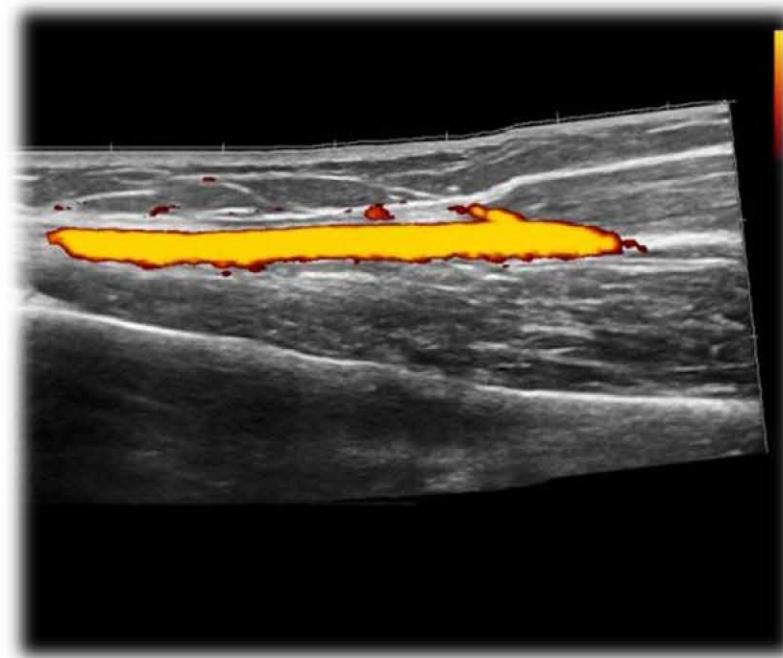
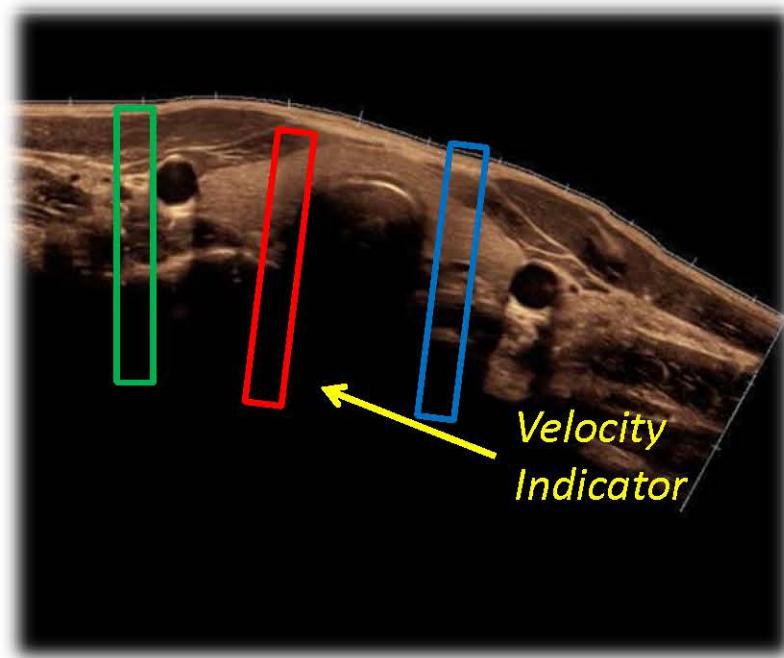
mindray
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AP 96.6% MI 1.4 TIS 0.2
7L4A Thyroid



HR Flow Power
mindray

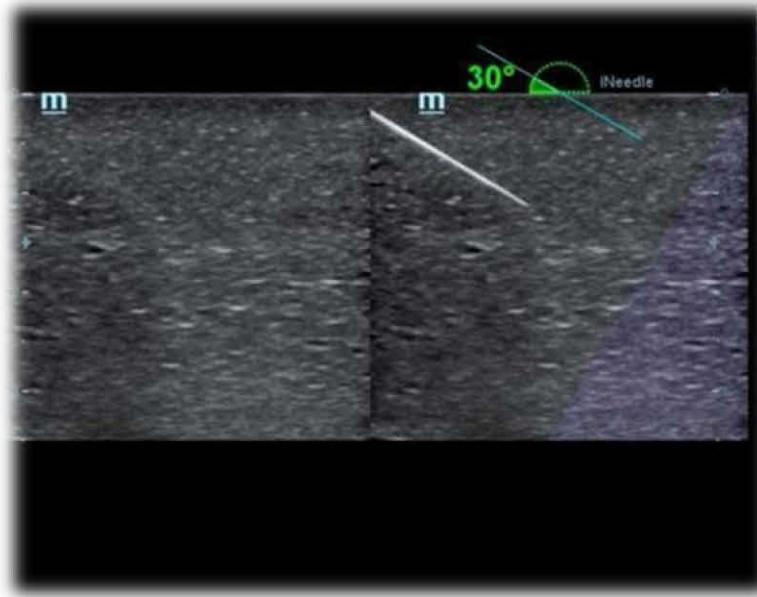
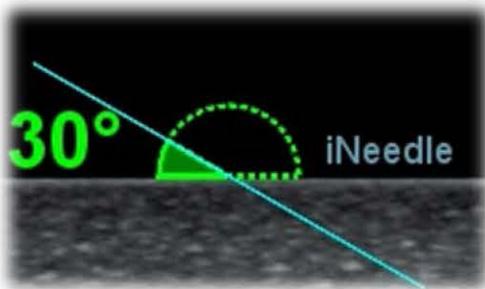
iScape



Real time panoramic imaging to better understand whole anatomical structures

- Velocity indicators make your scan much easier and controllable
- Support Power panoramic imaging

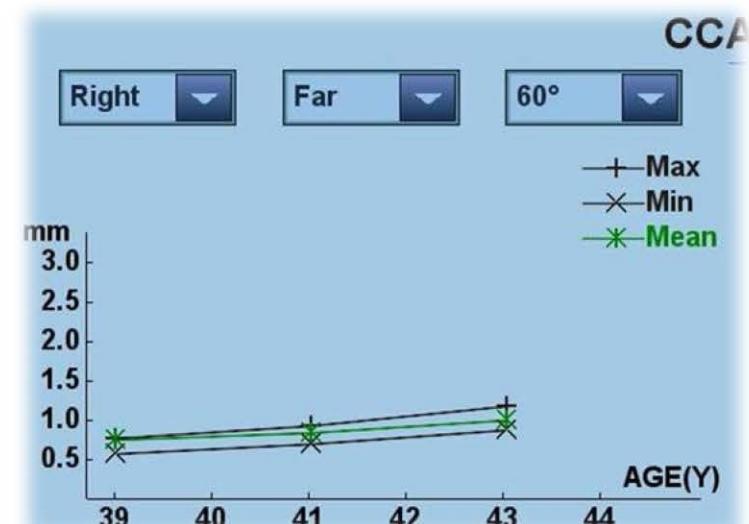
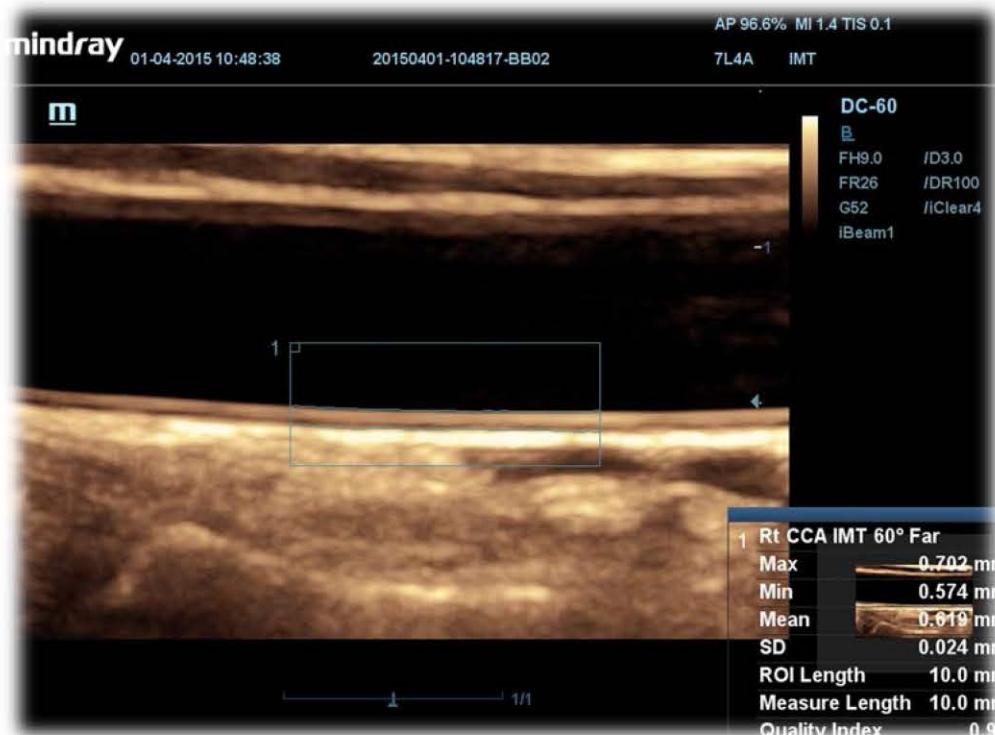
iNeedle-Needle visualization enhancement



High quality ultrasound guided biopsy for clear visualization of actual needle tips and shaft, easy needle approach to target and enhanced accuracy for guided procedures.

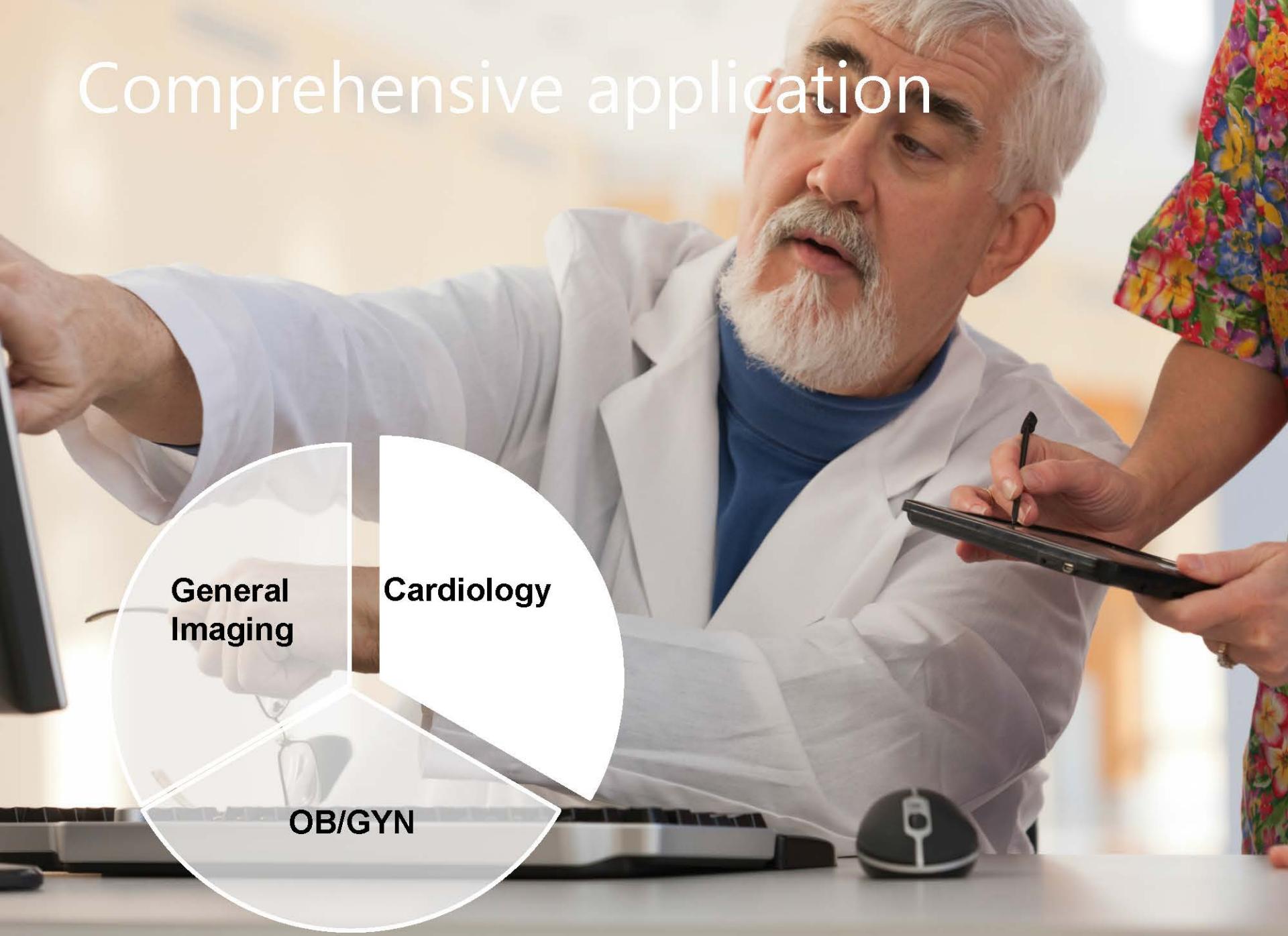
- Big adjustable steer angle to be as vertical as possible to the needle for optimal needle enhancement
- Max 30° angle adjustment (-20° ~ -50° , 20° ~ 50 °)

Auto IMT



- Automatically detect and calculate IMT for cardiovascular risk assessment
- IMT trend graph for IMT progression analysis

Comprehensive application



Cardiology



Dedicated technology

- 1.3-8MHz wideband frequency phased array
- Programmable LGC: for different cardiac planes for short cut optimization
- Echo Boost: for better homogeneity, contrast resolution and noise control of cardiac image

Confident diagnosis

- TDI & TDI QA: for myocardial movement and synchronization evaluation
- Strain & strain rate: for further quantitative analysis of myocardium motion
- Stress echo: to evaluate segmental myocardium movement with increased workload

Intelligent assistance

- Auto LV
- Auto PW trace and calculation

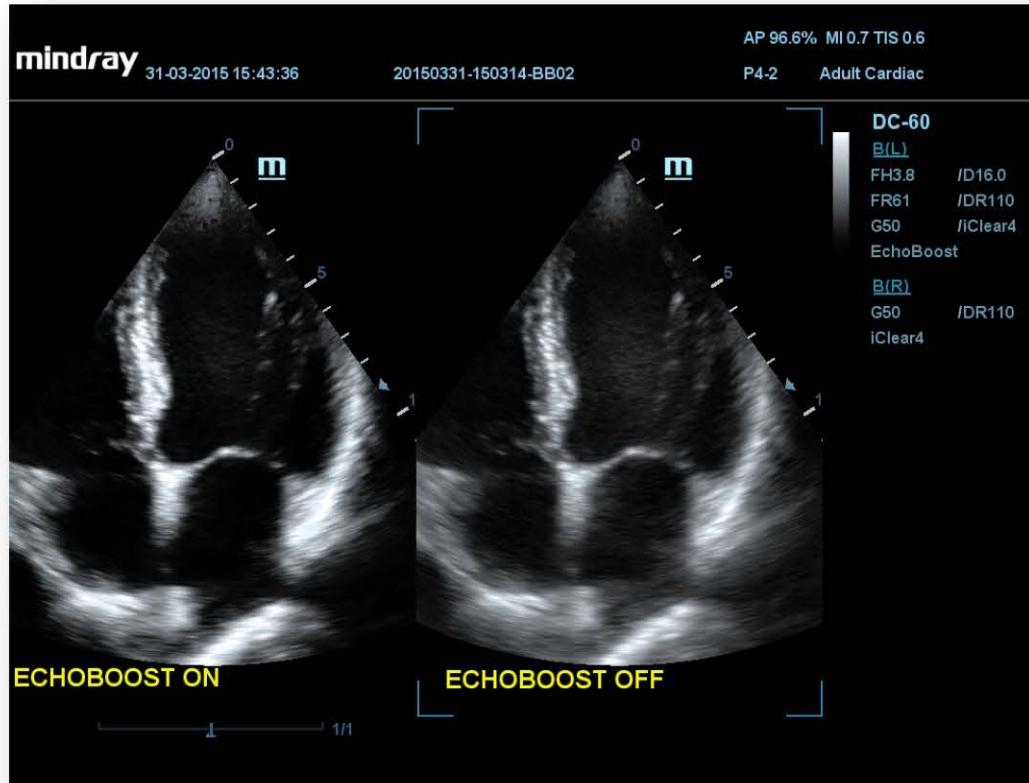
Echo Boost-Endocardium enhance technology



Principle:

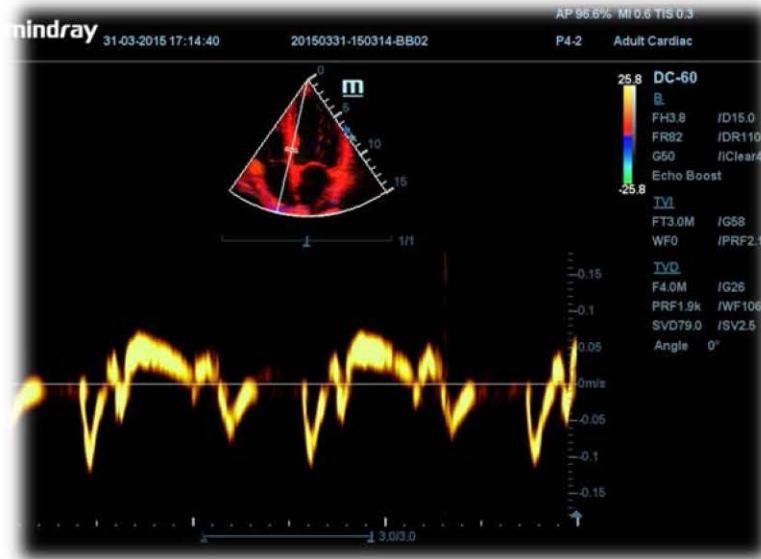
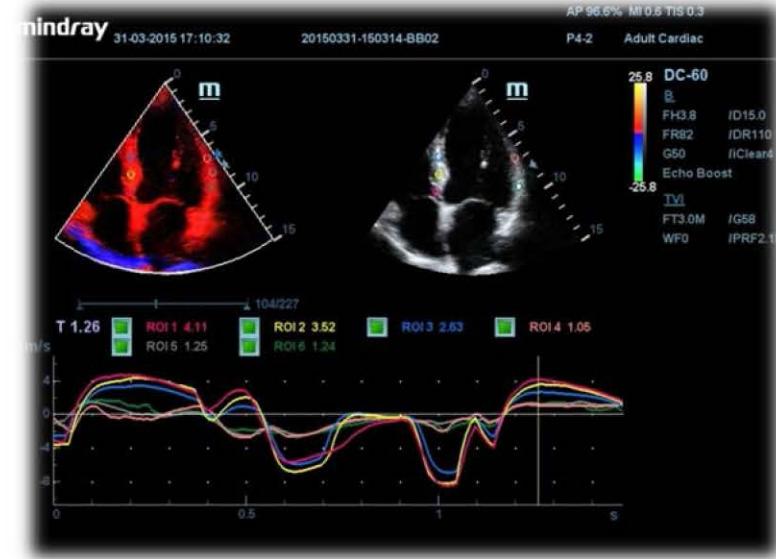
- Precise recognition by zones on RF level based on Mindray unique echo technology
- Adaptive image optimization
- Intelligent image fusion

Echo Boost



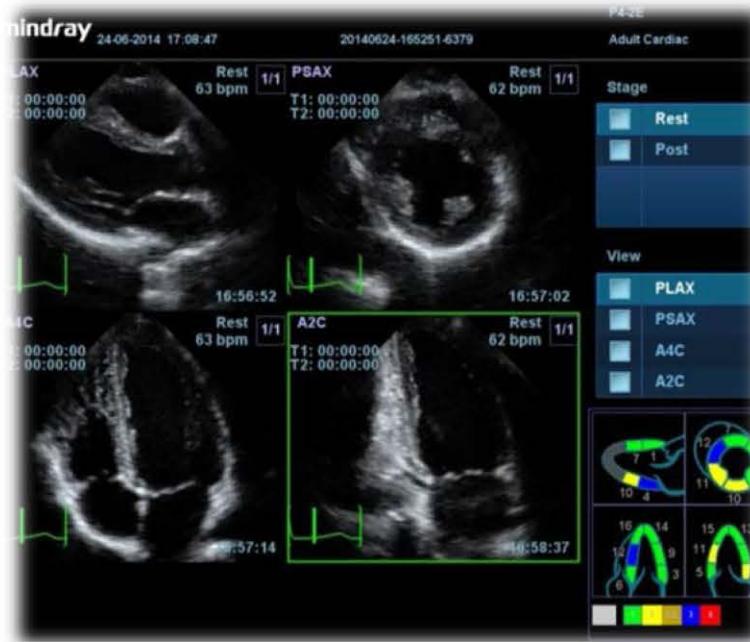
- To improve the homogeneity of cardiac images through the whole field of view
- Better contrast resolution of myocardium tissue layers
- Better noise control in cardiac chambers and muscles

TDI & TDI QA with strain/strain rate

**TVD****TDI QA**

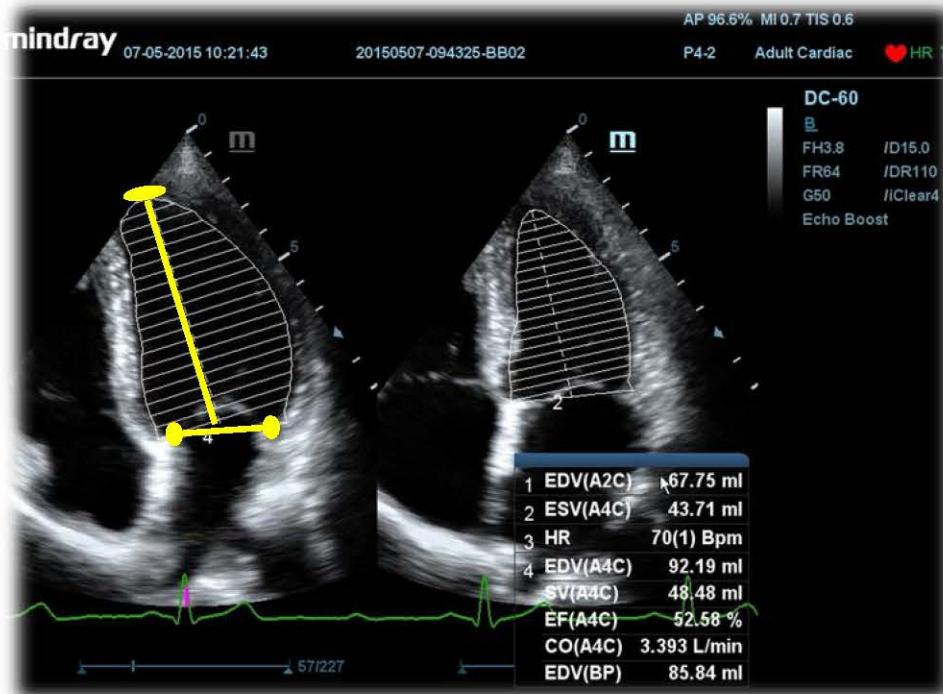
- Complete TDI modes (TVI/TVD/TVM/TEI)
- Quantitatively evaluate myocardial movement and synchronization
- Analysis for up to 8 ROI
- ROI tracking tissue movement for accurate analysis
- Support strain & strain rate

Stress echo



- Provides exercise and pharmacologic stress protocols
- User configurable template editor/creator
- Multi loops selectable with one store
- Dual timer display
- Wall motion scoring
- Stress echo report

Auto LV



- Auto trace and calculation for LV function
- Easy manual correction is available

Comprehensive application



General
Imaging

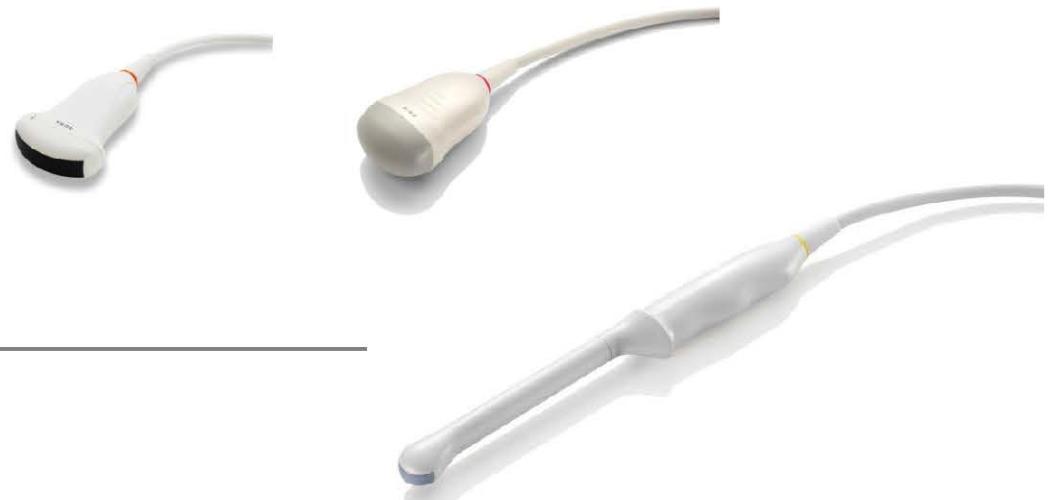
Cardiology

OB/GYN

OB/GYN

Full range of transducers

- Convex, endo-cavity, volume
-



Powerful 3D/4D

- iClear: speckle reduction for better & smoother 3D/4D image
 - iPage: help to detect difficult structure
-

Intelligent assistance

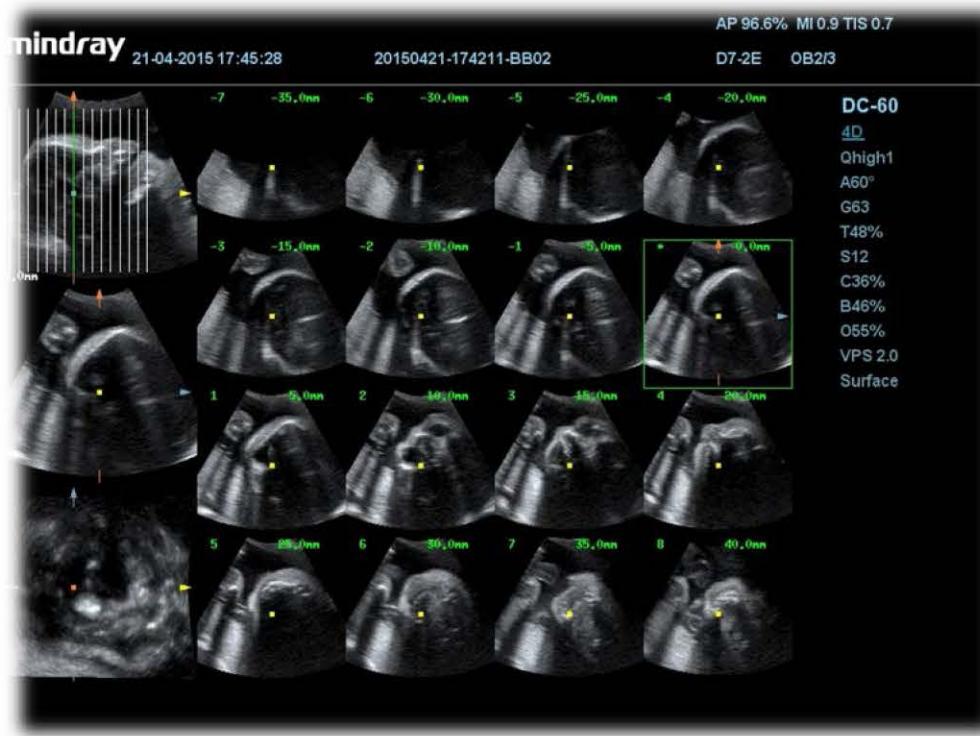
- Smart OB: auto measure of most frequently used items BPD/HC/FL/AC/OFD
- Smart NT: auto measure of NT

Powerful 3D/4D



- Rich rendering modes: Surface, Max, Min, X-ray
- Curved ROI: Suit for different shape rendering
- iClear for better volume image quality

iPage



- Display volume data with multiple parallel 2D images, which could easily interpret anatomical structures, for those are usually difficult to capture and make more confident diagnosis

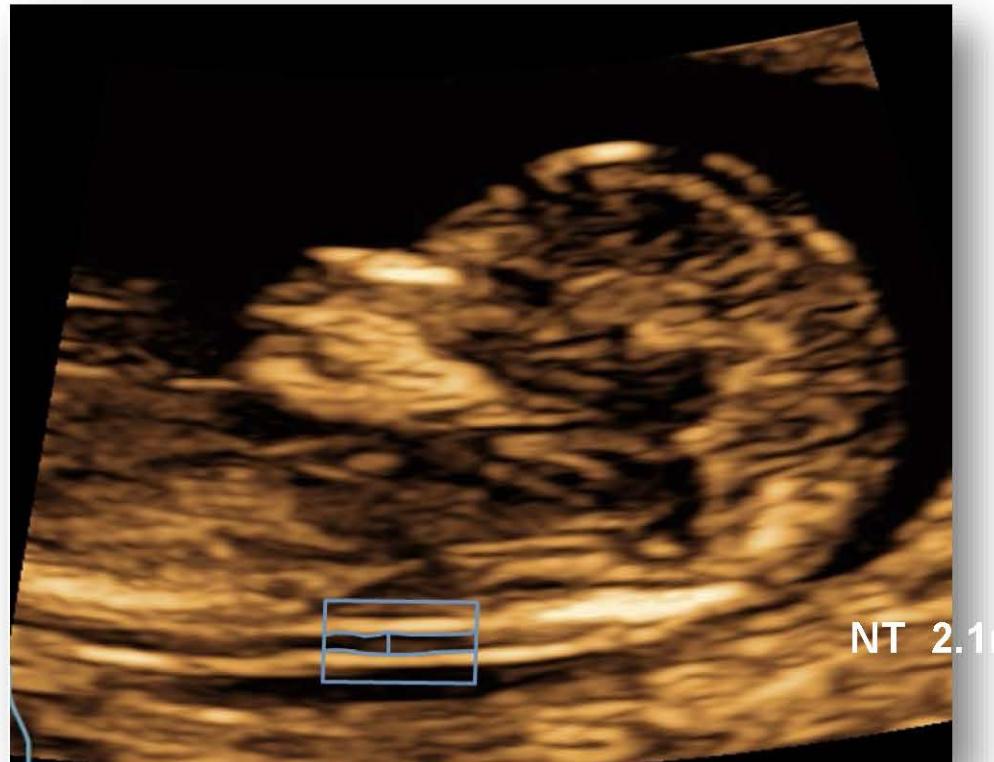
Smart OB



Accurate auto measurements of most frequently examined parameters including BPD/HC/FL/AC/OFD on a single click

- Efficient and accurate
- Greatly reduce repetitive key strokes and increase productivity

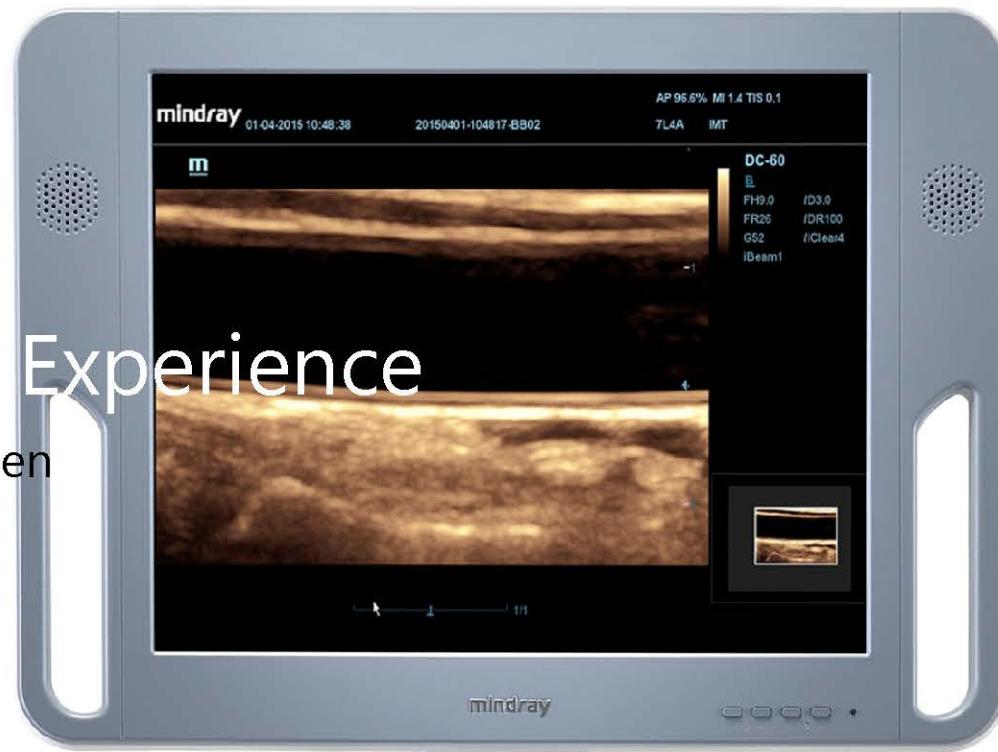
Smart NT



Automatically trace the NT tube cavity edge and display max NT result by industry standard method of "In to In".

Comfortable User Experience

- Gesture sensitive touch screen
- Streamlined workflow
- Powerful data management
- Smart design



Gesture sensitive touch screen



Gesture sensitive touch screen

Amazing gesture operation:

Image adjustment

- Slide parameter page up/down
- Shift image to touch screen
- Zoom in/out
- 3D/4D rotate&erase
- ...

Measure on screen

- 2D Caliper & trace
- Manual spectrum trace
- Auto LV, IMT, Smart NT
- ...

Image review

- Image review
- Cine review frame by frame
- ...

User defined gestures:

- Initiate imaging mode(Color,PW,3D/4D...)
- Change probe,
- Freeze, measure, save, print
- iZoom, iTouch ...



Streamlined workflow



- iZoom
- iTouch
- iScanHelper
- iWorks
- Raw data
- Auto measurement

iScanHelper



Dedicated inbuilt educational tool, providing users with guidance on 'how & what' of ultrasound scanning.

- iScanHelper includes anatomical illustrations, standard ultrasound images, scanning reference pictures and tips on scanning skillfully.

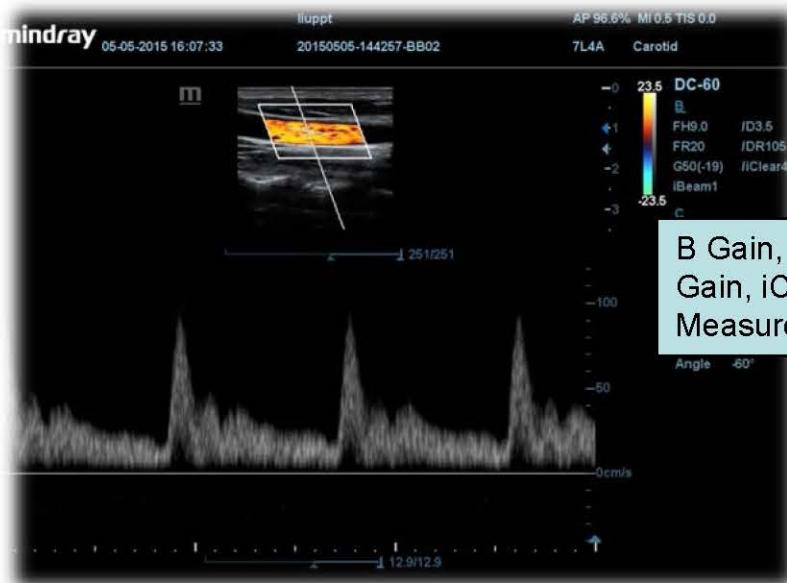
iWorks



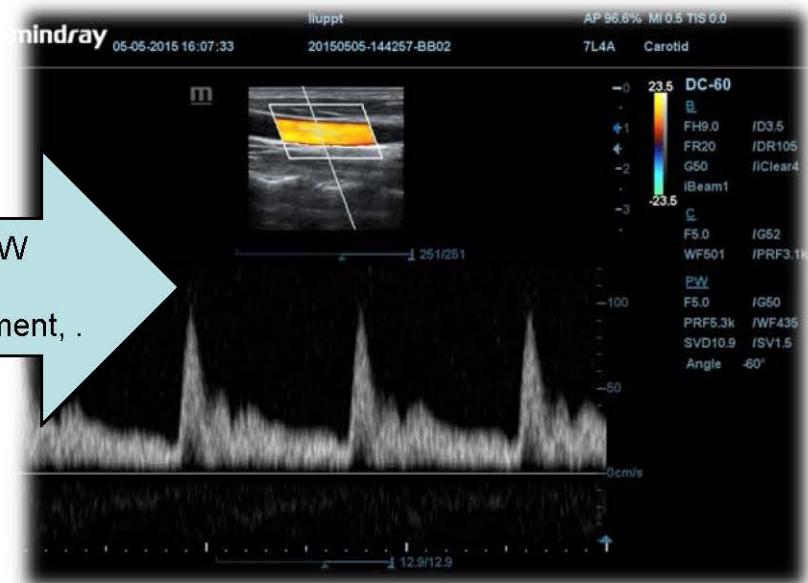
Standardize and simplify the workflow, let you be more focused on the patient and diagnosis

- 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

Raw data

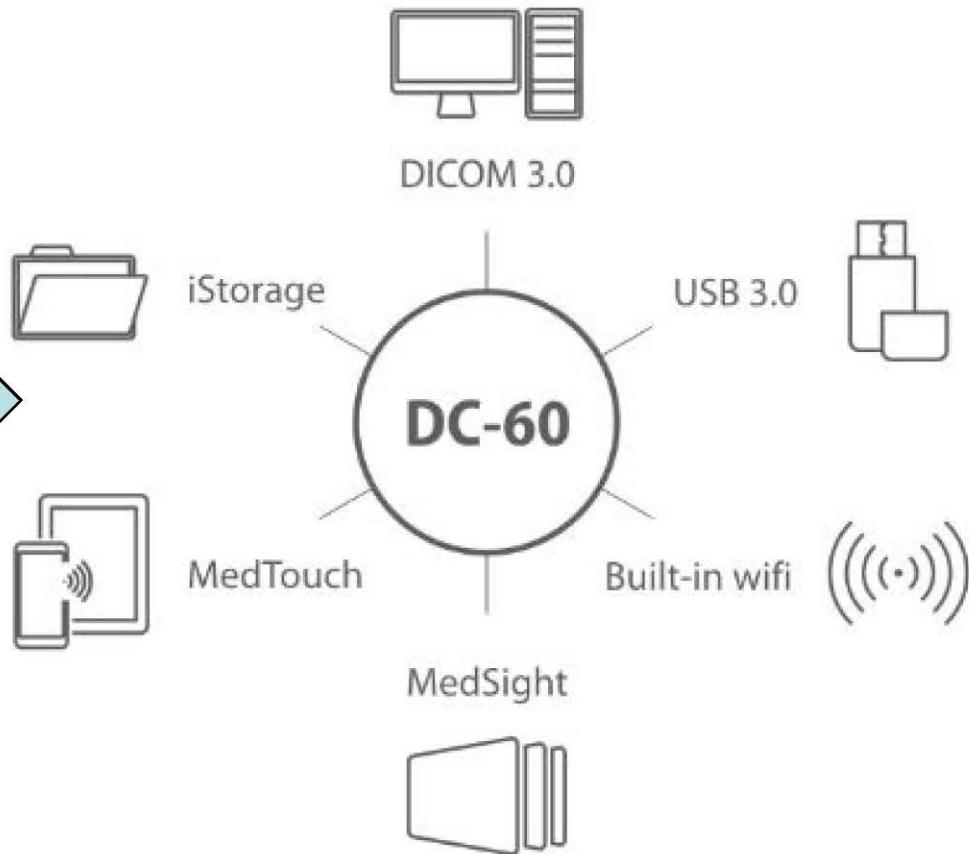


B Gain, Color Gain, PW
Gain, iClear, Angle...
Measurements, Comment, .



- Available for many parameters adjustment, adding comment and measurements to stored image
- Achieve maximum productivity during scanning

Powerful Data management



iStorage



iStorage data transfer



- Directly transfers images and reports to PC via wired or wireless network

MedSight



Interactive App that could transfer clinical images/cines and reports from ultrasound to your smart devices via WiFi

- Support both iOS and Android powered devices
- DICOM is not necessary for Android devices
- DC-60 could provide WiFi freely with built-in wireless adapter as the hotspot

MedTouch



An powerful Android App for doctors:

- Remote control ultrasound machine: Gain, Depth, iZoom, iTouch, Freeze, Save...
- Remote patient data management: review, query, retrieve
- Built-in iScanHelper
- DC-60 could provide WiFi freely with built-in wireless adapter as the hotspot

Smart Design

Standard 17" LED high resolution monitor



Standard 17"



Optional 19"

- **Flexible control panel**
- ✓ **Height adjustable**
- ✓ **Rotatable**
- ✓ **Backlight design**



Smart Design

- Slim design with battery
- 4 active transducer sockets
- Gel warmer
- Easy & fast USB 3.0
- Detachable probe holders
- Dedicated TV probe holder(left/right)
- Retractable key board
- Cable hook



Summary

- Advanced technology inherited from high-end to ensure quality exams
 - ✓ PSH, HR Flow, Echo Boost
 - ✓ Wide range probes to support shared service capabilities
- Full function, high parameters
 - ✓ ExFOV, iScape, iNeedle, Auto IMT
 - ✓ CW, TDI & TDI QA, Strain/Strain Rate
 - ✓ Real-time 4D, iPage, Smart OB/NT
- Smart design with touch screen gesture
 - ✓ Gesture Sensitive Touch Screen, 10.4" angle adjustable
 - ✓ 17" LED, 4 active probe sockets, Gel warmer, TV probe holder
- Most of efficient, easy to use



**Quality Exams at
Your Fingertips**



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