DC-40

Scanning with Exceptional Capability

DC-40

- Enhanced confidence
- Exceptional capability
- Increased efficiency
- Ergonomic design

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Enhanced confidence

Image optimization technology

- PSH
- iBeam
- iClear

Wide range transducers offer the best balanced performance

- Up to 15
- High density
- High frequency
- Bi-plane…

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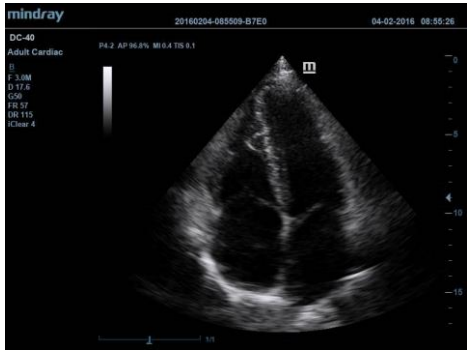
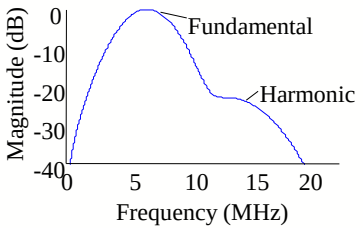
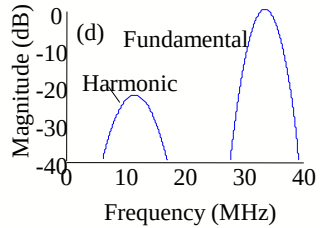
Phase Shift Harmonic Imaging(PSH)

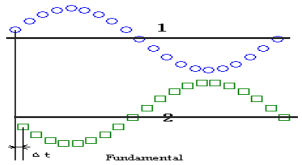


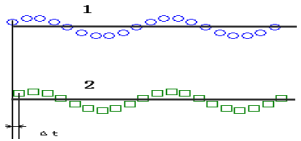
PSH off

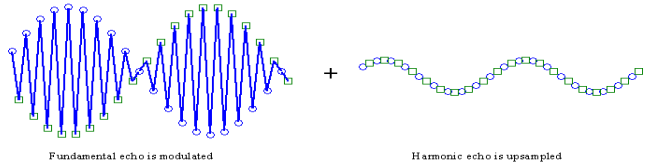
PSH on











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

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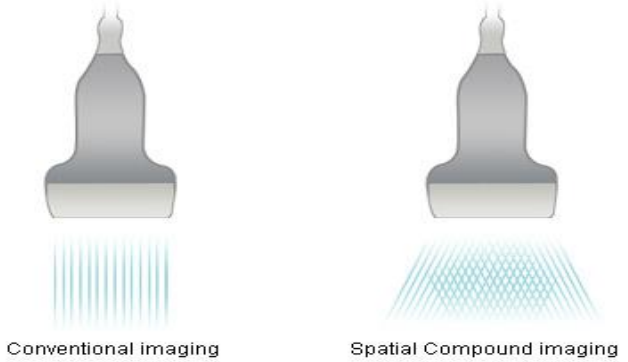
iBeam

iBeam on



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

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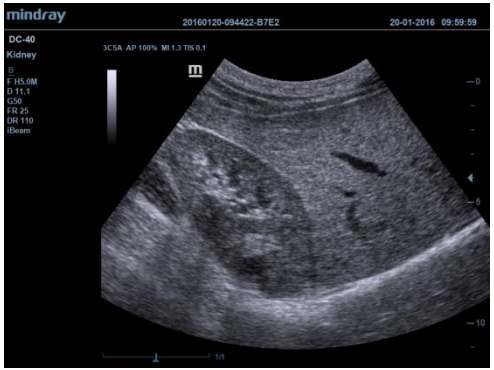
iClear



iClear off

iClear on

- 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

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Wide range transducers

- Total 15 transducers
- 192 elements high density linear probe
- 1.3-16 MHz wideband frequency

Convex	Linear	Endo-cavity	Volume	Sector	Pedoff
3C5A 6C2	7L4A L12-3E L14-6NE L14-6 L7-3 7L5	V11-3 V10-4B CB10-4E	D7-2E	P4-2 P7-3	CW5s

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DC-40

- Enhanced confidence
- Exceptional capability
- Increased efficiency
- Ergonomic design

Exceptional capability

General imaging

Natural Touch Elastography: higher stiffness sensitivity; Good stability and reproducibility

UWN Contrast Imaging: for better visualization of tiny vessel perfusion

iScape: show whole anatomical structures

Auto IMT: for cardiovascular risk assessment

Smart Bladder: auto measurement of bladder volume

OB/GYN

3D/4D: rich rendering modes

iLive: revolutionary technology for amazing realistic view of fetus

iPage: display volume data with multiple parallel 2D images

Smart OB: auto measure of most frequently used items

Smart NT: auto measure of NT

IVF package

Cardiology

TDI & TDI QA: for myocardial movement and synchronization evaluation

Free Xros M: provide more anatomical precise observation

Free Xros CM: evaluate myocardial motion, determine myocardial synchronization

Auto LV: simple measurement procedure for left ventricle

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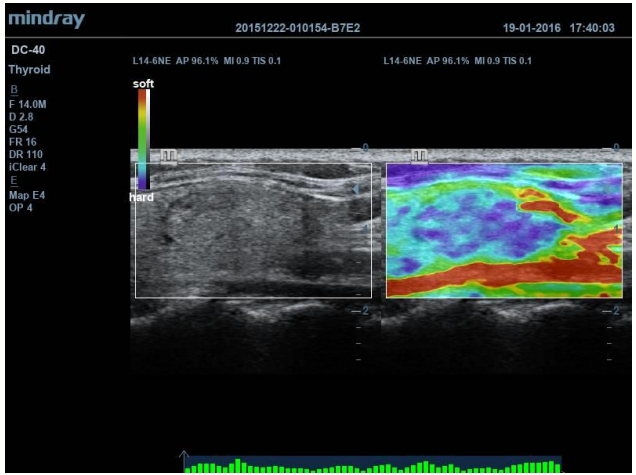
Natural Touch Elastography



Elastography of Thyroid

Use different color to code different strain values, displaying the tissue stiffness for tumor evaluation

- Stress bar indicators make you scan much easier
- Support B+E dual display mode
- Excellent reproducibility with consistence
- Stiffness sensitive, and less user dependent

**Available on Thyroid, Breast and MSK modes of 7L4A, L12-3E and L14-6NE*

*** The Elastography feature is designed for Imaging, will not support quantitative analysis*

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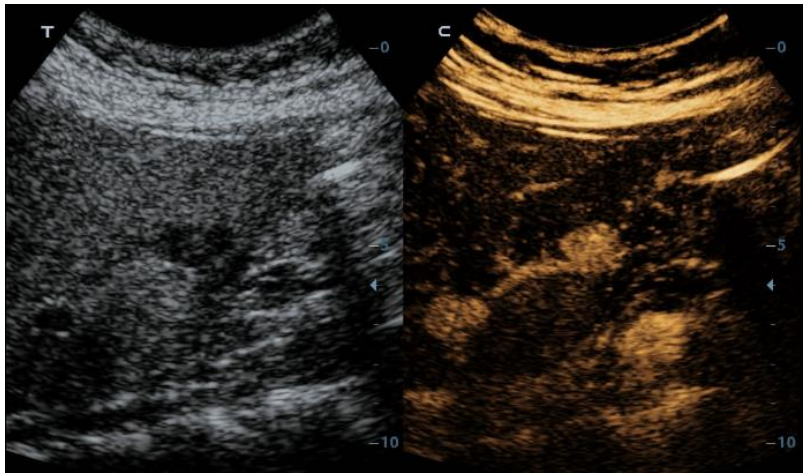
UWN (Ultra-Wideband Non-linear) Contrast Imaging



Liver Tumor

Clinical Benefits:

- 2nd harmonic and non-linear fundamental signal
- Excellent contrast agent sensitivity
- lower MI setting
- Longer CEUS perfusion time

**Available on Adult ABD mode of 3C5A*

*** The UWN Contrast Imaging feature is designed for Imaging, will not support quantitative analysis*

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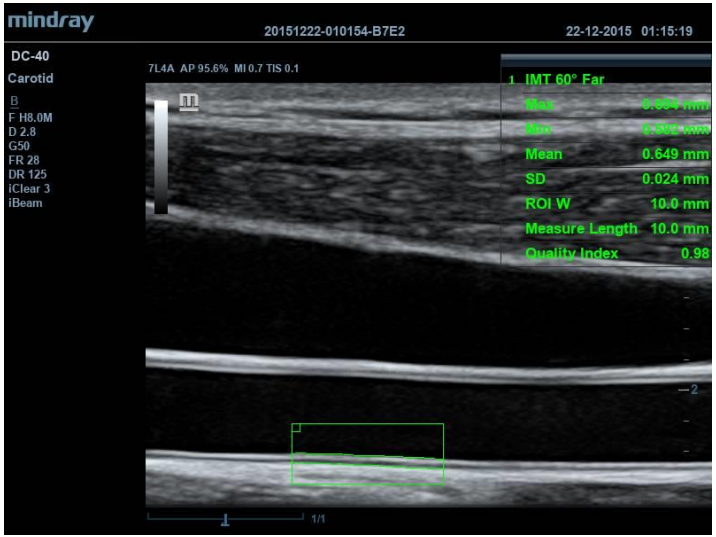
Auto IMT



- Automatically detect and calculate IMT for cardiovascular risk assessment
- Highly accurate measurements are reliable and reproducible

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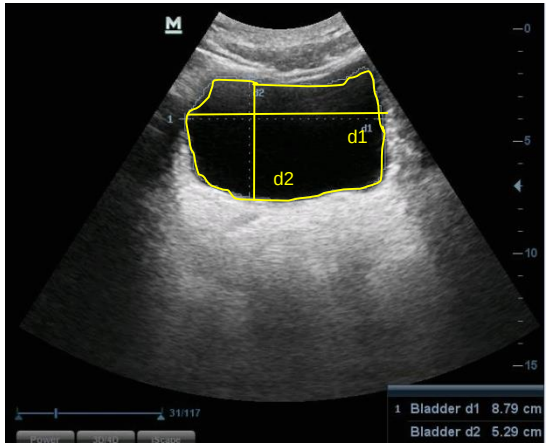
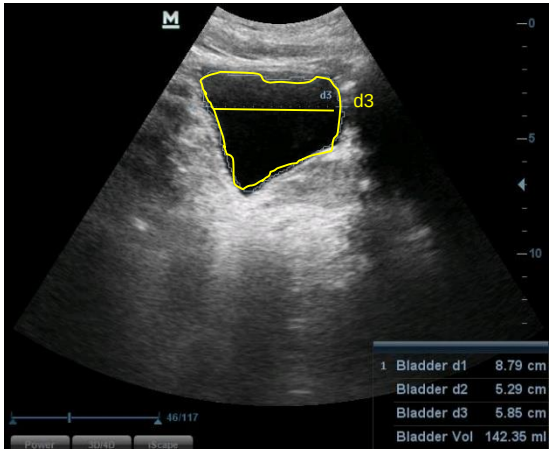
Smart Bladder



Transverse section



Vertical section

- Auto trace the border of bladder, detect three diameters of bladder, and calculate the bladder volume
- Operation tips:

✓ Scanning sequence: transverse section then vertical section
✓ Keep bladder at the center of image area
✓ Make sure of the clear border of bladder

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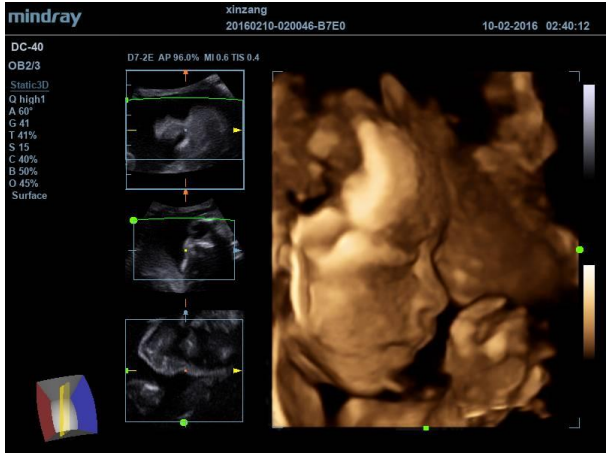
Powerful 3D/4D



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

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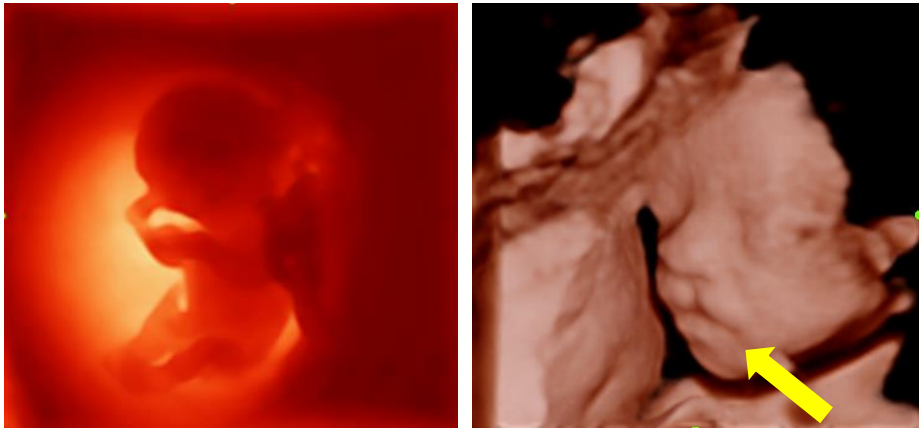
iLive



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

- New virtual light source integrated
- Light source adjustment

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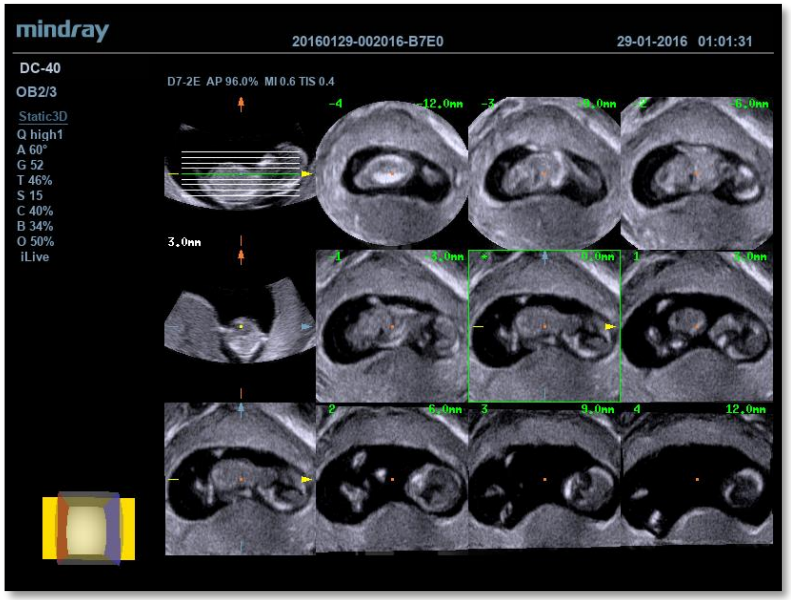
iPage



- 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

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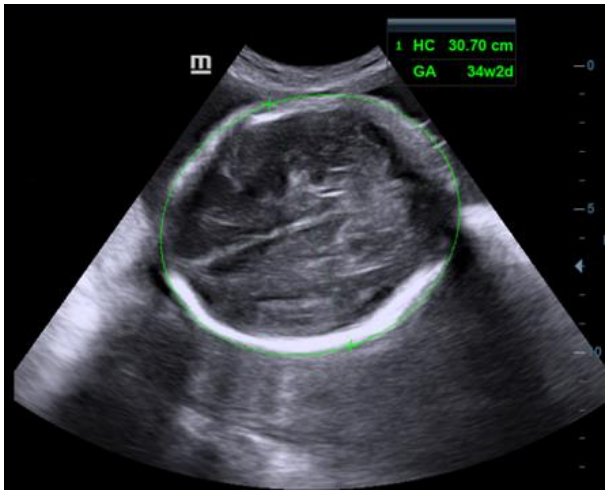
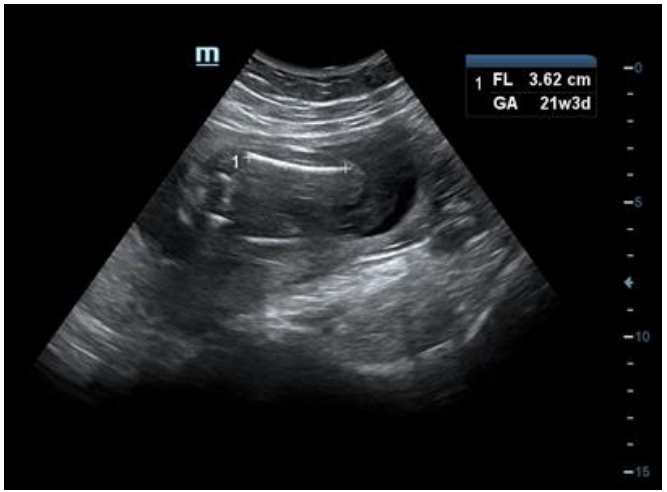
Smart OB



Smart OB - HC



Smart OB - FL

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

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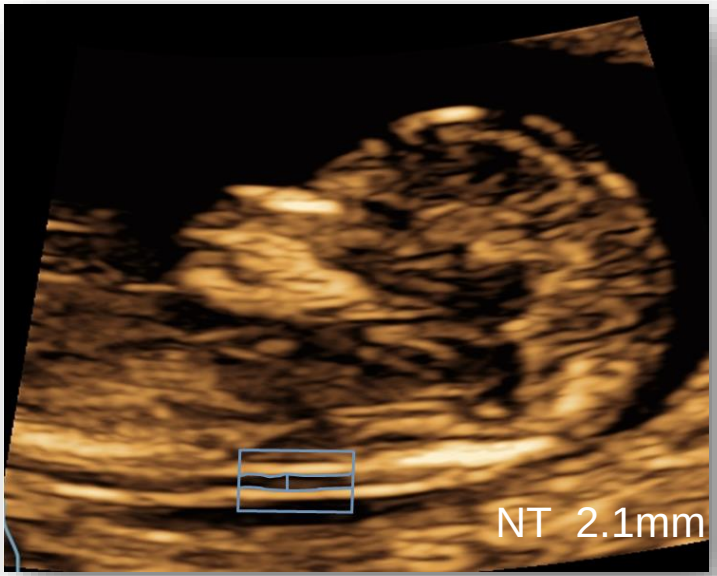
Smart NT



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

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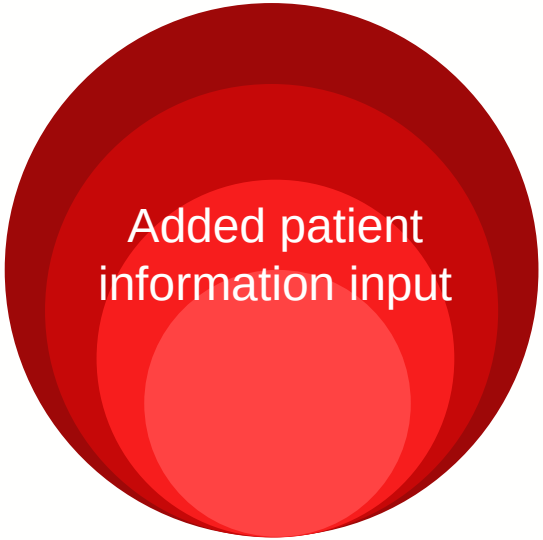
Dedicated package for IVF application

- IVF patient information (injection time and hormonal level)



Injection time(date)

•CC（clomiphene citrate ）
•HMG（human menopausal gonadotropin）
•HCG（human chorionic gonadotropin）

Hormonal level

•FSH（follicle-stimulating hormone）(mIU/L)
•LH（luteinizing hormone）(mIU/L)
•E2(pg/ml)
•PRL(ng/ml)
•P(ng/ml)
•T(ng/ml)

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Dedicated package for IVF application

Specialized IVF program solution :

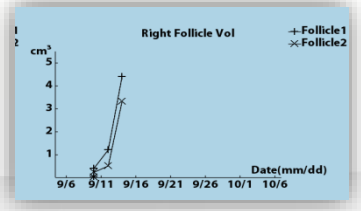
- Intuitive documentation for follicles and endometrial measurements
- Dedicated reporting structure to help assess and monitor follicles development and growth
- Improve patient management and patient care

Measure

- Uterus(L/W/H/V)
- Artery (Uterine /Ovary)
- Endometrium Thickness
- Uterine Cervix
- Ovary (L/W/H/V)
- Follicle (d1/d2/d3/MD/V)
- Follicles Growth Graph

Growth curve

- Uterine/Endometrium
- Follicle



Body Mark Comment

- Specialize comment and body mark for IVF

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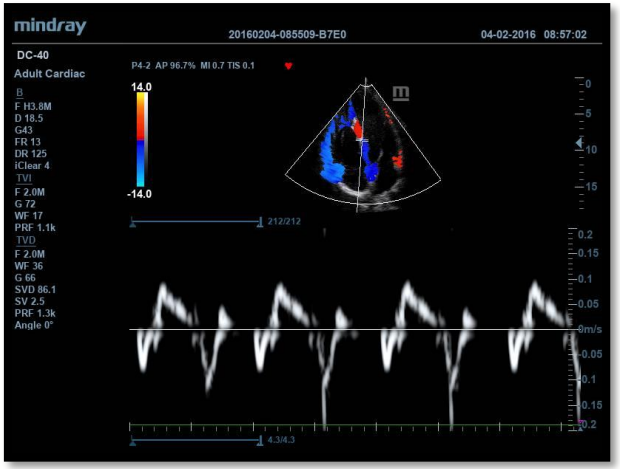
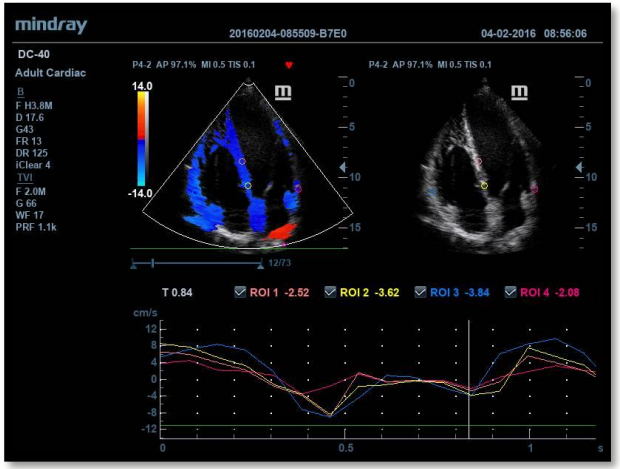
TDI & TDI QA



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

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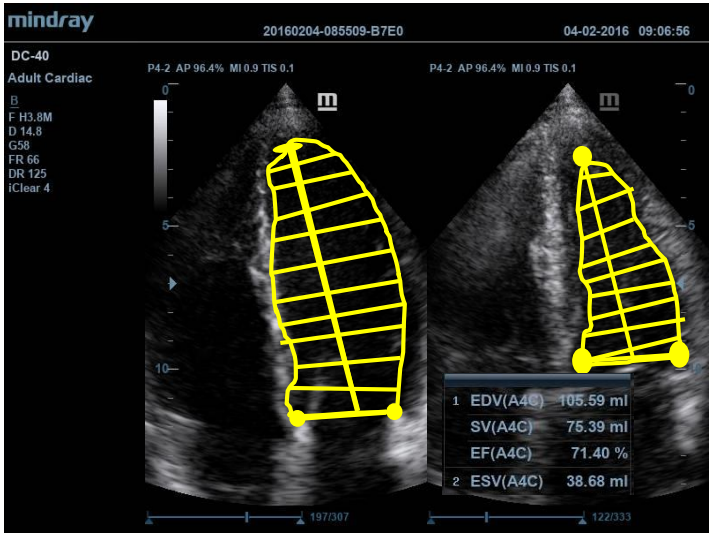
Auto LV



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

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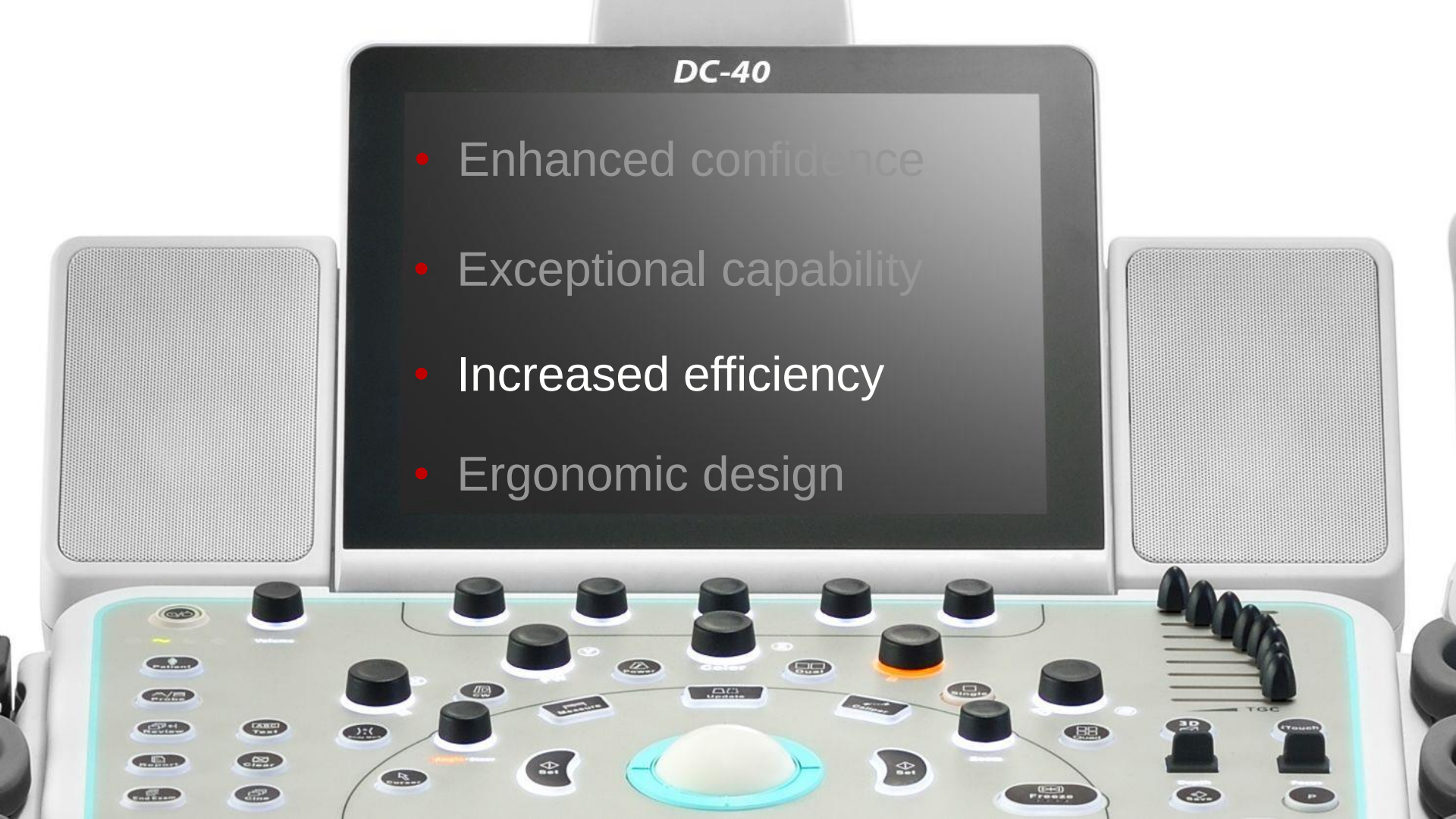
DC-40
Enhanced confidence
Exceptional capability
Increased efficiency
Ergonomic design

Increased efficiency

- iZoom
- iTouch
- iScanHelper
- Raw data
- iStorage
- Medsight
- Auto measurement

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iScanHelper

- Anatomical diagram illustrations including schematic and ultrasound pictures
- Standard ultrasonogram comparison with real-time scanning
- Scanning reference picture demonstrating appropriate patient position and probe placement
- Tips on scanning skills and diagnostic information

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.

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iStorage

- Directly transfers images and reports to PC via wired or wireless network
- DICOM is not necessary for iStorage

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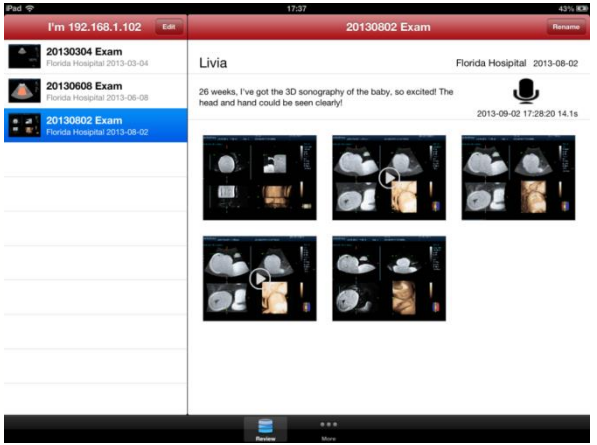
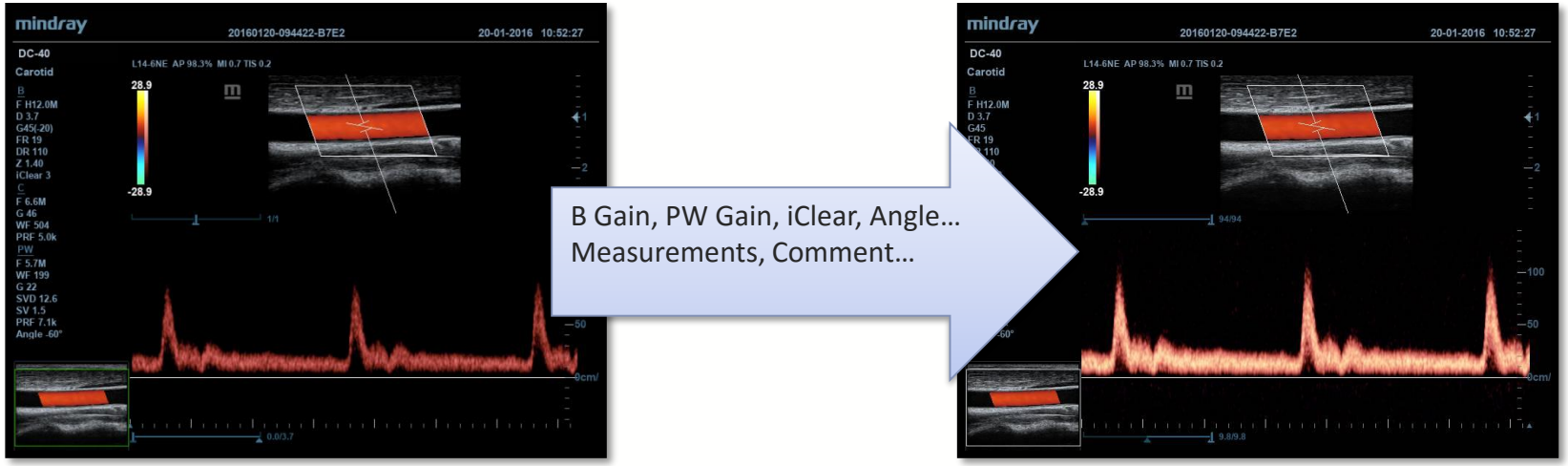
MedSight



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

- Specially designed for patients to do image transmission: for example, mom could then easily share the lovely unborn baby with her family or friends
- Support both IOS and Android powered devices
- DICOM is not necessary for Android devices

Raw data



- Stored image and cine is capable to be re-processed: optimize, measure, adding comments….
- Achieve maximum productivity during scanning

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DC-40

- Enhanced confidence
- Exceptional capability
- Increased efficiency
- Ergonomic design

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Standard 15” LED high resolution monitor

- Optional 17 ”monitor
- 180° rotational angle

10.4” LED touch screen

- Angle adjustable

Flexible control panel

- Height adjustable
- Rotatable

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- **1TB hard disk**
- **Built-in battery for real-time scanning**
- DVD-RW drive
- Retractable QWERTY keyboard
- Gel warmer
- Dedicated endocavity transducer holder
- Cable management design
- Table for placing peripherals
- 4 active transducer sockets

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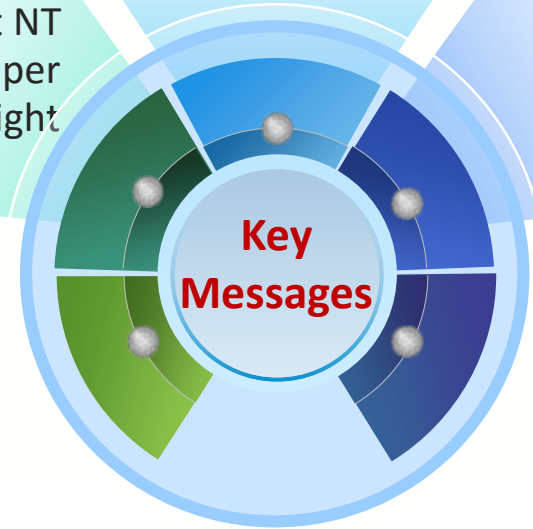
Full functionality

- GI: Elastography, Contrast
- OB: 3D/4D, iPage, iLive
- CV: Free Xros M/CM, TDI, TDI QA

Simplified workflow

- Auto measurement: Smart OB, Smart NT
- Tutorial function: iScanHelper
- APP: Medsight



Gorgeous design

- 1TB hard disk
- Standard 15’’, optional 17’’ screen
- 10.4’’ touch screen
- 4 active transducer connectors
- Built-in battery

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