

DC-40

*Scanning with
Exceptional Capability*



DC-40

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



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...

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

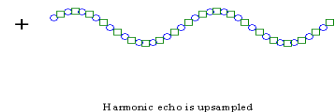
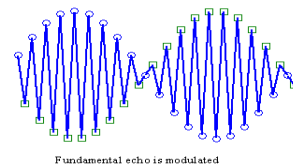
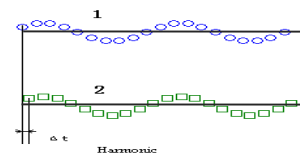
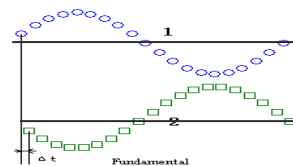
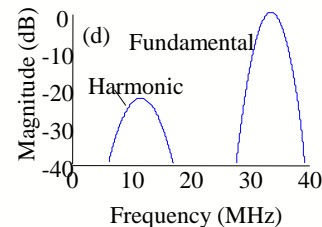
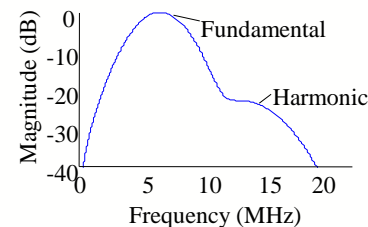
Phase Shift Harmonic Imaging(PSH)



PSH off



PSH on



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

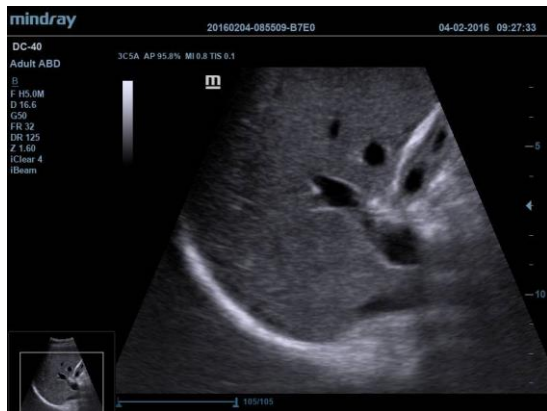
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

iBeam



iBeam on



Conventional imaging



Spatial Compound imaging

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

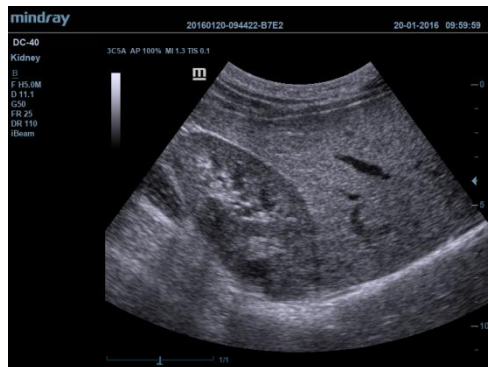
Enhanced
confidence

Exceptional
capability

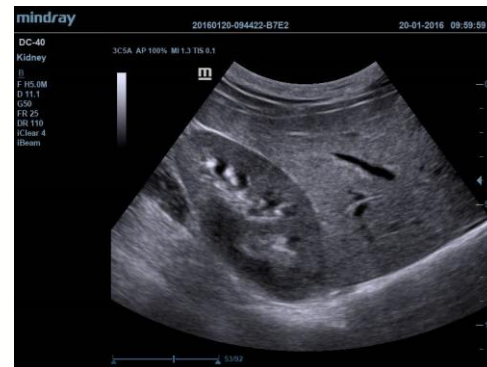
Increased
efficiency

Ergonomic
design

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

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

Wide range transducers

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



Convex

3C5A
6C2

Linear

7L4A
L12-3E
L14-6NE
L14-6
L7-3
7L5

Endo-
cavity

V11-3
V10-4B
CB10-4E

Volume

D7-2E

Sector

P4-2
P7-3

Pedoff

CW5s



DC-40

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

Exceptional capability

OB/GYN →

← 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



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

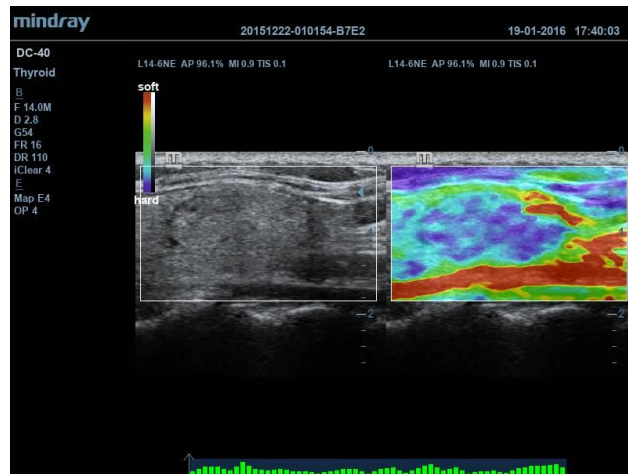
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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*

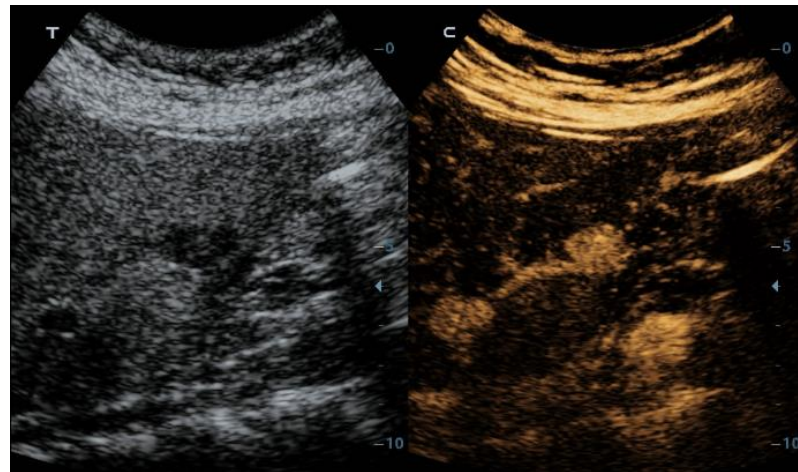
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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*

© 2016 Mindray Confidential ** *The UWN Contrast Imaging feature is designed for Imaging, will not support quantitative analysis*

mindray

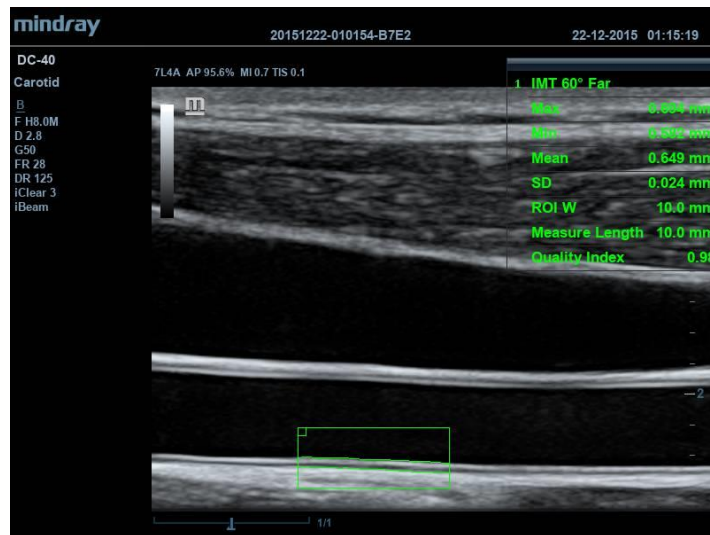
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

Auto IMT



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

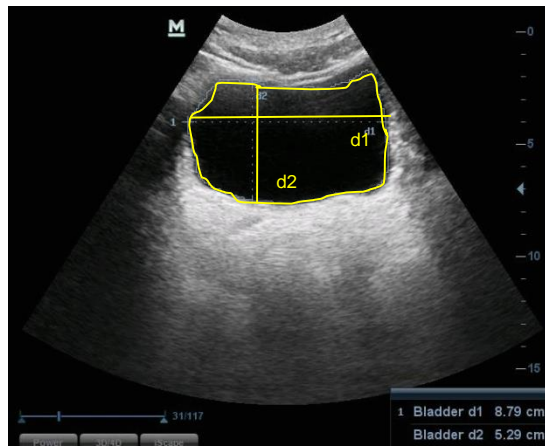
Enhanced
confidence

Exceptional
capability

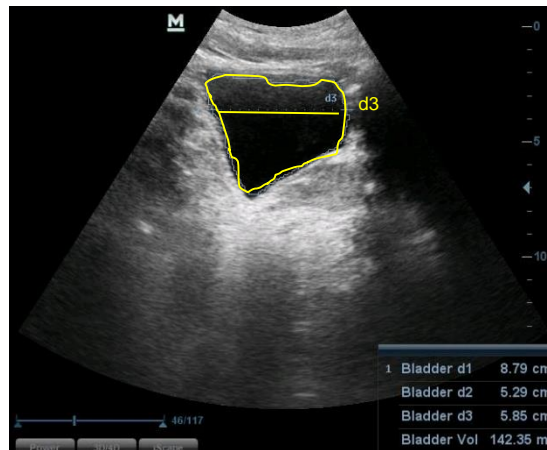
Increased
efficiency

Ergonomic
design

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

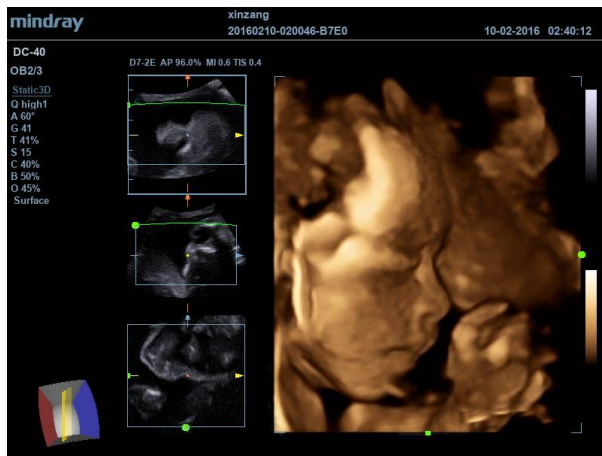
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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

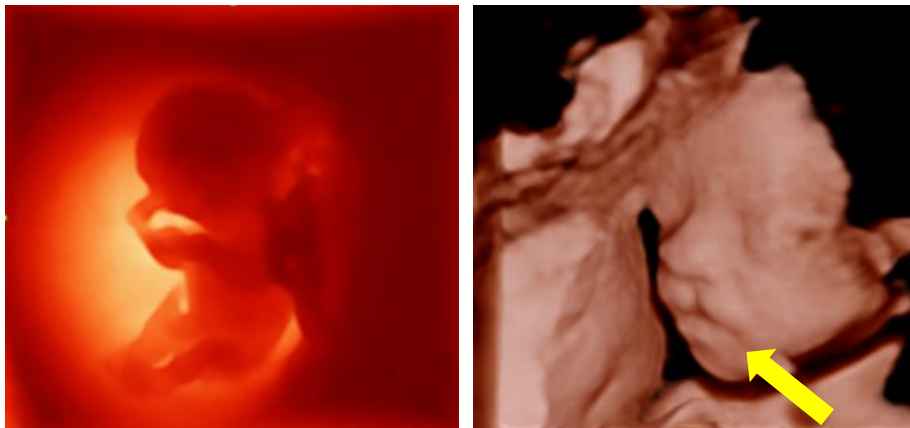
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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

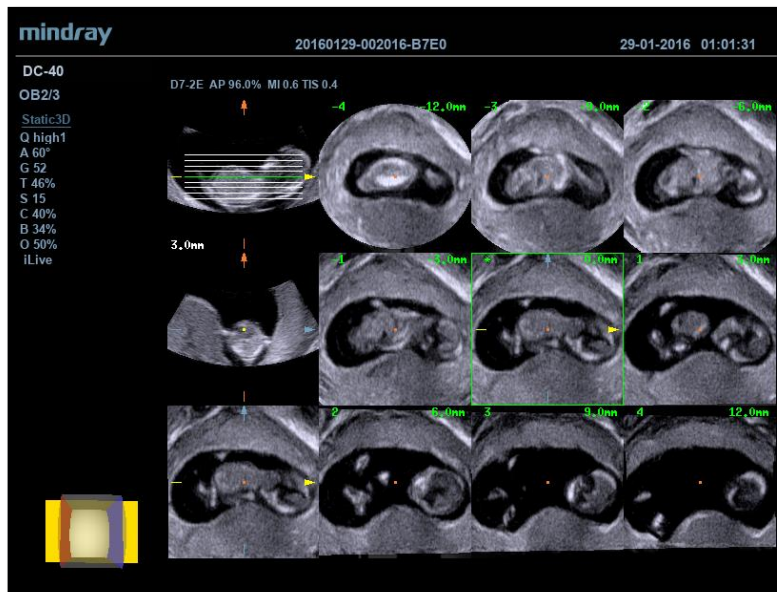
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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

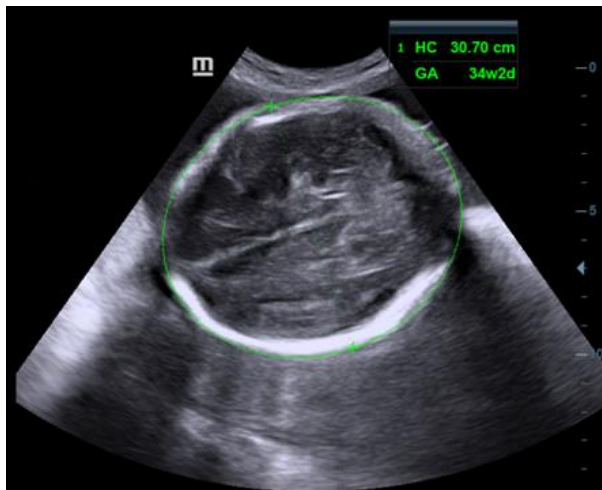
Enhanced
confidence

Exceptional
capability

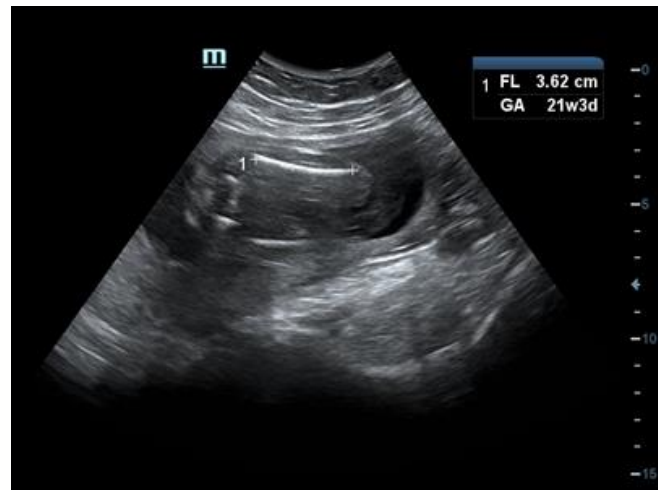
Increased
efficiency

Ergonomic
design

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

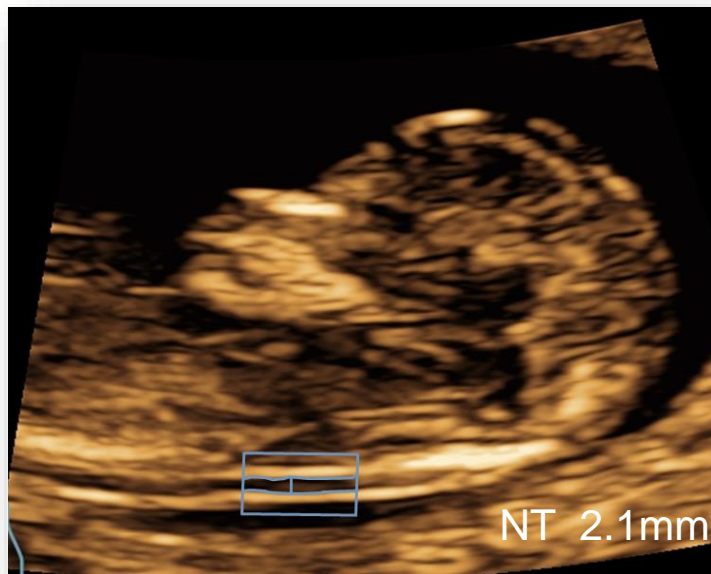
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

Smart NT



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

Enhanced
confidence

Exceptional
capability

Increased
efficiency

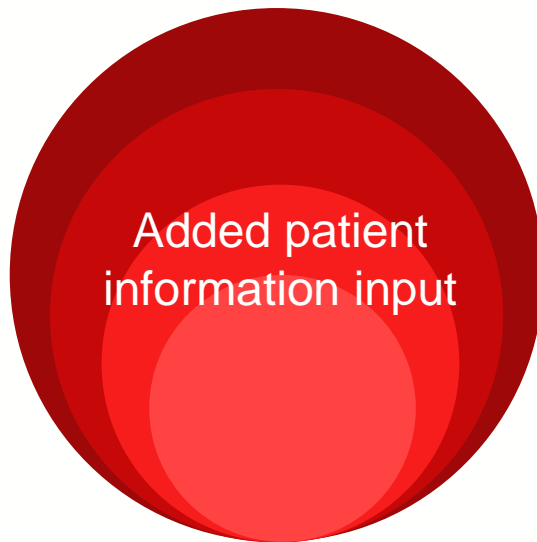
Ergonomic
design

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)

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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



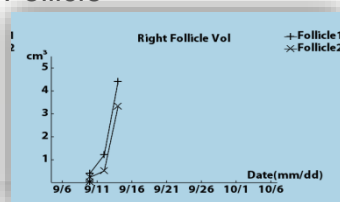
Measure

- 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

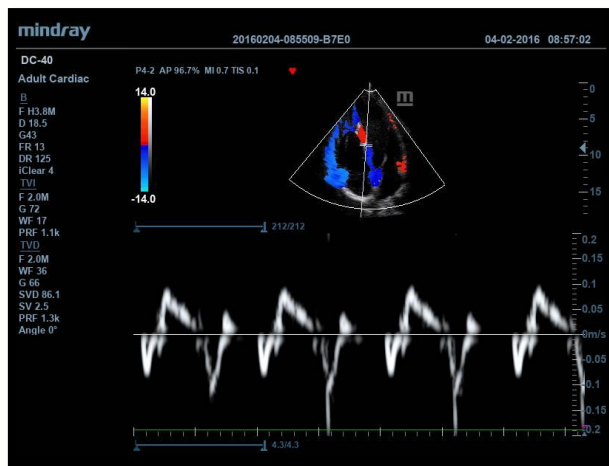
Enhanced
confidence

Exceptional
capability

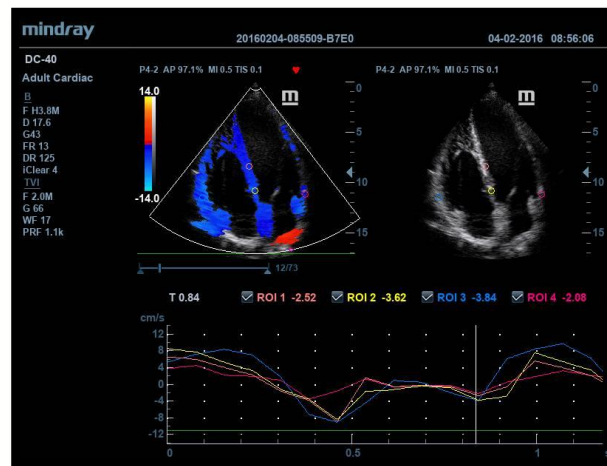
Increased
efficiency

Ergonomic
design

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

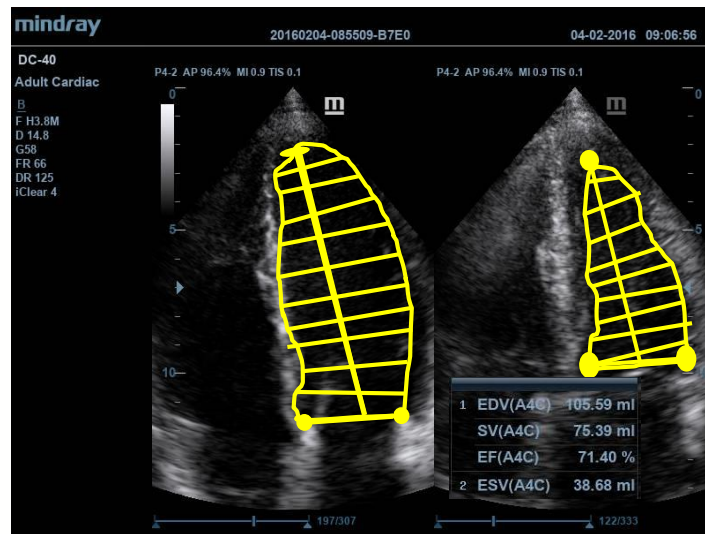
Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

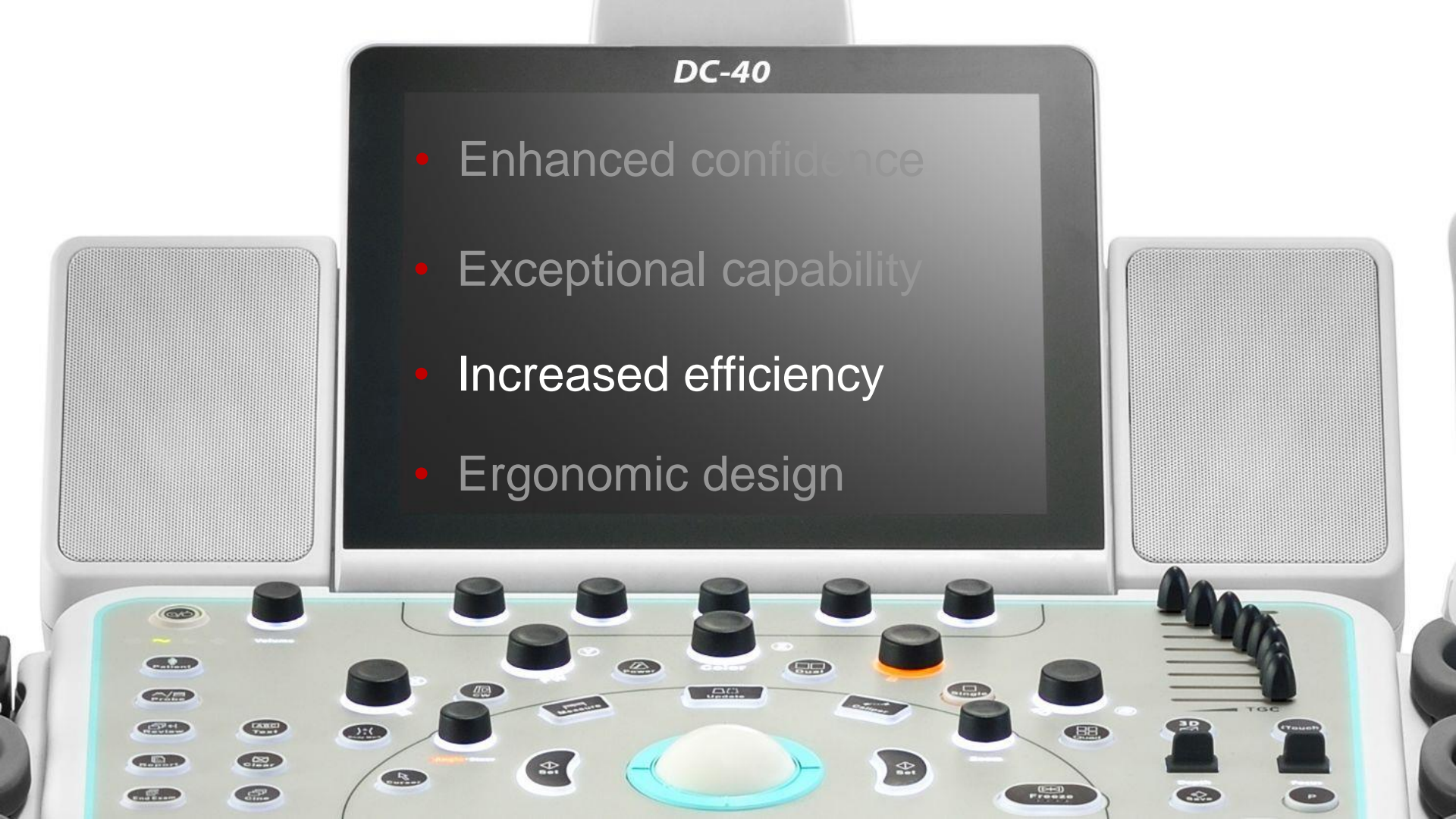
Auto LV



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

DC-40

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



Increased efficiency



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

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

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.

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

iStorage



iStorage data transfer



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

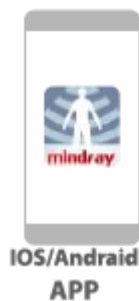
Enhanced
confidence

Exceptional
capability

Increased
efficiency

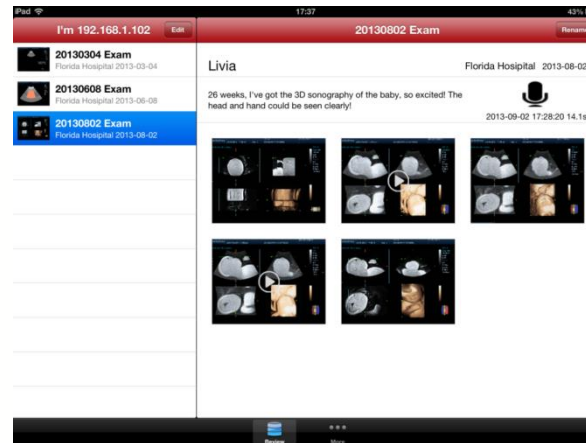
Ergonomic
design

MedSight



WiFi

Image/Cine



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

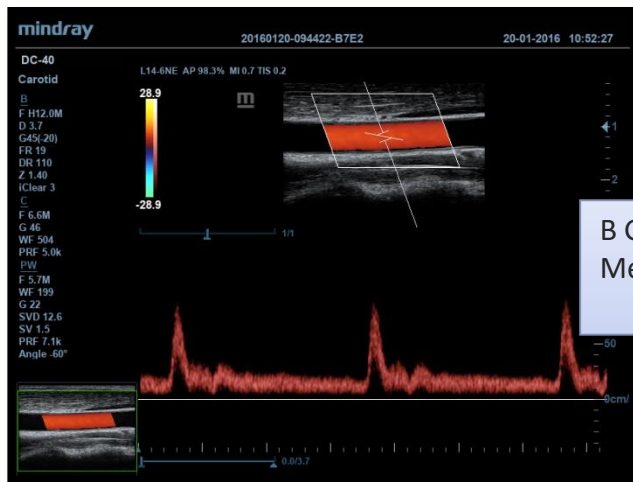
Enhanced
confidence

Exceptional
capability

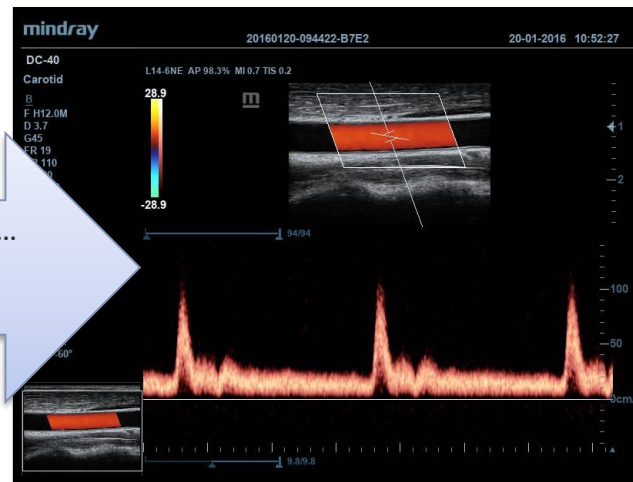
Increased
efficiency

Ergonomic
design

Raw data



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



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



DC-40

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

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design



- 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

Enhanced
confidence

Exceptional
capability

Increased
efficiency

Ergonomic
design

- **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



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

