



DC-70

Product Introduction



Tiara Medical
медицинское оборудование

mindray
healthcare within reach

You need

a true workhorse

with friendly

budget!

What do you expect on the workhorse?

- Qualified for daily cases of wide applications
- High 2D resolution & penetration
- Sensitive color for tiny vessels
- Good Doppler for high speed cardiac flow
- Easy and nice fetal 4D
- Steady quality, less attenuation
- Intuitive interface and easy to use
- Ergonomic design with touch screen



What do you expect on the workhorse?

- **Quality Exams**

for routine practice and diagnostic confidence

- **Optimized User Experience**

for fatigue relief and scanning efficiency





DC-70

Quality Exams
at Your Fingertips

mindray
healthcare within reach

Advanced imaging technology



3T transducer technology

- Triple-matching layer
- Total-cut design
- Thermal-control design

Echo-enriched beamformer

- Uniform imaging beam
- Better out-of-focus resolution

Dedicated technology for each application

- iLive
- HR Flow
- Echo Boost



- Up to 256 elements(L14-6WE)
- Max 213 degree(V11-3WE)

Convex

C5-2E
C7-3E
C11-3E

Linear

L12-3E
L14-6NE
L14-6WE

**Endo-
cavity**

V11-3E
V11-3BE
V11-3WE

Volume

D6-2E
DE10-3E

Sector

P4-2E
P7-3E
P10-4E

Pedoff

CW5s

Others

CB10-4E
P7-3TE (TEE)

Wide Applications

OB

GYN

ABD

Small parts

Cardiac

Vascular

MSK

Urology

TCD

Neonatal

Vet

.....



Enhanced working capability

OB/GYN

Powerful 3D/4D

- **iLive:** revolutionary technology for amazing realistic view of fetus
- **iClear:** speckle reduction for better & smoother 3D/4D image
- **Volume data analysis:** for easier diagnosis, including iPage, Niche/3Slice, CMPR, SCV, Color 3D, STIC

Transducer

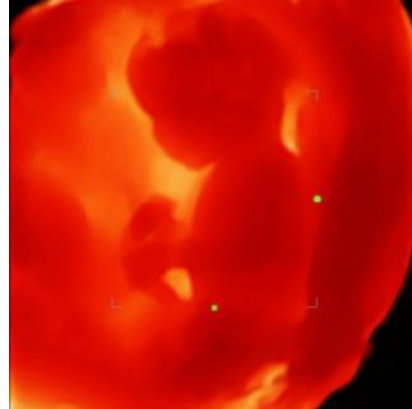
- **Full range:** 7 transducers
- **Free view:** adjust scanning plane of endocavity volume while transducer is fixed for better patient comfort

Auto measure

- **Smart OB:** auto measure of most frequently used items BPD/HC/FL/AC/OFD
- **Smart NT:** auto measure of NT
- **Smart-V:** auto measure of volume size based on 3D/4D volume data



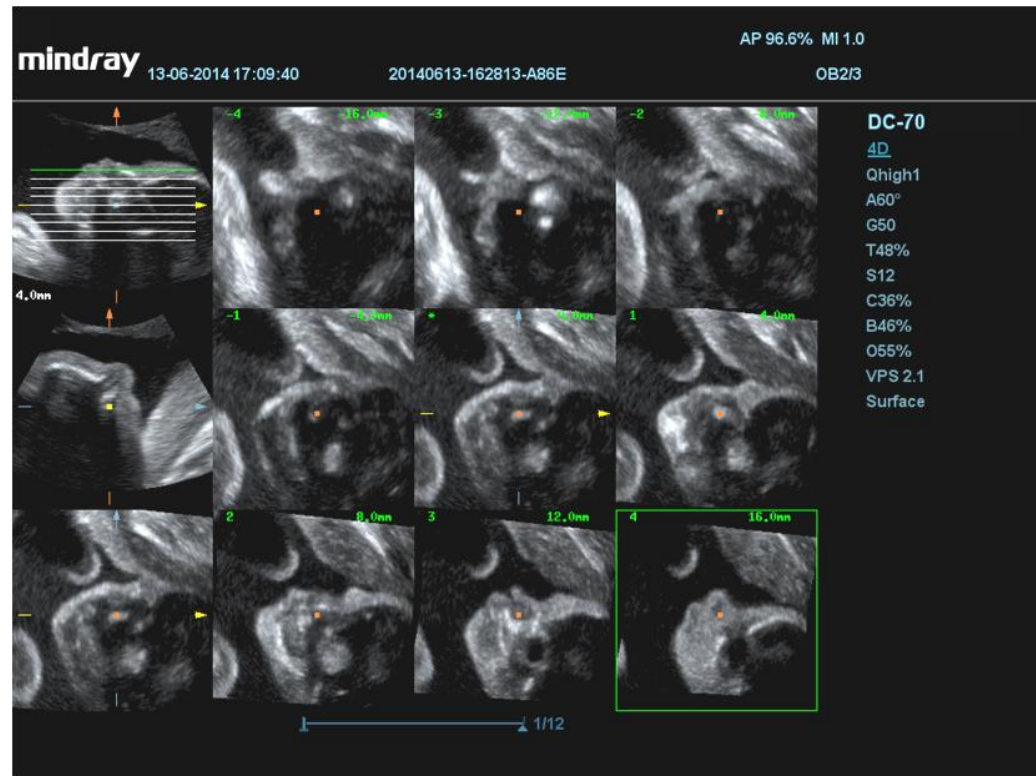
iLive



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

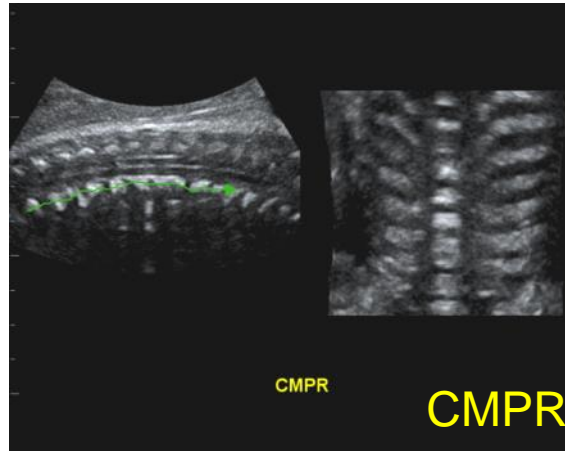
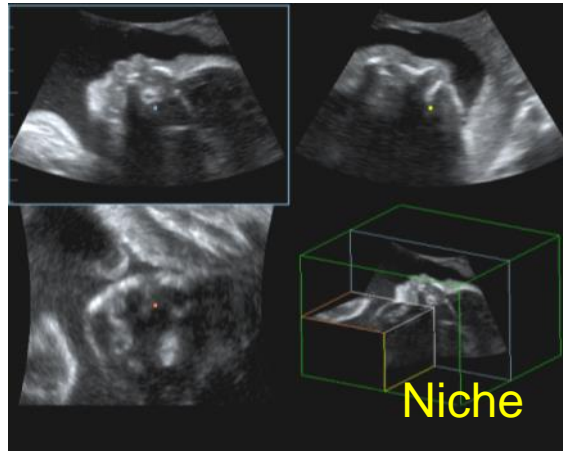
- New virtual and movable light source integrated
- Light source adjustment

iPage

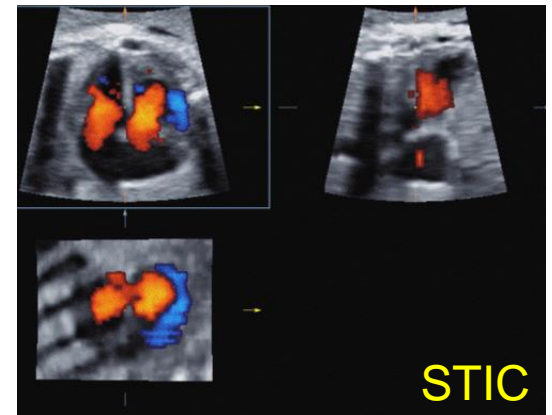
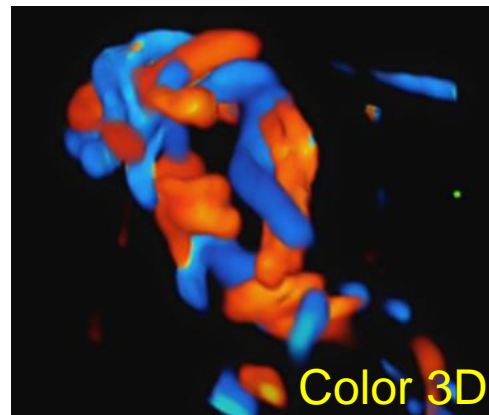
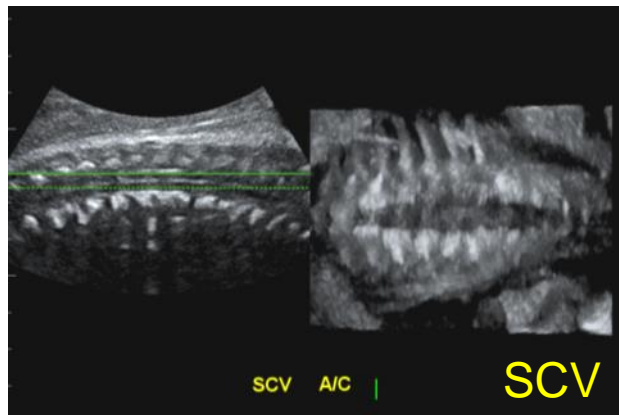


Display volume data with multiple parallel 2D images, which could easily interpret anatomical structures those are usually difficult to capture and make more confident diagnosis

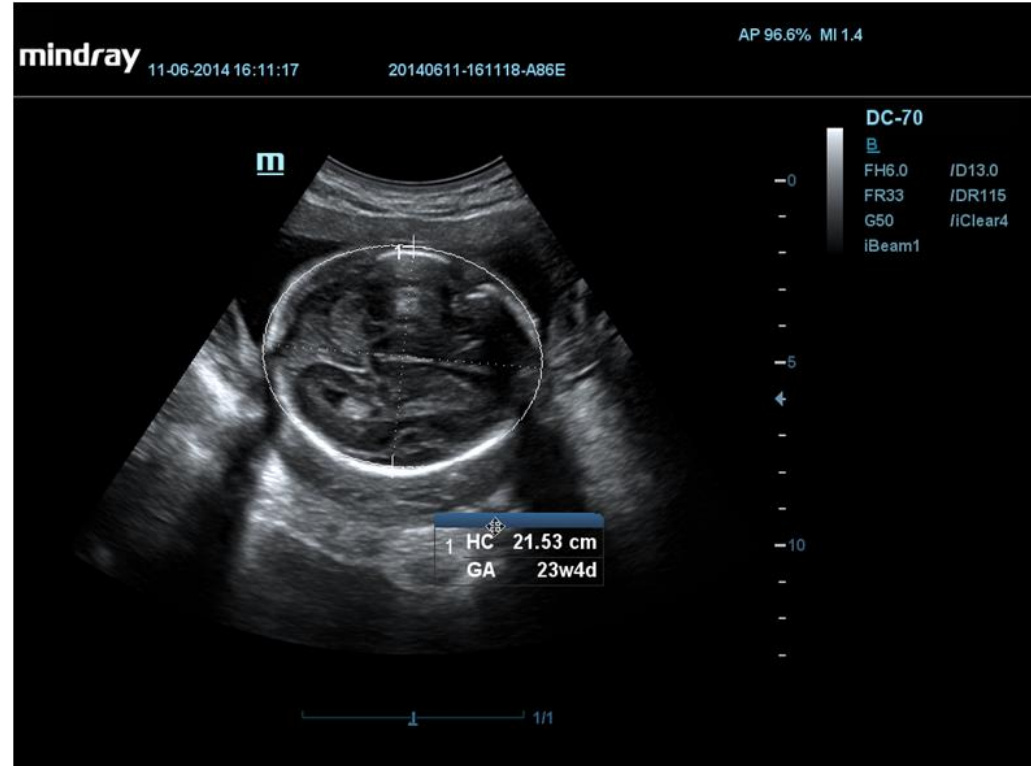
More volume data analysis



- Niche/3Slice
- CMPR
- SCV
- Color 3D
- STIC



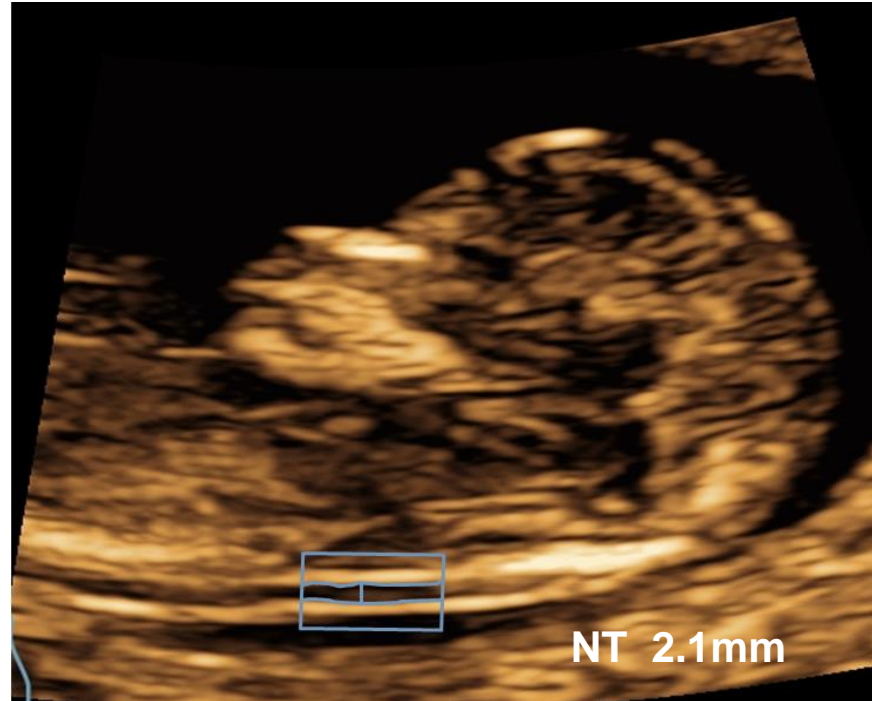
Smart OB



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".

Enhanced working capability

Radiology

Smart assistance

- Auto focus position with depth
- Intelligent PW/CW spectrum update
- Auto PW trace & calculation

Transducer

- Exclusive 3T technology
- 192 element convex
- 256 element high density linear

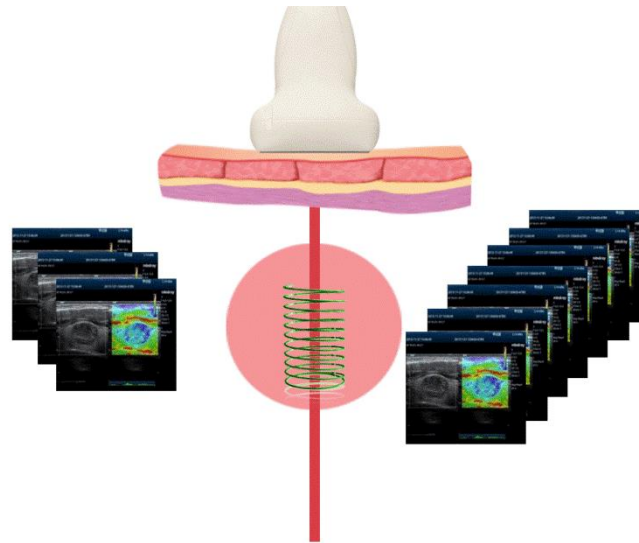
Enhanced confidence

- HR Flow**: for accurate profile and less overflow
- Natural Touch Elastography**: Higher stiffness sensitivity; Good stability and reproducibility
- UWN Contrast Imaging**: for higher sensitivity and longer perfusion time
- iNeedle**: Needle visualization enhancement

Natural Touch Elastography

Traditional

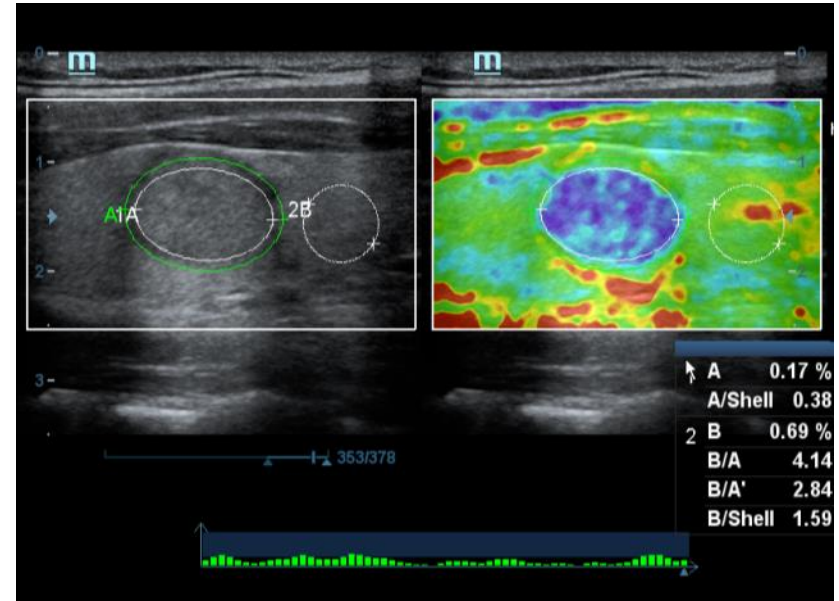
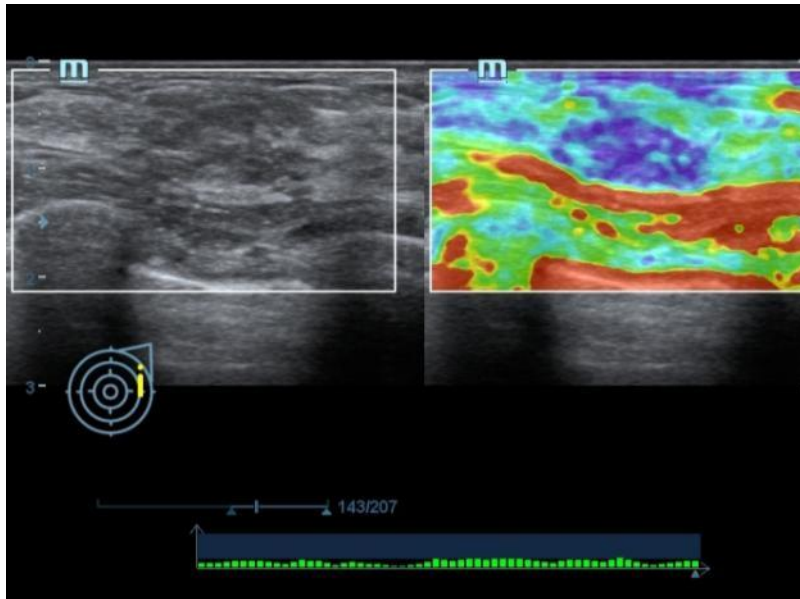
- Lower processing speed
- Stiffness Sensitivity: Normal, manual pressing
- User dependent



Natural Touch

- *Fast processing speed*
- *Stiffness Sensitive: High, sensitive to Breathing, Heart beating*
- *Less user dependent*

Natural Touch Elastography



Use different color to code different strain values, telling the tissue stiffness

- Unique Shell function to analyze infiltration status
- Multi-parameter quantification analysis

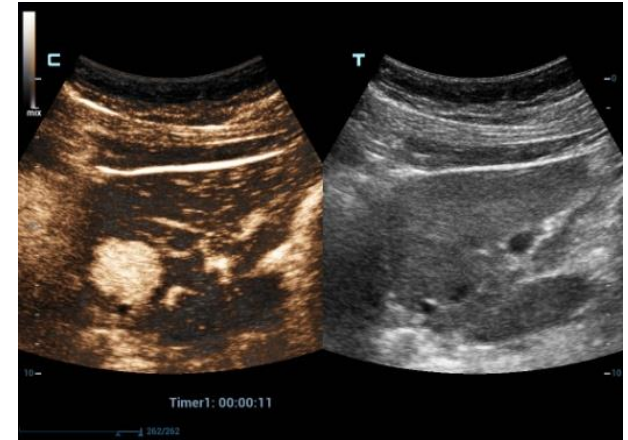
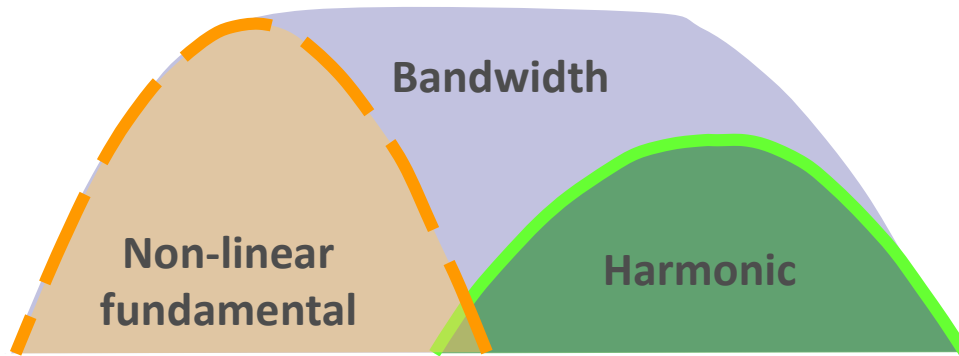
* Support L12-3E, L14-6NE, L14-6WE and V11-3E

2nd Generation HR Flow

Extraordinary spatial resolution for accurate vessel profile and less overflow



UWN Contrast Imaging(Ultra-Wideband Non-linear) and Quantitative Analysis



FHN (Focal Nodular Hyperplasia)

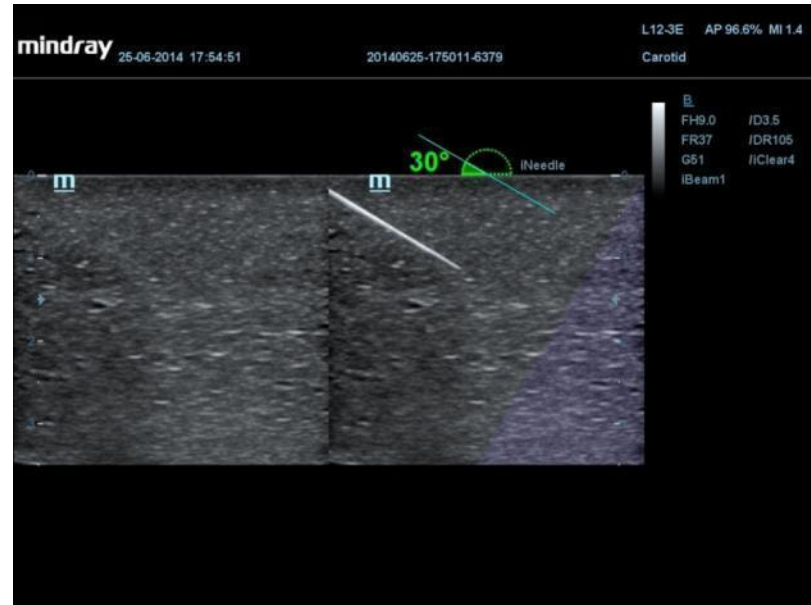
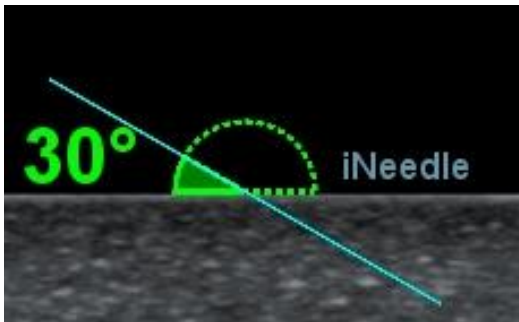
* Available on C5-2E transducer

UWN fully utilizes contrast agent characters with both 2nd harmonic and non-linear fundamental signal to provide following

• ~~improved SNR~~ **improved SNR**: for better diagnostic details

- Non-linear fundamental gives better penetration for difficult patient
- Using lower AP for longer contrast agent duration, better for delayed phase observation of lesion perfusion
- TIC (time intensity curve) : quantitative tool to measure contrast density over the time

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°)

Enhanced working capability

Cardiovascular

Auto measure

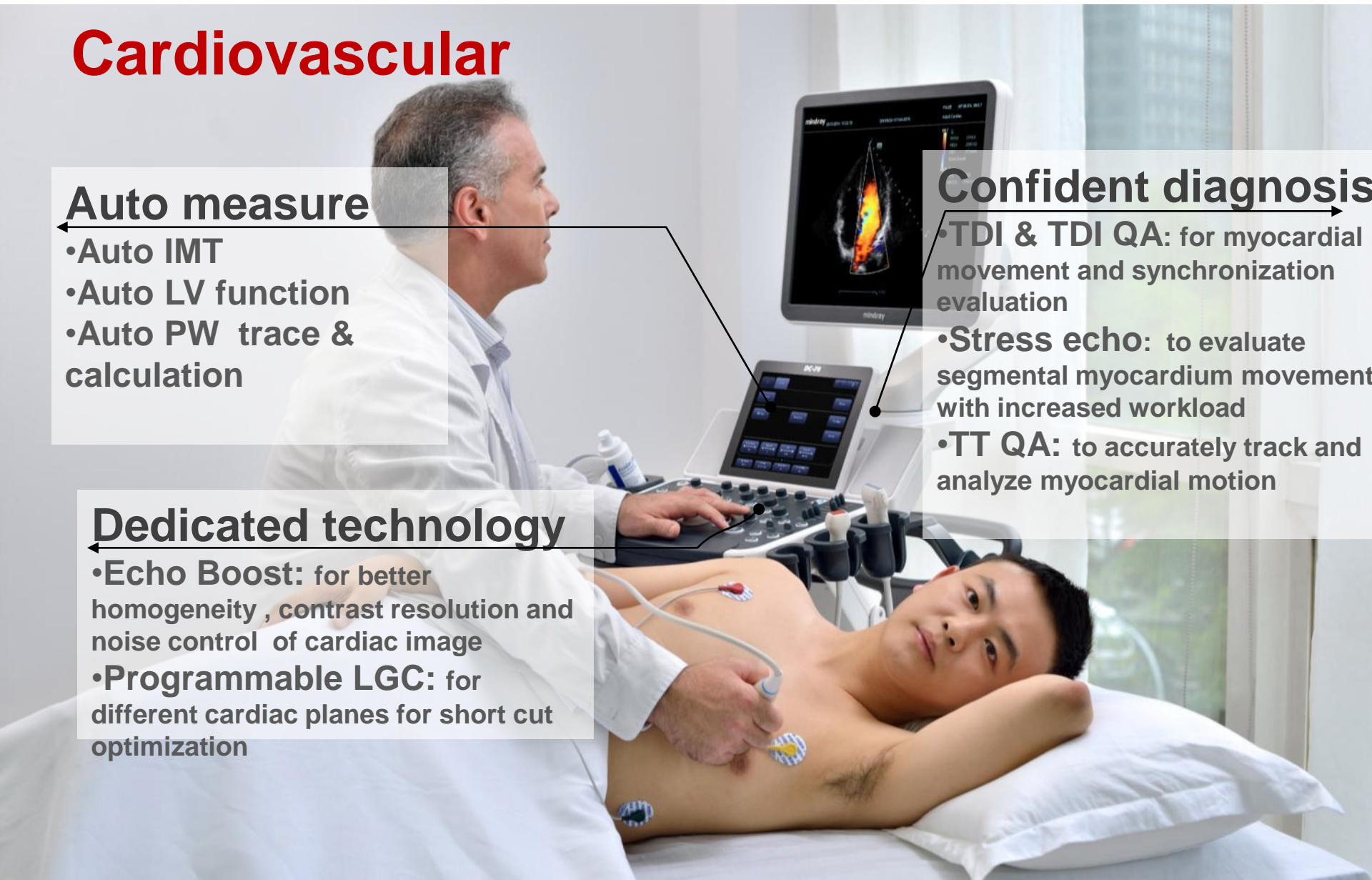
- Auto IMT
- Auto LV function
- Auto PW trace & calculation

Confident diagnosis

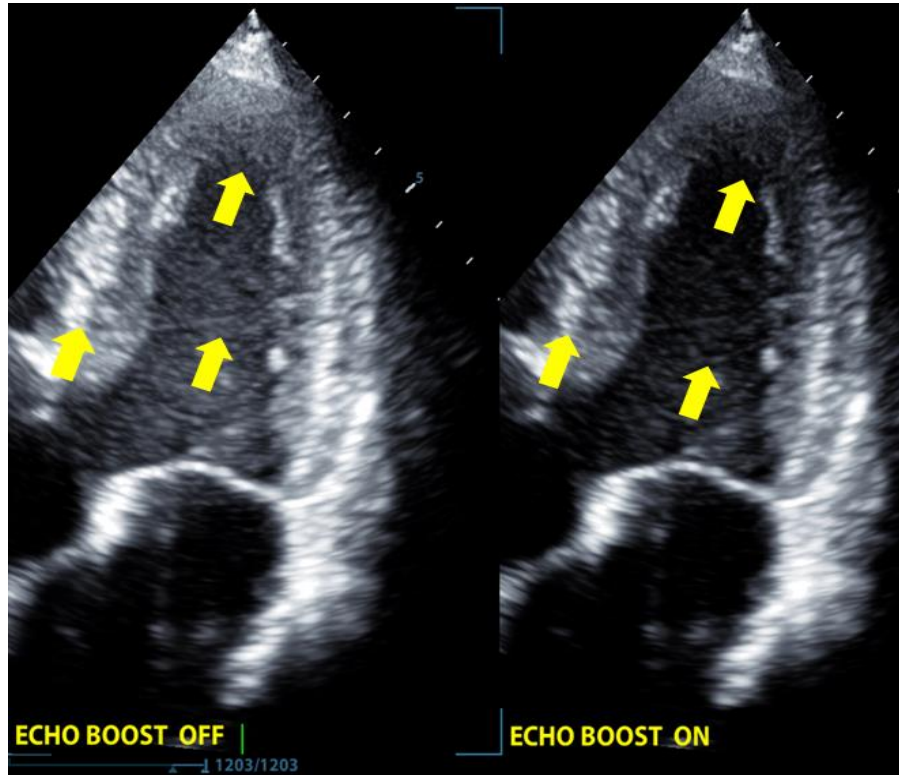
- TDI & TDI QA: for myocardial movement and synchronization evaluation
- Stress echo: to evaluate segmental myocardium movement with increased workload
- TT QA: to accurately track and analyze myocardial motion

Dedicated technology

- Echo Boost: for better homogeneity, contrast resolution and noise control of cardiac image
- Programmable LGC: for different cardiac planes for short cut optimization



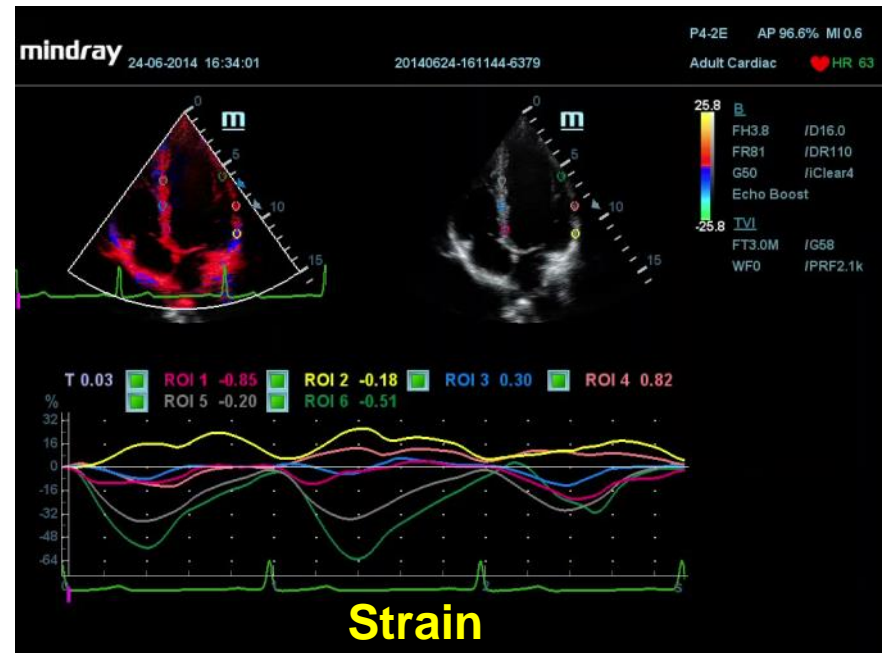
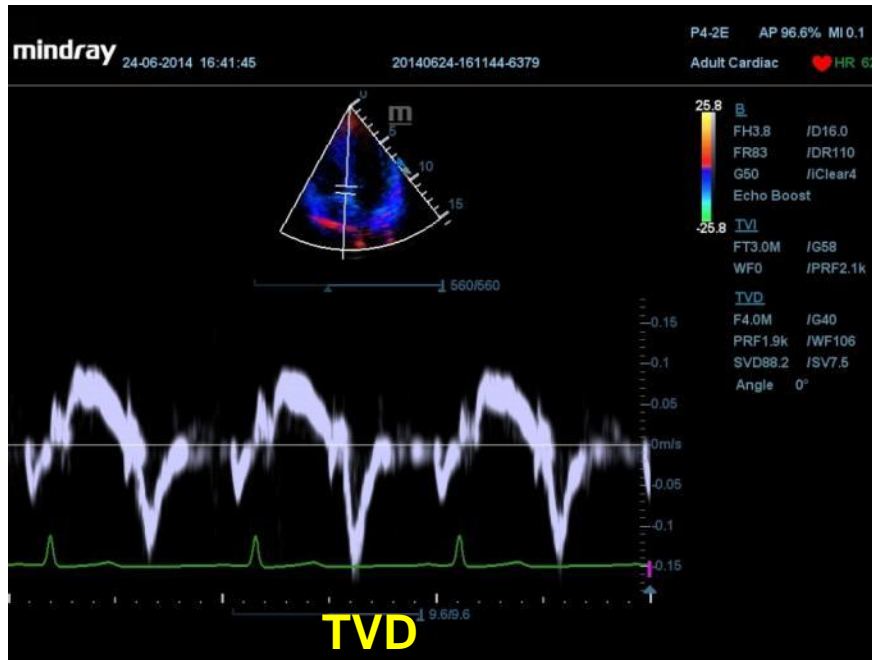
Echo Boost-Endocardium enhance technology



Clinical Benefit:

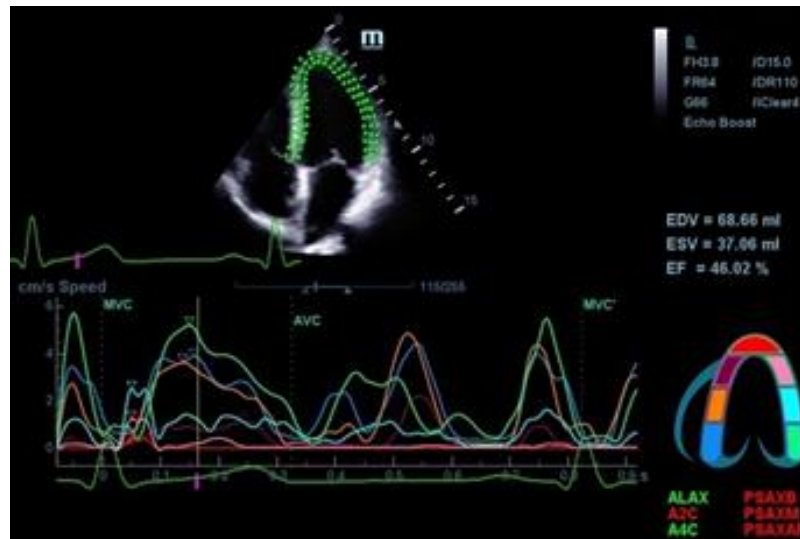
- To improve the homogeneity of cardiac images through the whole field of view
- Better contrast resolution of myocardium tissue layers
- Better noise control in cardiac chambers and muscles

TDI & TDI QA with strain/strain rate



- 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

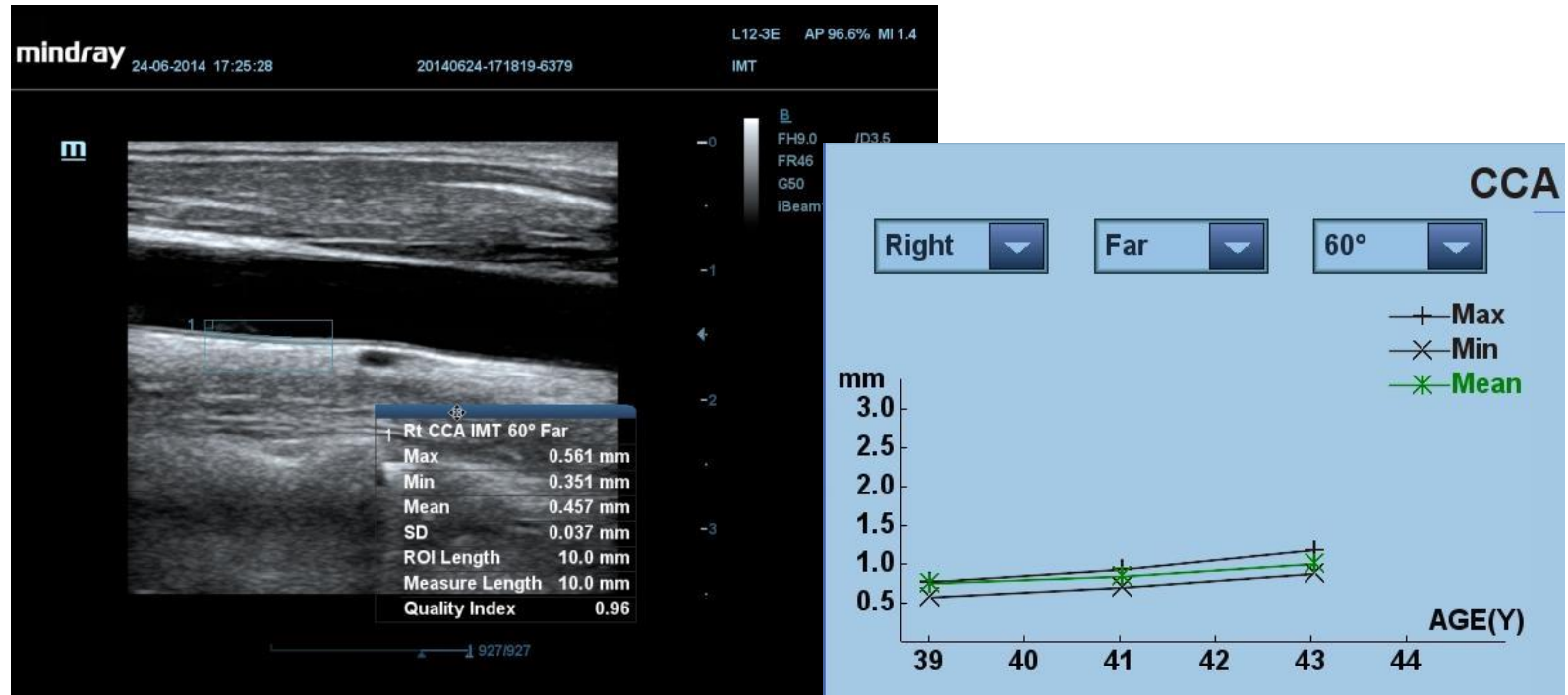
TT QA



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

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

Auto IMT



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

Refined system operation

Gesture sensitive touch screen

- Image adjustment
- Measure on screen
- Image review
- More user defined functions



Ergonomic design

- 19" LED high resolution monitor
- 10.4" LED angle adjustable multi-touch screen
- Flexible control panel
- 4 Active transducer sockets
- ...



Gesture sensitive touch screen



Following functions could be performed by gestures:

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 to realize more functions with one swipe

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

Ergonomic design



19" LED high resolution monitor

- Power saving
- Omni articulated arm



10.4" LED multi-touch screen

- Hand motion sensitive
- Angle adjustable



Flexible control panel

- Height adjustable
- Rotatable

Ergonomic design



- Approx. 85kg
- 4 active transducer sockets
- Gel warmer
- Easy & fast USB 3.0
- Detachable transducer holders
- Dedicated TV transducer holder(left/right)
- Retractable key board
- Cable hooks

Data management



MedTouch →

MedSight →

DICOM/HL7 →

UltraView →

**Barcode
reader** →

Built-in WiFi →

MedTouch



An powerful IOS/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-70 could provide WiFi freely with built-in wireless adapter as the hotspot

MedSight

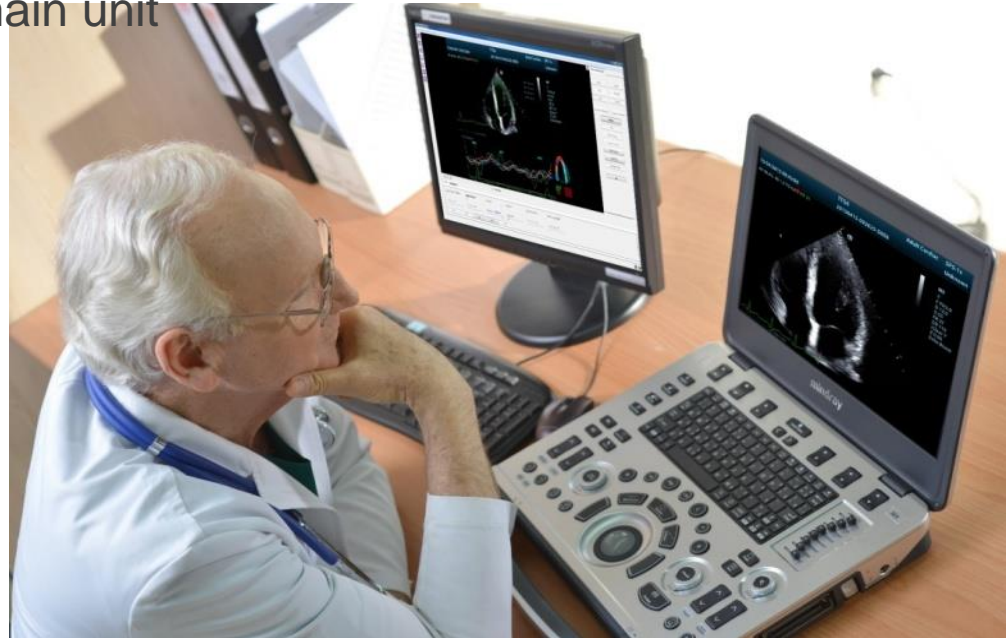


Interactive App that could transfer clinical images/cines and reports from ultrasound to your smart devices via WiFi

- 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 not necessary for Android devices
- DC-70 could provide WiFi freely with built-in wireless adapter as the hotspot

UltraView

- UltraView is an off-line analysis software, installed on personal computer
- Support patient data management, precise measurement, professional analysis, editing the reports and streamlined connectivity between computer and ultrasound main unit





Quality Exams at Your Fingertips