

DC-80A Series

Diagnostic Ultrasound System

Datasheet

Doppler: 2.0.0 (Rev45123)



1 System Overview

1.1 Application

- Abdomen/General
- Obstetrics
- Gynecology
- Cardiology
- Small parts
- Urology
- Vascular
- Pediatrics
- Emergency& Critical
- Nerve

1.2 Transducer types

- Curved array transducer
- Linear array transducer
- Phased array transducer
- Endocavity array transducer
- Pencil transducer
- Bi-planar transducer
- 4D Volume transducer

1.3 Transducer technology

- 3T with single crystal transducers
- ComboWave transducers

1.4 Imaging modes

- B-Mode
- THI and PSH™ (Phase Shift Harmonic Imaging)
- M-Mode/Color M-mode
- Free Xros M™ (Anatomical M-mode)
- Free Xros CM™ (Curved Anatomical M-mode)
- Color Doppler Imaging
- Power Doppler Imaging/Directional PDI
- Pulsed Wave Doppler
- Continuous Wave Doppler
- TDI (Tissue Doppler Imaging)
- TDI QA
- Smart 3D™ (Freehand 3D)
- 4D
- Stress Echo
- Tissue Tracking with Quantitative Analysis

- STE Imaging (Sound Touch Elastography)
- STQ Imaging (Sound Touch Quantification)
- Natural Touch Elastography Imaging
- UWN Contrast Imaging
- UWN Contrast Imaging™ Quantification Analysis
- iScape™ View (Panoramic Imaging)
- Fusion Imaging

1.5 Standard features

- B-Mode
- THI and PSH™
- M-Mode
- Color M Mode
- Color Doppler Imaging
- Power Doppler Imaging and Directional PDI
- Pulsed Wave Doppler
- iBeam™ (Spatial Compound Imaging)
- iClear™ (Speckle Suppression Imaging)
- iTouch™ (Auto Image Optimization)
- X-Engine
- Echo Boost™
- Zoom/iZoom (Full Screen Zoom)
- FCI (Frequency Compound Imaging)
- B steer
- ExFOV (Extended Field of View)
- HR Flow™ (High Resolution Flow)
- Raw data processing
- 5 active universal probe ports, 1 more for pencil probe only
- 1TB hard drive and 128G SSD
- Built-in DVD Recorder
- 5 type A USB ports, 1 more dedicated type B USB port for printer
- Touch gestures
- iStorage
- MedSight
- MedTouch
- iScanHelper

- Smart Track
- Multilingual controls overlay
- Disk of multiple languages
- Accessories
 - Operator's manual
 - Intra-cavity probe bracket
 - Basic accessories (holders, dust-proof cover and cables etc.)

1.6 Optional features

- Continuous Wave Doppler
- ECG
- ECG cable
- DC IN cable
- Free Xros M™
- Free Xros CM™
- iScape™ View (Panoramic Imaging)
- Smart 3D™
- Real-time 4D
- iPage+ (Multi-Slice Imaging)
- SCV+ (Slice Contrast View)
- STIC (Spatio-Temporal Image Correlation)
- Color 3D
- Niche/3 Slice
- iLive Pro
- IVF
- Smart Planes CNS
- Smart Planes FH
- Volume CEUS (4D Hycosy)
- Smart Face
- Smart FLC
- Smart-V™ (Smart Volume)
- IMT
- RIMT (RF-Data based IMT)
- Natural Touch Elastography
- STE Imaging (Sound Touch Elastography)
- STQ Imaging (Sound Touch Quantification)
- UWN Contrast Imaging
- UWN Contrast Imaging™ Quantification Analysis
- Auto EF
- TDI (Include TVI, TVD, TVM, TEI)

- TDI QA (TDI Quantitative Analysis, including strain/strain rate)
- LVO (Left Ventricular Opacification)
- Stress Echo
- Tissue Tracking with Quantitative Analysis
- Smart Pelvic
- DICOM
- Clinical Measurement Package
- Smart OB™ (Auto OB measurement)
- Smart NT™ (Auto NT measurement)
- iWorks™ (Auto Workflow Protocol)
- iNeedle™ (Needle Visualization Enhancement)
- Glazing Flow
- Built-in battery
- Built-in wireless adapter
- Gel warmer
- Built-in Wireless Adapter
- Gel
- iClear+ (iClear+ Dongle should be configured at the same time)
- Ultrasound Fusion Imaging
- DVR Module
- McAfee

1.7 Language support

- Software: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Turkish, Norwegian, Serbian, Danish, Finnish, Hungarian, Icelandic, Swedish, Dutch, Greek, Lithuanian,
- Keyboard input: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Icelandic, Norwegian, Swedish, Finnish, Turkish, Danish, Hungarian, Serbian
- Control panel overlay: Chinese, Italian, Portuguese, Spanish, German, Russian, French, Czech, Polish
- User manual: English, Chinese, German, Spanish, French, Italian,

Portuguese, Russian, Polish, Turkish,
Serbian, Hungarian

2 Physical Specification

2.1 Dimension and weight

- 21.5 inch monitor (folded):
825±5mm (Length) × 510±5mm
(main unit)/533±5mm (display)
(Width) × 1090±5mm (Height)
- 23.8 inch monitor (folded):
825±5mm (Length) × 510±5mm
(main unit)/575±5mm (display)
(Width) × 1090±5mm (Height)
- Weight (including batteries) : <85KG.

2.2 Monitor

- 21.5 or 23.8-inch high resolution
color LED monitor
- Resolution: 1920*1080
- Viewing angle: 89°
left/right/up/down
- Digital on-screen display of
brightness and contrast controls
- Independent tilt up of 110 degrees
from horizontal and swivel left/right
of -90 to 90 degrees
- Frame rate (Hz): 60Hz

2.3 Audio speakers

- Stereo audio speakers
- Audio data range: 250Hz~15kHz

2.4 Multi-directional articulating monitor arm for better user-friendly experience

- Dual-wing floating arm
- Rotate angle: 90 degrees to the left
and 150 degrees to the right along
with the support arm
- Up: 150mm
- Front/back: 300mm

2.5 Wheels

- Diameter: 125mm
- Castors (4 ea): total lock and break

2.6 Probe port and holder

- Probe ports: 5 active ports, 1 more
for pencil probe only

- Detachable probe holder: 7 as
standard, including one dedicated
holder for endocavity probe (left
side holder as default, possible to
select it as the right side holder
before order); one more dedicated
endocavity probe holder as optional

2.7 Electrical power

- Voltage: 100-240V~
- Frequency: 50/60 Hz
- Power consumption: 630VA
(including auxiliary output 240VA)
- A/D-converter velocity (MHz): 40
(receiving)

2.8 Operating Environment

- Ambient temperature: 0-40 °C
- Relative humidity: 30%-85%RH (no
condensation)
- Atmospheric pressure:
700hPa-1060hPa

2.9 Storage & Transportation Environment

- Ambient temperature: -20-55 °C
- Relative humidity: 20%-95%RH (no
condensation)
- Atmospheric pressure:
700hPa-1060hPa

3 User Interface

3.1 Control panel

- User-centric control panel with
home-based layout favors easy
access to keys
- Backlit keys ensure accurate work in
the dark room
- 8 Programmable keys available for
user-defined functions (<P>, <Save>,
<Print>, <F3-F6>, and F12)
- 8-segment TGC control
- Full-sized, backlit QWERTY keyboard
for text input, function keys and
system programming
- Adjustable key volume and trackball
speed meet different needs

- Dedicated palm rest design to help reduce user repetitive stress injury
- Independent rotation and up/down of control panel facilitates optimal positioning
 - rotate: 45 degrees (from center)
 - down/up: 140 mm (pull 50 mm range)

3.2 Touch screen

- 13.3-inch ultra-slim multi-touch screen
- Resolution: 1920*1080
- Touch screen panel angle adjustable for easy visualization: 30 degrees in rotation
- Digital brightness and contrast adjustment through preset
- Viewing angle: 85 degrees left/right/up/down
- Support touch screen gestures
- Support thin latex gloves on touch screen.

3.3 Support touch gestures

- Image mapping on touch screen: swipe down from the top edge to project image from monitor to touch screen. Swipe up from the bottom edge to remove projected image and show regular parameter interface.
- Page up and down: swipe horizontally on regular imaging parameter interface to change different pages; or swipe horizontally on projected images/cine loops to review them one by one
- Menu display: swipe from left edge to right to show the hidden menu on projected image.
- Image parameter adjustment.
- Measurement on projected image on touch screen
- Zoom in/out the projected image on

touch screen

- Rotate or erase on projected 3D/4D image on touch screen
- 8 user defined gestures using two fingers for more functions, such as freeze, save, print, activate specific imaging modes, measurements, and some other special functions.

3.4 System boot-up

McAfee not configured:

- Boot-up from shut-down: <50 sec
- Boot-up from stand-by: <15 sec
- Enter into stand-by status: <7 sec
- Shut-down: <18 sec

McAfee configured:

- Boot-up from shut-down:<115 sec
- Boot-up from stand-by: <16 sec
- Enter into stand-by status: 9 sec
- Shut-down: <19 sec

3.5 Comments

- Supports text input and arrow
- Support freehand marking on touch screen
- Adjustable text size and arrow size
- Supports home position
- Covers various application
- User customizable

3.6 Body mark

- More than 206 bodymarks for versatile application
- User customizable

3.7 Numbers of exam mode presets: 42 system exam modes (unlimited number for user-defined ones)

3.8 Screen information

- Common info:
 - Mindray logo

- Hospital name,
- Exam date
- Exam time
- Acoustic power
- Mechanical index
- Tissue thermal index
- ID, Last name, First Name, Middle initial, Gender, Age
- Probe model
- ECG icon (when ECG connected),
- Operator
- TGC Curve
- Focus position
- Thumbnail
- Imaging parameters
- Help guidance
- Dynamic Trackball indices

*Not all items are listed in this part, detail info please refer to user manual

4 Imaging Parameters

4.1 Overview

- Echo-enriched Beamforming
- Up to 82,944 channels
- 12-beamforming

4.2 B-mode

- Display formats
- iClear™
- iClear⁺
- iBeam™
- iTouch™
- Dual Live
- Image quality
- B steer
- ExFOV
- Depth
- Frame rate (max)
- Acoustic output power
- TGC
- LGC
- Dynamic range
- Gain
- Focus number

- Focus position
- FOV
- Line density
- Persistence
- Horizontal Scale
- L/R flip and U/D flip
- Rotation
- TSI
- Gray Map
- Tint map
- Echo Boost
- Auto Merge
- iNeedle
- B/iNeedle
- Ref Lines
- Dehaze

4.3 THI and PSH™

- Patent PSH™ technology, obtains purer harmonic, better contrast resolution, higher SNR, exceptional high frequency harmonic
- iClear™ available

4.4 M-mode

- Display formats
- Color M-mode available
- Acoustic output power
- Dynamic range
- Gain
- Depth
- M sweep speeds
- M soften
- Tint map
- Gray Map
- Edge enhance
- Focus position
- Image quality
- Time Mark

4.5 Free Xros M™

- Display formats
- Color Free Xros M available
- Up to 3 lines
- Display all lines
- Sweep speeds

- Tint map
 - Gray Map
 - Display
- #### 4.6 Free Xros CM™
- Only available in TDI mode
 - Display formats
 - Acoustic output power
 - Gain
 - Sweep speeds
 - Tint map
 - Gray Map
 - Edit, undo, delete function for curved line
- #### 4.7 Color Doppler Imaging
- Dual live: On/Off
 - HR Flow™: High Resolution Flow provides better image quality and flow sensitivity
 - Image quality
 - Steer
 - Max frame rate
 - Acoustic output power
 - Gain
 - ROI size/position
 - Scale
 - Baseline
 - Wall filter
 - PRF
 - Packet size
 - Flow state
 - Smooth
 - B/C align
 - Priority
 - Color map
 - Invert
 - Persistence
 - Velocity tag
 - Line density
 - Auto Invert
 - iTouch™
 - B Display
 - Smart Track
 - Glazing flow
- #### 4.8 Power Doppler Imaging

- Dual live
 - HR Flow™: High Resolution Flow provides better image quality and sensitivity
 - Support directional power doppler
 - Image quality
 - Acoustic output power
 - Dynamic range
 - Gain
 - ROI size/position
 - Scale
 - Wall filter
 - PRF
 - Packet size
 - Flow state
 - Smooth
 - B/C align
 - Priority
 - Color map
 - Directional color map
 - Persistence
 - Line density
 - Steer
 - Invert
 - iTouch™
 - B Display
 - Smart Track
 - Glazing flow
- #### 4.9 PW/CW-Mode
- Display formats
 - Image quality
 - Sample volume size
 - Sample gate depth
 - PW Scale
 - CW Scale
 - Baseline
 - PW Steer
 - Volume
 - PW PRF
 - CW PRF
 - Gain
 - Dynamic range
 - Sweep speed
 - Wall filter

- Invert
- Auto invert
- Angle correction
- Quick angle
- Gray map
- Tint map
- Time/frequency resolution
- Auto calc
- Auto calc cycle
- Trace area
- Duplex/Triplex
- HPRF
- Auto calc Parameter
- Trace Sensitivity
- Trace Smooth
- Time Mark

4.10 Tissue Velocity/Energy Imaging (included in TDI option)

- Available on phased array transducer
- Dual live
- Max frame rate
- PRF
- Acoustic output power
- Gain
- Dynamic range
- ROI size/position
- Scale
- Baseline
- Wall filter
- Packet size
- Tissue state
- Smooth
- B/C align
- Priority
- TVI maps
- TEI maps
- Invert
- Persistence
- Velocity tag (TVI only)
- Line density
- Image quality

4.11 Tissue Velocity Doppler (included in TDI option)

- Available on phased array transducer
- Display formats
- Sample volume size
- Sample gate depth
- Scale
- Baseline
- Volume
- PRF
- Gain
- Dynamic range
- Sweep speed
- Wall filter
- Invert
- Angle correction
- Quick angle
- Gray map
- Tint map
- Time/frequency resolution
- Image quality
- Duplex/Triplex
- iTouch

4.12 Tissue Velocity Motion (included in TDI option)

- Available on phased array transducer only
- Display formats
- Image quality
- Gain
- M sweep speeds
- Color maps
- Baseline
- Priority
- Tissue state
- Smooth
- Packet size
- Persistence
- Velocity tag
- Wall Filter
- Invert

4.13 Smart 3D™

- Smart 3D
 - Acquisition Method
 - 3D iClear

- VR Refine
 - VR
 - MPR
 - Display formats
 - VOI
 - Flip VOI
 - Reset VOI
 - Reset
 - Active quadrant
 - VR orientation
 - Inversion
 - Accept VOI
 - Flip
 - Sync
 - Render modes
 - iLive
 - View direction
 - Threshold
 - Opacity
 - Smooth
 - Brightness
 - Contrast
 - Tint
 - Gray map
 - MagiClean
 - Hyaline
 - Thickness
 - Depth VR
 - Surface enhance
 - VR fusion
 - V Adjust
 - Degree
 - Auto rotation
 - Rotation control
 - Direction
 - Position
 - Range
 - Image Editing
 - Area selection
 - Undo
 - Eraser
 - Edit diameter
- 4.14 4D
- Available on all volume transducers
- Static 3D and 4D
 - 4D frame rate
 - 3D iClear
 - VR Refine
 - VR
 - MPR
 - Display formats
 - VOI
 - Flip VOI
 - Reset VOI
 - Reset
 - Active quadrant
 - VR orientation
 - Inversion
 - Accept VOI
 - Flip
 - Sync
 - Render modes
 - iLive
 - View direction
 - Threshold
 - Thickness
 - Opacity
 - Smooth
 - Brightness
 - Contrast
 - Tint
 - Depth VR
 - MagiClean
 - Hyaline
 - Brightness
 - Contrast
 - Surface enhance
 - VR fusion
 - Color 3D
 - Supports Color and Power mode
 - Available in both Smart 3D and Static 3D
 - STIC
 - Color STIC available
 - Acquiring Time
 - Support iPage+ viewing
 - CMPR available
 - SCV+ available

- 3 Slice and Niche available
- iPage⁺
 - Slice display mode
 - Slice cut direction
 - Slice layout
 - Active quadrant
 - Reset
 - Spacing
 - Thickness
 - Slice Number
 - Slice Position
 - Brightness
 - Contrast
- SCV⁺
 - Display mode
 - Reset
 - Thickness
 - Active quadrant
 - Brightness
 - Contrast
 - Render modes
 - Rotate RL
 - Reverse
 - 3D iClear
 - Opacity
 - Tint
 - Trace Options
 - Ref. Image
 - Reset Curve, undo last
 - SCV fusion
 - Support labeled measurements
- 3D Layout
 - 3 Slice
 - Niche
 - Reset
 - Active Quadrant
 - Slice/Niche
 - Niche Views
- iLive Pro
 - Shading
 - Move Light
 - Light Position
 - Soft View
 - Grad View
- Hyaline
- Light 1/2/3
- VL Saturation
- VL Hue
- VL Distance
- VL Angle
- Reset Classic/ IntPoint/ ExtPoint/ Parallel/ Torch/ 3-Light/ User 1/ User 2
- Copy to
- Smart FLC (Smart Follicle)
 - Automatic follicle calculation
 - Edit ROI and detect follicle contour automatically
 - Undo
 - Active Quadrant
 - Calc
 - Edit
 - Edit
- Smart Planes CNS
 - Detect automatically the standard sections of TCP, TTP, MSP and TVP
 - Rotation around X/Y/Z axes
 - Reference line
 - Reset
 - Thickness
 - 3D iClear
 - Brightness
 - Contrast
 - Auto comment supported
 - Auto measurement supported
 - Support editing measurement results
 - Hide/show measurement results
 - MSP adjust
 - Support comment and bodymark on sectional plane
- Smart Planes FH
 - Detect automatically left ventricular outflow tract view, right ventricular outflow tract view, LAV-DA view, 3VV-T view and stomach bubble view
 - Rotation around X/Y/Z axes

- Smart Face
 - Recognize fetal face automatically and then display the face in a recommended viewing angle
 - MixRender
 - SubTint
 - Eraser
 - AutoDirect
 - FaceContact
 - VR Orientation
- Smart-V™
 - Auto 3D volume calculation
 - Manual ROI on A, B, C plane separately
 - Auto detect contour of target
 - Volume result shows in result window

4.15 Smart Track

- Available on linear transducers in Upper Ext Artery, Upper Ext Vein, Lower Ext Artery, Lower Ext Vein, carotid, IMT EM Vascular exam
- Enable the function under Color/Power mode, the angle and the position of the ROI are adjusted automatically.
- Enable the function under Color/Power+PW mode, the angle and the position of the PW sampling line, SV size, SV angle and SV position are adjusted automatically.

4.16 RIMT (RF-Data based IMT)

- Available on linear transducer in single/dual B carotid exam mode
- Side: left/right
- Calculation of 6 RIMT values, RIMT average value, SD and ROI W
- Report operation:
 - Data deleting
 - RIMT trend graphic viewing
 - Preview

4.17 iScape™ View

- Acquisition method: B and Power
- Supports speed indicator

- Actual size
- Fit size
- Ruler
- Tint map
- Rotation

4.18 Natural Touch Elastography

- Only probes L12-3E, L9-3E, V11-3HE, L14-5WE, L20-5E, DE11-3E, L14-6WE, V11-3E, and V11-3BE support the strain elastography function.
- Support strain ratio measurement
- Unique shell analysis function
- Stress compensation technology reduces deeper tissue artifacts, obtains more uniform stress throughout whole field
- Stress indicator: supports frame by frame stress indication.
- Display format
- Elasto Map
- Smooth
- Invert
- Opacity
- ROI size/position
- Focus Position
- Depth
- Strain Scale
- Map Position

4.19 STE Imaging (Sound Touch Elastography Imaging)

- The L12-3E, L9-3E, SC6-1E, L14-5WE, C5-1E, and SC5-1E support the STE imaging.
- Display Format
- Invert
- HQ Elasto
- FS Elasto
- Image Quality
- Elas.Metric
- Scale
- Opacity
- Map
- ROI Width/Height
- ROI Center Depth

- iLayering
- Filter
- RLB View
- RLB Map
- M-STB Index
- M-STB Sensibility
- iNatural
- Smooth
- Persistence
- Map Position
- E Avg
- E Bar
- Fixed ROI
- Lesion
- Save all

4.20 STQ Imaging (Sound Touch Quantification Imaging)

- The L12-3E, L9-3E, SC6-1E, L14-5WE, C5-1E, and SC5-1E support the STE imaging.
- ROI Adjustment
- M-STB Index
- M-STB Sensibility
- Filter
- Smooth
- Persistence
- Map Position
- Lesion
- The square height of the elasto curve represents the average value of the elasto metric for current frame.
- HQElasto
- FS Mode

4.21 Smart Pelvic

- This feature is available only under GYN or pelvic floor exam mode in 2D or 3D/4D imaging mode.
- Set Rest and Valsalva frames
- Measure automatically

4.22 Stress Echo

- Available on P7-3E/ SP5-1E/P10-4E in cardiac exam mode
- 14 factory protocols

- User-defined protocols
- ECG triggered acquisition, display, selection, comparison, evaluation and archiving of multiple cardiac loops during various stages of a stress echo examination
- Customized stages
- View: standard views (PSLA, PSAX, A4C, A2C), and customized views
- Image acquisition
 - R-wave trigger
 - Acquire mode
 - Ability to acquire frames or clips in B-mode, M-mode, Color, PW and TDI
- Image selection
 - Attach the images with view annotation label (PSLA, PSAX, A4C, A2C, and customized views)
- Review
 - Automatically adjust to the number of images user defined
- Wall Motion Scoring
 - ASE 16 (with score 4-7), or ASE 17 (with score 4-7)
 - Graphical display of scoring (Normal, Hyperkinetic, Severely Hyperkinetic, Akinetic, Dyskinetic)
- LV volume measurement
 - Measurement of LV Volume in all phases of cardiac cycle
- Report
 - Reporting for both Wall Motion Scoring and LV volume measurement

4.23 iBeam™

- Spatial compound imaging
- Off, 1-5; or off, 1-3 (depends on probes)

4.24 iClear™

- Speckle suppression imaging
- Available for B, 3D, 4D

4.25 iClear+

- Advanced version of iClear.

- Better enhance image quality, reject noise, provide better contrast resolution, and identify positive lesion.

4.26 iTouch™

- Auto image optimization
- B-mode
- Color
- Power
- PW
- Contrast imaging

4.27 Echo Boost™

- Only for cardiac exams using phased probes
- 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

4.28 B steer

- Only for linear transducers

4.29 ExFov

- Extended field of view
- Available for all convex, linear and volume transducers

4.30 Zoom

- Zoom: Spot zoom (write zoom) up to 10x, Pan zoom (read zoom) 0.8-10
- iZoom: convertible 3 steps ;normal image, zoom standard area, zoom only image area

4.31 QSave

- Quick save image parameter setting after image adjustment done
- Support Save, Create, Restore

4.32 Auto EF

- Output EDV/ ESV/ EF/ SV/ CO by Simpson method
- Activated with or without ECG
- Adjustment for the border of endocardium by single point or multi points

- Adjust Frame

- Layout

- Diastole FR

- Systole FR

- Volume curve

4.33 TDI QA

- Dedicated quantification tool for TDI speed, strain, strain rate analysis

- Ellipse ROI, Standard ROI

- Up to 8 of ROI

- Delete all

- Delete current

- ROI tracking

- Smooth

- X scale

- Std.Height

- Std.Width

- Std.Angle

- Export

4.34 iNeedle

- Needle visualization enhancement

- Available on all linear transducers

- Needle direction

- B/iNeedle

- Premium angle display

4.35 iScanHelper

- Tutorial function as a guidance to show basic scanning skill with graphic of probe position, schematic of anatomy and example clinical image

- Support ABD, SMP, URO, OB, GYN, VAS, BREAT applications

4.36 UWN Contrast Imaging

- UWN(Ultra Wideband Non-linear) contrast imaging technology, which provides exceptional contrast agent detecting capability, not only extracts second harmonic, but also non-linear fundamental signals

- The L12-3E, SP5-1E, L9-3E, V11-3HE, SC6-1E, L14-5WE, DE11-3E, C5-1E, C6-2GE, C7-3E, V11-3E, V11-3BE, DE10-3WE, SC5-1E probes support

contrast imaging.

- Supports Low MI contrast imaging
 - Micro Flow Enhancement (MFE) available
 - Timer1
 - Timer2
 - Pro capture
 - Retro capture
 - Dual live
 - MFE
 - MFE period
 - Destruct
 - Destruct voltage
 - Destruct time
 - iClear
 - Mix
 - Mix map
 - Persistence
 - Dynamic range
 - Gray map
 - Tint map
 - Supports U/D Flip and L/R Flip
 - Rotation
 - CEUS Position
 - Line density
 - FOV
 - FOV size/position
 - ExFov
 - Gain
 - iTouch
 - Image quality
 - Depth
 - TGC
 - Acoustic output power
- *The DC-80A is designed for compatibility with commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use.

Contrast related product features are enabled only on systems for delivery to an authorized country or region of use. Mindray medical systems makes no claims concerning the safety or effectiveness of contrast agents.

4.37 UWN Contrast Imaging

Quantitative Analysis

- Support Time-Intensity Curve analysis
- Table display
- Freehand ROI
- Up to 8 ROIs
- Delete all
- Delete current
- Fit curve
- Raw curve
- Motion tracking
- X scale
- Export

4.38 LVO

- Only available on SP5-1E
- Dedicated left ventricle contrast imaging tool

4.39 Volume CEUS (4D Hycosy)

- The probes DE11-3E and DE10-3WE support the volume CEUS in GYN mode.
- Timer1
- Timer2
- Capture 3D image

4.40 Tissue Tracking with

Quantitative Analysis

- Available on P7-3E / SP5-1E/P10-4E in adult cardiac/cardiac-difficult (car-penetration)/pediatric cardiac/neonatal cardiac.
- Tissue tracking quantitative analysis
- Mandatory ECG connection before TT QA cine acquisition
- Six views for analysis

- Reload
 - Edit
 - Start tracking
 - Accept & compute
 - Display effect
 - Trace method
 - Bull's eye
 - LGC
 - Valve's open and close time index
 - Data export
 - Cycle
 - Auto play
 - Thickness
 - Track point
 - Parameter
 - Smooth
- 4.41 Fusion Imaging
- Only the SC6-1E, L14-5WE, C5-1E, SP5-1E, and SC5-1E probes support Fusion Imaging in B/Color/Power/Contrast mode (non-cardiac contrast mode).
 - Single window display
 - Fusing CT/MR/PET/freehand body data with the ultrasonic image
 - CT/MR/PET data reconstruction for 3D displaying
 - Tracking system
 - Fusion ratio
 - Axis rotation
 - ROI Offset X
 - ROI Offset Y
 - Window W/L
 - Reset Window W/L
 - Reset CT/MR
 - Display marks
 - Respiration curve
 - Respiration Range
 - Support general measurement
 - Support adding comment and bodymark

5 Cine Review and Raw Data

Processing

5.1 Cine review

- Available in all modes
- Frame by frame manual cineloop review or auto playback with variable speed
- Maximum cine memory up to 41,588 frames or 345.7s (M)
- Maximum 4D cine memory up to 36,535 frames
- Retrospective storage (Max. time 120s) and prospective storage (Max. time 480s, Max. frames: 666,589) are available and length is pre-settable
- Frame compare: displays one cine in dual format and allows frame by frame compare side by side
- Image/cine compare: max 4 for 2D/Color/Power/TDI files compare; max 2 for M/PW/TVD/TVM files compare (compare cines which are saved in same patient file)
- Jump to first and jump to last: one keystroke go to first or last frame in the cine
- iCompare: in live or freeze mode, compare the current single-frame image, multi-frame image, or screenshot with history files side by side. It supports FRM/CIN/PNG/DCM file compare in in B, Color, Power, PW, CW, or M mode.

5.2 Raw data processing

- B-mode:
 - TGC
 - Gain
 - Dyn Ra.
 - Gray Map
 - Tint Map
 - iClear
 - iClear+

- L/R Flip
- U/D Flip
- Rotation
- LGC
- Dual Live
- Auto Merge
- H Scale
- Echo Boost
- Ref Lines
- iTouch
- M-mode:
 - Gain
 - Speed
 - Dyn Ra.
 - Gray Map
 - Tint Map
 - Edge Enhance
 - Time Mark
- Color:
 - Gain
 - Baseline
 - Smooth
 - Color Map
 - Priority
 - Dual Live
 - Invert
 - Velocity tag
 - B display
 - Glazing flow
- PW:
 - Gain
 - Baseline
 - Volume
 - Angle
 - Speed
 - Dyn Ra.
 - Gray Map
 - Tint Map
 - Invert
 - WF
 - Quick Angle
 - T/F Res
 - Auto Calculate
 - Auto Calc Cycle

- Auto Calc Parameter
- Trace Sensitivity
- Trace Smooth
- Trace Area
- Time Mark

6 Measurement/Analysis and Report*

6.1 Generic measurements

- B-Mode
 - Distance
 - Ellipse
 - Trace
 - Spline
 - Cross
 - Angle(2L)
 - Angle(3P)
 - Double Dist
 - Trace Len
 - Trace Len(Spline)
 - Parallel
 - Distance P-L
 - IMT
 - B-Profile
 - B-Hist(Ellipse)
 - B-Hist(Trace)
 - B-Hist(Spline)
 - B-Hist(Rectangle)
 - Depth
 - Color Vel
 - Strain Hist
 - Elas. Hist
 - Color Vel Profile
 - Elas.
 - Strain
 - -----
 - Volume
 - Volume(Ellipse)
 - Volume(E+Dist.)
 - Ratio(D)
 - -----
 - Volume
 - Volume

- Volume(Ellipse)
- Volume(E+Dist.)
- Ratio(A)
- Area1
- Area2
- Directional Ratio
- D1
- D2
- RAC
- Sag
- XS
- Volume Flow
- Vas Area
- TAMEAN
- TAMAX
- Elas. Ratio
- A
- B
- Strain Ratio
- A
- B
-
- M-Mode
 - HR
 - HR(R-R)
 - Slope
 - Distance
 - Time
 - Velocity
 -
 - D-Mode
 - PS/ED
 - Vel
 - HR
 - HR(R-R)
 - Time
 - Acceleration
 - D Trace
 - -----
 - Ratio(Vel)
 - Ratio(VTI)
 - -----
 - Volume Flow
 - Vas Area

- TAMEAN
- TAMAX
- Automatic Doppler Spectrum Analysis
 - Heart cycle pre-settable (1, 2, 3, 4, 5)
 - Automatic real-time and retrospective tracing
 - User configurable display of items
 - Support PI, RI, TAMAX, TAMEAN, Volume Flow calculations
 - Appropriate factory setting according to applications

6.2 AutoCalc

- PS
- ED
- MD
- PPG
- TAMAX
- Vol Flow(TAMAX)
- TAMEAN
- Vol Flow(TAMEAN)
- DT
- MPG
- MPPG
- VTI
- AT
- S/D
- D/S
- PI
- RI
- PV
- HR

6.3 Clinical option measurement package

- Abdominal
 - B-Mode
 - Liver
 - Renal L
 - Renal H
 - Renal W
 - Cortex
 - Adrenal L
 - Adrenal H

- Adrenal W
- CBD
- Portal V Diam
- CHD
- GB L
- GB H
- GB wall th
- Panc duct
- Panc head
- Panc body
- Panc tail
- Spleen L
- Spleen H
- Spleen W
- Spleen Area
- Splenic A Diam
- Splenic V Diam
- Aorta Diam H
- Aorta Diam W
- Aorta Bif
- Aorta Aneurysm L
- Aorta Aneurysm W
- Aorta Aneurysm H
- Iliac Diam
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Ureter
- Hepatic Lesion1 d1
- Hepatic Lesion1 d2
- Hepatic Lesion1 d3
- Hepatic Lesion2 d1
- Hepatic Lesion2 d2
- Hepatic Lesion2 d3
- Hepatic Lesion3 d1
- Hepatic Lesion3 d2
- Hepatic Lesion3 d3
- Skin-L.Capsule Dist.
- Hepatic Cyst1 d1
- Hepatic Cyst1 d2
- Hepatic Cyst1 d3
- Hepatic Cyst2 d1
- Hepatic Cyst2 d2
- Hepatic Cyst2 d3
- Hepatic Cyst3 d1
- Hepatic Cyst3 d2
- Hepatic Cyst3 d3
- Renal Cyst1 d1
- Renal Cyst1 d2
- Renal Cyst1 d3
- Renal Cyst2 d1
- Renal Cyst2 d2
- Renal Cyst2 d3
- Renal Cyst3 d1
- Renal Cyst3 d2
- Renal Cyst3 d3
- Renal Lesion1 d1
- Renal Lesion1 d2
- Renal Lesion1 d3
- Renal Lesion2 d1
- Renal Lesion2 d2
- Renal Lesion2 d3
- Renal Lesion3 d1
- Renal Lesion3 d2
- Renal Lesion3 d3
- Hepatic Lesion1 Elas.
- Hepatic Lesion2 Elas.
- Hepatic Lesion3 Elas.
- LSM
- -----
- Aorta Sten D
- Aorta Sten A
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- -----
- Spleen
 - Spleen L
 - Spleen H
 - Spleen W
 - Spleen Area
- Aorta Aneurysm
 - Aorta Aneurysm L
 - Aorta Aneurysm W

- Aorta Aneurysm H
- Hepatic Lesion1
 - Hepatic Lesion1 d1
 - Hepatic Lesion1 d2
 - Hepatic Lesion1 d3
- Hepatic Lesion2
 - Hepatic Lesion2 d1
 - Hepatic Lesion2 d2
 - Hepatic Lesion2 d3
- Hepatic Lesion3
 - Hepatic Lesion3 d1
 - Hepatic Lesion3 d2
 - Hepatic Lesion3 d3
- Hepatic Cyst1
 - Hepatic Cyst1 d1
 - Hepatic Cyst1 d2
 - Hepatic Cyst1 d3
- Hepatic Cyst2
 - Hepatic Cyst2 d1
 - Hepatic Cyst2 d2
 - Hepatic Cyst2 d3
- Hepatic Cyst3
 - Hepatic Cyst3 d1
 - Hepatic Cyst3 d2
 - Hepatic Cyst3 d3
- Kidney
 - Renal L
 - Renal H
 - Renal W
 - Cortex
- Renal Cyst1
 - Renal Cyst1 d1
 - Renal Cyst1 d2
 - Renal Cyst1 d3
- Renal Cyst2
 - Renal Cyst2 d1
 - Renal Cyst2 d2
 - Renal Cyst2 d3
- Renal Cyst3
 - Renal Cyst3 d1
 - Renal Cyst3 d2
 - Renal Cyst3 d3
- Renal Lesion1
 - Renal Lesion1 d1
 - Renal Lesion1 d2
 - Renal Lesion1 d3
- Renal Lesion2
 - Renal Lesion2 d1
 - Renal Lesion2 d2
 - Renal Lesion2 d3
- Renal Lesion3
 - Renal Lesion3 d1
 - Renal Lesion3 d2
 - Renal Lesion3 d3
- Adrenal
 - Adrenal L
 - Adrenal H
 - Adrenal W
- Bladder
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
- Hepatic Lesion1 ElasRatio
 - A
 - B
- Hepatic Lesion2 ElasRatio
 - A
 - B
- Hepatic Lesion3 ElasRatio
 - A
 - B
- M-Mode
- D-Mode
 - Ren A Org
 - Arcuate A
 - Segment A
 - Interlobar A
 - Renal A
 - M Renal A
 - Renal V
 - Aorta
 - Celiac Axis
 - SMA

- IMA
- C Hepatic A
- Hepatic A
- Splenic A
- IVC
- IVC Reflux
- Portal V
- M Portal V
- Hepatic V
- Lt Hepatic V
- Rt Hepatic V
- M Hepatic V
- Splenic V
- SMV
- IMV
- -----
- RAR
- SMA/Ao
- CA/Ao
- Gynecology/IVF
 - B-Mode
 - UT L
 - UT H
 - UT W
 - Cervix L
 - Cervix H
 - Cervix W
 - Endo
 - Ovary L
 - Ovary H
 - Ovary W
 - Follicle1 d1
 - Follicle1 d2
 - Follicle1 d3
 - Follicle2 d1
 - Follicle2 d2
 - Follicle2 d3
 - Follicle3 d1
 - Follicle3 d2
 - Follicle3 d3
 - Follicle4 d1
 - Follicle4 d2
 - Follicle4 d3
 - Follicle5 d1
 - Follicle5 d2
 - Follicle5 d3
 - Follicle6 d1
 - Follicle6 d2
 - Follicle6 d3
 - Follicle7 d1
 - Follicle7 d2
 - Follicle7 d3
 - Follicle8 d1
 - Follicle8 d2
 - Follicle8 d3
 - Follicle9 d1
 - Follicle9 d2
 - Follicle9 d3
 - Follicle10 d1
 - Follicle10 d2
 - Follicle10 d3
 - Follicle11 d1
 - Follicle11 d2
 - Follicle11 d3
 - Follicle12 d1
 - Follicle12 d2
 - Follicle12 d3
 - Follicle13 d1
 - Follicle13 d2
 - Follicle13 d3
 - Follicle14 d1
 - Follicle14 d2
 - Follicle14 d3
 - Follicle15 d1
 - Follicle15 d2
 - Follicle15 d3
 - Follicle16 d1
 - Follicle16 d2
 - Follicle16 d3
 - Fibroid1 d1
 - Fibroid1 d2
 - Fibroid1 d3
 - Fibroid2 d1
 - Fibroid2 d2
 - Fibroid2 d3
 - Fibroid3 d1
 - Fibroid3 d2
 - Fibroid3 d3

- GYN Lesion1 d1
- GYN Lesion1 d2
- GYN Lesion1 d3
- GYN Lesion2 d1
- GYN Lesion2 d2
- GYN Lesion2 d3
- GYN Lesion3 d1
- GYN Lesion3 d2
- GYN Lesion3 d3
- Ovarian Cyst1 d1
- Ovarian Cyst1 d2
- Ovarian Cyst1 d3
- Ovarian Cyst2 d1
- Ovarian Cyst2 d2
- Ovarian Cyst2 d3
- Ovarian Cyst3 d1
- Ovarian Cyst3 d2
- Ovarian Cyst3 d3
- DWT
- BSD(R)
- BSD(Va)
- RVA(R)
- RVA(Va)
- UTA(R)
- UTA(Va)
- URA
- PVA(R)
- PVA(Va)
- PUA(R)
- PUA(Va)
- BPW-SP Dist.(R)
- BPW-SP Dist.(Va)
- Cx-SP Dist.(R)
- Cx-SP Dist.(Va)
- RA-SP Dist.(R)
- RA-SP Dist.(Va)
- Shuttle(R)
- Shuttle(Va)
- Rectocele Depth
- Intus. Depth
- ARA(R)
- ARA(Va)
- ARA(C)
- LH AP Diam(R)
- LH AP Diam(Va)
- LH AP Diam(C)
- LH Lateral Diam(R)
- LH Lateral Diam(Va)
- LH Lateral Diam(C)
- LH Area(R)
- LH Area(Va)
- LH Area(C)
- LA Angle(R)
- LA Angle(Va)
- LA Angle(C)
- LA Thickness(R)
- LA Thickness(Va)
- LA Thickness(C)
- LUG(R)
- LUG(Va)
- LUG(C)
- GYN Lesion1 Strain
- GYN Lesion2 Strain
- GYN Lesion3 Strain
- -----
- Ovary Vol
- UT Vol
- UT SUM
- UT-L/CX-L
- Follicle1
- Follicle2
- Follicle3
- Follicle4
- Follicle5
- Follicle6
- Follicle7
- Follicle8
- Follicle9
- Follicle10
- Follicle11
- Follicle12
- Follicle13
- Follicle14
- Follicle15
- Follicle16
- Mean DWT
- BND
- IAS Damage

- EAS Damage
- -----
- Uterus
- UT L
- UT H
- UT W
- Endo
- Uterine Cervix
- Cervix L
- Cervix H
- Cervix W
- Ovary
- Ovary L
- Ovary H
- Ovary W
- Follicle1
- Follicle1 d1
- Follicle1 d2
- Follicle1 d3
- Follicle2
- Follicle2 d1
- Follicle2 d2
- Follicle2 d3
- Follicle3
- Follicle3 d1
- Follicle3 d2
- Follicle3 d3
- Follicle4
- Follicle4 d1
- Follicle4 d2
- Follicle4 d3
- Follicle5
- Follicle5 d1
- Follicle5 d2
- Follicle5 d3
- Follicle6
- Follicle6 d1
- Follicle6 d2
- Follicle6 d3
- Follicle7
- Follicle7 d1
- Follicle7 d2
- Follicle7 d3
- Follicle8
- Follicle8 d1
- Follicle8 d2
- Follicle8 d3
- Follicle9
- Follicle9 d1
- Follicle9 d2
- Follicle9 d3
- Follicle10
- Follicle10 d1
- Follicle10 d2
- Follicle10 d3
- Follicle11
- Follicle11 d1
- Follicle11 d2
- Follicle11 d3
- Follicle12
- Follicle12 d1
- Follicle12 d2
- Follicle12 d3
- Follicle13
- Follicle13 d1
- Follicle13 d2
- Follicle13 d3
- Follicle14
- Follicle14 d1
- Follicle14 d2
- Follicle14 d3
- Follicle15
- Follicle15 d1
- Follicle15 d2
- Follicle15 d3
- Follicle16
- Follicle16 d1
- Follicle16 d2
- Follicle16 d3
- Fibroid1
- Fibroid1 d1
- Fibroid1 d2
- Fibroid1 d3
- Fibroid2
- Fibroid2 d1
- Fibroid2 d2
- Fibroid2 d3
- Fibroid3

- Fibroid3 d1
- Fibroid3 d2
- Fibroid3 d3
- GYN Lesion1
 - GYN Lesion1 d1
 - GYN Lesion1 d2
 - GYN Lesion1 d3
- GYN Lesion2
 - GYN Lesion2 d1
 - GYN Lesion2 d2
 - GYN Lesion2 d3
- GYN Lesion3
 - GYN Lesion3 d1
 - GYN Lesion3 d2
 - GYN Lesion3 d3
- Ovarian Cyst1
 - Ovarian Cyst1 d1
 - Ovarian Cyst1 d2
 - Ovarian Cyst1 d3
- Ovarian Cyst2
 - Ovarian Cyst2 d1
 - Ovarian Cyst2 d2
 - Ovarian Cyst2 d3
- Ovarian Cyst3
 - Ovarian Cyst3 d1
 - Ovarian Cyst3 d2
 - Ovarian Cyst3 d3
- Residual Urine
 - BL Height
 - BL Depth
- GYN Lesion1 Strain Ratio
 - A
 - B
- GYN Lesion2 Strain Ratio
 - A
 - B
- GYN Lesion3 Strain Ratio
 - A
 - B
- M-Mode
- D-Mode
- Obstetrics
- B-Mode
- GS
- YS
- CRL
- NT
- BPD
- OFD
- HC
- AC
- FL
- TAD
- APAD
- TCD
- CM
- IT
- LVW
- HW
- OOD
- IOD
- HUM
- Ulna
- RAD
- Tibia
- FIB
- CLAV
- Vertebrae
- MP
- Foot
- NBL
- Ear
- APTD
- TTD
- FTA
- THD
- HrtC
- TC
- Umb VD
- F-kidney
- Mat Kidney
- Cervix L
- AF
- NF
- Orbit
- PL Thickness

- Sac Diam1
- Sac Diam2
- Sac Diam3
- AF1
- AF2
- AF3
- AF4
- LVIDd
- LVIDs
- LV Diam
- LA Diam
- RVIDd
- RVIDs
- RV Diam
- RA Diam
- IVSd
- IVSs
- IVS
- LV Area
- LA Area
- RV Area
- RA Area
- Ao Diam
- MPA Diam
- LVOT Diam
- RVOT Diam
- Facial Angle
- HrtA
- MV Diam(Z-Score)
- PV Diam(Z-Score)
- Ao Asc Diam(Z-Score)
- Ao Desc Diam(Z-Score)
- Duct Art Diam(Z-Score)
- TV Diam(Z-Score)
- LPA Diam(Z-Score)
- RPA Diam(Z-Score)
- IVC Diam(Z-Score)
- AV Diam(Z-Score)
- MPA Diam(Z-Score)
- RV Diam(Z-Score)
- LV Diam(Z-Score)
- RV Area(Z-Score)
- LV Area(Z-Score)
- RVIDd(Z-Score)
- LVIDd(Z-Score)
- UT L
- UT H
- UT W
- Endo
- -----
- MAD
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC(Campbell)
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC(Hadlock)
- AC(c)
- HC(c)
- HrtC/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD
- UT Vol
- UT SUM
- UT-L/CX-L
- -----
- AFI
- AF1
- AF2
- AF3
- AF4
- Uterus
- UT L
- UT H
- UT W
- Endo
-
- M-Mode
- FHR (M)
- LVIDd

- LVIDs
- RVIDd
- RVIDs
- IVSd
- IVSs
- RVIDd(Z-Score)
- LVIDd(Z-Score)
-
- D-Mode
- Umb A
- Duct Veno
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT
- Cardiology
- B-Mode
- RVAWd(2D)
- RVAWs(2D)
- RVDd(2D)
- RVDs(2D)
- IVSd(2D)
- IVSs(2D)
- LVIDd(2D)
- LVIDs(2D)
- LVPWd(2D)
- LVPWs(2D)
- Diastole(2D)
- Systole(2D)
- LVLd apical
- LVLs apical
- LVAd apical
- LVAs apical
- LVAd sax MV
- LVAs sax MV
- LVAd sax Endo
- LVAd sax Epi
- LV Major
- LV Minor
- LV Area(d)
- LV Area(s)
- HR(2D)
- RA Major
- RA Minor
- RA Area
- RA Vol(A4C)
- RAP
- RV Area(d)
- RV Area(s)
- RV Major
- RV Minor
- LA Diam(2D)
- LA Major
- LA Minor
- LA Area
- LVOT Diam
- Ao Diam(2D)
- ACS(2D)
- AV Diam
- Ao Isthmus(2D)
- Ao Sinus Diam(2D)
- Ao st junct(2D)
- AVA
- Ao Arch Diam(2D)
- Ao Asc Diam(2D)
- Ao Desc Diam(2D)
- Duct Art Diam
- Post Ductal
- Pre Ductal
- MCS(2D)
- MV Diam
- MV EPSS(2D)
- MVA
- TV Diam
- TVA
- PV Diam
- RVOT Diam
- MPA Diam(2D)
- RPA Diam(2D)
- LPA Diam(2D)
- IVC Diam(Expir)
- IVC Diam(Insp)

- SVC Diam(Expir)
- SVC Diam(Insp)
- LCA Diam
- RCA Diam
- PEd(2D)
- PEs(2D)
- VSD Diam
- ASD Diam
- PDA Diam
- PFO Diam
- AutoEF
- -----
- LA/Ao(2D)
- -----
- LV(2D)
 - Diastole(2D)
 - Systole(2D)
 - IVSd(2D)
 - LVIDd(2D)
 - LVPWd(2D)
 - IVSs(2D)
 - LVIDs(2D)
 - LVPWs(2D)
 - HR(2D)
- Simpson
 - A2Cd
 - A2Cs
 - A4Cd
 - A4Cs
 - HR(2D)
- Mod.Simpson
 - LVLd apical
 - LVLs apical
 - LVAd sax MV
 - LVAs sax MV
 - LVAd sax PM
 - LVAs sax PM
 - HR(2D)
- S-P Ellipse
 - LVLd apical
 - LVAd apical
 - LVLs apical
 - LVAs apical
 - HR(2D)
- B-P Ellipse
 - LVIDd(2D)
 - LVAd sax MV
 - LVIDs(2D)
 - LVAs sax MV
 - LVAd apical
 - LVAs apical
 - HR(2D)
- Bullet
 - LVLd apical
 - LVLs apical
 - LVAd sax MV
 - LVAs sax MV
 - HR(2D)
- LV Mass(Cube-2D)
 - IVSd(2D)
 - LVIDd(2D)
 - LVPWd(2D)
- LV Mass(A-L)
 - LVLd apical
 - LVAd sax Epi
 - LVAd sax Endo
- LV Mass(T-E)
 - LVAd sax Epi
 - LVAd sax Endo
- a
- d
- LA Vol(Simp)
 - LA Vol(A2C)
 - LA Vol(A4C)
- LA Vol(A-L)
 - LA apical
 - LAA(A2C)
 - LAA(A4C)
- MVA(VTI)
 - LVOT Diam
 - LVOT VTI
 - MV VTI
- AVA(VTI)
 - LVOT Diam
 - LVOT VTI
 - AV VTI
- CO(LVOT)
 - LVOT Diam

- LVOT VTI
- AV HR
- CO(RVOT)
- RVOT Diam
- RVOT VTI
- PV HR
- CO(MV)
- MV Diam
- MV VTI
- MV HR
- CO(TV)
- TV Diam
- TV VTI
- TV HR
- PISA MR
- MR Rad
- MR Als Vel
- MR VTI
- PISA AR
- AR Rad
- AR Als Vel
- AR VTI
- PISA TR
- TR Rad
- TR Als Vel
- TR VTI
- PISA PR
- PR Rad
- PR Als Vel
- PR VTI
- Qp/Qs
- LVOT Diam
- LVOT VTI
- RVOT Diam
- RVOT VTI
- Z-Scores (3Y) (2D)
- AV Diam
- Ao Sinus Diam
- Ao st junct
- PV Diam
- Ao Arch IA-LCA
- Ao Arch LCA-LSA
- Ao Arch after LSA
- Ao Isthmus
- Thoracic Ao Diam
- IVC Diam
- MV Diam
- TV Diam
- MPA Diam
- RPA Diam
- LPA Diam
- Z-Scores (<18Y) (2D)
- LV Area(d) A4C
- LV Area(s) A4C
- LVIDd A4C(2D)
- LVIDs A4C(2D)
- LA AP Diam A4C
- LA LL Diam A4C
- LA Area A4C
- RA AP Diam A4C
- RA LL Diam A4C
- RA Area A4C
- RV Area(d) A4C
- RV Area(s) A4C
- RVd Major A4C
- RVs Major A4C
- RVd Minor (basal) A4C
- RVd Minor (midcavity) A4C
- LV Area(d) A2C
- LV Area(s) A2C
- LVIDd A2C(2D)
- LVIDs A2C(2D)
- M-Mode
- RVAWd(M)
- RVAWs(M)
- RVDd(M)
- RVDs(M)
- Ao Arch Diam(M)
- Ao Asc Diam(M)
- Ao Desc Diam(M)
- Ao Diam(M)
- Ao Isthmus(M)
- Ao Sinus Diam(M)
- Ao st junct(M)
- ACS(M)
- HR(M)
- IVSd(M)

- IVSs(M)
- LA Diam(M)
- LPA Diam(M)
- Diastole(M)
- Systole(M)
- LVET(M)
- LVIDd(M)
- LVIDs(M)
- LVOT Diam
- LVPEP(M)
- LVPWd(M)
- LVPWs(M)
- MCS(M)
- MPA Diam(M)
- MV A Amp
- MV E Amp
- MV D-E Slope
- MV D-E Amp
- MV E-F Slope
- MV EPSS(M)
- PEd(M)
- PEs(M)
- RPA Diam(M)
- RVET(M)
- RVOT Diam
- RVPEP(M)
- MAPSE
- TAPSE
- MV ALL
- -----
- LA/Ao(M)
- -----
- LV(M)
- Diastole(M)
- Systole(M)
- IVSd(M)
- LVIDd(M)
- LVPWd(M)
- IVSs(M)
- LVIDs(M)
- LVPWs(M)
- HR(M)
- LV Mass(Cube-M)
- IVSd(M)
- LVIDd(M)
- LVPWd(M)
- LV Tei Index(M)
- MV C-O dur(M)
- LVET(M)
- Z-Scores (3Y) (M)
- IVSd(M)
- LVPWd(M)
- Z-Scores (<18Y) (M)
- LVIDd(M)
- LVIDs(M)
-
- D-Mode
- MV Aa(lateral)
- MV Aa(medial)
- AAO Vmax
- AV VTI
- AV HR
- AV Vmax
- AR DecT
- AR PHT
- AR Ved
- AR Vmax
- AR VTI
- MV ARa(lateral)
- MV ARa(medial)
- ASD Vmax
- AV AccT
- AV DecT
- Coarc Post-Duct
- Coarc Pre-Duct
- DAo Vmax
- MV DRa(lateral)
- MV DRa(medial)
- MV Ea(lateral)
- MV Ea(medial)
- IVC Vel(Expir)
- IVC Vel(Insp)
- IVCT
- LPA Vmax
- LVET(Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax

- LVPEP(Doppler)
- MPA Vmax
- dP/dt
- Tau(BAI)
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV A VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV HR
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel(d)
- PDA Vel(s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PV AccT
- PV VTI
- PV HR
- PV Vmax
- RAP
- RPA Vmax
- RVET(Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP(Doppler)
- MV Sa(lateral)
- MV Sa(medial)
- SVC Vel(Expir)
- SVC Vel(Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV HR
- TV Vmax
- VSD Vmax
- Hepatic V S Vel
- Hepatic V D Vel
- -----
- MV E/A
- MVA(PHT)
- TV E/A
- TVA(PHT)
- -----
- LV Tei Index(Doppler)
- MV C-O dur(Doppler)
- LVET(Doppler)
- RVSP
- TR Vmax
- RAP
- PAEDP
- PR Ved
- RAP
- MVA(VTI)
- LVOT Diam
- LVOT VTI
- MV VTI
- AVA(VTI)
- LVOT Diam
- LVOT VTI
- AV VTI
- CO(LVOT)
- LVOT Diam
- LVOT VTI
- AV HR
- CO(RVOT)
- RVOT Diam

- RVOT VTI
- PV HR
- CO(MV)
 - MV Diam
 - MV VTI
 - MV HR
- CO(TV)
 - TV Diam
 - TV VTI
 - TV HR
- RV Tei Index
 - TV C-O dur
 - RVET(Doppler)
- PISA MR
 - MR Rad
 - MR Als Vel
 - MR VTI
- PISA AR
 - AR Rad
 - AR Als Vel
 - AR VTI
- PISA TR
 - TR Rad
 - TR Als Vel
 - TR VTI
- PISA PR
 - PR Rad
 - PR Als Vel
 - PR VTI
- Qp/Qs
 - LVOT Diam
 - LVOT VTI
 - RVOT Diam
 - RVOT VTI
- Urology
 - B-Mode
 - Renal L
 - Renal H
 - Renal W
 - Cortex
 - Adrenal L
 - Adrenal H
 - Adrenal W
 - Prostate L
 - Prostate H
 - Prostate W
 - Seminal L
 - Seminal H
 - Seminal W
 - Testicular L
 - Testicular H
 - Testicular W
 - Ureter
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
 - Renal Cyst1 d1
 - Renal Cyst1 d2
 - Renal Cyst1 d3
 - Renal Cyst2 d1
 - Renal Cyst2 d2
 - Renal Cyst2 d3
 - Renal Cyst3 d1
 - Renal Cyst3 d2
 - Renal Cyst3 d3
 - Renal Lesion1 d1
 - Renal Lesion1 d2
 - Renal Lesion1 d3
 - Renal Lesion2 d1
 - Renal Lesion2 d2
 - Renal Lesion2 d3
 - Renal Lesion3 d1
 - Renal Lesion3 d2
 - Renal Lesion3 d3
 - Prostate Mass1 d1
 - Prostate Mass1 d2
 - Prostate Mass1 d3
 - Prostate Mass2 d1
 - Prostate Mass2 d2
 - Prostate Mass2 d3
 - Prostate Mass3 d1
 - Prostate Mass3 d2
 - Prostate Mass3 d3
 - Testicular Mass1 d1
 - Testicular Mass1 d2

- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Prostate Mass1 Strain
- Prostate Mass2 Strain
- Prostate Mass3 Strain
- -----
- Renal Vol
- Prostate Vol
- Testicular Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- -----
- Kidney
 - Renal L
 - Renal H
 - Renal W
 - Cortex
- Adrenal
 - Adrenal L
 - Adrenal H
 - Adrenal W
- Renal Cyst1
 - Renal Cyst1 d1
 - Renal Cyst1 d2
 - Renal Cyst1 d3
- Renal Cyst2
 - Renal Cyst2 d1
 - Renal Cyst2 d2
 - Renal Cyst2 d3
- Renal Cyst3
 - Renal Cyst3 d1
 - Renal Cyst3 d2
 - Renal Cyst3 d3
- Renal Lesion1
- Renal Lesion1 d1
- Renal Lesion1 d2
- Renal Lesion1 d3
- Renal Lesion2
 - Renal Lesion2 d1
 - Renal Lesion2 d2
 - Renal Lesion2 d3
- Renal Lesion3
 - Renal Lesion3 d1
 - Renal Lesion3 d2
 - Renal Lesion3 d3
- Prostate
 - Prostate L
 - Prostate H
 - Prostate W
- Seminal Vesicle
 - Seminal L
 - Seminal H
 - Seminal W
- Testis
 - Testicular L
 - Testicular H
 - Testicular W
- Bladder
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
- Prostate Mass1
 - Prostate Mass1 d1
 - Prostate Mass1 d2
 - Prostate Mass1 d3
- Prostate Mass2
 - Prostate Mass2 d1
 - Prostate Mass2 d2
 - Prostate Mass2 d3
- Prostate Mass3
 - Prostate Mass3 d1
 - Prostate Mass3 d2
 - Prostate Mass3 d3
- Testicular Mass1
 - Testicular Mass1 d1

- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis
- Epididymis L
- Epididymis H
- Epididymis W
- Prostate Mass1 Strain Ratio
- A
- B
- Prostate Mass2 Strain Ratio
- A
- B
- Prostate Mass3 Strain Ratio
- A
- B
-
- M-Mode
-
- D-Mode
- Testis A
- Testis V
- Epididymis A
- Epididymis V
- Vascular
- B-Mode
- CCA IMT
- Bulb IMT
- ICA IMT
- ECA IMT
- Cephalic V
- Basilic V
- Axill. V
- Brachial V
- Ulnar V
- Radial V
- C.Iliac V
- Ex.Iliac V
- IIV
- Femoral V
- CFV
- SFV
- DFV
- Pop V
- TP Trunk V
- Sural V
- Soleal V
- Peroneal V
- A.Tib. V
- P.Tib. V
- Saph V
- SSV
- -----
- Stenosis D
- Stenosis A
- -----
- Stenosis A
- A1
- A2
- IMT
- CCA IMT
- Bulb IMT
- ICA IMT
- ECA IMT
-
- M-Mode
-
- D-Mode
- CCA
- Bulb
- ICA
- ECA
- Vert A
- Innom A
- Subclav A
- Axill A
- Brachial A
- Ulnar A
- Radial A
- Subclav V
- Axill V

- Cephalic V
- Basilic V
- Ulnar V
- Radial V
- C.Iliac A
- Ex.Iliac A
- IIA
- CFA
- SFA
- DFA
- Pop A
- TP Trunk A
- Peroneal A
- P.Tib A
- A.Tib A
- Dors.Ped. A
- C.Iliac V
- C.Iliac V Reflux
- Ex.Iliac V
- Ex.Iliac V Reflux
- IIV
- IIV Reflux
- Femoral V
- Femoral V Reflux
- CFV
- CFV Reflux
- SFV
- SFV Reflux
- DFV
- DFV Reflux
- Saph V
- Saph V Reflux
- SSV
- SSV Reflux
- Pop V
- Pop V Reflux
- TP Trunk V
- TP Trunk V Reflux
- Sural V
- Sural V Reflux
- Soleal V
- Soleal V Reflux
- Peroneal V
- Peroneal V Reflux

- P.Tib V
- P.Tib V Reflux
- A.Tib V
- A.Tib V Reflux
- ACA
- MCA
- PCA
- AComA
- PComA
- BA
- Ba V
- Brachial V
- ASP
- BSP
- -----
- ICA/CCA
- -----
- ABI
 - ASP
 - BSP
- Small Parts
 - B-Mode
 - Thyroid L
 - Thyroid H
 - Thyroid W
 - Isthmus H
 - Thyroid Mass1 d1
 - Thyroid Mass1 d2
 - Thyroid Mass1 d3
 - Thyroid Mass2 d1
 - Thyroid Mass2 d2
 - Thyroid Mass2 d3
 - Thyroid Mass3 d1
 - Thyroid Mass3 d2
 - Thyroid Mass3 d3
 - Thyroid Nodule1 d1
 - Thyroid Nodule1 d2
 - Thyroid Nodule1 d3
 - Thyroid Nodule2 d1
 - Thyroid Nodule2 d2
 - Thyroid Nodule2 d3
 - Thyroid Nodule3 d1
 - Thyroid Nodule3 d2
 - Thyroid Nodule3 d3

- Thyroid Cyst1 d1
- Thyroid Cyst1 d2
- Thyroid Cyst1 d3
- Thyroid Cyst2 d1
- Thyroid Cyst2 d2
- Thyroid Cyst2 d3
- Thyroid Cyst3 d1
- Thyroid Cyst3 d2
- Thyroid Cyst3 d3
- Testicular L
- Testicular H
- Testicular W
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip.-Mass1 Dist.
- Skin-Mass1 Dist.
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip.-Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip.-Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip.-Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip.-Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip.-Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip.-Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip.-Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip.-Mass10 Dist.
- Skin-Mass10 Dist.
- THY Mass1 Strain
- THY Mass2 Strain
- THY Mass3 Strain
- THY Mass1 Elas.
- THY Mass2 Elas.
- THY Mass3 Elas.
- THY Nodule1 Strain
- THY Nodule2 Strain
- THY Nodule3 Strain
- THY Nodule1 Elas.
- THY Nodule2 Elas.
- THY Nodule3 Elas.
- Breast Mass1 Strain

- Breast Mass1 Elas.
- Breast Mass2 Strain
- Breast Mass2 Elas.
- Breast Mass3 Strain
- Breast Mass3 Elas.
- Breast Mass4 Strain
- Breast Mass4 Elas.
- Breast Mass5 Strain
- Breast Mass5 Elas.
- Breast Mass6 Strain
- Breast Mass6 Elas.
- Breast Mass7 Strain
- Breast Mass7 Elas.
- Breast Mass8 Strain
- Breast Mass8 Elas.
- Breast Mass9 Strain
- Breast Mass9 Elas.
- Breast Mass10 Strain
- Breast Mass10 Elas.
- -----
- Thyroid Vol
- Testicular Vol
- -----
- Thyroid
- Thyroid L
- Thyroid H
- Thyroid W
- Thyroid Mass1
- Thyroid Mass1 d1
- Thyroid Mass1 d2
- Thyroid Mass1 d3
- Thyroid Mass2
- Thyroid Mass2 d1
- Thyroid Mass2 d2
- Thyroid Mass2 d3
- Thyroid Mass3
- Thyroid Mass3 d1
- Thyroid Mass3 d2
- Thyroid Mass3 d3
- Thyroid Nodule1
- Thyroid Nodule1 d1
- Thyroid Nodule1 d2
- Thyroid Nodule1 d3
- Thyroid Nodule2
- Thyroid Nodule2 d1
- Thyroid Nodule2 d2
- Thyroid Nodule2 d3
- Thyroid Nodule3
- Thyroid Nodule3 d1
- Thyroid Nodule3 d2
- Thyroid Nodule3 d3
- Thyroid Cyst1
- Thyroid Cyst1 d1
- Thyroid Cyst1 d2
- Thyroid Cyst1 d3
- Thyroid Cyst2
- Thyroid Cyst2 d1
- Thyroid Cyst2 d2
- Thyroid Cyst2 d3
- Thyroid Cyst3
- Thyroid Cyst3 d1
- Thyroid Cyst3 d2
- Thyroid Cyst3 d3
- Testis
- Testicular L
- Testicular H
- Testicular W
- Testicular Mass1
- Testicular Mass1 d1
- Testicular Mass1 d2
- Testicular Mass1 d3
- Testicular Mass2
- Testicular Mass2 d1
- Testicular Mass2 d2
- Testicular Mass2 d3
- Testicular Mass3
- Testicular Mass3 d1
- Testicular Mass3 d2
- Testicular Mass3 d3
- Epididymis
- Epididymis L
- Epididymis H
- Epididymis W
- Breast Mass1
- Breast Mass1 L
- Breast Mass1 H
- Breast Mass1 W
- Nip.-Mass1 Dist.

- Skin-Mass1 Dist.
- Breast Mass2
- Breast Mass2 L
- Breast Mass2 H
- Breast Mass2 W
- Nip.-Mass2 Dist.
- Skin-Mass2 Dist.
- Breast Mass3
- Breast Mass3 L
- Breast Mass3 H
- Breast Mass3 W
- Nip.-Mass3 Dist.
- Skin-Mass3 Dist.
- Breast Mass4
- Breast Mass4 L
- Breast Mass4 H
- Breast Mass4 W
- Nip.-Mass4 Dist.
- Skin-Mass4 Dist.
- Breast Mass5
- Breast Mass5 L
- Breast Mass5 H
- Breast Mass5 W
- Nip.-Mass5 Dist.
- Skin-Mass5 Dist.
- Breast Mass6
- Breast Mass6 L
- Breast Mass6 H
- Breast Mass6 W
- Nip.-Mass6 Dist.
- Skin-Mass6 Dist.
- Breast Mass7
- Breast Mass7 L
- Breast Mass7 H
- Breast Mass7 W
- Nip.-Mass7 Dist.
- Skin-Mass7 Dist.
- Breast Mass8
- Breast Mass8 L
- Breast Mass8 H
- Breast Mass8 W
- Nip.-Mass8 Dist.
- Skin-Mass8 Dist.
- Breast Mass9
- Breast Mass9 L
- Breast Mass9 H
- Breast Mass9 W
- Nip.-Mass9 Dist.
- Skin-Mass9 Dist.
- Breast Mass10
- Breast Mass10 L
- Breast Mass10 H
- Breast Mass10 W
- Nip.-Mass10 Dist.
- Skin-Mass10 Dist.
- THY Mass1 Strain Ratio
- A
- B
- THY Mass2 Strain Ratio
- A
- B
- THY Mass3 Strain Ratio
- A
- B
- THY Mass1 Elas. Ratio
- A
- B
- THY Mass2 Elas. Ratio
- A
- B
- THY Mass3 Elas. Ratio
- A
- B
- THY Nodule1 Strain Ratio
- A
- B
- THY Nodule2 Strain Ratio
- A
- B
- THY Nodule3 Strain Ratio
- A
- B
- THY Nodule1 Elas. Ratio
- A
- B
- THY Nodule2 Elas. Ratio
- A
- B

- THY Nodule3 Elas. Ratio
- A
- B
- Breast Mass1 Strain Ratio
- A
- B
- Breast Mass1 Elas. Ratio
- A
- B
- Breast Mass2 Strain Ratio
- A
- B
- Breast Mass2 Elas. Ratio
- A
- B
- Breast Mass3 Strain Ratio
- A
- B
- Breast Mass3 Elas. Ratio
- A
- B
- Breast Mass4 Strain Ratio
- A
- B
- Breast Mass4 Elas. Ratio
- A
- B
- Breast Mass5 Strain Ratio
- A
- B
- Breast Mass5 Elas. Ratio
- A
- B
- Breast Mass6 Strain Ratio
- A
- B
- Breast Mass6 Elas. Ratio
- A
- B
- Breast Mass7 Strain Ratio
- A
- B
- Breast Mass7 Elas. Ratio
- A
- B
- Breast Mass8 Strain Ratio
- A
- B
- Breast Mass8 Elas. Ratio
- A
- B
- Breast Mass9 Strain Ratio
- A
- B
- Breast Mass9 Elas. Ratio
- A
- B
- Breast Mass10 Strain Ratio
- A
- B
- Breast Mass10 Elas. Ratio
- A
- B
- M-Mode
- D-Mode
- STA
- ITA
- Testis A
- Testis V
- Epididymis A
- Epididymis V
- Orthopedics
- B-Mode
- HIP
- HIP-Graf
- HIP()
- HIP()
- d/D
- M-Mode
- D-Mode
- Emergency
- B-Mode
- Renal L
- Renal H

- Renal W
- CBD
- Portal V Diam
- CHD
- GB wall th
- Aorta Diam H
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS
- CRL
- BPD
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- -----
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- Ovary Vol
- UT Vol
- UT SUM
- -----
- Uterus
 - UT L
 - UT H
 - UT W
 - Endo
- Ovary
 - Ovary L
 - Ovary H
 - Ovary W
- Kidney

- Renal L
- Renal H
- Renal W
- Cortex
- Bladder
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
- M-Mode
 - FHR (M)
- D-Mode
 - FHR (Doppler)

6.4 Report

- Specific report template by application
- User-defined report template
- Editable value in report
- Images selectable
- Able to Export as PDF/RTF file

6.5 IMT

- Intima-Media Thickness Measurement
- Automatic detection of IMT when ROI is set
- Support CCA, ICA, ECA, Bulb IMT
- Near wall and far wall detection
- Angle selectable
- IMT trend analysis

6.6 IVF

- The uterus and follicle growth curve can be displayed in the IVF report.
- Data of IVF history exams can be checked in the IVF report.

6.7 Smart OB™

- Auto measurement for OB, a special tool for easy OB scan, and greatly reduce time and increase productivity
- Support BPD, HC, OFD, FL, AC, HUM

- Measurement result can be modified by user

6.8 Smart NT™

- NT auto measurement
- Auto detection of NT inside ROI

* Not all measurements are listed in this part; For more detailed information please refer to User Manual

7 Exam Storage and Management

7.1 Exam storage

- 1TB hard drive and 128G SSD (used to install OS and Doppler software). Up to 905 GB internal hard drive for patient data storage
- Capable to store up to approximate 4,236,434 single frames
- Direct digital storage of single frame and cine 2D, color and Doppler

7.2 Exam management

- iStation™ workstation dedicated for patient exam management
- Patient exam query/retrieve
- Support review of current and past exam
- New exam, Active exam, Continue exam functions, End exam are available
- Support measurements and calculations on archived exam and images
- Export images as (BMP/JPG/TIFF/DCM/AVI/MP4 format)
- Support backup/send to USB devices, DVD+R, DVD+RW, CD-R, CD-RW, DVD-R, DVD-RW media

7.3 iWorks™

- Auto workflow protocol
- Templates are user configurable
- Functions: pause, stop, replace, repeat, skip, insert single step, return and continue, steps in

thumbnail, iNSert™ another template

- iWorks setup mode: B/Dual/B+Color/B+PW/B+Color+PW/B+CW/B+Color+CW/ B+M
- iWorks setup annotation: support up to 2 annotations, location and font size are configurable.
- iWorks setup bodymark: select existing library, and probe indicator is pre-settable
- iWorks setup measurement: select existing measurement library
- Template import and export are available

7.4 Security

- Patient data encryption
 - Transmission Encryption: encrypt the data using VPN network.
 - Exam backup encryption: encrypt the exams after a backup to the USB device.
 - Drive encryption: encrypt the patient data stored in the hard drive.
- Hiding patient information during patient data backup or sending.
- Anti-Virus software: McAfee and Windows Defender. They can effectively prevent the ultrasound system from being attacked by virus, spyware, or other malware.

8 Connectivity

8.1 Ethernet Network Connection

- Cable connection
- Wireless connection: built-in wireless adaptor

8.2 DICOM 3.0

- DICOM basic (option)
 - Verify (SCU, SCP)
 - Print
 - Store

- Storage Commitment
 - Media Exchange
 - DICOM Worklist (option, HL7 supported)
 - DICOM Query/Retrieve (option)
 - DICOM Modality Performed Procedure Step - MPPS (option)
 - DICOM OB/GYN structure report (option)
 - DICOM Abdomen structure report (option)
 - DICOM Cardiac structure report (option)
 - DICOM Vascular structure report (option)
 - DICOM Breast Report (option)
- 8.3 iStorage (included in UltraAssist)
- Direct network storage tool between ultrasound system and personal computer
- 8.4 MedSight
- An interactive app that lets you transfer clinical images straight from Mindray Ultrasound system to a smart device, such as mobile phone or tablet PC.
 - Needs to be installed on mobile terminal
 - Transfer images or clips from system to mobile terminal through WiFi
 - Support both IOS and Android powered system.
 - For IOS powered smart device: DICOM not necessary, IOS 5.0 or above; For Android powered smart device: DICOM not necessary, Android 4.0 or above.
- 8.5 MedTouch
- Connect Ultrasound machine to smart devices, such as tablet PC or mobile phone. Remote control of Ultrasound machine, review of patient information, and tutorial software iScanHelper study on

smart devices.

- Support IOS and Android powered smart devices
- Android 4.0 or above
- DICOM not necessary

8.6 Remote Maintenance

- Permits remote access from the remote controller to upgrade the equipment, transmit files, or check and download logs.

9 Transducers

9.1 Curved array

- SC6-1E
 - Application: Gynecology, Obstetrics, Abdomen, Musculo-skeletal, Vascular, Urology, Nerve
 - Bandwidth: 1.3-5.7 MHz
 - Convex Radius: 60 mm
 - Physical Footprint: 65.1mm × 16.4 mm
 - Biopsy Guide: NGB-022, multi angle, reusable
- C11-3E
 - Application: Abdomen, transcranial
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 15mm
 - Physical Footprint: 32.8 mm × 25mm
 - Biopsy Guide: NGB-018, multi angle, reusable
- SC5-1NE
 - Application: Gynecology, Obstetrics, Abdomen, Musculo-skeletal, Vascular, Urology, Nerve
 - Bandwidth: 1.3-5.7MHz
 - Convex Radius: 60mm
 - Physical Footprint: 80.78mm x 29.0mm
 - Biopsy Guide: NGB-022 multi angle, reusable

- C5-1E
 - Application: Gynecology, Obstetrics, Abdomen, Musculo-skeletal, Vascular, Nerve
 - Bandwidth: 1.3-5.7MHz
 - Convex Radius: 60mm
 - Physical Footprint: 76.5mm x 28mm
 - Biopsy Guide: NGB-022 multi angle, reusable
 - SC5-1E
 - Application: Gynecology, Obstetrics, Abdomen, Vascular
 - Bandwidth: 1.3-5.7MHz
 - Convex Radius: 60mm
 - Physical Footprint: 80.78mm x 29.0mm
 - Biopsy Guide: NGB-031 multi angle, reusable
 - C6-2GE
 - Application: Gynecology, Obstetrics, Abdomen
 - Bandwidth: 2.6-8.2MHz
 - Convex Radius: 20mm
 - Physical Footprint: 37.6mm x 19mm
 - Biopsy Guide: NGB-024, multi angle, reusable
 - C7-3E
 - Application: Gynecology, Obstetrics, Abdomen
 - Bandwidth: 2.6-7.2MHz
 - Convex Radius: 50mm
 - Physical Footprint: 71mm x 21.5mm
 - Biopsy Guide: NGB-019, multi angle, reusable
- 9.2 Endocavity
- V11-3HE
 - Application: Gynecology, obstetrics, urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 11mm
 - Physical Footprint: 24.9mm × 21.8mm
 - V11-3E
 - Application: Obstetrics, gynecology, urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 11mm
 - Physical Footprint: 24.85mm x 21.8mm
 - Biopsy Guide: NGB-004, single angle, reusable, CIVCO 610-543, CIVCO 610-1274
 - V11-3BE
 - Application: Obstetrics, gynecology, urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 11mm
 - Physical Footprint: 24.85mm x 21.8mm
 - Biopsy Guide: NGB-004, single angle, reusable, CIVCO 610-543, CIVCO 610-1274
- 9.3 Volume curved array
- SD8-1E
 - Application: Gynecology, Obstetrics, Abdomen
 - Bandwidth: 2.6-8.2MHz
 - Convex Radius: 45 mm
 - Physical Footprint: 75.7mm × 52.6 mm
 - Biopsy Guide: NGB-039, multi angle, reusable
 - DE11-3E
 - Application: Gynecology, Obstetrics, Urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 11 mm
 - Physical Footprint: 24.9mm × 21.8mm
 - Biopsy Guide: NGB-027, single angle, reusable
 - DE10-3WE
 - Application: Gynecology, Obstetrics, Urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 11 mm
 - Physical Footprint: 24.9mm × 21.8mm
 - Biopsy Guide: NGB-027, single angle, reusable

- Application: Obstetrics, gynecology, urology
 - Bandwidth: 2.6-12.8MHz
 - Convex Radius: 10 mm
 - Physical Footprint: 24mm × 24mm
 - Biopsy Guide: NGB-021, single angle, reusable
 - D7-2E
 - Application: Obstetrics, gynecology, abdomen
 - Bandwidth: 2.6-8.2MHz
 - Convex Radius: 40 mm
 - Physical Footprint: 74mm x 49 mm
 - Biopsy Guide: none
- 9.4 Linear array
- L12-3E
 - Application: Musculoskeletal, nerve, small parts, vascular, pediatric, abdomen
 - Bandwidth: 3.0-13.5MHz
 - Field of View (max): 38.1mm
 - Physical Footprint: 45.7mm × 10.9mm
 - Biopsy Guide: NGB-007, multi angle, reusable, CIVCO 658-001
 - L9-3E
 - Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve, obstetrics
 - Bandwidth: 1.8-9.8MHz
 - Field of View (max): 43.7mm
 - Physical Footprint: 62mm×22mm
 - Biopsy Guide: NGB-034, multi angle, reusable
 - L14-5WE
 - Application: Small parts, Musculo-skeletal, Vascular, Nerve, Pediatric, Abdomen
 - Bandwidth: 4.0-14.0 MHz
 - Field of View (max): 54.4mm
 - Physical Footprint: 66mm × 23mm
 - Footprint: 58.5mm × 6mm
 - Biopsy Guide: NGB-035, multi angle, reusable
 - L20-5E
 - Application: Abdomen, Small Parts, Musculo-skeletal, Vascular, Nerve
 - Bandwidth: 6.0-23.0 MHz
 - Number of Elements: 192
 - Field of View (max): 28.5mm
 - Physical Footprint: 42.23mm × 22.10mm
 - Biopsy Guide: none
 - L14-6WE
 - Application: Small parts, musculo-skeletal, vascular, nerve, pediatric
 - Bandwidth: 3.5-16.0 MHz
 - Field of View (max): 50.8mm
 - Physical Footprint: 59.1mm x 12mm
 - Biopsy Guide: NGB-007, multi angle, reusable
 - L16-4HE
 - Application: Small parts, musculo-skeletal, vascular, nerve, pediatric, intra-operative
 - Bandwidth: 3.5-16.0 MHz
 - Field of View (max): 25.4mm
 - Physical Footprint: 11.5mm x 38mm (slant width)/ 34.8mm (straight width)
 - Biopsy Guide: none
 - LM14-6E
 - Application: Small parts, musculo-skeletal, vascular, nerve, pediatric
 - Bandwidth: 3.5-16.0 MHz
 - Field of View (max): 38.1mm
 - Physical Footprint: 44.4mm x 8.7mm
 - Biopsy Guide: NGB-023, multi-angle, reusable
- 9.5 Phased array
- SP5-1E
 - Application: Cardiac, transcranial, abdomen
 - Bandwidth: 1.0-5.0MHz

- Field of View (max): 90°
- Physical Footprint: 38.2mm x 30.5mm
- Biopsy Guide: NGB-011, multi angle, reusable
 - P7-3E
- Application: Abdomen, pediatric, cardiac, transcranial, nerve
- Bandwidth: 2.3-7.2 MHz
- Field of View (max): 90°
- Physical Footprint: 34 mm×24.5 mm
- Biopsy Guide: none
 - P10-4E
- Application: Cardiac, abdomen, nerve, pediatric
- Bandwidth: 3.0-11.4 MHz
- Field of View (max): 90°
- Physical Footprint: 15.1mm x 10.2 mm
- Biopsy Guide: none

9.6 TEE

- P7-3TE
- Application: Cardiac
- Bandwidth: 2.3~7.2 MHz
- FOV (max): 90°
- Physical Footprint: 14mm × 12mm
- Biopsy Guide: Not available

9.7 Pencil

- CW5s
- Application: Vascular
- CW Frequency: 5.0MHz
- Biopsy Guide: Not available
- CW2s
- Application: Cardiac
- CW Frequency: 2.0MHz
- Biopsy Guide: Not available
- angle, reusable

9.8 Bi-plane

- CB10-4E
- Application: Urology
- Bandwidth: 2.6-12.8 MHz
- Convex Radius: 9mm
- Footprint: 20.1mm x 9mm

- Biopsy Guide: NGB-004, single angle, reusable
 - 6LB7E
- Application: Urology
- Bandwidth: 2.6-12.8 MHz
- Convex Radius: 10mm
- Linear Physical Footprint: 20.6mm x 20.6mm
- Convex Physical Footprint: 21.9mm x 21.9mm
- Biopsy Guide: NGB-009, single angle, reusable

10 Peripheral Devices and

Accessories (Option)

- 10.1 Black/white digital video printer
 - MITSUBISHI P95DW-N
- 10.2 Black/white analog video printer
 - MITSUBISHI P93W-Z
 - SONY UP-X898MD
- 10.3 Color digital video printer
 - SONY UP-D25MD
- 10.4 Graph/text printer
 - HP Officejet Pro 8100
- 10.5 Gel warmer
 - Easily be disassembled off system for cleaning
 - Temperature
 - Light indicator:
- 10.6 Footswitch
 - USB port: FS-81-SP-2 (1-pedal)
 - USB port: 971-SWNOM (2-pedal)
 - USB port: 971-SWNOM (3-pedal)
 - Support User-definable functions (such as: Freeze, Save, Print)
- 10.7 ECG
 - 6-pin, AHA/IEC, for 3-lead wires
 - ECG wave display
 - Gain
 - Sweep speed
- 10.8 Barcode reader
 - Laser barcode scanner
 - Model: LS2208 (1D), DS4308 (2D)

10.9 Built-in Battery

- Replaceable and rechargeable lithium battery
- Restore from standby mode: less than 12s
- Full battery lasts more than 24h in standby mode
- Light indicator for standby mode
- Empty battery recharged to full in less than 4h
- Continuous working time of the main unit powered by the battery: no less than 75 mins.

11 System Inputs and Outputs

11.1 Video/Audio input

- Microphone

11.2 Video/Audio output

- S-Video out
- HDMI
- VGA out
- Audio out

11.3 Physio input

- Support ECG signal
- ECG

11.4 Other input/output

- USB
- Ethernet

12 Safety and Conformance

12.1 Quality standards

- ISO 9001

- ISO 13485

12.2 Design standards

- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-6 and IEC 60601-1-6
- EN 60601-2-37 and IEC60601-2-37
- EN 62304 and IEC 62304
- EN 62366 and IEC 62366
- EN ISO 17664 and ISO 17664

12.3 CE declaration

The DC-80A system is fully in conformance with the Council Directive 93/42/EEC Concerning Medical Devices. The number adjacent to the CE marking (0123) is the code of the EU-notified body that certified meeting the requirements of Annex II excluding (4). of the Directive.

NOTICE:

Not all features or specifications described in this document may be available in all probes and/or modes.

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