Resona 7

Premium | Innovative | Evolving

Color Doppler Ultrasound System

Datasheet

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1. System Overview

Powered by the most revolutionary ZONE Sonography® Technology, Resona 7's new ZST+ platform brings the ultrasound image quality to a higher level by zone acquisition and channel data processing.

1.1 Advantages of ZST+ platform

- Advanced Acoustic Acquisition
- Dynamic Pixel Focusing (DPF)
- Dynamic Pixel Focusing (DPF)
- Sound Speed Compensation (SSC)
- Total Recall Imaging (TRI)
- Powerful Processing Architecture
- Enhanced Channel Data Processing

1.2 Application

- Abdomen
- Obstetrics
- Gynecology/IVF
- Cardiology
- Small parts
- Urology
- Vascular
- Pediatrics
- Nerve
- Emergency & Critical
- Pelvic Floor
- Others

1.3 Transducer types

- Curved array transducer
- Linear array transducer
- Phased array transducer
- 4D Volume transducer

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
- UWN+(Ultra Wideband Non-linear Plus) Contrast Imaging™
- Smart 3D™ (Freehand 3D)
- 4D
- Volume CEUS
- iScape™ View (Panoramic Imaging)
- STE Imaging(Sound Touch Elastography)
- STQ Imaging(Sound Touch Quantification)
- Natural Touch Elastography Imaging
- V Flow (Vector Flow)

1.5 Features

- B-Mode
- THI and PSH™
- M-Mode
- Color Doppler Imaging
- Power Doppler Imaging and Directional PDI
- Pulsed Wave Doppler
- Continuous Wave Doppler
- Free Xros M™
- Free Xros CM™
- iBeam™ (Spatial Compound Imaging)
- iClear™ (Speckle Suppression Imaging)
- iTouch™ (Auto Image Optimization)
- Echo Boost™
- Zoom/iZoom (Full Screen Zoom)
- FCI (Frequency Compound Imaging)
- B steer
- ExFOV (Extended Field of View)
- HD Scope
- SSC(Sound Speed Compensation)
- Channel data processing
- Glazing Flow
- iClear+
- Smart 3D™
- Color 3D
- Real-time 4D
- STIC (Spatial-Temporal Image

Correlation)
- iPage+ (Multi-Slice Imaging)
- iLive
- SCV+ (Slice Contrast View)
- Niche
- Smart Planes CNS
- Smart FLC
- Smart Planes FH
- Smart Face
- Smart ICV
- Smart Scene 3D
- Smart-V™ (Smart Volume)
- Smart V Trace
- Smart OB™ (Auto OB measurement)
- Smart NT™ (Auto NT measurement)
- Smart Hip
- Smart HRI
- Smart Trace
- Clinical Measurement Package
- HR Flow™ (High Resolution Flow)
- Smart Track
- IMT
- RIMT (RF-Data based IMT)
- R-VQS (RF-Data based Quantitative Analysis on Vessel Stiffness)
- Smart Pelvic Floor
- IVF
- iScape™ View
- iNeedle™ (Needle Visualization Enhancement)
- V Flow
- UWN+ Contrast Imaging™
- Contrast Imaging QA(Quantitative Analysis)
- Volume CEUS
- STE Imaging(Sound Touch Elastography)
- STQ Imaging(Sound Touch Quantification)
- Natural Touch Elastography Imaging
- High frame rate STE
- iFusion
- ECG function
- Auto EF
- TDI (Include TVI, TVD, TVM, TEI)
- TDI QA (TDI Quantitative Analysis)
- TT QA (Tissue Tracking Quantitative Analysis)
- LVO (Left Ventricular Opacification)
- Stress Echo
- Smart Fetal HR (Fetal Heart Rate)
- CPP (Color Pixel Percentage)
- iStorage
- iWorks™ (Auto Workflow Protocol)
- DICOM
- MedSight
- MedTouch
- UltraAssist (Off-line software)
- UltraView™ (Off-line analysis software)
- Touch gestures
- 1TB hard drive
- 128G SSD(Solid State Drive)
- DVD R/W driver
- 5-USB ports
- Anti-virus software: McAfee, Windows Defender

1.6 Language support

- Software: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Turkish, Finnish, Danish, Icelandic, Norwegian, Swedish, Hungarian, Serbian, Dutch, Lithuanian, Greek, Thai
- Keyboard input: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Icelandic, Norwegian, Swedish, Finnish, Turkish, Danish, Hungarian, Serbian
- User manual: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Polish, Turkish, Norwegian, Serbian, Greek, Dutch, (Czech, Swedish, Hungarian only operation card available)

2 Physical Specification

2.1 Dimension and weight

The control panel and the monitor is in the lowest position, and the monitor is in the vertical position.

- Configured with lifting support arm and 21.5 inch monitor
  - ➢ Depth: 945±10 mm;
  - ➢ Width: 545±10 mm (main unit)/510±10 mm (control panel);
  - ➢ Height: 1360±10 mm
- Weight: approx. less than 134.4kg (net weight, standard configuration but not including the probe)

2.2 Audio speakers

Stereo audio speakers

2.3 Multi-directional articulating monitor arm

- Rotate angle:
  - ➢ Lifting support arm: 90±5 degrees (to left or to right)
- From front to back:
  - ➢ Lifting support arm: 290±20mm

2.4 Wheels

Diameter: 125mm

2.5 Central brake

- Left brake for total lock
- Right brake for swivel lock

2.6 Transducer port and holder

- Transducer ports with dust prevention: 4 active ports, 1 parking port, and 1 pencil probe port
- Support hot plug with active indicator lights
- Transducer holder: 5, plus 1 dedicated endocavity transducer holder
- Support transducer holder arbitrary sliding and swap

2.7 Electrical power

- Voltage: 100-127V~, or 220-240V~
- Frequency: 50/60 Hz
- Power consumption: Max. 1000 VA
- Circuit breaker: 250V~, 13A
- Thermal Output: 1877.13BTU/H

2.8 Operating Environment

- Ambient temperature: 0-40℃
- Relative humidity: 20%-85% (no condensation)
- Atmospheric pressure: 700hPa-1060hPa

2.9 Storage & Transportation Environment

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

3 User Interface

3.1 Floating control panel

- Brightness adjustable for the backlight of the whole control panel
- Full-sized, backlit QWERTY keyboard
- 8 programmable keys
- 8-segment TGC control
- Independent rotation and up/down, front/back adjustment

  -Left/right rotate angle range: 90 degrees

  -Down/up with electric lifting arm range: 200 mm

  -Front/back: 200 mm

3.2 Monitor

- 21.5-inch high resolution color LED monitor
- Resolution: 1920x1080
- Viewing angle: 178 degrees
- Digital on screen display of brightness and contrast controls
- Automatic LED brightness
- Tilt/Rotate independent adjustment
- Tilt angle range:100 degrees
- Rotate angle range: 180 degrees

3.3 Touch screen

- 13.3-inch high sensitivity anti-glare color touch screen

- Resolution: 1920*1080
- Digital brightness and contrast adjustment through preset
- Auto adjustment of the brightness
- Angle adjustable range: 30 degrees
- Viewing angle: 170 degrees
- Support touch screen gestures
- Support either hand writing or with gloves on

3.4 Touch gestures

- Swipe down/up: display/remove projected image on touch screen
- Swipe horizontally: page up/down or review images/cine loops one by one
- Swipe from left edge to right: display 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.

3.5 System boot-up

- McAfee not configured:
  - ➢ Boot-up from shut-down: <50 sec
  - ➢ Boot-up from stand-by: <10 sec
  - ➢ Enter into stand-by status: <5 sec
  - ➢ Shut-down: <30 sec
- McAfee configured:
  - ➢ Boot-up from shut-down:<90 sec
  - ➢ Boot-up from stand-by: <10 sec
  - ➢ Enter into stand-by status: <5 sec
  - ➢ Shut-down: <30 sec

3.6 Comments

- Supports text input and arrow
- Voice annotation: record voice as annotation for images and cine
- Support freehand marking on touch screen
- Adjustable text size and arrow size
- Supports home position
- Covers various application
- User customizable

3.7 Bodymark

- More than 230 bodymarks for versatile application
- User customizable

4 Imaging Parameters

4.1 Overview

- ZONE Sonography® Technology
- Up to 12,582,912 channels

4.2 B-mode

- Display formats:
- Single(B)
- Dual (B+B), support by B/ M/ Color/ Power/ PW/ CW/ Color M mode
- Quad (4B), support by B/ Color/ Power
- iClear™/ iClear+: Off, 7 steps
- iBeam™: Off, 3 steps
- iTouch™ : on/off
- FCI (Frequency Compound Imaging)
- Dual Live: On/off
- Image quality: Pen/Gen/Res/HPen/HGen/HRes/HGen-FFR/HRes-FFR (dependent on transducer)
- B steer: 5 levels, available on linear transducers
- ExFOV: off, 1-2 (dependent on transducer)
- Depth: 30 levels
- Frame rate (max): 1953 f/s
- Acoustic output power: dependent on transducer
- TGC: 8 pods on control panel
- LGC: 8 segments on touch screen
- Dynamic range: 30-260 (dependent on transducer)
- Gain: 0-100, 1/step
- FOV: continuously adjustable

- Line density: L/M/H/UH
- Persistence: 0-7 levels
- Horizontal Scale: on/off
- L/R flip and U/D flip: on/off
- Rotation: 0°, 90°, 180°, 270°
- TSI: general/muscle/fluid/fat
- Gray Map: 8 types
- Tint map: off, 8 types
- Echo Boost:
  Fundamental frequency: off, 1
  Harmonic frequency: off, 1, 2
- Smooth: 0-6 levels
- HD Scope: off, 1-3 levels
- SSC (Sound Speed Compensation): on/off
- Free view: -45°~45°, 5°/step
- Dehaze: 0-30 levels
- Ref Lines: on/off (under GYN and Pelvic Floor exam mode and using intracavity probe)
- V 1:1: on/off (available with linear probe and under dual-split mode)
- ExtImage: on/off

4.3 THI and PSH™

- Patent PSH™ technology, obtains purer harmonic, better contrast resolution, higher SNR, exceptional high frequency harmonic
- iClear™ available
- Image quality: HPen/HGen/HRes or HPen/ HPen-FFR/HGen/HRes/HRes-FFR (depends on transducers)
- Echo Boost™: off, 2 levels

4.4 M-mode

- Display formats: V2:3, V3:2, V3:1, H2:3, FULL (V: vertical, H: horizontal)
- Color M-mode available
- Acoustic output power: same as B
- Dynamic range: 30-180, 5/step
- Gain: 0-100, 1/step
- M sweep speed: 6 steps
- M soften: off, 0-4, 1/ step
- Tint map: off, 8 types
- Gray Map: 8 types
- Edge enhancement: 0-3, 1/ step

4.5 Color Doppler Imaging

- Dual live
- HR Flow™: High Resolution Flow provides better image quality and flow sensitivity
- Image quality: Pen/Gen/Res (color), 1 level (HR Flow)
- Max velocity: 293.4cm/s
- Steer: available on linear transducer
- Max frame rate: 650 f/s
- Acoustic output power: same as B mode
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Scale: max. 30 steps
- Baseline: -8 – 8, 1/step
- Wall filter: 8 steps, 5-3096Hz
- PRF: 0.1-15.2kHz
- Packet size: 0-3, 1/ step
- Flow state: L/M/H
- Smooth: 0-6, 1/ step
- B/C align: on/off
- Priority: 0%-100%, 1%/step
- Color map: V0-V10; VV0-VV9
- Invert: on/off
- Auto Invert: on/off
- Persistence: 0-6, 1/ step
- Velocity tag: on/off
- Line density: L/M/H/UH
- iTouch™: on/off
- Smart track: on/off
- ART Flow: Enhance the blood sensitivity and penetrability in time period
- Glazing flow: on/off, L/M/H

4.6 Power Doppler Imaging

- Dual live
- HR Flow™: High Resolution Flow provides better image quality and sensitivity
- Support directional power Doppler
- Image quality: Pen/Gen/Res (Power), 1 level (HR Flow)

- Acoustic output power: same as B
- Dynamic range: 10-70, 5/step
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Steer: available on linear transducers)
- Scale: max. 30 steps
- Wall filter: 8 steps
- PRF: max.15.2kHz
- Packet size: 0-3, 1/ step
- Flow state: L/M/H
- Smooth: 0-6, 1/ step
- B/C align: on/off
- Priority: 0%-100%, 1%/step
- Color map: 4 types
- Directional color map: 4 types
- Persistence: 0-6, 1/step
- Line density: L/M/H/UH
- Invert: on/off
- iTouch™: on/off
- Smart track: on/off
- ART Flow: Enhance the blood sensitivity and penetration in certain time period
- Glazing flow: on/off, L/M/H

4.7 PW/CW Mode

- Display formats: V2:3, V3:2, V3:1, H2:3, FULL, Duplex/Triplex(PW only) (V: vertical, H: horizontal)
- Image quality: Pen/Gen/Res
- PW velocity: max. 8.91m/s
  min. 2.21cm/s
- CW velocity: max. 38.5m/s
  min. 0.03m/s
- Sample volume size: 0.5-30mm (PW only)
- Sample gate depth: continuously adjustable
- Baseline: 9 steps
- PW Steer: available on linear transducer
- Volume: 0%-100%, 2%/step
- PW PRF: 0.7-31.3kHz
- CW PRF: 0.3-104.2kHz
- Gain: 0-100, 2/step
- Dynamic range: 24-72, 2/step
- Sweep speed: 6 steps
- Wall filter: 0 ~ 9 steps
- Invert: on/off
- Auto invert: on/off
- Angle correction: -89~89 degrees, 1/step
- Quick angle: 0, -60, 60 degrees
- Gray map: 10 types
- Tint map: Off; 8 types
- Time/frequency resolution: 0-6, 1/ step
- Auto calc: on/off
- Auto calc cycle: 1, 2, 3, 4, 5
- Auto Calc Loop: on/off
- Trace Sensitivity: 0-5, 1/step
- Trace Smooth: off, 1-4, 1/step
- Trace area: above, below, all

4.8 Free Xros M™

- Display formats: V2:3, V3:2, V 3:1, H2:3 (V: vertical, H: horizontal)
- Color Free Xros M available
- Up to 3 lines
- Display all lines
- Sweep speed: 6 steps
- M Tint map: off, 8 types
- Gray Map: 8 types

4.9 Free Xros CM™

- Only available in TDI mode
- Display formats: V2:3, V3:2, V 3:1, H2:3 (V: vertical, H: horizontal)
- Sweep speed: 6 steps
- Tint map: off; 8 types
- Gray Map: 8 types
- Edit, undo, delete function for curved line

4.10 iBeam™

- Spatial compound imaging
- Off, 1-3, 1/step

4.11 iClear™

- Speckle suppression imaging
- Available on B, 3D, 4D mode

4.12 iTouch™

- Auto image optimization

- B-mode: gain, TGC
- Color: gain, color box position
- Power: gain
- PW: gain, scale, PRF, WF, SV size, SV position, steering angle
- Contrast imaging: gain

4.13 Echo Boost™

- Available in cardiac exam mode when using a phased array probe
- Improve the homogeneity through the whole field of view
- Better noise control in cardiac chambers and muscles

4.14 Zoom

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

4.15 QSave

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

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

- Available on phased array transducers and probes SC8-2U/D8-4U/SC5-1U/SC6-1U/D8-2U
- Dual live: side by side displays B and B+TVI
- Max frame rate: 3201 f/s
- PRF: 0.4-15.2kHz
- Acoustic output power: same as B mode
- Gain: 0-100, 2/step
- Dynamic range: 10-70, 5/step (TEI only)
- ROI size/position: adjustable
- Scale: max. 30 steps
- Baseline: -8 – 8, 1/step (TVI only)
- Wall filter: 8 steps
- Packet size: 0-3,1/ step
- Tissue state: L/M/H
- Smooth: 0-6, 1/ step
- B/C wide: on/off
- Priority: 0%-100%, 1%/step
- Color map: 10 types (TVI), 8 types (TEI)
- Invert: on/off
- Persistence:0-6, 1/ step
- Velocity tag: on/off (TVI only)
- Line density: L/M/H/UH
- Image quality: 2 levels

4.17 Tissue Velocity Doppler (included in TDI option)

- Available on phased array transducers and probes SC8-2U/D8-4U/SC5-1U/SC6-1U/D8-2U
- Display formats: V2:3, V3:2, V3:1, H2:3, FULL, Duplex/Triplex (V: vertical, H: horizontal)
- Sample volume size: same as PW
- Sample gate depth: adjustable
- Sample volume depth: continuously adjustable
- Scale: 30 levels
- PRF: 0.7-23.1kHz
- Gain: 0-100, 2/step
- Dynamic range: 24-72, 2/step
- Sweep speed: 6 steps
- Wall filter: 10 steps
- Invert: on/off
- Angle correction: -89-89 degrees, 1/step
- Quick angle: 0, -60, 60 degrees
- Gray map: 10 types
- Tint map: Off; 8 types
- Image quality: 2 levels
- Time/frequency resolution: 0-6, 1/ step

4.18 Tissue Velocity Motion (included in TDI option)

- Display formats: V2:3, V3:2, V 3:1, H2:3, FULL (V: vertical, H: horizontal)
- Acoustic output power: same as B
- Gain: 0-100, 2/step
- M sweep speed: 6 steps
- Smooth: 0-6, 1/ step

- Color Map: 10 types
- Image quality: 2 levels
- Persistence: 0-6, 1/ step
- Packet size: 0-3, 1/ step
- Priority: 0%-100%, 1%/step
- Velocity tag: on/off
- Tissue state: L/M/H

4.19 Smart 3D™

- Smart 3D
  - Acquisition Method: Rocked, Linear
  - VR Refine: Off; 7 steps
  - VR: on/off, select volume rendered image
  - MPR: on/off, select A, B and C plane
  - Display formats: MPR only/ asymmetric
  - VOI: on/off
  - Reset: all, orientation, reset curve
  - Active quadrant: A, B, C, VR
  - VR orientation: 0°, 90°, 180°, 270°
  - Inversion: on/off
  - Accept VOI: on/off
  - Flip: flip VR
  - Sync: synchronize VR with selected plane
  - Render modes: Surface, Min, Max, iLive, X-ray
  - iLive: Classic, Int Point, Ext Point, Parallel, Torch, 3-Light, User1-2
  - View direction: down/up, left/right, front/back
  - Threshold: 0%-100%, 1%/step (only on VR)
  - MagiClean: Off/ Low/ Mid/ High/ Max
  - Depth VR: Off/ Black/ Cyan/ Blue/ Rose
  - Thickness: 0-30mm (only on MPR)
  - Surface enhance: 0-7, 1/step
  - Opacity: 0%-100%, 5%/step (only on VR)
  - Smooth: 0-10, 1/ step
  - Tint: off; 8 types
  - Brightness: 0%-100%, 2%/step
  - Contrast: 0%-100%, 2%/step
  - VR fusion: Set the main render mode and sub render mode and the mix ratio of the two render modes
- Tool: Auto rotation
  - Rotation control: play, single loop, loop
  - Direction: left/right, up/down
  - Position: Set Start/Set end
  - Range: 30°, 45°, 60°, 90°, 120°, 180°
- Edit
  - Eraser: Soft eraser/ hard eraser,
  - Eraser Diameter: 8-80, 1/step
  - Cut (area selection): polygon, contour, rectangle, line
  - Undo: undo, undo all
- 3D Reference Point
  - Enable the operator to define one or more reference points on MPRs, which are then projected to VR image; helpful for the operator to better understand the corresponding spatial relations of VR image and MPRs.
  - Display: Point only, H line, V line
  - Delete All
  - Hide All

4.20 4D

- Available on all volume transducers
- Static 3D and 4D
  - 4D frame rate: max. 80 vps
  - 3D iClear: Off; 7 steps
  - VR Refine: Off, 1-7, 1/step
  - VR: on/off, select volume rendered image
  - MPR: on/off, select A, B and C plane
  - Display formats: MPR only/asymmetric
  - VOI: on/off
  - Reset: all, orientation, reset curve
  - Active quadrant: A, B, C, VR
  - VR orientation: 0°, 90°, 180°, 270°
  - Inversion: on/off
  - Accept VOI: on/off

- Flip: flip VR
- Sync: synchronize VR with selected plane
- Render modes: Surface, Min, Max, X-ray, iLive
- iLive: Classic, Int Point, Ext Point, Parallel, Torch, 3-Light, User1-2
- View direction: down/up, left/right, front/back
- Threshold: 0%-100%, 1%/step (only on VR)
- Thickness: 0-30mm (only on MPR)
- MagiClean: Off/ Low/ Mid/ High/ Max
- Depth VR: Off/ Black/ Cyan/ Blue/ Rose
- Hyaline: 0%-100%
- Opacity: 0%-100%, 5%/step (only on VR)
- Smooth: 0-10, 1/ step
- Brightness: 0%-100%, 2%/step
- Contrast: 0%-100%, 2%/step
- Tint: off; 8 types
- Surf. Enhance: 0-7, 1/ step
- VR fusion: Set the main render mode and sub render mode and the mix ratio of the two render modes

• Color 3D
- Available on volume transducers
- Supports Color and Power mode
- Only Available in Static 3D mode

• STIC
- Color STIC available
- Acquiring Time: 7.5s, 10s, 12.5s, 15s, 17.5s
- Support iPage+ viewing
- CMPR available
- SCV+ available
- 3 Slice and Niche available

• iPage+
- Slice display mode: Slice only, Slice with SCV
- Slice cut direction: Horizontal and Vertical
- Slice layout: 2*2, 3*3, 4*4, 5*5
- Active quadrant: A plane, B plane, or C plane
- Reset: Reset Ori
- Spacing: 0.5-10mm, 0.1mm/step
- Thickness： 0.0-10mm
- Slice Number: ranging from 3 to max. 25, depends on slice layout.
- Slice Position: a unique number for current selected slice.
- Brightness: 0%-100%, 2%/step
- Contrast: 0%-100%, 2%/step

• SCV+
- Display mode: SCV only, SCV+ CMPR
- Reset: All
- Thickness: 0-30mm, 1mm/step
- Active quadrant: A, B, C
- Brightness: 0%-100%, 2%/step
- Contrast: 0%-100%, 2%/step
- Render modes: Surface, Max, Min, X-ray
- Rotate RL: Only in CMPR
- 3D iClear: off, 1-7
- Opacity: 0%-100%, 5%/step (Only in CMPR)
- Trace Options: Line, Trace, Spline (Only in CMPR)
- Reset Curve, undo last
- SCV fusion: Set the main render mode and sub render mode and the mix ratio of the two render modes (when thickness is on)
- Support labeled measurements

• 3D Layout
- 3 Slice
- Niche
- Reset: All, Reset Curve, Reset Ori
- Active Quadrant: A, B, C, Niche
- Niche Views: Inner, Outer

• 3D Reference Point
- Enable the operator to define one or more reference points on MPRs, which are then projected to VR image; helpful for the operator to

better understand the corresponding spatial relations of VR image and MPRs.
- Display: Point only, H line, V line
- Delete All
- Hide All

- iLive
  - Shading: 0-10, 1/step
  - Move Light
  - Light Position: 6 default positions selectable
  - Grad View
  - Hyaline: on/off, 0~100%, 5%/step
  - Light 1/2/3: off, parallel, point, torch
  - VL Saturation: 0~100%, 1%/step
  - VL Hue: 0~100%, 1%/step
  - VL Distance: 0.0 – 5.0
  - VL Angle: 0~100%, 1%/step
  - Reset Classic/ IntPoint/ ExtPoint/ Parallel/ Torch/ 3-Light/ User 1/ User 2
  - Copy to: Copy the current lighting mode to customized lighting mode "User 1" or "User 2"
- Smart Planes CNS
  - Detect automatically the standard sections of TCP, TTP, MSP and TVP
  - Rotation around X/Y/Z axes
  - Reference line: hide/show, rotation
  - Reset: All planes/ current plane
  - Thickness: 0-30mm, 1mm/step
  - 3D iClear: off, 1~7, 1/step
  - Brightness: 0%-100%, 2%/step
  - Contrast: 0%-100%, 2%/step
  - Auto comment supported: A(anterior), P(posterior), L(Left), R(Right), U(Up), D(down), CSP, T, CH, CV, CM, LV on TCP, TTP, MSP and TVP
  - Auto comment supported: A(anterior), P(posterior), L(Left), R(Right), U(Up), D(down), CSP, T, CH, CV, CM, LV on TCP, TTP, MSP and TVP
  - Auto measurement supported:
  - TCD and Cist Maga (CM) on section TCP;
  - BPD, OFD and HC on section TTP;
  - LVW on section TVP
  - Support editing measurement results
  - Hide/show measurement results
  - MSP adjust: A/B/C
  - Support comment and bodymark on sectional plane
  - Smart ICV
    Measure fetal cerebral volume automatically
- 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: 0~3
  - SubTint: select the obstacle display color
  - Eraser: For Rubber/Re-Rubber
  - AutoDirect
  - FaceContact: -15~15
  - VR Orientation: 0°, 90°, 180°, 270°
- Smart FLC (Smart Follicle)
  - Automatic follicle calculation
  - Edit ROI and detect follicle contour automatically
  - Undo: Undo, Redo, Undo All
  - Active Quadrant: A, B, C, Follicle
  - Calc: Off/On
  - Edit: Off/On
  - Edit: Divide, Merge, Add/Del
- Auto rotation
  - Rotation control: play, single loop, loop
  - Direction: left/right, up/down
- Edit:
  - Area selection: polygon, contour,

rectangle, line
- Undo: undo, undo all

- Smart-V™ (Smart Volume)
  - Auto 3D volume calculation
  - Smart-V ROI: Manual ROI on A, B, C plane separately
  - Smart-V Trace: Manual trace on A, B, C plane separately
  - Smart-V Vocal: Trace contours on each slice separately
  - Auto detect contour of target
  - Volume result shows in result window
  - Reset: orientation
  - Active Quadrant: A, B, C, Smart-V
  - Support MRP measurement
- Smart Scene 3D
  - Available in GYN, OB2 or OB3 exam mode
  - Not available on Smart 3D mode
  - Adjust ROI size and position automatically and activate appropriate render modes according to the recognized anatomical structure of certain organs

4.21 Smart Track
- Available on linear probes
- 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.

4.22 RIMT (RF-Data based IMT)
- Available 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

4.23 iScape™ View
- Acquisition method: B and Power
- Supports speed indicator
- Actual size: on/off
- Fit size: on/off
- Ruler: on/off
- Tint map: off; 8 types
- Rotation: 0~355 degrees, 5/step

4.24 iNeedle
- Needle visualization enhancement
- Available on SC5-1U, SC6-1U and all linear transducers (except ELC13-4U)
- Needle direction: left, right
- B/iNeedle: on/off

4.25 Needle Navigation Guiding:
- Available on C5-1U/ SC8-2U/ L11-3U/ SP5-1U/ SC6-1U/ SC5-1U/ L14-5WU/ C6-2GU/ C4-1U/ L14-3WU/ C6-2Gs
- In-plane biopsy and Out-plane biopsy
- GPS real-time guiding biopsy

4.26 V Flow (Vector Flow)
- Available on L11-3U/L9-3U/L14-3WU in real-time B/Color carotid exam mode
- Quality: 1-8, 1/step
- V Flow map: 4 levels
- Gain: 0-8, 1/step
- Persistence: 0-5, 1/step
- Edge smooth: Low/Mid/High
- Wall filter: 8 steps
- Brightness: 0-100%, 5%/step
- Colorbar scale: 50-100cm/s, 10cm/s/step
- Arrow life time: 10-50, 1/step
- Arrow size: S/M/L/XL/XXL
- Arrow density: 1%-10%,1%/step
- Vector Flow Quantitative Analysis: Single point-time curve, ROI speed-time curve, velocity ratio
- Flow Volume Calculation
- WSS (Wall Shear Stress)

4.27 UWN+ Contrast Imaging™*

- UWN+ (Ultra Wideband Non-linear Plus) contrast imaging technology, which provides exceptional contrast agent detecting capability, not only extracts second harmonic, but also non-linear fundamental signals
- Available on C5-1U, SC8-2U, V11-3HU, D8-4U, L11-3U, SP5-1U, SC6-1U, SC5-1U, L20-5U, L9-3U, L14-5WU, C6-2GU, C11-3U, L16-4HU, L16-4Hs, C4-1U, DE10-3WU, D8-2U, ELC13-4U, L14-3WU, C6-2Gs
- Micro Flow Enhancement (MFE) available
- Timer1: on/off
- Timer2: on/off
- Pro capture: captures prospective image less than 480s preset table
- Retro capture: captures retrospective image less than 120s preset table
- Dual live: side by side displays tissue image and contrast image
- MFE: on/off
- MFE period: 0.1s, 0.2s, 0.4s, 0.6s, 0.8s, 1.0s, MAX
- Destruct: instantly destroy contrast bubbles
- Destruct AP: -30~0 dB, 0.3/step
- Destruct time: 500-2000 ms
- iClear: off; 7 steps
- Mix: mix contrast image with tissue image
- Mix map: 7 types, available when Mix mode is active
- Persistence: 8 steps
- Dynamic range: same as B mode
- Gray map: 8 types
- Tint map: off; 8 types
- Supports U/D Flip and L/R Flip
- Rotation: same as B mode
- CEUS Position: on/off
- Line density: L/M/H/UH
- FOV: on/off
- FOV size/position: continuously adjustable
- ExFov: off, 1-2, 1/step
- Gain: 0-100, 1/step
- iTouch: on/off, -8~8, 2/step
- Image quality: 3 levels
- Smooth: 0-6, 1/step
- Enhance: on/off
- Markline: on/off
- LGC: 8 points

*The RESONA series 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.

4.28 Contrast Imaging QA

- Support Time-Intensity Curve analysis
- Table display: display data in table
- Freehand ROI: manually deploy ROI on the cine
- Up to 8 ROIs
- Delete all
- Delete current
- Fit curve
- Raw curve
- Motion tracking: Reduce the effect of tissue movement
- X scale: 1-5, 1/step
- Export: export current data as CSV format file

4.29 LVO

- Only available in cardiac exam mode
- Dedicated left ventricle contrast imaging tool

4.30 Volume CEUS

- Available on D8-4U, D8-2U and DE10-

3WU

- Timer1: on/off
- Timer2: on/off
- Capture 3D image

4.31 STE Imaging (Sound Touch Elastography Imaging)

- Available on C5-1U, V11-3HU, L14-6WU, L11-3U, SC6-1U, SC5-1U, L20-5U, L9-3U, L14-5WU, C6-2GU, C4-1U, DE10-3WU, ELC13-4U, L14-3WU, C6-2Gs
- Display Format: V1:1, H1:1, FULL
- Invert: on/off
- HQ Elasto: on/off
- E Quality: Pen, Gen, Res
- Elas.Metric: E, Cs, G
- Scale: 30 levels
- Opacity: 0-5, 1/step
- Map: 3 types
- ROI Width/Height: continuously random adjustable
- ROI Center Depth: continuously adjustable
- Depth: same as B mode
- iLayering: on/off
- Filter: 0, 1
- RLB View: on/off
- M-STB Index: on/off
- M-STB Sensibility: 0~4, 1/step
- iNatural: on/off
- Smooth: 0~2, 1/step
- Persistence: 0~2, 1/step
- RLB Map: on/off, RLB, RLB&E, RLB&B&E
- Map Position: 0%~100%, 5%/step
- E bar: Mean, Max, Min, SD
- E Avg: off, 8 levels
- Select/Bad: on/off

4.32 Natural Touch Elastography

- Available on L11-3U/L14-6WU/LM16-4U/L20-5U/L9-3U/L14-5WU/L16-4HU/L16-4Hs/7LT4s/L14-3WU/ELC13-4U/V11-3HU/DE10-3WU
- Support strain, strain ratio and strain histogram measurement
- Unique shell analysis function
- Stress compensation technology reduces deeper tissue artifacts, obtain more uniform stress throughout whole field
- Stress indicator: supports frame by frame stress indication.
- Map: 6 types
- Smooth: 0-5, 1/ step
- Opacity: 0-5, 1/step
- ROI Width/height: continuously adjustable
- Invert: on/off
- Display Format: V1:1, H1:1, FULL
- Strain mode: 0~1, 1/step
- Dynamic Range: 0~5, 1/step
- Map Position: 0%~100%, 5%/step

4.33 STQ Imaging (Sound Touch Quantification Imaging)

- Available on C5-1U, V11-3HU, L14-6WU, L11-3U, SC6-1U, SC5-1U, L20-5U, L9-3U, L14-5WU, C6-2GU, C4-1U, DE10-3WU, ELC13-4U, L14-3WU, C6-2Gs
- ROI Adjustment: adjust the ROI fixed size
- Elasto Curve and Metric: E, Cs, G
- E bar: Mean, Max, Min, SD
- M-STB Index: On/Off
- M-STB Sensibility: 0-4, 1/step
- Filter: 0, 1
- Smooth: 0-2, 1/step
- Persistence: 0-2, 1/step
- HFElasto: On/Off
- Map Position: 0~100%, 5%/step
- Lesion: off, 1~10

The square height of the elasto curve represents the average value of the elasto metric for current frame.

- Scale: 0-9, 1/step
- E Avg: off, 8 levels
- HQElasto: on/off

4.34 iFusion

- Available on C5-1U/SC8-2U/V11-

3HU/L11-3U/SP5-1U/SC6-1U/SC5-1U/C6-2GU/L14-5WU/C4-1U/ELC13-4U/L14-3WU/C6-2Gs in B/ Color/ Power/ contrast imaging mode (non-cardiac)
- Single window display
- Fusing CT/MR/PET/freehand volume data with the ultrasonic image
- CT/MR/PET data reconstruction for 3D displaying
- Tracking system: on/off
- Fusion ratio: -1~1, 0.1/step
- Axis rotation: 0° ~ 360° based on X-axis, Y-axis or z-axis in increment of 2°.
- ROI Offset X: -550~550
- ROI Offset Y: -553~553
- Window W/L: 1/step. Adjust the CT/MR/PET/freehand brightness and the contrast by changing the width and the level.
- Reset Window W/L
- Reset CT/MR
- Display marks
- Respiration curve: on/off
- Respiration Range: 0/1/2
- Support general measurement
- Support adding comment and bodymark

4.35 AutoEF
- 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: Dual/ Single
- Diastole FR
- Systole FR
- Volume curve: on/off

4.36 TDI QA
- Dedicated quantification tool for TDI velocity, strain, strain rate analysis
- Ellipse ROI, Standard ROI
- Up to 8 of ROI
- Delete all
- Delete current
- ROI tracking: tracking ROI along with cardiac movement
- Smooth: 1-7, 1/step
- X scale: 1-5,1/step
- Std.Height: 1.5-50 mm
- Std.Width: 1.5-50 mm
- Std.Angle: -89-90 degrees
- Export: export current data as CSV format file

4.37 TT QA
- Available on the phased probes in adult cardiac, cardiac-difficult (car-penetration), and pediatric cardiac exam modes.
- Tissue tracking quantitative analysis
- Mandatory ECG connection before TT QA cine acquisition
- Six views for analysis: ALAX, A4C, A2C, PSAXB, PSAXM, PSAXAP
- Reload: reload cine again for new study
- Edit: modify trace points
- Start tracking
- Accept & compute: start tracking myocardium movement when user accept trace result
- Display effect: 0/1; at 0, tracking in velocity vector arrow; at 1, tracking in dots
- Trace method: 3 point or manual for ALAX, A4C, A2C; manual for PSAXB, PSAXM, PSAXAP
- Bull's eye: trace result in bull's eye model
- LGC: available
- Valve's open and close time index: MVC, MVC', AVC, AVO, MVO
- Data export: export data in CSV file
- Cycle: ECG triggered cardiac cycle recognition for analysis; adjustable
- Auto play: stop, X1/10, X1/5, X1/4,

X1/3, X1/2, X1, X2, X3

- Thickness: 1-30mm, 1mm/step; adjust trace thickness
- Track point: 20-40, 1/step
- Parameter: Volume, Speed, Displacement, L Strain, L Strain R, T Strain, T Strain R, Area, R Strain, R Strain R, C Strain, C Strain R, Global Strain, Global Strain-rate
- Smooth: 0-4, 1/step
- Display effect: 0, 1
- Trace method: 3 point, manual
- Tracking cycles: 1, 3
- Blue's Eye view
- Curve Display
- Torsion & Torsion Rate Curve
- LGC adjustment

4.38 Stress Echo

- Available on the phased probes in cardiac 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: up to 6 views per stage, and up to 12 stages per study
- View: standard views (PSLA, PSAX, A4C,A2C), and customized views
- Image acquisition
  - R-wave trigger
  - Acquire mode: Manual ROI or full screen
  - 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

4.39 R-VQS

- Track movements of the upper and lower vessel walls automatically
- Displacement and Vessel diameter display in the result window.
- Motion curve of vessel walls display under the image in real time.
- Side: left, right
- Speed: 6 levels
- Position: 0-100%
- Curve Disp: Adjust the height of the curve

4.40 Smart Pelvic

- Enter smart pelvic in 2D or 3D/4D scanning mode.
- Set Rest and Valsalva frame
- Measure automatically

4.41 Smart Fetal HR (Fetal Heart Rate)
Measure the fetal heart rate automatically on M mode

5 Cine Review and Raw Data Processing

5.1 Cine review

- Available in all modes
- Frame by frame manual cine loop review or auto playback with variable speed
- Maximum cine memory up to 42601 frames (B storage server) or 129.35s (M storage server) (depends on the

mode)

- Maximum 4D cine memory: 22151 volumes
- Retrospective storage (1-120s, or 1-120 cycles, pre-settable) and prospective storage (1-480s, or 1-390 cycles, pre-settable)
- Frame compare: displays one cine in dual format and allows frame by frame compare side by side
- Cine compare: compare cines which are saved in same imaging mode
- Jump to first and jump to last: one keystroke go to first or last frame in the cine

5.2 Raw data processing

- B-mode:
  TGC
  Gain
  Dynamic range
  Gray map
  Tint map
  iClear™/iCLEAR
  L/R Flip
  U/D Flip
  Rotation
  iTouch
  LGC
  Dual live
  Auto Merge
  H Scale
  Echo Boost
  Smooth
  Zoom
  Dehaze
  V1:1
  ExtImage
- M-mode:
  Gain
  Speed
  Dynamic Range
  Gray Map
  Tint Map
  Display format
- Color:
  Gain
  Baseline
  Smooth
  Color map
  Priority
  Dual Live
  Invert
  Velocity tag
  Glazing flow
- PW:
  Gain
  Baseline
  Volume
  Angle
  Speed
  Dynamic range
  Gray map
  Tint Map
  Display format
  Invert
  WF
  Quick Angle
  T/F Res

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
Elas.
Strain
TSM
Color Pixel Percent(Ellipse)
Color Pixel Percent(Trace)
Color Pixel Percent(Rectangle)
Color Pixel Percent(Recall)
Smart Trace

Volume
Volume(Ellipse)
Volume(E+Dist.)
Ratio(D)
B Ratio

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

6.2 AutoCalc

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

HR

6.3 Clinical option measurement package

- Abdominal

B-Mode

Aorta AP
Aorta Trans
Aorta Bif
Aorta Aneurysm Long
Aorta Aneurysm AP
Aorta Aneurysm Trans
Aorta Aneurysm Status
Shunt Diam
Portal V Diam
M Portal V Diam
PS Conflnc Diam
Renal V Diam
SMV Diam
IMV Diam
Liver L
Liver H
Liver W
CHD
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
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
GB L
GB H
GB W
GB wall th
Cystic Duct
CBD
Panc duct
Panc head
Panc neck
Panc body
Panc tail
Appendix
Appendix Wall
Pylorus
Pylorus Wall
Renal L
Renal H
Renal W
Cortex
Adrenal L
Adrenal H
Adrenal 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
Ureter
Cortex(Renal Transplant1)
Renal V Diam(Renal Transplant1)
Ureter Diam(Renal Transplant1)
Cortex(Renal Transplant2)
Renal V Diam(Renal Transplant2)
Ureter Diam(Renal Transplant2)

Pre-BL L
Pre-BL H
Pre-BL W
Post-BL L
Post-BL H
Post-BL W
Spleen L
Spleen H
Spleen W
Spleen Area
Splenic A Diam
Splenic V Diam
Skin-L.Capsule Dist.
Hepatic Lesion1 Elas.
Hepatic Lesion2 Elas.
Hepatic Lesion3 Elas.
LSM
Free Fluid
Iliac Diam
Smart HRI

Aorta Sten D
Aorta Sten A
Renal Vol
Pre-BL Vol
Post-BL Vol
Mictur.Vol

Aorta Aneurysm
    Aorta Aneurysm Long
    Aorta Aneurysm AP
    Aorta Aneurysm Trans
Celiac Axis
    Anterior-Posterior
    Transverse
SMA
    Anterior-Posterior
    Transverse
C Hepatic A
    Anterior-Posterior
    Transverse
Proper Hepatic A
    Anterior-Posterior
    Transverse
Hepatic A
    Anterior-Posterior
    Transverse
Splenic A
    Anterior-Posterior
    Transverse
GDA
    Anterior-Posterior
    Transverse
IMA
    Anterior-Posterior
    Transverse
Celiac A Aneurysm
    Long
    Anterior-Posterior
    Transverse
SMA Aneurysm
    Long
    Anterior-Posterior
    Transverse
C Hepatic A Aneurysm
    Long
    Anterior-Posterior
    Transverse
Proper Hepatic A Aneurysm
    Long
    Anterior-Posterior
    Transverse
Hepatic A Aneurysm
    Long
    Anterior-Posterior
    Transverse
Splenic A Aneurysm
    Long
    Anterior-Posterior
    Transverse
GDA Aneurysm
    Long
    Anterior-Posterior
    Transverse
IMA Aneurysm
    Long
    Anterior-Posterior
    Transverse

- EVAR Residual Aneurysm Sac(2D)
  - Anterior-Posterior
  - Transverse
- EVAR Inflow(2D)
  - Anterior-Posterior
  - Transverse
- EVAR Graft Body(2D)
  - Anterior-Posterior
  - Transverse
- EVAR Limb(2D)
  - Anterior-Posterior
  - Transverse
- EVAR Outflow(2D)
  - Anterior-Posterior
  - Transverse
- Aortic Bypass Graft Anast(2D)
  - Anterior-Posterior
  - Transverse
- Aortic Bypass Graft Graft(2D)
  - Anterior-Posterior
  - Transverse
- ABD Stenosis 1(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- ABD Stenosis 2(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- ABD Stenosis 3(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- ABD Stenosis 4(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- IVC
  - Anterior-Posterior
  - Transverse
  - Checklist
- Hepatic V(2D)
  - Anterior-Posterior
  - Transverse
- Lt Hepatic V(2D)
  - Anterior-Posterior
  - Transverse
- M Hepatic V(2D)
  - Anterior-Posterior
  - Transverse
- Rt Hepatic V(2D)
  - Anterior-Posterior
  - Transverse
- R Liver Lobe
  - H
  - W
  - L
- L Liver Lobe
  - H
  - W
  - L
- 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
- GB
  - GB L
  - GB H
  - GB W
  - GB wall th
- GB Finding 1
  - d1
  - d2
  - d3
- GB Finding 2
  - d1
  - d2
  - d3
- GB Finding 3
  - d1
  - d2
  - d3
- GB Finding 4
  - d1
  - d2
  - d3
- GB Finding 5
  - d1
  - d2
  - d3
- Panc Finding 1
  - d1
  - d2
  - d3
- Panc Finding 2
  - d1
  - d2
  - d3
- Panc Finding 3
  - d1
  - d2
  - d3
- Panc Finding 4
  - d1
  - d2
  - d3
- Panc Finding 5
  - d1
  - d2
  - d3
- 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
- Kidney(Superior)

H
W
Kidney(Mid)
H
W
Kidney(Inferior)
H
W
Renal A
Long
Anterior-Posterior
Transverse
Renal A Aneurysm
Long
Anterior-Posterior
Transverse
Kidney(Renal Transplant1)
H
W
L
Adrenal(Renal Transplant1)
H
W
L
Finding 1(Renal Transplant1)
H
W
L
Finding 2(Renal Transplant1)
H
W
L
Finding 3(Renal Transplant1)
H
W
L
Finding 4(Renal Transplant1)
H
W
L
Finding 5(Renal Transplant1)
H
W
L
Finding 6(Renal Transplant1)
H
W
L
Renal Transplant 1(2D)
Cortex(Renal Transplant1)
Renal V Diam(Renal Transplant1)
Ureter Diam(Renal Transplant1)
Kidney(Renal Transplant1)
H
W
L
Adrenal(Renal Transplant1)
H
W
L
Finding 1(Renal Transplant1)
H
W
L
Finding 2(Renal Transplant1)
H
W
L
Finding 3(Renal Transplant1)
H
W
L
Finding 4(Renal Transplant1)
H
W
L
Finding 5(Renal Transplant1)
H
W
L
Finding 6(Renal Transplant1)
H
W
L
Kidney(Renal Transplant2)
H

W
L
Adrenal(Renal Transplant2)
H
W
L
Finding 1(Renal Transplant2)
H
W
L
Finding 2(Renal Transplant2)
H
W
L
Finding 3(Renal Transplant2)
H
W
L
Finding 4(Renal Transplant2)
H
W
L
Finding 5(Renal Transplant2)
H
W
L
Finding 6(Renal Transplant2)
H
W
L
Renal Transplant 2(2D)
Cortex(Renal Transplant2)
Renal V Diam(Renal Transplant2)
Ureter Diam(Renal Transplant2)
Kidney(Renal Transplant2)
H
W
L
Adrenal(Renal Transplant2)
H
W
L
Finding 1(Renal Transplant2)
H
W
L
Finding 2(Renal Transplant2)
H
W
L
Finding 3(Renal Transplant2)
H
W
L
Finding 4(Renal Transplant2)
H
W
L
Finding 5(Renal Transplant2)
H
W
L
Finding 6(Renal Transplant2)
H
W
L
Bladder
Pre-BL L
Pre-BL H
Pre-BL W
Post-BL L
Post-BL H
Post-BL W
Spleen
Spleen L
Spleen H
Spleen W
Spleen Area
Hepatic Lesion1 ElasRatio
A
B
Hepatic Lesion2 ElasRatio
A
B
Hepatic Lesion3 ElasRatio
A

B

D-Mode

- Aorta
- Celiac Axis
- SMA
- C Hepatic A
- Proper Hepatic A
- Hepatic A
- Splenic A
- GDA
- IMA
- Aorta(Post)
- Celiac Axis(Post)
- SMA(Post)
- C Hepatic A(Post)
- Proper Hepatic A(Post)
- Hepatic A(Post)
- Splenic Artery(Post)
- GDA(Post)
- IMA(Post)
- EVAR Residual Aneurysm Sac
- EVAR Inflow
- EVAR Graft Body
- EVAR Limb
- EVAR Outflow
- Aortic Bypass Graft Anast
- Aortic Bypass Graft Graft
- IVC Reflux
- IVC
- Hepatic V
- Lt Hepatic V
- M Hepatic V
- Rt Hepatic V
- Portal V
- M Portal V
- Splenic V
- Renal V
- SMV
- IMV
- Hepatic A Anast(Liver Transplant)
- Hepatic V Anast(Liver Transplant)
- Portal V Anast(Liver Transplant)
- IVC(Liver Transplant)
- Hep V Confl(Liver Transplant)
- Donor IVC(Liver Transplant)
- Renal A
- Ren A Org
- M Renal A
- Renal A1
- Renal A2
- Hilum
- Interlobar A
- Arcuate A
- Segment A
- Artery Anast(Renal Transplant1)
- Artery Anast 2(Renal Transplant1)
- Vein Anast(Renal Transplant1)
- Vein Anast 2(Renal Transplant1)
- Renal A(Renal Transplant1)
- Renal A1(Renal Transplant1)
- Renal A2(Renal Transplant1)
- Hilum(Renal Transplant1)
- Interlobar A(Renal Transplant1)
- Arcuate A(Renal Transplant1)
- Segmental A(Renal Transplant1)
- Renal Vein 1(Renal Transplant1)
- Renal Vein 2(Renal Transplant1)
- Artery Anast(Renal Transplant2)
- Artery Anast 2(Renal Transplant2)
- Vein Anast(Renal Transplant2)
- Vein Anast 2(Renal Transplant2)
- Renal A(Renal Transplant2)
- Renal A1(Renal Transplant2)
- Renal A2(Renal Transplant2)
- Hilum(Renal Transplant2)
- Interlobar A(Renal Transplant2)
- Arcuate A(Renal Transplant2)
- Segmental A(Renal Transplant2)
- Renal Vein 1(Renal Transplant2)
- Renal Vein 2(Renal Transplant2)
- TIPS

- SMA/Ao
- CA/Ao

- ABD Stenosis 1
  - Pre Sten
  - Sten

Post Sten
ABD Stenosis 2
Pre Sten
Sten
Post Sten
ABD Stenosis 3
Pre Sten
Sten
Post Sten
ABD Stenosis 4
Pre Sten
Sten
Post Sten
Renal Transplant 1(Doppler)
Artery Anast(Renal Transplant1)
Artery Anast 2(Renal Transplant1)
Vein Anast(Renal Transplant1)
Vein Anast 2(Renal Transplant1)
Renal A(Renal Transplant1)
Renal A1(Renal Transplant1)
Renal A2(Renal Transplant1)
Hilum(Renal Transplant1)
Interlobar A(Renal Transplant1)
Arcuate A(Renal Transplant1)
Segmental A(Renal Transplant1)
Renal Vein 1(Renal Transplant1)
Renal Vein 2(Renal Transplant1)
Renal Transplant 2(Doppler)
Artery Anast(Renal Transplant2)
Artery Anast 2(Renal Transplant2)
Vein Anast(Renal Transplant2)
Vein Anast 2(Renal Transplant2)
Renal A(Renal Transplant2)
Renal A1(Renal Transplant2)
Renal A2(Renal Transplant2)
Hilum(Renal Transplant2)
Interlobar A(Renal Transplant2)
Arcuate A(Renal Transplant2)
Segmental A(Renal Transplant2)
Renal Vein 1(Renal Transplant2)
Renal Vein 2(Renal Transplant2)

- Gynecology/IVF

B-Mode
UT L
UT H
UT W
Cervix L
Cervix H
Cervix W
Endo
Ovary L
Ovary H
Ovary W
Follicle1 L
Follicle1 W
Follicle1 H
Follicle2 L
Follicle2 W
Follicle2 H
Follicle3 L
Follicle3 W
Follicle3 H
Follicle4 L
Follicle4 W
Follicle4 H
Follicle5 L
Follicle5 W
Follicle5 H
Follicle6 L
Follicle6 W

Follicle6 H
Follicle7 L
Follicle7 W
Follicle7 H
Follicle8 L
Follicle8 W
Follicle8 H
Follicle9 L
Follicle9 W
Follicle9 H
Follicle10 L
Follicle10 W
Follicle10 H
Follicle11 L
Follicle11 W
Follicle11 H
Follicle12 L
Follicle12 W
Follicle12 H
Follicle13 L
Follicle13 W
Follicle13 H
Follicle14 L
Follicle14 W
Follicle14 H
Follicle15 L
Follicle15 W
Follicle15 H
Follicle16 L
Follicle16 W
Follicle16 H
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
Lesion1 Elas.
Lesion2 Elas.
Lesion3 Elas.
Fibroid1 Strain
Fibroid2 Strain
Fibroid3 Strain
Fibroid1 Elas.
Fibroid2 Elas.
Fibroid3 Elas.

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 L
    Follicle1 W
    Follicle1 H
Follicle2
    Follicle2 L
    Follicle2 W
    Follicle2 H
Follicle3
    Follicle3 L
    Follicle3 W
    Follicle3 H
Follicle4
    Follicle4 L
    Follicle4 W
    Follicle4 H
Follicle5
    Follicle5 L
    Follicle5 W
    Follicle5 H
Follicle6
    Follicle6 L
    Follicle6 W
    Follicle6 H

- Follicle7
  - Follicle7 L
  - Follicle7 W
  - Follicle7 H
- Follicle8
  - Follicle8 L
  - Follicle8 W
  - Follicle8 H
- Follicle9
  - Follicle9 L
  - Follicle9 W
  - Follicle9 H
- Follicle10
  - Follicle10 L
  - Follicle10 W
  - Follicle10 H
- Follicle11
  - Follicle11 L
  - Follicle11 W
  - Follicle11 H
- Follicle12
  - Follicle12 L
  - Follicle12 W
  - Follicle12 H
- Follicle13
  - Follicle13 L
  - Follicle13 W
  - Follicle13 H
- Follicle14
  - Follicle14 L
  - Follicle14 W
  - Follicle14 H
- Follicle15
  - Follicle15 L
  - Follicle15 W
  - Follicle15 H
- Follicle16
  - Follicle16 L
  - Follicle16 W
  - Follicle16 H
- 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
- Uterine Finding 1
  - d1
  - d2
  - d3
- Uterine Finding 2
  - d1
  - d2
  - d3
- Uterine Finding 3
  - d1
  - d2
  - d3

Uterine Finding 4
d1
d2
d3
Uterine Finding 5
d1
d2
d3
Uterine Finding 6
d1
d2
d3
Ovarian Finding 1
d1
d2
d3
Ovarian Finding 2
d1
d2
d3
Ovarian Finding 3
d1
d2
d3
Ovarian Finding 4
d1
d2
d3
Ovarian Finding 5
d1
d2
d3
Ovarian Finding 6
d1
d2
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
Lesion1 Elas. Ratio
A
B
Lesion2 Elas. Ratio
A
B
Lesion3 Elas. Ratio
A
B
Fibroid1 Strain Ratio
A
B
Fibroid2 Strain Ratio
A
B
Fibroid3 Strain Ratio
A
B
Fibroid1 Elas. Ratio
A
B
Fibroid2 Elas. Ratio
A
B
Fibroid3 Elas. Ratio
A
B

- Obstetrics

B-Mode
GS
YS L
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 L
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
AH
PH
3th Ventricle
NT Above Cord
NT Below Cord
Mandible
Prenasal th

Heart AP
Heart T
LV Width
LV Length
RV Width
RV Length
LA Width
RA Width
LVWd
LVWs
RVWd
RVWs
AV Diam
AV Area
PV Area
F-kidney H
F-kidney W
Lung
Stomach
YS H
YS W
Amniotic Sac L
Amniotic Sac H
Amniotic Sac W
Ovary Cyst L
Ovary Cyst H
Ovary Cyst W
UT AW
UT PW
CSP
FMF
MMF
Lung CCAM L
Lung CCAM H
Lung CCAM W
AD
Lliac Wing Angle
FAGL
FAG
Intestinum Crassum
Liver Length
Rib Length
Shoulder Blade

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)
MVE
TVE
AVE
MAPSE
TAPSE
LV ICT
LV IRT
LV ET
RV ICT
RV IRT
RV ET

D-Mode
Umb A
Duct Veno
Placenta A
MCA
Fetal Ao
Desc Aorta
Ut A
Ovarian A
FHR (Doppler)
Asc Aorta
RVOT
LVOT
MV E
MV A
TV E
TV A
MV E'
MV A'
MV S'
TV E'
TV A'
TV S'
AV PV
AV VTI
PV PV
PV VTI
Duct Art PV
Duct Art VTI
AV TPV
PV TPV
Duct Art TPV
Thoracic Aorta
Hepatic Vein
IVC
Umb V
Ovary
Endometrium
Cervical Cancer
Fibroid
Duct Art
ICA
Celiac A

MV E/A
TV E/A
MV E/E'
TV E/E'

- 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
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
Ureter
Cortex(Renal Transplant1)
Renal V Diam(Renal Transplant1)
Ureter Diam(Renal Transplant1)
Cortex(Renal Transplant2)
Renal V Diam(Renal Transplant2)
Ureter Diam(Renal Transplant2)
Prostate L
Prostate H
Prostate W
Seminal L
Seminal H
Seminal W
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
Urethra
Pre-BL L
Pre-BL H
Pre-BL W
Post-BL L
Post-BL H
Post-BL W
Testicular L
Testicular H
Testicular W
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
Testis V(2D)
Testis V(Valsalva 2D)
Prostate Mass1 Strain
Prostate Mass2 Strain
Prostate Mass3 Strain
Prostate Mass1 Elas.
Prostate Mass2 Elas.
Prostate Mass3 Elas.

Renal Vol
Prostate Vol
Pre-BL Vol
Post-BL Vol
Mictur.Vol
Testicular 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

Kidney(Superior)
- H
- W

Kidney(Mid)
- H
- W

Kidney(Inferior)
- H
- W

Renal A
- Long
- Anterior-Posterior
- Transverse

Renal A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Kidney(Renal Transplant1)
- H
- W
- L

Adrenal(Renal Transplant1)
- H
- W
- L

Finding 1(Renal Transplant1)
- H
- W
- L

Finding 2(Renal Transplant1)
- H
- W
- L

Finding 3(Renal Transplant1)
- H
- W
- L

Finding 4(Renal Transplant1)
- H
- W
- L

Finding 5(Renal Transplant1)
- H
- W
- L

Finding 6(Renal Transplant1)
- H
- W
- L

Renal Transplant 1(2D)
- Cortex(Renal Transplant1)
- Renal V Diam(Renal Transplant1)
- Ureter Diam(Renal Transplant1)
- Kidney(Renal Transplant1)
  - H
  - W
  - L
- Adrenal(Renal Transplant1)
  - H
  - W
  - L
- Finding 1(Renal Transplant1)
  - H
  - W
  - L
- Finding 2(Renal Transplant1)
  - H

W
L
Finding 3(Renal Transplant1)
H
W
L
Finding 4(Renal Transplant1)
H
W
L
Finding 5(Renal Transplant1)
H
W
L
Finding 6(Renal Transplant1)
H
W
L
Kidney(Renal Transplant2)
H
W
L
Adrenal(Renal Transplant2)
H
W
L
Finding 1(Renal Transplant2)
H
W
L
Finding 2(Renal Transplant2)
H
W
L
Finding 3(Renal Transplant2)
H
W
L
Finding 4(Renal Transplant2)
H
W
L
Finding 5(Renal Transplant2)
H
W
L
Finding 6(Renal Transplant2)
H
W
L
Renal Transplant 2(2D)
Cortex(Renal Transplant2)
Renal V Diam(Renal Transplant2)
Ureter Diam(Renal Transplant2)
Kidney(Renal Transplant2)
H
W
L
Adrenal(Renal Transplant2)
H
W
L
Finding 1(Renal Transplant2)
H
W
L
Finding 2(Renal Transplant2)
H
W
L
Finding 3(Renal Transplant2)
H
W
L
Finding 4(Renal Transplant2)
H
W
L
Finding 5(Renal Transplant2)
H
W
L
Finding 6(Renal Transplant2)
H
W
L

- Prostate
  - Prostate L
  - Prostate H
  - Prostate W
- Prostate2
  - Long
  - Anterior-Posterior
  - Coronal
- Seminal Vesicle
  - Seminal L
  - Seminal H
  - Seminal 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
- Bladder
  - Pre-BL L
  - Pre-BL H
  - Pre-BL W
  - Post-BL L
  - Post-BL H
  - Post-BL W
- 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
- Testicle(Superior)
  - H
  - W
- Testicle(Mid)
  - H
  - W
- Testicle(Inferior)
  - H
  - W
- Epididymal Head
  - H
  - W
  - L
- Epididymal Body
  - H
  - W
  - L
- Epididymal Tail
  - H
  - W
  - L
- Prostate Mass1 Strain Ratio
  - A
  - B
- Prostate Mass2 Strain Ratio
  - A
  - B
- Prostate Mass3 Strain Ratio
  - A
  - B
- Prostate Mass1 Elas. Ratio
  - A
  - B
- Prostate Mass2 Elas. Ratio
  - A
  - B
- Prostate Mass3 Elas. Ratio

A
B
D-Mode
Renal A
Ren A Org
M Renal A
Renal A1
Renal A2
Hilum
Interlobar A
Arcuate A
Segment A
Artery Anast(Renal Transplant1)
Artery Anast 2(Renal Transplant1)
Vein Anast(Renal Transplant1)
Vein Anast 2(Renal Transplant1)
Renal A(Renal Transplant1)
Renal A1(Renal Transplant1)
Renal A2(Renal Transplant1)
Hilum(Renal Transplant1)
Interlobar A(Renal Transplant1)
Arcuate A(Renal Transplant1)
Segmental A(Renal Transplant1)
Renal Vein 1(Renal Transplant1)
Renal Vein 2(Renal Transplant1)
Artery Anast(Renal Transplant2)
Artery Anast 2(Renal Transplant2)
Vein Anast(Renal Transplant2)
Vein Anast 2(Renal Transplant2)
Renal A(Renal Transplant2)
Renal A1(Renal Transplant2)
Renal A2(Renal Transplant2)
Hilum(Renal Transplant2)
Interlobar A(Renal Transplant2)
Arcuate A(Renal Transplant2)
Segmental A(Renal Transplant2)
Renal Vein 1(Renal Transplant2)
Renal Vein 2(Renal Transplant2)
Testicular A
Testicular V
Testis V(Valsalva)
Epididymis A
Epididymis V

Renal Transplant 1(Doppler)
Artery Anast(Renal Transplant1)
Artery Anast 2(Renal Transplant1)
Vein Anast(Renal Transplant1)
Vein Anast 2(Renal Transplant1)
Renal A(Renal Transplant1)
Renal A1(Renal Transplant1)
Renal A2(Renal Transplant1)
Hilum(Renal Transplant1)
Interlobar A(Renal Transplant1)
Arcuate A(Renal Transplant1)
Segmental A(Renal Transplant1)
Renal Vein 1(Renal Transplant1)
Renal Vein 2(Renal Transplant1)
Renal Transplant 2(Doppler)
Artery Anast(Renal Transplant2)
Artery Anast 2(Renal Transplant2)
Vein Anast(Renal Transplant2)
Vein Anast 2(Renal Transplant2)
Renal A(Renal Transplant2)
Renal A1(Renal Transplant2)
Renal A2(Renal Transplant2)
Hilum(Renal Transplant2)
Interlobar A(Renal Transplant2)
Arcuate A(Renal Transplant2)
Segmental A(Renal Transplant2)
Renal Vein 1(Renal Transplant2)

Renal Vein 2(Renal Transplant2)

- Vascular
  - B-Mode
    - CCA IMT
    - Bulb IMT
    - ICA IMT
    - ECA IMT
    - Axill V AP
    - Brachial V AP
    - Radial V AP
    - Ulnar V AP
    - Int Jug V AP
    - Innom V AP
    - Subclav V AP
    - Volar V AP
    - Cephalic V AP
    - Basilic V AP
    - CA Junction AP
    - Upper Arm Cephalic V AP
    - Cephalic-Antecubital V AP
    - Forearm Cephalic V AP
    - BA Junction AP
    - Upper Arm Basilic V AP
    - Basilic-Antecubital V AP
    - Forearm Basilic V AP
    - Digital V AP
    - Median Cubital V AP
    - Axill V Trans
    - Brachial V Trans
    - Radial V Trans
    - Ulnar V Trans
    - Int Jug V Trans
    - Innom V Trans
    - Subclav V Trans
    - Volar V Trans
    - Cephalic V Trans
    - Basilic V Trans
    - CA Junction Trans
    - Upper Arm Cephalic V Trans
    - Cephalic-Antecubital V Trans
    - Forearm Cephalic V Trans
    - BA Junction Trans
    - Upper Arm Basilic V Trans
    - Basilic-Antecubital V Trans
    - Forearm Basilic V Trans
    - Digital V Trans
    - Median Cubital V Trans
    - Axill V Status
    - Brachial V Status
    - Radial V Status
    - Ulnar V Status
    - Int Jug V Status
    - Innom V Status
    - Subclav V Status
    - Volar V Status
    - Cephalic V Status
    - Basilic V Status
    - CA Junction Status
    - Upper Arm Cephalic V Status
    - Cephalic-Antecubital V Status
    - Forearm Cephalic V Status
    - BA Junction Status
    - Upper Arm Basilic V Status
    - Basilic-Antecubital V Status
    - Forearm Basilic V Status
    - Digital V Status
    - Median Cubital V Status
    - C.Iliac V AP
    - Ex.Iliac V AP
    - IIV AP
    - CFV AP
    - Femoral V AP
    - DFV AP
    - Pop V AP
    - P.Tib V AP
    - Peroneal V AP
    - Sural V AP
    - Soleal V AP
    - A.Tib V AP
    - TP Trunk V AP
    - Saph V AP
    - SSV AP
    - SF Junction AP
    - GSV Thigh AP
    - GSV Knee AP
    - GSV Calf AP
    - SP Junction AP

SSV Thigh Extension AP
AASV AP
PASV AP
SFV
C.Iliac V Trans
Ex.Iliac V Trans
IIV Trans
CFV Trans
Femoral V Trans
DFV Trans
Pop V Trans
P.Tib V Trans
Peroneal V Trans
Sural V Trans
Soleal V Trans
A.Tib V Trans
TP Trunk V Trans
Saph V Trans
SSV Trans
SF Junction Trans
GSV Thigh Trans
GSV Knee Trans
GSV Calf Trans
SP Junction Trans
SSV Thigh Extension Trans
AASV Trans
PASV Trans
C.Iliac V Status
Ex.Iliac V Status
IIV Status
CFV Status
Femoral V Status
DFV Status
Pop V Status
P.Tib V Status
Peroneal V Status
Sural V Status
Soleal V Status
A.Tib V Status
TP Trunk V Status
Saph V Status
SSV Status
SF Junction Status
GSV Thigh Status
GSV Knee Status
GSV Calf Status
SP Junction Status
SSV Thigh Extension Status
AASV Status
PASV Status

Stenosis D
Stenosis A

IMT
    CCA IMT
    Bulb IMT
    ICA IMT
    ECA IMT
CCA
    Anterior-Posterior
    Transverse
    Outer Diameter
    Inner Diameter
    Outer Area
    Inner Area
Bulb
    Anterior-Posterior
    Transverse
    Outer Diameter
    Inner Diameter
    Outer Area
    Inner Area
Carotid Bifurcation
    Anterior-Posterior
    Transverse
    Outer Diameter
    Inner Diameter
    Outer Area
    Inner Area
ICA
    Anterior-Posterior
    Transverse
    Outer Diameter
    Inner Diameter
    Outer Area
    Inner Area
ECA

- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Vert A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Subclav A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Innom A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Mammary A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

CCA Aneurysm
- Long
- Anterior-Posterior
- Transverse

Bulb Aneurysm
- Long
- Anterior-Posterior
- Transverse

Carotid Bifurcation Aneurysm
- Long
- Anterior-Posterior
- Transverse

ICA Aneurysm
- Long
- Anterior-Posterior
- Transverse

ECA Aneurysm
- Long
- Anterior-Posterior
- Transverse

Vert A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Subclav A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Innom A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Mammary A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Carotid Graft 1 Anast
- Long
- Anterior-Posterior
- Transverse

Carotid Graft 1 Graft
- Long
- Anterior-Posterior
- Transverse

Carotid Graft 2 Anast
- Long
- Anterior-Posterior
- Transverse

Carotid Graft 2 Graft
- Long
- Anterior-Posterior
- Transverse

Carotid Graft 3 Anast
- Long

- Anterior-Posterior
- Transverse

Carotid Graft 3 Graft
- Long
- Anterior-Posterior
- Transverse

Carotid Stent 1
- Long
- Anterior-Posterior
- Transverse

Carotid Stent 2
- Long
- Anterior-Posterior
- Transverse

Carotid Stent 3
- Long
- Anterior-Posterior
- Transverse

Carotid Stenosis 1(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Carotid Stenosis 2(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Carotid Stenosis 3(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Carotid Stenosis 4(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Axill A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Brachial A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Radial A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Ulnar A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Axill A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Brachial A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Radial A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Ulnar A Aneurysm
- Long

- Anterior-Posterior
- Transverse
- UE A Graft 1 Native Inflow
  - Anterior-Posterior
  - Transverse
- UE A Graft 1 Anast
  - Anterior-Posterior
  - Transverse
- UE A Graft 1 Graft
  - Anterior-Posterior
  - Transverse
- UE A Graft 1 Native Outflow
  - Anterior-Posterior
  - Transverse
- UE A Graft 2 Native Inflow
  - Anterior-Posterior
  - Transverse
- UE A Graft 2 Anast
  - Anterior-Posterior
  - Transverse
- UE A Graft 2 Graft
  - Anterior-Posterior
  - Transverse
- UE A Graft 2 Native Outflow
  - Anterior-Posterior
  - Transverse
- UE A Graft 3 Native Inflow
  - Anterior-Posterior
  - Transverse
- UE A Graft 3 Anast
  - Anterior-Posterior
  - Transverse
- UE A Graft 3 Graft
  - Anterior-Posterior
  - Transverse
- UE A Graft 3 Native Outflow
  - Anterior-Posterior
  - Transverse
- UE A Stent 1
  - Long
  - Anterior-Posterior
  - Transverse
- UE A Stent 2
  - Long
  - Anterior-Posterior
  - Transverse
- UE A Stent 3
  - Long
  - Anterior-Posterior
  - Transverse
- UE A Stenosis 1(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- UE A Stenosis 2(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- UE A Stenosis 3(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- UE A Stenosis 4(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- C.Iliac A
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- Ex.Iliac A
  - Anterior-Posterior
  - Transverse

- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

IIA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

CFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

DFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

SFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Pop A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

TP Trunk A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

A.Tib A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Peroneal A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

P.Tib A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

Dors.Ped. A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

C.Iliac A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Ex.Iliac A Aneurysm
- Long
- Anterior-Posterior
- Transverse

IIA Aneurysm
- Long
- Anterior-Posterior
- Transverse

CFA Aneurysm
- Long

- Anterior-Posterior
- Transverse

DFA Aneurysm
- Long
- Anterior-Posterior
- Transverse

SFA Aneurysm
- Long
- Anterior-Posterior
- Transverse

Pop A Aneurysm
- Long
- Anterior-Posterior
- Transverse

TP Trunk A Aneurysm
- Long
- Anterior-Posterior
- Transverse

A.Tib A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Peroneal A Aneurysm
- Long
- Anterior-Posterior
- Transverse

P.Tib A Aneurysm
- Long
- Anterior-Posterior
- Transverse

Dors.Ped. A Aneurysm
- Long
- Anterior-Posterior
- Transverse

LE A Graft 1 Native Inflow
- Anterior-Posterior
- Transverse

LE A Graft 1 Anast
- Anterior-Posterior
- Transverse

LE A Graft 1 Graft
- Anterior-Posterior
- Transverse

LE A Graft 1 Native Outflow
- Anterior-Posterior
- Transverse

LE A Graft 2 Native Inflow
- Anterior-Posterior
- Transverse

LE A Graft 2 Anast
- Anterior-Posterior
- Transverse

LE A Graft 2 Graft
- Anterior-Posterior
- Transverse

LE A Graft 2 Native Outflow
- Anterior-Posterior
- Transverse

LE A Graft 3 Native Inflow
- Anterior-Posterior
- Transverse

LE A Graft 3 Anast
- Anterior-Posterior
- Transverse

LE A Graft 3 Graft
- Anterior-Posterior
- Transverse

LE A Graft 3 Native Outflow
- Anterior-Posterior
- Transverse

LE A Stent 1
- Long
- Anterior-Posterior
- Transverse

LE A Stent 2
- Long
- Anterior-Posterior
- Transverse

LE A Stent 3
- Long
- Anterior-Posterior
- Transverse

LE A Stenosis 1(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area

- Inner Area
- LE A Stenosis 2(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- LE A Stenosis 3(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- LE A Stenosis 4(2D)
  - Anterior-Posterior
  - Transverse
  - Outer Diameter
  - Inner Diameter
  - Outer Area
  - Inner Area
- LE A Finding 1
  - Long
  - Anterior-Posterior
  - Transverse
- LE A Finding 2
  - Long
  - Anterior-Posterior
  - Transverse
- LE A Finding 3
  - Long
  - Anterior-Posterior
  - Transverse
- LE A Finding 4
  - Long
  - Anterior-Posterior
  - Transverse
- LE A Finding 5
  - Long
  - Anterior-Posterior
  - Transverse
- LE A Finding 6
  - Long
  - Anterior-Posterior
  - Transverse
- AVF-Inflow Artery
  - Anterior-Posterior
  - Transverse
- AVF-Anast
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 1
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 2
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 3
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 4
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 5
  - Anterior-Posterior
  - Transverse
- AVF-Outflow Vein Level 6
  - Anterior-Posterior
  - Transverse
- AVF-Stenosis 1
  - Anterior-Posterior
  - Transverse
- AVF-Stenosis 2
  - Anterior-Posterior
  - Transverse
- AVF-Stenosis 3
  - Anterior-Posterior
  - Transverse
- AVF-Aneurysm 1
  - Anterior-Posterior
  - Transverse
- AVF-Aneurysm 2
  - Anterior-Posterior
  - Transverse
- AVF-Aneurysm 3
  - Anterior-Posterior
  - Transverse

- AV Graft-Inflow Artery
  - Anterior-Posterior
  - Transverse
- AV Graft-Arterial Anast
  - Anterior-Posterior
  - Transverse
- AV Graft-Graft
  - Anterior-Posterior
  - Transverse
- AV Graft-Venous Anast
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 1
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 2
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 3
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 4
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 5
  - Anterior-Posterior
  - Transverse
- AV Graft-Outflow Vein Level 6
  - Anterior-Posterior
  - Transverse
- Thigh Perf
  - Anterior-Posterior
  - Transverse
  - Checklist
- Prox Calf Perf
  - Anterior-Posterior
  - Transverse
  - Checklist
- Mid Calf Perf
  - Anterior-Posterior
  - Transverse
  - Checklist
- Dist Calf Perf
  - Anterior-Posterior
  - Transverse
  - Checklist
- Stenosis A
  - A1
  - A2
- D-Mode
  - ACA
  - A1 ACA
  - MCA
  - M1 MCA
  - M2 MCA
  - AComA
  - Terminal ICA
  - PComA
  - PCA
  - P1 PCA
  - P2 PCA
  - Opthalmic A
  - ICA Siphon
  - Terminal Vert A
  - BA
  - Ba V
  - CCA
  - ICA
  - ECA
  - Bulb
  - Carotid Bifurcation
  - Vert A
  - Subclav A
  - Innom A
  - Mammary A
  - Subclav V
  - CCA Aneurysm
  - ICA Aneurysm
  - ECA Aneurysm
  - Bulb Aneurysm
  - Carotid Bifurcation Aneurysm
  - Vert A Aneurysm
  - Subclav A Aneurysm
  - Innom A Aneurysm
  - Mammary A Aneurysm
  - Carotid Graft 1 Native Inflow
  - Carotid Graft 1 Anast Pre
  - Carotid Graft 1 Anast Max

Carotid Graft 1 Anast Post
Carotid Graft 1 Graft
Carotid Graft 1 Native Outflow
Carotid Graft 2 Native Inflow
Carotid Graft 2 Anast Pre
Carotid Graft 2 Anast Max
Carotid Graft 2 Anast Post
Carotid Graft 2 Graft
Carotid Graft 2 Native Outflow
Carotid Graft 3 Native Inflow
Carotid Graft 3 Anast Pre
Carotid Graft 3 Anast Max
Carotid Graft 3 Anast Post
Carotid Graft 3 Graft
Carotid Graft 3 Native Outflow
Carotid Stent 1
Carotid Stent 2
Carotid Stent 3
Axill A
Brachial A
Ulnar A
Radial A
UE A Graft 1 Native Inflow
UE A Graft 1 Anast
UE A Graft 1 Graft
UE A Graft 1 Native Outflow
UE A Graft 2 Native Inflow
UE A Graft 2 Anast
UE A Graft 2 Graft
UE A Graft 2 Native Outflow
UE A Graft 3 Native Inflow
UE A Graft 3 Anast
UE A Graft 3 Graft
UE A Graft 3 Native Outflow
UE A Stent 1
UE A Stent 2
UE A Stent 3
C.Iliac A
Ex.Iliac A
IIA
CFA
DFA
SFA
Pop A
TP Trunk A
A.Tib A
Peroneal A
P.Tib A
Dors.Ped. A
LE A Graft 1 Native Inflow
LE A Graft 1 Anast Pre
LE A Graft 1 Anast Max
LE A Graft 1 Anast Post
LE A Graft 1 Graft
LE A Graft 1 Native Outflow
LE A Graft 2 Native Inflow
LE A Graft 2 Anast Pre
LE A Graft 2 Anast Max
LE A Graft 2 Anast Post
LE A Graft 2 Graft
LE A Graft 2 Native Outflow
LE A Graft 3 Native Inflow
LE A Graft 3 Anast Pre
LE A Graft 3 Anast Max
LE A Graft 3 Anast Post
LE A Graft 3 Graft
LE A Graft 3 Native Outflow
LE A Stent 1
LE A Stent 2
LE A Stent 3
Axill V
Brachial V
Radial V
Ulnar V
Cephalic V
Basilic V
AVF-Inflow Artery
AVF-Anast
AVF-Outflow Vein Level 1
AVF-Outflow Vein Level 2
AVF-Outflow Vein Level 3
AVF-Outflow Vein Level 4
AVF-Outflow Vein Level 5
AVF-Outflow Vein Level 6
AVF-Stenosis 1
AVF-Stenosis 2
AVF-Stenosis 3
AV Graft-Inflow Artery

AV Graft-Arterial Anast
AV Graft-Graft
AV Graft-Venous Anast
AV Graft-Outflow Vein Level 1
AV Graft-Outflow Vein Level 2
AV Graft-Outflow Vein Level 3
AV Graft-Outflow Vein Level 4
AV Graft-Outflow Vein Level 5
AV Graft-Outflow Vein Level 6
C.Iliac V Reflux
Ex.Iliac V Reflux
IIV Reflux
CFV Reflux
Femoral V Reflux
DFV Reflux
Pop V Reflux
P.Tib V Reflux
Peroneal V Reflux
Sural V Reflux
Soleal V Reflux
A.Tib V Reflux
TP Trunk V Reflux
Saph V Reflux
SSV Reflux
SF Junction Reflux
GSV Thigh Reflux
GSV Knee Reflux
GSV Calf Reflux
SP Junction Reflux
SSV Thigh Extension Reflux
AASV Reflux
PASV Reflux
SFV Reflux
C.Iliac V
Ex.Iliac V
IIV
CFV
Femoral V
DFV
Pop V
P.Tib V
Peroneal V
Sural V
Soleal V
A.Tib V
TP Trunk V
Saph V
SSV
SF Junction
GSV Thigh
GSV Knee
GSV Calf
SP Junction
SSV Thigh Extension
AASV
PASV
SFV
ASP
BSP

CCA(Sten)
    Pre Sten
    Sten
    Post Sten
ICA(Sten)
    Pre Sten
    Sten
    Post Sten
ECA(Sten)
    Pre Sten
    Sten
    Post Sten
Bulb(Sten)
    Pre Sten
    Sten
    Post Sten
Carotid Bifurcation(Sten)
    Pre Sten
    Sten
    Post Sten
Vert A(Sten)
    Pre Sten
    Sten
    Post Sten
Subclav A(Sten)
    Pre Sten
    Sten
    Post Sten

Innom A(Sten)
- Pre Sten
- Sten
- Post Sten

Mammary A(Sten)
- Pre Sten
- Sten
- Post Sten

Carotid Stenosis 1
- Pre Sten
- Sten
- Post Sten

Carotid Stenosis 2
- Pre Sten
- Sten
- Post Sten

Carotid Stenosis 3
- Pre Sten
- Sten
- Post Sten

Carotid Stenosis 4
- Pre Sten
- Sten
- Post Sten

Axill A(Sten)
- Pre Sten
- Sten
- Post Sten

Brachial A(Sten)
- Pre Sten
- Sten
- Post Sten

Ulnar A(Sten)
- Pre Sten
- Sten
- Post Sten

Radial A(Sten)
- Pre Sten
- Sten
- Post Sten

UE A Stenosis 1
- Pre Sten
- Sten
- Post Sten

UE A Stenosis 2
- Pre Sten
- Sten
- Post Sten

UE A Stenosis 3
- Pre Sten
- Sten
- Post Sten

UE A Stenosis 4
- Pre Sten
- Sten
- Post Sten

C.Iliac A(Sten)
- Pre Sten
- Sten
- Post Sten

Ex.Iliac A(Sten)
- Pre Sten
- Sten
- Post Sten

IIA(Sten)
- Pre Sten
- Sten
- Post Sten

CFA(Sten)
- Pre Sten
- Sten
- Post Sten

DFA(Sten)
- Pre Sten
- Sten
- Post Sten

SFA(Sten)
- Pre Sten
- Sten
- Post Sten

Pop A(Sten)
- Pre Sten
- Sten
- Post Sten

TP Trunk A(Sten)
- Pre Sten
- Sten
- Post Sten

A.Tib A(Sten)
Pre Sten
Sten
Post Sten
Peroneal A(Sten)
Pre Sten
Sten
Post Sten
P.Tib A(Sten)
Pre Sten
Sten
Post Sten
Dors.Ped. A(Sten)
Pre Sten
Sten
Post Sten
LE A Stenosis 1
Pre Sten
Sten
Post Sten
LE A Stenosis 2
Pre Sten
Sten
Post Sten
LE A Stenosis 3
Pre Sten
Sten
Post Sten
LE A Stenosis 4
Pre Sten
Sten
Post Sten
Thigh Perf
PV
Reflux
Checklist
Prox Calf Perf
PV
Reflux
Checklist
Mid Calf Perf
PV
Reflux
Checklist
Dist Calf Perf
PV
Reflux
Checklist
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
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 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.
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.
Testicular L
Testicular H
Testicular W
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
Testis V(2D)
Testis V(Valsalva 2D)

Thyroid Vol
Testicular Vol

Thyroid(Superior)
    H
    W
Thyroid(Mid)
    H
    W
Thyroid(Inferior)
    H
    W
Parathyroid 1
    H
    W
    L
Parathyroid 2
    H
    W
    L
Parotid
    H
    W
    L
Lymph Node 1
    H
    W
    L
Lymph Node 2
    H
    W
    L
Lymph Node 3
    H
    W
    L
Lymph Node 4
    H
    W
    L
Lymph Node 5
    H
    W
    L
Lymph Node 6
    H
    W
    L
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
- Isthmus Finding 1
  - d1
  - d2
  - d3
- Isthmus Finding 2
  - d1
  - d2
  - d3
- Isthmus Finding 3
  - d1
  - d2
  - d3
- 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
  - 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.

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
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
Testicle(Superior)
H
W
Testicle(Mid)
H
W
Testicle(Inferior)
H
W
Epididymal Head
H
W
L
Epididymal Body
H
W
L
Epididymal Tail
H
W
L
D-Mode
STA
ITA
Isthmus
Parathyroid 1
Parathyroid 2
Testicular A
Testicular V
Testis V(Valsalva)
Epididymis A
Epididymis V

- Emergency

B-Mode
Renal L
Renal H
Renal W
CBD
Portal V Diam
CHD
GB wall th
Aorta AP
Aorta Bif
Ureter
Pre-BL L
Pre-BL H
Pre-BL W
Post-BL L
Post-BL H
Post-BL W
GS
YS L
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)

- Pediatrics

HIP
HIP-Graf
HIP(α)
HIP(β)
d/D

6.4 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

6.5 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.

6.6 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
- Better get GA before start auto AC
- Measurement result can be modified by user

6.7 Smart NT™

- NT auto measurement
- Auto detection of NT inside ROI

6.8 Smart HIP

HIP auto measurement

6.9 Report

- Specific report template by application
- Editable value in report
- Images selectable
- Anatomy information for vascular and OB report
- Editing though iReport
- User-defined report template
- Selecting report modules
- Adding/removing measurement items from the report
- Changing report layout
- Load/save comment
- Viewing history reports
- Preview and printing reports
- Able to Export as PDF/RTF file

6.10 iMeasurement (included in UltraAssist)

Off-line user-defined measurement and calculation software

6.11 iReport (included in UltraAssist)

Off-line user-defined report template software

6.12 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; B/B (Dual Live); Dual B/B; Color; B/Color (Dual Live); Power; B/Power (Dual Live); B + PW; Color + PW; Power + PW; B + CW; Color + CW; B+M; B+TVI; TVI+TVD; iScape.
- iWorks setup annotation: support up to 2 annotations, location and font size are configurable.
- iWorks setup bodymark: select existing library, and transducer indicator is pre-settable
- iWorks setup measurement: select existing measurement library
- Template import and export are available

6.13 UltraView™

- Components:
  - DICOM Basic
  - DICOM Query/Retrieve
  - DICOM OB/GYN SR
  - DICOM Cardiac SR
  - DICOM Vascular SR
  - DICOM Breast SR
  - TDI QA
  - Contrast Imaging QA
  - Tissue Tracking QA
  - Stress Echo
  - SCV (Slice Contrast View)
  - Niche
  - iLive
  - iPage+
  - IVF
  - Ultrasound Fusion Imaging
  - Auto EF
  - Smart Planes CNS
- PC-based off-line software

* 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
- 128G SSD (Solid State Drive)
- 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, Activate exam, Continue exam functions, End exam are available
- Support measurements and calculations on archived exam and images
- Export images in BMP/JPG/TIFF/DCM/AVI/MP4 format
- Support backup/send to USB devices, DVD-RW media

8 Connectivity

8.1 Ethernet Network Connection

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

8.2 USB to serial data output (need a converter cable)

8.3 DICOM 3.0

- DICOM basic
  - Verify (SCU, SCP)
  - Print
  - Store
  - Storage Commitment
  - Media Exchange
- DICOM Worklist
- DICOM Query/Retrieve
- DICOM Modality Performed Procedure Step - MPPS
- DICOM OB/GYN structure report

- DICOM Cardiac structure report
- DICOM Vascular structure report
- DICOM Breast Report
- DICOM Small Parts structure report

8.4 iStorage (included in UltraAssist)
Direct network storage tool between ultrasound system and personal computer

8.5 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 (7.0 and above)and Android (4.0 and above) system
  - For iOS powered smart device: DICOM is mandatory
  - For Android powered smart device: DICOM not necessary

8.6 MedTouch
- Connect Ultrasound machine to smart devices based on Android and iOS system, 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 Android and iOS powered smart devices
  - Android 4.0 and above
  - iOS 7.0 and above
  - DICOM not necessary

9 Transducers

9.1 Curved array
- C5-1U

- Application: Obstetrics, Gynecology, Abdomen, Musculo-skeletal, Vascular, Urology, Nerve
- Bandwidth: 1.2-6.0MHz
- Number of Elements:128
- FOV (max): 61°
- Extended FOV: 73°
- Convex Radius: 60mm
- Depth: 4-40cm
- Physical Footprint: 76.5mm× 28mm
- Footprint: 64.9mm × 16.2mm
- B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.5 (HR Flow)MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-022, multi angle, reusable

- C11-3U

- Application: Abdomen, Vascular, Cardiac, Small Parts, Pediatric
- Bandwidth: 2.6-12.8MHz
- Number of Elements:128
- FOV (max): 101°
- Extended FOV: 113°
- Convex Radius: 15mm
- Depth: 1.5-35cm
- Physical Footprint: 32.8mm× 25mm
- Footprint: 27.4mm × 8.4mm
- B-mode Frequencies: 2.6~6.5, 3.2~7.9, 4.7~12.8 MHz
- Harmonic Frequencies: 6.0, 7.0, 8.0 MHz
- Color Frequencies: 4.4, 5.0, 5.7, 5.0 (HR Flow) MHz
- PW Frequencies: 4.4, 5.0, 5.7 MHz
- Biopsy Guide: NGB-018, multi angle, reusable

- C4-1U

- Application: Obstetrics, Gynecology, Abdomen, Small Parts, Vascular, Urology
- Bandwidth: 1.0-4.5MHz
- Number of Elements: 64
- FOV (max): 56°
- Extended FOV: 80°

- Convex Radius: 30mm
- Depth: 4.0-40.0cm
- Physical Footprint: 42.4mm× 25.4mm
- Footprint: 34.1mm × 17.5mm
- B-mode Frequencies: 1.0~3.0, 1.6~3.3, 2.3~4.5MHz
- Harmonic Frequencies: 2.4, 3.0, 3.4 MHz
- Color Frequencies: 1.8, 2.2, 2.5, 2.5 (HR Flow)MHz
- PW Frequencies: 1.6, 1.9, 2.3 MHz
- Biopsy Guide: NGB-036, multi angle, reusable

• SC5-1U

- Single crystal probe
- Application: Obstetrics, Gynecology, Abdomen, Small Parts, Musculo-skeletal, Vascular, Urology, Nerve
- Bandwidth: 1.2 - 6.0MHz
- Number of Elements:192
- FOV (max): 60°
- Extended FOV: 72°
- Convex Radius: 60mm
- Depth: 4-42cm
- Physical Footprint: 80.78mm × 29.0mm
- Footprint: 64.9mm × 16.2mm
- B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.5(HR Flow) MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-031, multi angle, reusable

• SC6-1U

- Single crystal probe
- Application: Obstetrics, Gynecology, Abdomen, Small Parts, Musculo-skeletal, Vascular, Urology, Nerve
- Bandwidth: 1.2-6.0MHz
- Number of Elements:192
- FOV (max): 60°
- Extended FOV: 72°
- Convex Radius: 60mm
- Depth: 4-40cm
- Physical Footprint: 65.1mm × 16.4mm
- Footprint: 64.9mm × 16.2mm
- B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.5(HR Flow) MHz, TDI 3.0, 3.8 MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-022, multi angle, reusable

• C6-2GU

- Application: Obstetrics, Gynecology, Abdomen, Urology
- Bandwidth: 1.2-6.0MHz
- Number of Elements:128
- FOV (max): 94°
- Extended FOV: 106°
- Convex Radius: 20mm
- Depth: 4-40cm
- Physical Footprint: 37.6mm × 19mm
- Footprint: 31.5mm × 11.2mm
- B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz
- Harmonic Frequencies: 3.2, 4.0, 5.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.5(HR Flow) MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-024, multi angle, reusable

• SC8-2U

- Single crystal probe
- Application: Obstetrics, Gynecology, Abdomen, Urology, Vascular
- Bandwidth: 1.8 - 8.2 MHz
- Number of Elements:192
- FOV (max): 76°
- Extended FOV: 88°
- Convex Radius: 40mm
- Depth: 4-40cm
- Physical Footprint: 26.3mm× 66.9mm
- Footprint: 15mm × 52mm
- B-mode Frequencies: 1.8~5.4, 2.3~6.8, 2.8~8.2 MHz
- Harmonic Frequencies: 4.0, 5.5, 6.0 MHz

- Color Frequencies: 3.0, 3.5, 4.0, 3.5(HR Flow) MHz
- PW Frequencies: 3.0, 3.5, 3.8 MHz
- Biopsy Guide: NGB-029, multi angle, reusable

• V11-3HU

- Application: Obstetrics, Gynecology, Urology
- Bandwidth: 3.0-11.0MHz
- Number of Elements:192
- FOV (max): 170°
- Extended FOV: 210°
- Convex Radius: 11mm
- Depth: 1.5-28cm
- Physical Footprint: 24.9mm× 21.8mm
- Footprint: 24mm × 9mm
- B-mode Frequencies: 3.0~7.0, 4.0~9.0, 5.0~11.0 MHz
- Harmonic Frequencies: 8.0, 9.0, 10.0 MHz
- Color Frequencies: 4.4, 5.0, 5.7, 5.5(HR Flow) MHz
- PW Frequencies: 4.5, 5.0, 5.5 MHz
- Biopsy Guide: NGB-025, single angle, reusable

• CW5s

- Application: Vascular
- Number of Elements: 2
- Biopsy Guide: not available

• CW2s

- Application: Cardiac
- Number of Elements: 2
- Biopsy Guide: not available

• C6-2Gs

- Application: Obstetrics, Gynecology, Abdomen, Urology
- Bandwidth: 1.2-6.0 MHz
- Number of Elements: 128
- Field of View (max): 94°
- Extended FOV: 106°
- Convex Radius: 20mm
- Depth: 4.0-40cm
- Physical Footprint: 37.6mm × 19mm
- Footprint: 31.5mm × 11.2mm
- B-mode Frequencies: 1.2-3.8, 1.7-5.2, 2.0-6.0 MHz
- Harmonic Frequencies: 3.2, 4.0, 5.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.5(HR Flow) MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-024, multi angle, reusable

9.2 Volume curved array

• D8-4U

- Application: Obstetrics, Gynecology, Abdomen
- Bandwidth: 1.8-8.2 MHz
- Number of Elements: 192
- FOV (max): 78°
- Extended FOV: 90°
- Volume Sweep Angle (max): 85°
- Convex Radius: 40mm
- Depth: 4-40cm
- Physical Footprint:78.1mm × 53mm
- B-mode Frequencies: 1.8-5.4, 2.3-6.8, 2.8-8.2 MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 3.0, 3.5, 4.0, 3.5(HR Flow) MHz
- PW Frequencies: 3.0, 3.5, 3.8 MHz
- Biopsy Guide: NGB-042, single angle, reusable

• D8-2U

- Application: Obstetrics, Gynecology, Abdomen
- Bandwidth: 1.8-8.2 MHz
- Number of Elements: 192
- FOV (max): 65°
- Extended FOV: 90°
- Volume Sweep Angle (max): 85°
- Convex Radius: 50mm
- Depth: 4.0-40.0cm
- Physical Footprint: 77.1mm × 49.1mm
- B-mode Frequencies: 1.8-5.4, 2.3-6.8, 2.8-8.2 MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 3.0, 3.5, 4.0, 3.5(HR Flow) MHz; TDI 3.5, 4.0 MHz

- PW Frequencies: 3.0, 3.5, 3.8 MHz
- Biopsy Guide: NGB-040, multi angle, reusable

• DE10-3WU

- Application: Obstetrics, Gynecology, Urology
- Bandwidth: 2.0-9.0 MHz
- Number of Elements: 192
- FOV (max): 153°
- Extended FOV: 193°
- Volume Sweep Angle (max): 120°
- Convex Radius: 10mm
- Depth: 4-40cm
- Physical Footprint: 24 mm × 24mm
- B-mode Frequencies: 2.0~6.0, 2.8~8.2, 3.0~9.0 MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 4.4, 5.0, 5.7, 5.0(HR Flow) MHz
- PW Frequencies: 4.4, 5.0, 5.7 MHz
- Biopsy Guide: NGB-021, single angle, reusable

• DL14-3U

- Application: Small Parts, Vascular, Abdomen, Pediatric
- Bandwidth: 3.0-10.0MHz
- Number of Elements: 192
- FOV (max): 4.95cm
- Extended FOV: 40°
- Volume Sweep Distance (max): 10mm – 60mm
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C: +/-30°, +/-20°, +/-10°
  - PW: +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 99mm × 74mm
- B-mode Frequencies: 3.0~8.3, 4.4~9.2, 5.6~10.0 MHz
- Harmonic Frequencies: 8.0, 9.0, 10.0 MHz
- Color Frequencies: 5, 6.7, 8.3, 8.3(HR flow) MHz
- PW Frequencies: 5, 6.7, 8.3 MHz
- Biopsy Guide: not available

9.3 Linear

• L11-3U

- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve, Obstetrics
- Bandwidth: 3.0-10.0MHz
- Number of Elements: 192
- Field of View (max): 38.1mm
- Extended FOV: 40°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C/PW: +/-30°, +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 45.7mm × 10.9mm
- Footprint: 44.2mm × 8.5mm
- B-mode Frequencies: 3.0~8.3, 4.4~9.2, 5.6~10.0 MHz
- Harmonic Frequencies: 7.0, 8.0, 9.0 MHz
- Color Frequencies: 4.4, 5.0, 7.1, 6.0(HR Flow) MHz
- PW Frequencies: 4.2, 5.0, 7.1 MHz
- Biopsy Guide: NGB-026, multi angle, reusable

• L20-5U

- Application: Abdomen, Small Parts, Musculo-skeletal, Vascular, Nerve
- Bandwidth: 6-23MHz
- Number of Elements: 192
- Field of View (max): 28.6mm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C: +/-20°, +/-15°, +/-10°
  - PW: +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 42.23mm × 22.10mm
- Footprint: 31.5mm × 4.5mm
- B-mode Frequencies: 6.0~13.0, 9.0~16.6, 12.5~23.0 MHz
- Harmonic Frequencies: 14.0, 16.0, 18.0 MHz
- Color Frequencies: 9.0, 11.0, 13.0, 13.0(HR Flow) MHz

- PW Frequencies: 8.3, 10.0, 12.5 MHz
- CW Frequencies: 10.0 MHz
- Biopsy Guide: not available

• L14-6WU

- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve
- Bandwidth: 3.5-16.0MHz
- Number of Elements: 256
- Field of View (max): 50.9mm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C: +/-20°, +/-15°, +/-10°
  - PW: +/-30°, +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 59.1mm × 12mm
- Footprint: 56.1mm × 10mm
- B-mode Frequencies: 3.5~8.8, 7.2~12.5, 10.0~16.0 MHz
- Harmonic Frequencies: 10.0, 11.0, 12.5 MHz
- Color Frequencies: 6.0, 7.2, 9.0, 9(HR Flow) MHz
- PW Frequencies: 6.2, 7.1, 8.3 MHz
- Biopsy Guide: NGB-007, multi angle, reusable

• L16-4HU/L16-4Hs

- Application: Musculo-skeletal, Nerve, Small parts, Vascular, Pediatric, Intra-operative
- Bandwidth: 3.5-16.0MHz
- Number of Elements: 128
- Field of View (max): 25.4 mm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C/PW: +/-10°, +/-20°, +/-30°
- Depth:1.5-35.0cm
- Physical Footprint: 11.5mm × 38mm Oblique width (34.8mm Straight width)
- Footprint: 28.7mm × 5.5mm
- B-mode Frequencies: 3.5~9.2, 7.6~12.8, 9.6~16.0 MHz
- Harmonic Frequencies: 10.0, 12.0, 14.0 MHz
- Color Frequencies: 6.2, 7.2, 8.3, 8.3(HR Flow) MHz
- PW Frequencies: 5.0, 6.2, 8.3 MHz
- Biopsy Guide: not available

• L9-3U

- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve, Obstetrics
- Bandwidth: 2.5-9.0MHz
- Number of Elements: 192
- Field of View (max): 43.6mm
- Extended FOV: 60°(OB1, NT); 40°(Others)
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C/PW: +/-30°, +/-20°, +/-10°
- Depth:1.5-35cm
- Physical Footprint: 62mm × 22mm
- Footprint: 48mm × 11mm
- B-mode Frequencies: 2.5~7.0, 3.4~8.2, 3.6~9.0 MHz
- Harmonic Frequencies: 5.0, 6.0, 7.0 MHz
- Color Frequencies: 3.0, 3.6, 5.0, 4.0(HR Flow) MHz
- PW Frequencies: 3.0, 3.6, 5.0 MHz
- Biopsy Guide: NGB-034, multi angle, reusable

• L14-5WU

- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve
- Bandwidth: 4.0-14.0MHz
- Number of Elements: 192
- Field of View (max): 54.4mm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C/PW: +/-15°, +/-10°, +/-5°
- Depth:1.5-35cm
- Physical Footprint: 66mm × 23mm
- Footprint: 58.5mm × 6mm
- B-mode Frequencies: 4.0~7.6, 6.2~10.8, 9.0~14.0 MHz
- Harmonic Frequencies: 10.0, 11.0, 12.0 MHz

- Color Frequencies: 6.2, 7.2, 8.3, 9.0(HR Flow) MHz
- PW Frequencies: 5.0, 6.2, 7.2, 8.3 MHz
- CW Frequencies: 6.3 MHz
- Biopsy Guide: NGB-035, multi angle, reusable

• LM16-4U

- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve
- Bandwidth: 3.5-16.0MHz
- Number of Elements: 192×3
- Field of View (max): 38.1mm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-6°, +/-12°;
  - C/PW: +/-30°, +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 44.4mm × 8.7mm
- Footprint: 44.2mm × 8.5mm
- B-mode Frequencies: 3.5~9.0, 7.6~11.0, 9.6~16.0 MHz
- Harmonic Frequencies: 10.0, 12.0, 14.0 MHz
- Color Frequencies: 6.0, 7.2, 9.0, 9.0(HR Flow) MHz
- PW Frequencies: 6.2, 7.1, 8.3 MHz
- Biopsy Guide: NGB-023, multi angle, reusable

• 7LT4s

- Application: Small Parts, Musculo-skeletal, Vascular, Abdomen, Pediatric, Intra-operative
- Bandwidth: 3.5-13.5 MHz
- Number of Elements: 128
- Field of View (max): 4.0cm
- Extended FOV: 20°
- Steered Angle:
  -B: +/-6°, +/-12°
  -C: +/-30°, +/-20°, +/-10°
  -PW: +/-30°, +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 49.5mm × 14.4mm
- Footprint: 45mm × 9.0mm
- B-mode Frequencies: 3.5~8.3, 4.4~9.2, 5.6~13.5 MHz
- Harmonic Frequencies: 8.0, 9.0, 10.0 MHz
- Color Frequencies: 5.0, 6.5, 8.0, 8(HR Flow) MHz
- PW Frequencies: 5.0, 6.5, 8.0 MHz
- Biopsy Guide: NGB-010, multi angle, reusable

• L14-3WU

- Application: Small Parts, Musculo-skeletal, Vascular, Abdomen, Pediatric
- Bandwidth: 3.8-15.4MHz
- Number of Elements: 256
- Field of View (max): 5.08cm
- Extended FOV: 20°
- Steered Angle:
  - B: +/-5°, +/-10°;
  - C: +/-30°, +/-20°, +/-10°
  - PW: +/-30°, +/-20°, +/-10°
- Depth: 1.5-35cm
- Physical Footprint: 66.8mm ×25.5mm
- Footprint: 55.5mm × 8.2mm
- B-mode Frequencies: 3.8~9.0, 5.0~12.0, 6.0~15.4 MHz
- Harmonic Frequencies: 10.0, 11.0, 12.0 MHz
- Color Frequencies: 5.0, 6.2, 7.2, 8.3(HR flow) MHz
- PW Frequencies: 5.0, 6.2, 7.2 MHz
- Biopsy Guide: NGB-054, multi angle, reusable

9.4 Phased array

• SP5-1U

- Single crystal probe
- Application: Abdomen, Cardiac, Vascular
- Bandwidth: 1.5 - 4.5MHz
- Number of Elements: 80
- Field of View (max): 90°
- Extended FOV: 90°
- Depth: 2-38cm
- Physical Footprint: 38.2mm × 30.5mm
- Footprint: 23.4mm × 15.2mm
- B-mode Frequencies: 1.5~2.5, 2.5~3.5, 3.5~4.5 MHz

- Harmonic Frequencies: 3.0, 3.5, 3.5, 4.0, 4.0MHz
- Color Frequencies: 2.0, 2.3, 2.5, 2.5(HR Flow) MHz; TDI: 3.0, 3.8 MHz
- PW Frequencies: 2.0, 2.3, 2.5 MHz; TDI: 2.5, 4.0 MHz
- CW Frequencies: 2.0 MHz
- Biopsy Guide: NGB-011, multi angle, reusable

• P10-4U

- Application: Abdomen, Cardiac, Pediatric, Nerve, Vascular
- Bandwidth: 3.0-11.4MHz
- Number of Elements: 128
- Field of View (max): 90°
- Extended FOV: 90°
- Depth: 2.0-16.5cm
- Physical Footprint: 15.1mm × 10.2mm
- Footprint: 15mm × 9.1mm
- B-mode Frequencies: 3.0~6.8, 3.8~10.2, 4.6~11.4 MHz
- Harmonic Frequencies: 7.5, 8.0, 9.0 MHz
- Color Frequencies: 4.0, 5.0, 5.7, 6.3 (HR Flow)MHz; TDI: 5.7, 6.2 MHz
- PW Frequencies: 4.0, 5.0, 5.7 MHz
- Biopsy Guide: not available

• P7-3TU/ P7-3Ts

- Application: Cardiac
- Bandwidth: 2.3-7.2MHz
- Number of Elements: 64
- Field of View (max): 90°
- Extended FOV: 90°
- Depth: 2.0-38.0cm
- Physical Footprint: 14mm × 12mm
- Footprint: 12.2mm × 12.2mm
- B-mode Frequencies: 2.3~5.4, 2.8~6.4, 3.3~7.2 MHz
- Harmonic Frequencies: 5.0, 6.0, 7.0 MHz
- Color Frequencies: 2.7, 3.3, 4.0, 4.0(HR Flow) MHz; TDI: 5.0, 6.2 MHz
- PW Frequencies: 2.7, 3.3, 4.0 MHz
- Biopsy Guide: not available

• P7-3U

- Application: Abdomen, Cardiac, Nerve, Pediatric, Vascular
- Bandwidth: 2.3-8.0MHz
- Number of Elements: 96
- Field of View (max): 90°
- Extended FOV: 90°
- Depth: 2-38cm
- Physical Footprint: 34mm × 24.5mm
- Footprint: 20.4mm × 12.8mm
- B-mode Frequencies: 2.3~5.4, 2.8~7.4, 4.2~8.0 MHz
- Harmonic Frequencies: 5.0, 6.0, 7.0MHz
- Color Frequencies: 2.7, 3.3, 4.0, 4.0(HR Flow) MHz; TDI: 5.0, 6.2 MHz
- PW Frequencies: 2.7, 3.3, 4.0 MHz
- Biopsy Guide: not available

• P8-3Ts

- Application: Cardiac
- Bandwidth: 2.3-7.2 MHz
- Number of Elements: 48
- Field of View (max): 90°
- Extended FOV: 90°
- Depth: 2.0-38cm
- Physical Footprint: 10.7mm × 7.9mm
- B-mode Frequencies: 2.3~5.4, 2.8~6.4, 3.3~7.2 MHz
- Harmonic Frequencies: 6.0, 6.5, 7.0 MHz
- Color Frequencies: 3.3, 3.8, 4.4, 4(HR Flow) MHz; TDI: 5.0, 6.2 MHz
- PW Frequencies: 3.3, 3.8, 4.4 MHz; TDI: 5.0, 6.2 MHz
- CW Frequencies: 3.0 MHz
- Biopsy Guide: not available

9.5 Bi-Plane

• ELC13-4U

- Convex & Linear
- Application: Urology
- Bandwidth:
  Convex: 3.5-9.5 MHz
  Linear: 3.2-12.8 MHz
- Number of Elements: 192
- Field of View (max):
  Convex: 177°
  Linear: 6.48cm
- Extended FOV: 217° (Convex);

40°(Linear)
- Convex Radius: 10mm (Convex)
- Depth:
  Convex: 1.5-28cm
  Linear: 1.5-35cm
- Steered Angle (Linear):
  -B: +/-6°, +/-12°
  -C: +/-5°
  -PW: +/-15°, +/-10°, +/-5°
- Physical Footprint:
  Convex: 20mm × 20mm
  Linear: 19.5mm × 19.5mm
- Footprint:
  Convex: 20mm × 9mm
  Linear: 71.4mm × 9mm
- B-mode Frequencies:
  Convex: 3.5~6.0, 4.5~7.5, 5.5~8.8, 6.5~9.5 MHz
  Linear: 3.2~7.8, 5.3~9.0, 5.8~10.0, 7.0~12.8 MHz
- Harmonic Frequencies:
  Convex: 8.0, 9.0, 10.0 MHz
  Linear: 10.0, 11.0, 12.0 MHz
- Color Frequencies:
  Convex: 4.4, 5.0, 5.2, 5.5(HR Flow) MHz
  Linear: 6.0, 7.2, 8.3, 9(HR Flow) MHz
- PW Frequencies:
  Convex: 4.5, 5.0, 5.5 MHz
  Linear: 5.0, 6.3, 7.1, 8.3 MHz
- Biopsy Guide: NGB-051, multi depth, reusable

10 Peripheral Devices and Accessories

10.1 Black/white video printer
- Digital
  MITSUBISHI P95DW-N
- Analog
  SONY UP-X898MD

10.2 Color digital printer
SONY UP-D25MD

10.3 Graph/text printer
HP OFFICEJET PRO 8100

10.4 Built-in DVR
- Built-in digital video recorder, save space and is a useful tool for education and memory
- Max storage length each time: 60 min

10.5 Gel warming
- Support gel warming with 3 angle position: 15, 45, 90 degrees
- Easily be disassembled off system for cleaning
- Temperature with 4 levels: off/34°C/37°C/40°C, with deviation of ±1°C
- Light indicator for temperature protecting
- Dimension: 82(D)*78(W)*119(H) mm
- Weight: approx. 240g (net)
- Continuous operation time: >12h

10.6 Footswitch
- USB port: FS-81-SP-2(single pedal), 971-SWNOM (2/3-pedal)
- Support User-definable functions (Freeze, Save, Print)

10.7 ECG
- 6-pin, AHA/IEC, for 3-lead wires
- ECG wave display: on/off
- ECG source: Lead/External
- Position: 0~100%, 5%/step
- Trig mode: off/single/dual/timer
- Gain: 0-30, 1/step
- Sweep speed: 6 steps
- Invert: on/off

10.8 PCG (not for sale in EU countries)
- PCG wave display: on/off
- Gain: 0-30, 1/step
- Speed: 6 steps
- Smooth: 1-4, 1/step

10.9 Barcode reader
- SYMBOL LS2208 (1D)
- SYMBOL DS4308 (2D)

10.10 Built-in Wireless adapter
- Encryption: WPA, WPA2
- Max transfer speed: 300Mbps
- Protocols: IEEE 802.11 ac/a/b/g/n
- Frequency: 2.4G/5G

11 System Inputs and Outputs

11.1 Video/Audio input
- Microphone: 1 port

11.2 Video/Audio output
- S-Video out: 1 port, PAL/NTSC
- HDMI: 1 Port
- VGA out: 1 port
- Audio out: 2 ports

11.3 Physio input
- Support ECG/PCG signal
- ECG: 1 port
- PCG: 1 port

11.4 Other input/output
- USB: 5 ports
- Ethernet: 1 port

12 Safety and Conformance

12.1 Quality standards
- ISO 9001
- ISO 13485

12.2 Design standards
- CSA C22.2 No. 601-1
- 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 ultrasound 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:
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