Mobile, solid and affordable ESE-35 provides excellent value across the full range of general imaging and women healthcare applications. It is also perfect for regional nerve block, musculoskeletal, rheumatology applications by:

- Exceptional image quality including high end 3D/4D capability
- Versatile features and functions
- Amazing superficial imaging for breast and other small parts.
- Up to 22MHz capability provides excellent visualization tools in regional nerve block, musculoskeletal, rheumatology clinical applications
- Easy to use workflow with touch panel and 18.5” monitor

System Overview
Architecture
- The revolutionary RF platform, The First In The World, allows for more accurate information. This platform transfers all RF data for computing without any information loss. It has a much better advantage in detail imaging than current advanced platforms
- Thanks to the RF platform, it allows the development of many RF-based processing algorithms, which have ultra-premium contrast and resolution imaging
- This unique platform is capable of processing multiple data streams simultaneously
- Up to 25MHz next generation digital broadband and high resolution acoustic beamforming

- The new 12 bit, low noise, digital circuitry, with up to 280db dynamic range has improved 2D performance and increased Doppler sensitivity
- Next generation adaptive image processing for noise and artifact reduction that improves tissue presentation and edge definition
- Fully independent, triplex multiple mode operation for easy in Doppler procedures
- Multi-processors allow simultaneous mode changes and support for advanced system functionality
Applications
• Abdomen
• Obstetric
• Gynecology
• Cardiology
• Urology
• Vascular
• TCD
• Small Parts
• Pediatrics
• Intra-operative

Imaging features
• 2D grayscale imaging
• Harmonic imaging both in tissue harmonic and pulse inversion harmonic technologies
• VFusion, directional-enhanced information compounding
• VSpeckle, specialized and adaptive imaging processing to remove speckle noise artifacts and enhance tissue edge for clarity and accuracy
• VTissue, the advanced adaptive image processing to compensate for sound and speed variation in different tissue
• Auto imaging optimization
• Easy Comparative Function to compare previous exam
• M-mode
• Color Doppler imaging
• Power Doppler imaging
• Pulse wave Doppler imaging
• Simultaneous 2D and M mode
• Duplex 2D/PW Doppler
• Triplex 2D/Color/PW Doppler
• High PRF pulsed wave Doppler
• Continuous wave Doppler
• Zoom

• FULL screen imaging to enlarge imaging size
• Dual real time imaging without compromising imaging size
• PView for panoramic imaging (Optional)
• TView for trapezoidal imaging
• Tomographic display (MCUT)
• Auto NT* (Optional)
• Free 3D * (optional)
• 3D/4D imaging
• HQ(Optional)
• Inversion mode(Optional)
• Magic Cut (Optional)
• Smart Touch 3D/4D Operation(Optional)
• Smart 3D Volume Calculation (Optional) *
• Multiline-Free View (Optional)
• VCI(Optional)
• Niche view(Optional)
• Color M-mode(optional)
• Multi Angle M-mode with 360 degree rotation (Optional)
• Tissue Doppler (TD) mode*
• Tissue Velocity Imaging (TVI) mode* (optional)
• Tissue Velocity M (TVM) mode (optional)*
• Auto IMT function* (optional)

Standard features
• Up to 25Mhz high frequency in system platform. Up to 22MHz’s probes are supported
• RF platform and RF data processing
• Up to 1500 seconds standard cine storage
• 1T HDD
• Integrated DVDRW
• Integrated black/white thermal video printer slot
• Patient information database
• Image archive on hard drive
• Quick store to USB memory stick
• Quick store to hard drive
• Quick print to B/W and color thermal video printer
• Network storage and printing
• Full measurement and analysis package
• Real time auto wave Doppler track and calculations
• Vascular calculations
• Cardiac calculations
• OB calculations and tables
• Gynecological calculations
• Urological calculations
• Renal calculations
• Volume calculations
• Barcode reader for patient information input (optional)
• Wireless networking for easy data sharing, storage and printing (optional)
• Bluetooth for image data transfer (optional)
• Image data transfer directly by E-Mail with network access (optional)
• Up-to-date connectivity and data management solutions, wireless, LAN, Bluetooth, E-Mail, integrated database
• DICOM compatibility*
• Three active probe ports, plus one dummy probe port
• 5 USB ports
• 8 TGC slides
• Average 4 multiple adjustable frequency in every probe and mode
• Up to 512 line density
• 1 DVI-D interface
• 1 Audio in interface; 1 Audio out interface
• 1 Speaker interface
• 1 RJ45 interface

Ergonomics
• Unique human oriented design for comfort and convenience

• Fully articulating 18.5-inch high resolution flat panel display
• Lifted operation panel 140 mm
• Easy access DVD media drive
• 3+1 easy access transducer ports
• 4 transducer holders (removable for easy cleaning)
• Integrated touchable alphabetic keyboard
• Simple, easy and effective cable management structure

Keyboard
• Highly sensitive 10 inch capacity touch panel
• Intuitive, configurable and touchable interactive operation interface
• Ergonomic hard keys for general ultrasound operations
• 8 TGC slides, functionality at any depth
• Backlight keys

Image display screen
• 18.5 inch high resolution LED technology
• Brightness, contrast and color temperature adjustment
• Adjustable Gamma curve optimization for dedicated applications
• Big angel swivel and tilting capability

Peripherals
• B&W thermal video printer: Sony UPD897MD (optional)
• Color thermal video printer: Sony UPD25MD (optional)
• Memory stick (optional)
Dimensions and Weight
- Height: 1260mm
- Width: 605mm
- Depth: 875mm
- Net Weight: 60kg

Electrical Power
- Voltage: 100-240V AC
- Frequency: 50/60Hz
- Power: < 470VA for console only

Transducer Technology
- Xcen technology for wideband frequency
- Pure wave technology for high resolution imaging
- Unique and high technical Xcen probe connector to adapt all different type of product models

Transducer types
- Convex array
- Linear array
- Phase array
- 4D probe
- Endocavity probe
- Micro-convex array

Transducer selection
- Electronic switching of transducers
- User customizable imaging presets for each transducer and application
- Automatic dynamic receiving focus in all transducers
- Multiple adjustable transmit focal zone, up to 8 focal zone

G2-5C Broadband Curved Array
- Field of view: 66 degree

F2-5C Broadband Curved Array
- Field of view: 59 degree
- Convex radius: 60mm
- Application: abdomen, OB/Gyn, urology, pediatric
- Frequency range: 1.6-5.3MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
- Reusable biopsy guide available (not available now, but will be supported in the future)

D3-6C broadband curved array volume probe
- Field of view: 75 degree
- Convex radius: 40mm
- Application: abdomen, OB/Gyn, urology
- Frequency range: 1.8 – 7.2MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic, 3D/4D grayscale
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
G4-9M broadband micro convex array
• Applications: vascular, small parts
• Frequency range: 3.3 -12.6MHz
• Pulsed wave Doppler, color Doppler, power Doppler, harmonic
• Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

X6-16L broadband linear array
• Fine pitch, high resolution
• Applications: vascular, small parts
• Frequency range: 5 .05-15.50MHz
• Pulsed wave Doppler, color Doppler, power Doppler, harmonic
• Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

U5-15LE broadband linear array
• Fine pitch, high resolution
• Applications: small parts, specially for breast, vascular
• Footprint: 51.2mm
• Frequency range: 3.2-12.0 Mhz
• Pulsed wave Doppler, color Doppler, power Doppler, harmonic
• Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
• Reusable biopsy guide available

D4-9E broadband micro convex 4D endocavity array
• Field of view: 141 degree
• Convex radius: 10mm
• Application: Ob/Gyn, urology
• Frequency range: 3.1 - 12MHz
• Pulsed wave Doppler, color Doppler, power Doppler, harmonic, 3D/4D grayscale,
• Multi-imaging frequency setting in 2D, 3D/4D, Harmonic, color Doppler and Wave Doppler modes

G1-4P phased array
• Applications: cardiac, abdomen, Ob/Gyn, Urology
• Field of view 90 degree
• Frequency range: 1.09-4.18Mhz
• Pulsed wave Doppler, continuous wave Doppler, color Doppler, power Doppler, harmonic

X4-9E broadband micro convex endocavity array
• Field of view: 180 degree
• Convex radius:8.8 mm
• Application: ob/gyn, urology
• Frequency range:3.4-12.5 MHz
• Pulsed wave Doppler, color Doppler, power Doppler, harmonic
• Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

X4-12L broadband linear array
• Fine pitch, high resolution
**F4-9E broadband micro convex endocavity array**
- Field of view: 150 degree
- Convex radius: 10mm
- Application: Ob/Gyn, urology
- Frequency range: 3.3 - 11MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
- Reusable biopsy guide available

**F4-12L broadband linear array**
- Fine pitch, high resolution
- Applications: vascular, small parts
- Frequency range: 4.0 -12.1MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**G3-10PX phased array**
- Application: pediatric cardiology, abdomen,
- Field of view: 90 degree
- Frequency range: 2.0-8.0 Mhz
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**X9-22L broadband linear array**
- Fine pitch, high resolution
- Applications: msk,nerve,small parts
- Frequency range: 5.0-22MHz
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**S2-9C Broadband Curved Array**
- Field of view: 60 degree
- Convex radius: 60mm
- Application: abdomen, ob/gyn, urology, pediatric
- Frequency range: 1.2-5.2MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**B2-6C broadband convex array**
- Field of view: 72.7 degree
- Convex radius: 20mm
- Application: abdomen, ob/gyn, urology, interventional guide
- Frequency range: 2.0-7.0 MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**X3-10L broadband linear array**
- Aperture size: 6mm
- Application: abdomen, pediatric
- Frequency range:2.7-9.3 MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

**G3-9M broadband micro convex array**
- Field of view: 91.7 degree
- Convex radius: 14mm
- Application: abdomen, pediatric
- Frequency range: 3.5-10MHz
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
Advanced Imaging controls
• Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes

VFusion
• Available on all transducers and for 2D, 3D/4D (except phase array)
• Up to 5 levels of directional imaging fusion to enrich information
• Operate in conjunction with VSpeckle, harmonic imaging

VSpeckle
• Available on all transducers and for 2D, 3D/4D
• Virtually eliminate speckle noise artifact and dynamically enhances tissue margins
• Selectable multiple levels of speckle noise reduction and smoothing
• Operates in conjunction with VFusion and harmonic imaging

VTissue *
• Advanced imaging processing to adapt to the speed of the ultrasound variation in different tissue
• Improved detail resolution and conspicuity of lesions
• Presentable sound and speed in different applications
• One touch operation to ease diagnosis

Tissue Doppler (TD)
• Present wall motion spectrum by using Doppler principle
• Provide wall motion direction and velocity information

Tissue Velocity Imaging (TVI) (Optional)
• Color codes the velocities in tissue
• Present tissue color imaging by using Doppler principle
• This color image is overlaid onto the 2D image
• Captures low flow but high amplitude signals associated with wall motion

Auto NT (Nuchal Translucency) measurement (Optional)
• Automatically detect Nuchal Translucency in interest box
• Automatically report thickness result of NT

Auto IMT (Intima-Media Thickness) measurement (Optional)
• Automatically detect intima media thickness in interest box
• Automatically report the result of IMT
• Available in linear probe

Smart 3D Volume Measurement(Optional)*
• Trace the margin of the irregular circle in different slices of volume data in irregular shape
• Automatically report the volume of the irregular object

Auto Follicle(2D/3D)(Optional) *
• Just click on the area of follicle in B mode, the area of this follicle will be reported automatically
• Report the area of different follicle in the volume data automatically

Next generation RF-based image processing
• Available on all imaging transducers in 2D grayscale modes
• Virtually eliminates speckle noise artifact and dynamically enhance tissue edge
• Operates with other real-time processing algorithms

Inversion mode(Optional)
• This render mode is used to display anechoic structures such as vessels
• It invert the gray values of the rendered image, such as black image information become white and vice versa

Magic cut(Optional)
• Ability to edit images, make possible to cut away structure obstructing the view in the ROI
• Several cutting methods available

Smart Touch 3D/4D Operation(Optional)
• Fully utilize touch panel possibility for easy operation, such as rotation 3D rendering image, move ROI, create line by finger

Free View(Optional)
• Provide any plane view to visualize the internal tissue information
• Improve the contrast resolution to facilitate the detection of diffuse lesions in organs
Imaging modes
2D Imaging
• Pre-defined ATGC (adaptive temporal gain compensation) curves optimized for consistently excellent imaging
• B/M acoustic output: 0-100%
• Depth: able to adjust from 1 to 36cm
• Select between 1 to 8 transmit focal zones
• Reverse function: on/off
• VFusion function
• VSpeckle function
• Harmonic imaging both tissue harmonic and phase inversion
• Cineloop image review
• Selectable 2D line density
• Dual imaging with independent cineloop
• 256(8 bit) gray level
• Multiple color maps with chroma imaging
• FULL screen imaging to larger image size
• Multi frequency: probe dependent
• Gray filter: 6 steps
• Persistence: 8steps
• Selectable image angles, probe dependent
• Gain: 0-100%
• Dynamic range: 30-280 db
• VSharpen to enhance edge contrast
• Smooth to improve spatial resolution
• EdgeEnhance to improve detail information and contrast
• VNear to enhance SNR of near field

Harmonic Imaging
• Supports both tissue harmonic and phase inversion imaging (transducer and frequency dependence)
• Second harmonic processing to reduce artifacts and improve image clarity
• Maximize detail resolution and enhance contrast
• Available on all imaging transducers
• Extends high performance imaging capabilities to all patient body types

M mode
• Selectable sweeping rates
• Time marks: 0.025 – 0.5 second
• Selectable display format prospective or retrospective (1/3-2/3, 1/2-1/2, 2/3-1/3, side by side 1/2-1/2, side by side 1/3-2/3, full screen)
• Chroma colorization with multiple color maps
• Cineloop review for retrospective analysis of M-mode data
• 256 gray levels

Color Doppler mode
• Available on all imaging transducers
• Automatically adapts transmit and receive bandwidth processing based on the color box position
• Cineloop review with full playback control
• Steering on linear array transducers
• Color flow M mode display for tissue motion and flow velocity(optional)
• Selectable in baseline, line density, flash reduction, persistence, maps, frequency, PRF, wall filter, packet size, color level, sensitivity, focus position, acoustic power, and smooth
• Color gain
• Region of interest
• Baseline invert
• Simultaneous mode during PW mode
• Smoothing
• Wall filter
• Zoom
**Power Doppler mode**
- High sensitive mode for small vessel visualization
- Available on all transducers
- Cineloop review
- Multiple color maps
- Individual controls for gain
- Selectable baseline, line density, flash reduction, persistence, maps, frequency, PRF, wall filter, packet size, color level, sensitivity, focus position, acoustic power, and smooth
- Adjustable region of interest

**Pulsed Wave (PW) Doppler**
- Ultra high resolution spectral FFT rate
- Angle correction with automatic velocity scale adjustment
- Normal, invert display around horizontal zero line
- Selectable gray filter, dynamic range, frequency, PRF, wall filter, baseline, angle correct, sample volume
- Selectable sweep speeds: 8 steps
- Maximum velocity range: 12m/s
- PW acoustic output: 0-100%
- Selectable low frequency signal filtering with adjustable wall filter settings
- Selectable grayscale curve for optimal display
- Selectable chroma colorized maps
- Selectable display format prospective or retrospective (1/3-2/3, 1/2-1/2, 2/3-1/3, side by side 1/2-1/2, side by side 1/3-2/3, full screen)
- Auto function to optimize spectral Doppler display.

**Digitally enhanced stereo output**
- 256 gray levels
- Post-processing in frozen mode includes map, baseline, invert and chroma
- Simultaneous or duplex mode of operation
- Simultaneous 2D, color Doppler, pulsed Doppler
- High PRF capability in all modes including duplex and triplex

**Continuous Wave Doppler (CWD)**
- Cardiac sector array transducer only
- Maximum velocity range: 18.5m/s

**3D/4D**
- 3D/4D rotation
- Grayscale imaging controls
- Selectable rendering approaches
- Unique high quality rendering algorithm
- Selectable gray maps
- Multi slide cutting (MCUT)
- Cineloop 3D
- Review volume

**PVView**
- Real time extended field of view composite imaging
- Ability to back up and realign the image during acquisition
- Full zoom, cineloop review and image rotation capabilities
- User can measure distance and area
- Measurement can be made on individual frames during cineloop review
- Available on linear transducers
**TView**
- Expand view of scanning
- Available on linear transducers

**Auto**
- Intelligent one button automatic optimization in 2D and Doppler modes
- Automatically adjust PRF and baseline in Doppler

**Tissue Doppler Imaging (TD) ***
- Present wall motion spectrum by using Doppler principle
- Provide wall motion direction and velocity information
- Available on all sector transducer for cardiac imaging
- Gain

**Tissue Velocity Imaging (TVI) Optional**
- Color codes the velocities in tissue
- Present tissue color imaging by using Doppler principle
- This color image is overlaid onto the 2D image
- Captures low flow but high amplitude signals associated with wall motion
- Available on all sector transducer for cardiac imaging
- Tissue velocity M mode display for wall motion (optional)
- Gain

**Touch Panel Interface**

**2D mode**
- New patient
- BodyPattern
- Archive
- Comments
- End exam
- Sys setting
- Probe&App
- PView
- Fullscreen
- L/R
- U/D
- Center line
- VSpeckle
- VFusion
- Gray Filter
- Persistence
- Display Format
- Image reference
- Maps
- Frequency
- Focus position
- Focus #
- Dynamic Range
- Line density
- VSharpen
- Biopsy
- Image angle
- Focus width
- Smooth
- Acoustic power
- EdgeEnhance
- Vnear
- NeedleEnhance
- SGC
M Mode
- New patient
- BodyPattern
- Archive
- Comments
- End exam
- Sys setting
- Probe&App
- L/R format
- U/D format
- Maps
- Dynamic range
- Acoustic power
- Sweep speed
- Gray filter
- VSharpen

CF mode
- New patient
- BodyPattern
- Archive
- Comments
- End exam
- Sys setting
- Probe&App
- Invert
- Full Screen
- L/R
- U/D
- Baseline
- Flash Reduction
- Line density
- Persistence
- Display format
- Sync display
- Transparency
- Image reference
- Maps

• Frequency
• PRF
• Wall filter
• Packet size
• Colorlevel
• Sensitivity
• Focus position
• Acoustic power
• Smooth

PW/CW mode
- New patient
- BodyPattern
- Archive
- Comments
- End exam
- Sys setting
- Probe&App
- Invert
- Triplex
- Display format
- Sweep speed
- Gray filter
- Dynamic range
- Trace sensitive
- Auto trace
- Mode/direction
- Maps
- Frequency
- PRF
- Wall filter
- Baseline
- Steer
- Sample volume
- Volume
- Spectrum optimize
- Acoustic power
3D mode
- Comments
- Body Pattern
- Back to 2D
- Start 3D
- Render
- Display format
- Image reference
- View
- Gray map
- VSpeckle
- Quality
- Threshold
- Transparency
- Volume angle
- Auto rotate (after data acquisition)
- Movement step (after data acquisition)
- Slice position (after data acquisition)
- Speed (after data acquisition)
- Rotation angle (after data acquisition)
- Rotation direction (after data acquisition)
- 3DMcut (after data acquisition)
- Magic Cut (after data acquisition)
- Free View (after data acquisition)
- Smart Touch 3D/4D operation (after data acquisition)

4D mode
- Comments
- Body Pattern
- Back to 2D
- Start 4D
- Auto Cine
- Movement step
- Rotation direction
- Render
- Display format
- Image reference
- View
- Gray map
- VSpeckle
- Quality
- Threshold
- Transparency
- Volume angle
- Slice position (after data acquisition)
- 3DMcut (after data acquisition)
- Smart Touch 3D/4D operation (after data acquisition)
**System Feature**

**Display modes**
- Simultaneous capability
- 2D/PW/CW
- 2D/CF or PDI
- 2D/M
- Dual, 2D/2D
- Dual, 2D/2D+CF or PDI
- Dual, duplex and triplax
- Duplex and Triplex mode
- Quad display in 3D/4D application
- 9 slice images display in 3D/4D application
- Time line display
- Independent dual 2D/PW or CW
- Timed based sweep update mode

**Display annotation**
- Institution/hospital name
- Date: 2 types selectable, YY/MM/DD, MM/DD/YY
- Time: 2 types selectable, 24hours and 12 hours
- Operator identification
- Patient name, first, last
- Patient identification: 30 characters
- Gestational age from LMP/EDC/GA/BBT
- Image symbol: Ginkgo leaf
- Power output index
- MI: mechanical index
- TIS: thermal index soft tissue
- TIC: thermal index cranial (Bone)
- TIB: thermal index bone
- Probe orientation marker: coincide with a probe orientation marking on the probe
- Gray/color bar
- Measurement result window
- Probe type
- Application name
- Image depth
- Imaging parameters by mode
- 2D/M mode: acoustic power output, gain, frequency, frame rate, dynamic range
- Color mode: color acoustic power output, color gain, color flow frequency, PRF, wall filter
- PW/CW mode: Doppler acoustic power output, Doppler gain, Doppler frequency, PRF, wall filter, sample depth
- Scanline Gain Compensation (SGC) with 6 slides adjustment
- Focus zone marker
- Body pattern
- PW and CW scale markers: time/speed
- M scale markers: time/depth, time
- System measurement display
- System message display
- Biopsy guide line
- Heart rate

**Simple User Operation Interface**
- Simple user interface and easy workflow, allows one step on probe & application switch, and intuitive user parameter control

**Cineloop**
- Acquisition, storage in memory and display of up to 15000 frames, 1500 seconds long of 2D, color and PW/CW images for review
- Acquisition, storage and replay of Doppler audio
Compare
- Flexibly compare live imaging with stored imaging by one key
- Quick save feature
- The system provides quick save function through USB stick, internal/external HDD, DVD during or after exam
- Configurable saving file format, VRD, DICOM, BMP, PNG, JPG, and AVI

Archive
- Patient data input which include patient ID, name, nationality, birth date, sex, exam physician, quality check, exam operator
- Physical data such as weight, height
- Patient exam management
- Patient exam images storage and management
- Import VRD format data into the system from outside media, such as USB stick, external HDD, DVD
- Export patient data into outside medias

Report
- Automatically pull patient data into the report
- Automatically load measurement worksheet into the report
- Pull related exams’ images into the report
- Write comments in the report
- Print report through network or local printer

Connectivity
- Standard connectivity features
- Local print to on-board or off-board video printers through USB port
- Page report print
- Image export to removable media (DVD, external HDD, USB stick)
- Network linkage
- Image export to network storage servers*
- DICOM export and retrieve *
- Mobile data transfer solution by Blue tooth*(Optional)
- email*(Optional)
- Hot point connection
- VCloud *(Optional)
- Integrated DVDRW
- Support standard DVD media
- Data storage formats include VRD, DICOM, PNG, JPG, BMP, AVI
- VRD and DICOM images stored in disc can be recalled on the system
- PNG, JPG, BMP and AVI images can be played on normal computers
- On-board patient exam storage
- Direct digital storage of static image or cineloop images to internal hard disk drives
- Fully integrated user interface

Probes/application
- Selectable multiple applications
- Edit exist application preset
- Edit user defined preset
- Rename preset
- Return to factory preset
- Quick save user defined parameters in related application
**Safety Conformance**
- Regulatory Notice:
  This device is tested to meet all applicable requirements in relevant. According to 93/42 EEC, it is class Ila medical device.
- Conformity to Standards:
  - IEC 60601-1: 2012 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
  - IEC 60601-1-2:2007 Electromagnetic compatibility - Requirements and tests
  - IEC 60601-1-6:2010 Usability
  - IEC 60601-2-37:2007 Medical electrical equipment - Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
  - IEC 61157:2007 Declaration of acoustic output parameters
  - ISO 10993-1:2009 Biological evaluation of medical devices
  - IEC 62304:2006 Medical device software – Software life cycle processes
  - IEC 62366:2007 Medical devices - Application of usability engineering to medical devices
  - WEEE according to 2012/19/EU
  - RoHS according to 2011/65/EU

**Measurement and Analysis**

**Generic Measurement in 2D mode**
- Depth
- Distance
- Perimeter
- Length and width method
- Ellipse method
- Polygon method
- Spline method
- Tracing method
- Area
- Length and width method
- Ellipse method
- Polygon method
- Spline method
- Tracing method
- Volume
- Single line method
- Dual line method
- Triple line method
- Single ellipse method
- Single ellipse and single line method
- Angle
- Stenosis
- Diameter method
- Square meter method
- A and B ratio
- Diameter ratio
- Square meter ratio

**Generic Measurement in CFM mode**
- CFV
  - point
  - profile
Generic Measurement in M mode
- Depth
- Distance
- Time
- Speed
- Heart rate
- Stenosis
- A and B ratio
- Diameter ratio
- Time ratio
- Speed ratio

Generic Measurement in PW mode
- Speed (include PV (Peak Velocity))
- Time (include AT (Accelerate Time))
- Acceleration
- PS (Peak Speed in systole period)
- ED (The speed in the end of diastole period)
- MD (Minimum speed in diastole period)
- TAMAX (maximum speed in time average)
- TAMEAN (mean speed in time average)
- TAMIN (minimum speed in time average)
- PI (Pulsatility Index)
- RI (Resistance Index)
- PS and ED ratio
- ED and PS ratio
- A and B ratio (A/B ratio)
- Speed ratio
- Time ratio
- Acceleration ratio
- FLOWVOL (Flow Volume)
- MaxPG (maximum pressure gradient)
- MeanPG (Mean pressure gradient)
- SV (Stroke Volume)
- Each volume diameter cardiac
- Time mean speed in each stroke volume
- Cardiac output
- Heart rate

Abdominal Measurement
- General abdomen
- Difficult abdomen
- Kidney
- Renal vessel
- Abdominal trauma

Small Part Measurement
- Thyroid
- Breast
- Testis
- Musculoskeletal
- Upper and lower extremity joint

Vessel Measurement
- Carotid artery
- Upper artery
- Upper vein
- Lower artery
- Lower vein
- Vessel puncture
- Transcranial Doppler

Gynecology Measurement
- Uterus and Plevis
- Follicle

Urology Measurement
- Bladder
- Prostate
- Renal
- Kidney and ureter
- Pelvic Floor dysfunction

Pediatric Measurement
- Neonatal Head
- Neonatal Abdomen
- Pediatric Abdomen
- Pediatric Hip
- FAST

Obstetrics Measurement
- OB Early
- OB Mid
- OB Late
- Fetal Heart

Cardiac Measurement
- General
- LV
- MV
- Ao
- AV
- LA
- RV
- TV
- PV
- RA
- System