GENERAL SPECIFICATION

PHYSICAL SPECIFICATION

- Height: 1,335 ~ 1,710mm (with monitor)
- Width: 530 mm
- Depth: 750 mm
- Weight:
  - 79.8Kg (without accessories)
  - Approx. 100 Kg (with safe working load)

CONSOLE DESIGN

- 3 or 4 Active Probe Ports (Optional)
- 4 Swivel Wheel Cart Based Type
- Articulated Monitor Arm
- Built-in Printer Storages
- Ergonomic Operation Panel
- Touch Screen
- Alpha-Numeric Keyboard
- Trackball
- Probe Holder / Gel Holder
- Front and Rear Handles
- Integrated PC Module
- Integrated SSD
- Windows Embedded Standard 7
- ODD (Optional)
- Gel Warmer (Optional)
- ECG (Optional)

MAIN MONITOR

- 21.5 Inches High Resolution LED Monitor
- Resolution: 1,920 x 1,080 (16:9)
- Number of Color: 16.7 M
- Brightness Adjustment
- Interactive Dynamic Software Menu
- Articulated Monitor Arm
  - Swivel: +/- 160 °
  - Tilt: + 25 ° / - 70 °
  - Lift: 180 mm

CONTROL PANEL

- Touch Screen
  - 10.1 Inches High Resolution LED Monitor
  - Resolution: 1,280 X 800
  - Capacitive Touch Type
  - Virtual Alpha Numeric KBD
- Alpha-Numeric KBD
- 6 User Keys
- Tri-Status backlit
- 6 Probe Holders
- Height Adjustment: 180 mm
- Swivel : +/-30°

PC

- Main Processer: Intel i3-4100E 2.4GHz
- Main Memory: 8 GB
- Built-in SSD: 512GB

ELECTRICAL SPECIFICATIONS

- Frequency: 50/60 Hz
- Voltage: 100 ~ 240 VAC
- Power Consumption: Max. 800 VA with Peripherals
- Heat Dissipation: 2,729.7 [BTU/h]
- System Noise: under 34.8 dB
- Built-in Equipotential Circuit
- Battery(Optional)
  - Scan time: 25 min(Basic mode Live scan)
  - Sleep mode: About 30 sec.(Wake up time)
  - 14.4VDC, 6900mAh, 99.36Watt Lithium-ion Battery
  - Charging time: About 5 Hours

SYSTEM SPECIFICATION

Digitally signed by Lazari Cristina
Date: 2021.07.12 16:03:00 EEST
Reason: MoldSign Signature
Location: Moldova

APPLICATIONS

- Abdomen
- Cardiac
- Gynecology
- MSK
- Obstetrics
- Pediatric
- Small Parts
- Urology
- Vascular

PRESETS

- Abdomen
- Adult Echo
- Adnexa
- Aorta
- Aortic Arch
- Arterial
- Bladder
- Bowel
- Breast
- Carotid
- Deep
- Fetal Heart
- General
- Neo Head
- NT
- Ped Abd
- Ped Echo
- Ped Hip
- Prostate
- Renal
- Spine
- Superficial
- Thyroid
- Testicle
- TCD
- Uterus
- Venous
- 1st Trimester
- 2nd Trimester
- 3rd Trimester

OPERATION MODE

- B-Mode (2D)
- Color Doppler Mode (C)
- Pulse Wave Doppler (PWD)
- Continuous Wave Doppler(CWD): Steered / Static
- Power Doppler Mode (PD)
- S-Flow™ Mode
- M-Mode (M)
- Anatomical M Mode
- Single/Dual/Quad Mode
- Volume Mode
  - 3D / 4D / 3D XI / XI STIC™
- TDI/TDW
- ElastoScan Mode

DISPLAY MODE

- Dual Mode
  - B+B, B+B/C, B+B/PD, B+B/S-Flow
  - ElastoScan + ElastoScan
- Dual Live Mode
  - B+B, B+B/C, B+B/PD, B+B/S-Flow
  - B+ElastoScan
- Real-Time Triplex Mode (Simultaneous Mode)
  - B+C+PW, B+PD+PW, B+S-Flow+PW, B+TDI+TDW
- Duplex, Triplex Mode
  - B+C, B+M, B+3D, B+4D, B+PW, B+PD, B+S-Flow, B+CW, B+C+PW, B+C+CW, B+C+M, B+ElastoScan, B+TDI, B+TDW
- Quad Mode

- Combinations of B/B, B/C, B/PD and B/S-Flow, ElastoScan
- Zoom Mode
  - Write Zoom / Read Zoom / Pen zoom/ Panning
- Needle Mate+
- Panoramic
- Trapezoid

TRANSDUCER TYPES

- Linear Array: LA3-14AD, LA3-16A
- Curved Array: CA1-7AD, CA2-9AD
- Endo-Cavity:ER4-9, EVN4-9
- Micro-Convex Array: CF4-9, CA2-6BM
- Phased Array: PE2-4, PA3-8B, PA4-12B
- Pencil: DP2B , CW6.0
- TEE: MMPT3-7
- Volume Probe (3D mechanical probe)
  - Curved Volume: CV1-8AD
  - Endo-Cavity Volume: V5-9

SYSTEM STANDARD FEATURES

- Hybrid Full Digital Beam-forming
- Frequency Range: 1 ~ 18MHz
- Displayed Imaging Depth (Probe dependent)
  - Minimum Depth of Field: 2cm
  - Maximum Depth of Field: 38cm
- Number of Focal Points: 1 ~ 4
- Transmission Focal Zone Position selection
  - 1 ~ 8 Focal Points Selectable (Probe and Application dependent)
- Continuous Dynamic Receive Focus / Aperture
- Multi-frequency / Wideband Technology
- S-Vue Technology
- Frequency Compounding (FSI)
- ClearVision
- 256 Shades of Gray
- System Internal Dynamic Range: 256
- Maximum Frame Rate
  - 2,000 fps (Hz)
- Maximum Color Frame Rate
  - 400 fps (Hz)
- Image Reverse: Right/Left, Up/Down
- Image Rotation: 90°, 180°, 270°
- Pre Processing
- Post Processing
- Digital Calipers / Measurement
- Cine Memory
  - Capacity: 500 MB
  - Cine loop: Max. 14,000 Lines
  - Image storage: Max. 45,000 Frames / 60 Sec
- QuickScan™
- Report Package
- Body Marker
- System Boot up: Max. 90 Sec
- Probe Change: 2-3 Sec
- User Programmable Preset : Over 30 Presets
- User Programmable Key: 6 Keys
- Touch Screen Menu Editable Function
- SonoView™
- Data Backup / Restore
- Image Exporting and Importing
- PW Velocity Range: 0.1cm/s ~ 8.8m/s
- CW Velocity Range: 1cm/s ~ 19.3m/s

SYSTEM OPTIONS

- 4D
- 3D XI™
- Auto IMT+
- Cardiac Measurement
- CW Function
- DICOM 3.0
- ElastoScan
- EZ Exam+
- Mobile export
- Needle Mate+

LANGUAGE

- Display Language
  - English, French, German, Italian, Spanish, Portuguese, chinse
- Input Language
  - English, French, Italian, German, Spanish, Russian, chinse, Nordic (Norwegian, Finnish, Swedish, Danish)

OPERATING ENVIRONMENT

- Temperature: 10℃ ~ 35℃
- Humidity: Up to 90%
- Pressure: 700 ~ 1060 hPa

PROCESSING

DATA PROCESSING

- System Processing Channel: 573,440
- Raw Data Image Analysis
- Cine
  - Function: save / review / play / stop / pause / export / Trim Start / Trim End
- Clipboard: displays thumbnail images of the acquired data for the current exam
- Enlarged Preview of the image
- Image Archive / Connectivity
- Image format: AVI, MPEG, JPEG, BMP, TIFF, DICOM
- Image Viewer (Sonoview™)
- Measurements, Calculations and Annotations on CINE Playback
- Number of Image Storage (built-in SSD): max. 350,000 images (RAW format)
- Image Preview
- Cine Image Preview
- Recalling Image from the Clipboard
- Scrolling Timeline Memory
- Start and End Frame Selections for Loop Playback

PRE-PROCESSING

- B/M-Mode
  - Dynamic Range
  - Frame Average
  - Frequency
  - Gain
  - Harmonic
  - Pulse Inversion Harmonic (Probe dependent)
  - Line Density
  - Power
  - Reject
  - Scan Area
  - TGC
  - Write Zoom
  - MultiVision (Probe Dependent)
  - Beam Steering (Probe Dependent)
  - Trapezoid (Probe Dependent)
  - Free Angle Plane
- PW Mode
  - Filter
  - Frequency
  - Gain
  - Power
  - PRF (Scale)
  - Sample Volume Angle
  - Sample Volume Position
- CW Mode
  - Sample Rate
  - Filter
  - Gain
  - Power
  - Sample Volume Angle
  - Sample Volume Position

Color Doppler / Power Doppler mode

- Filter
- Frame Average
- Frequency
- Gain
- Line Density
- Power
- PRF (Scale)
- Smoothing
- Sensitivity
- Steer Angle

* 3D / 4D Mode
  - Scan Quality
  - Volume Angle
* ElastoScan Mode
  - Frame Average
  - Frequency
  - Line Density

POST-PROCESSING

* B-Mode
  - Chroma Map
  - Gray Map
  - Image Size
  - Read Zoom
  - ClearVision
  - Sweep Speed
* M-Mode
  - Chroma Map
  - M Mode Map
  - Read Zoom
  - Sweep Speed
* PW / CW Mode
  - Base line
  - Chroma Map
  - Doppler Map
  - Invert
  - Read Zoom
  - Sound
  - Trace Direction
  - Trace Method
* Color Doppler / Power Doppler Mode
  - Balance
  - Baseline
  - Chroma Map
  - Color Map
  - Hide Color
  - Invert
  - Read Zoom
* 3D Mode
  - 3D
  - 3D XI™
  - Accept ROI
  - Chroma Map
  - MagiCut™
  - VOCAL™
  - XI VOCAL™
  - 5D NT
  - XI STIC™
* ElastoScan Mode
  - E-Gain
  - Contrast
  - Color Map
  - Alpha Blending
  - Blending Level
  - Enhancement

CONNECTIVITY

DICOM

* DICOM 3.0
* DICOM Media
* DICOM Performed Procedure Step (PPS)

- Biopsy Guide : Not available
- Application : Abdomen, Cardiac, Vascular, Pediatric
- Safety Class: BF

PA4-12B

- Center frequency : 7MHz
- Frequency Bandwidth : 4 ~ 12 MHz
- Field of view : 90°
- Number of elements : 96
- Biopsy Guide : Not Available
- Application : Cardiac, Pediatric
- Safety Class: BF

PENCIL

CW6.0

- Center frequency : 6.0MHz
- Application : Cardiac, Vascular
- Safety Class : BF

DP2B

- Center frequency : 2.0MHz
- Application : Adult Echo, Ped Echo
- Safety Class : BF

MMPT3-7

- Phased Array (TEE Type)
- Radius of curvature 100mm
- Field of view 90°
- Number of elements 64
- Biopsy Guide Not Available
- Application : Cardiac
- Safety Class BF

MEASUREMENT

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- Caliper
- Abdomen
- Cardiac
- Vascular
- Gynecology
- Obstetrics
- Fetal Heart
- Urology
- MSK
- Small Parts
- Pediatric

CALIPER

- **2D Distance**
- M Distance
- **2D Trace**
- **2D Trace length**
- Doppler Manual Trace
- Doppler Limited Trace
- 2 **Lines Angle**
- **3 Points Angle**
- **Ellipse (Area / Circumference)**
- **Spline**
- Open Spline
- **Closed Spline**
- **%Stenosis (Diameter)**
- **%Stenosis (Area)**
- **1 Distance Volume**
- **2 Distance Volume**
- **3 Distance Volume**
- **Ellipse Volume**
- **Ellipse + Distance Volume**
- **Disk Volume**
- **Slope**
- **Heart Rate (M, Doppler)**
- **Time (M, Doppler)**