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<b>Title</b>	<b>A6 Technical Specifications</b>			
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## Specifications for A6 Portable Ultrasonic Diagnostic System



**SonoScape**

SonoScape Medical Corp

## 1. General Specification

The System adopts the advanced ultrasonic Doppler technologies, including Ultrasound Workstation Print Function, Exam-type Icons, Multi-language User Interface, etc.

Users can perform the system with the minimum requirement of training or guidance. This system has been designed to comply with applicable international standards and regulations, ensuring the safety and availability of this product.

This system is based on the computer technology and Linux operation system, which make the system more flexible and stable. System maintenance and function update can be completed by software updating, through which would promote product value and keep the technological advancement.

The high-performance LCD monitor of the system provides clear images and rich grayscales, and also drastically reduces the system weight.

## 2. Advanced Technologies

- Digital front-end technology
- Tissue harmonic imaging
- Exam-type icons

## 3. Standard Configurations

- Tissue harmonic
- Clipboard
- 5-band adjustable frequency
- Stored images can be measured

- Color display interface
- One key optimization
- Measurement number shortcut keys
- Dicom
- Built-in workstation
- Auto export the report in PDF format
- Movie storage in AVI format
- Chroma
- 4B

## 4. Optional Functions

- CD/DVD writer

## 5. Optional Accessories

- Footswitch
- Biopsy guide bracket
- Trolley
- Backpack
- S-video cable x 1
- BNC video cable x 1
- USB 2.0 cable x 1
- VGA video cable x 1
- USB flash disk
- Removable hard disk drive
- DVD recorder
- Video printer
- Composite video printer
- USB printer
- VCR

## 6. Scan Methods

- Electronic curved array
- Electronic linear array
- Biplane probe

## 7. Applications

- Abdominal
- Obstetrics
- Gynecological
- Cardiac
- Urological
- Vascular
- Small parts

## 8. Imaging Modes

- B mode
- M mode
- B+M mode
- THI mode

## 9. Display Formats

- B+B
- 4B

## 10. System Settings

- General Setting
  - Hospital
  - Date
  - Time
  - Language
  - Screen Save: OFF, 5 minutes, 30 minutes
  - BM Format
  - Image Set
  - Video Set
  - Menu Set
  - LCD Set
  - Beep Set: OFF, ON
  - Date Format: MM/DD/YYYY, DD/MM/YYYY, YYYY/MM/DD
  - SysVersion
- Dicom Setting
  - System Network
    - ezNetwork
    - Set DHCP
    - Set fix IP
    - Static IP
    - NetMask
    - Gateway
  - Server Network
    - Export-USB
    - Export-Remote
    - Remote IP
    - Port number
    - Server name
- Formula Select
  - GS
    - Hansmann
    - Tokyo
    - Hellman

- China
- Nyberg
- CRL
  - Hansmann
  - Tokyo
  - Robinson
  - Hobbins
  - Hadlock
  - Campbell
  - Jeanty
  - Nelson
- BPD
  - Hansmann
  - Tokyo
  - Robinson
  - Kurtz
  - Hobbins
  - Hadlock
  - Campbell
  - Jeanty
  - Mediscan
  - Suresh
- HC
  - Hansmann
  - Hadlock
  - Campbell
  - Mediscan
  - Suresh
- AC
  - Jeanty
  - Campbell
  - Hadlock
  - Mediscan
  - Suresh
- FL
  - Hansmann
  - Tokyo
  - Hadlock
  - Campbell
  - Hohler
  - Jeanty
  - Mediscan
  - Suresh
- OFD
  - Hansmann
- APAD
  - Hadlock
  - Campbell

- Jeanty
- CER
  - Goldstein
  - Hansmann
- ULNA
  - Jeanty
- HUM
  - Jeanty
  - Mediscan
  - Suresh
- OOD
  - Jeanty
- TIBIA
  - Jeanty
  - Mediscan
  - Suresh
- EFW
  - Shepard
  - Handlock
  - weiner/Sbbag
- THD
  - Hansmann
- Number shortcut keys for OB
 

measurements: Type in a number at the box next to a measurement, and you can use this number key as a shortcut to perform the measurement
- Formula Define
  - Item
    - GS
    - CRL
    - BPD
    - HC
    - AC
    - FL
    - OFD
    - EFW
    - HUM
    - AA
    - APAD
    - CER
    - ULNA
    - OOD
    - TIBIA
    - THD
  - Meas (Measurement values)
  - GA
- Comment Setting
  - ABD

- OB
- GYN
- Cardia
- URO
- Smallp
- Other
- System Update

## 11. System Parameters

- Frame rate: up to 60 fps(Probe dependent)
- Grayscale Level: 256
- Scanning Line: 256 lines in B mode; 512 lines in M mode

## 12. B Mode

- B Power: 0%~100%adjustable
- B Frequency: 5 bands adjustable
- Focal Number: 4
- Focus Span: Adjustable
- Line Density: 2 levels adjustable (High/Low)
- Region: Adjustable
- Dynamic Range: 30~165dB, 10 levels selectable
- Persistence: 0~7, 8 levels selectable
- Edge Enhancement: 0~7, 8 levels selectable
- Rotation: 0°, 90°, 180°, 270°, selectable
- BGSC (Grayscale curve): 21 types selectable
- Chroma: 17 types selectable
- Slope: 1~50 adjustable
- Analog Gain (A GAIN): 0~50 adjustable
- Compensation (TGC): 8 levels slider controls
- Gain: 0-255 adjustable
- Zoom: Up to 8 times, 7 levels selectable
- Biopsy: On/Off
  - Position
  - Angle
- One key optimization

## 13. M Mode

- M scan mode: 0 and 1, 2 levels selectable
- Sweep speed: 5 levels adjustable
- Persistence: 8 levels adjustable
- Enhancement: 8 levels adjustable
- Smooth: 8 levels adjustable
- Chroma: 17 types selectable
- Analog Gain (A GAIN): 0~50 adjustable

- Slope: 1~50 adjustable

## 14. B+M Mode

- Power: 0%~100% adjustable
- Frequency: 5 bands adjustable
- M Persistence: 8 levels selectable
- M Smooth: 8 levels selectable
- M Enhancement: 8 levels adjustable
- B GSC (Grayscalecurve): 21 types selectable
- Dynamic Range: 30~165dB,10 levels selectable
- Region: Adjustable
- M scan mode: 0 and 1, 2 levels selectable
- M sweep speed: 2~5, 4 levels adjustable
- Slope: 1~50 adjustable

## 15. Integrated Data Management System

- Hard DiskMemory Capacity: 4G
- USB Interface: 2

## 16. Image Storage and Playback

- Cine playback: Up to 512 frames in B mode, display framerate
- Static and Dynamic image storage in the frozen single or dual mode
- Storage memory size:
  - > jpg images  $\geq 10000$
  - > bmp images  $\geq 2000$
- Freely view stored data on PC
- Reviewed image measurement
- Clipboard function: Achievable

## 17. Disk Management

- File exporting formats:
  - Image: BMP, JPG, DCM
  - Cine: AVI, CIN
  - Report: RPT, PDF
- External storage medium:
  - USB flash drive
  - DVD-R disk
- Reports and images can be previewed
- File can be previewed, deleted, used for DICOM Send

- Patient data, reports and images can be archived to computer through USB port

## 18. DICOM Network

### Communication

- Compliance with DICOM 3.0 standard
- Storage and worklist management
- Storage: Directly transmits images with patient information to a DICOM file server
- Worklist: Querying and management of patient information in HIS and RIS can be performed

## 19. Preset Function

- Users can customize the presets based on different probe and diagnostic part to optimize imaging parameters and adjustment combination
- Users can delete the presets
- Users can import or export presets

## 20. Patient Data Management

- Patient Registration: Name, ID, Birthday,Height, Weight, LMP, EDD, Clinic No., User Name, Bed No.,Create New, Telephone, Address, Comment, etc.
- Sex and Officecan be selected in the drop-down list

## 21. Annotation and Body Mark Setting

- Bodymarkicons categorized with exam modes
- Annotationscategorized with exam modes, andcan be selected and input in the library

## 22. Physical Specification

- Dimensions: 336mm×385mm×345mm
- System weight: approx. 6kg
- Monitor: 12"industrial-gradecolor LCD monitor;tilt forwardor backward
- Probe connector: 2, interchangeable

## 23. Safety Standard

- Comply with IEC60601-1, Class I, BF international standard, FDA track I, SFDA

## 24. Environmental Requirements

- Operation Environment
  - Temperature: +10°C~+40°C
  - Relative humidity: 30%~75% (no condensation)
  - Atmospheric pressure: 700~1060hPa
- Transportation and Storage Environment
  - Temperature: -20°C~+55°C
  - Relative humidity: 20%~90%(no condensation)
  - Atmospheric pressure: 700~1060hPa
- Power Supply
  - 110-240V~, 2.7-1.2A
  - Frequency: 50/60Hz

## 25. Optional Transducers

- Linear Probe
  - L745 (5.0~12.0MHz)
  - L746 (5.0~12.0MHz)
  - L773 (5.0~12.0MHz)
- Curved Probe
  - C351(2.0~6.0MHz)
  - C543(3.0~8.0MHz)
  - C312(2.0~6.0MHz)
  - C612 (4.0~9.0MHz)
  - EC2 (4.0~9.0MHz)
  - 6V4 (4.0~9.0MHz)
- Biplane probe
  - > BCC9-4
  - > BCL10-5

**NOTE:**

- The specifications of this system may change without any prior notification.
- Some products or features may not be available in some countries.
- Please contact your local SonoScape sales representative for more information.

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