

# System Specifications

## signosRT



### MEDICAL APPLICATIONS

Abdominal - Aortic Aneurysm, Urinary Bladder, Free Peritoneal Fluid

FAST Scan

Cardiothoracic - Pericardial Fluid, Pleural Fluid, Lung, BPM

Fetal Presentation, Fetal Heart Rate

Musculoskeletal - Biofeedback

Veterinary

### PHYSICAL CHARACTERISTICS

Weight 13.8 oz (392g)

Dimensions

#### Display Unit

4.5" H x 2.7" W x 0.8" D  
(11.5cm H x 6.8cm W x 2 cm D)

#### Ultrasound Probe

5.5" L x 2.4" W x 1.3" D  
(14cm L x ~6cm W x ~3.3cm D)

#### Connecting Cable

33.8" L (85.8cm L)

### IMAGING MODES & PROCESSING

B-Mode Real-time imaging

M-Mode Time based image

PW-Mode Pulsed Wave Doppler

System Dynamic Range Approximately 120 dB

Scanning Depth 0 to 18 cm (transducer dependent)

Image Processing Gain, grey scale transfer curve

### TRANSDUCERS

S3-5 Sector Annular

S3 Unfocused Single Crystal

### USER INTERFACE

- Touch screen and scroll wheel
- Onscreen alpha-numeric keyboard
- Controls: Scan depth, near gain, far gain, gain rate, zoom, pan, doppler depth, doppler gain, doppler gate width, PRF
- Annotation: Text and voice recording
- Printing: PictBridge compatible USB port
- Display: 2.7" TFT Colour LCD, 240 x 320 pixels, with brightness control
- Grey Scale: 64 shades
- Security : Encryption of image storage, optional password protection
- Stores patient and exam information for later review or transfer to PC
- Directly connect Probe to PC, Laptop or Windows based Tablet via USB

### MEASUREMENT TOOLS

Linear Distance callipers – 4 sets

Auto volume measurement using bladder sequence (0 - 999 mls +/- 15%)

Ellipse and Polygon with area and circumference measurements

M-Mode time and Beats Per Minute (BPM) measurements

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### PRESET SCAN SETTINGS

Default  
Abdomen  
Aorta  
Bladder  
Bladder Auto  
Lung

Large Vessels  
Obstetric  
Obstetric Early  
Pelvic Floor  
TA  
Veterinary  
User Customised Presets

### IMAGE STORAGE

Media	MicroSD™ card. 1Gb, 2Gb, Up to 32GB SDHC (4GB card included)
Storage	4GB MicroSD™ card will store in excess of 10,000 B-Mode Images or 2,000 M-Mode images or 500 Video Images
Storage	Urgent Mode. Internal memory will store 40 B-Mode Images
PC Connectivity	Connects directly to a PC via USB cable. Images can be downloaded to a PC running SigViewer™ software

### APPLICATION SPECIFIC SEQUENCES

Automatic Bladder Volume Calculation

### POWER

Battery Operated	2000mAh Lithium-ion polymer cell
AC	Recharge using Signostics AC power supply – Input : 100-240VAC, 50-60Hz, 0.4A, - Output : 5V, 2.0A
USB	Recharge using USB connection. Output 5V 0.5A
Car charger	Recharge using car charger. Output 5V 1.0A

Fully charge battery in 3.0 hours; 75% charge in 2 hours. (Using AC charger)

Over 120 minutes of continuous scanning

Typical use up to 30 hours (based on four 1 minute scans per hour)

### ENVIRONMENTAL

**Operating Temperature**  
0 - 40°C

**Operating Relative Humidity (non-condensing)**  
10 – 90%

### SIGVIEWER PC SOFTWARE (Included with Signos RT purchase)

- Synchronize images and patient data to PC
- Search and manage patient study database
- Export image data
- Automatic update of Signos RT software
- Compatible with Windows XP, Windows Vista, Windows 7, Windows 8