iViz is a powerful diagnostic tool all within the palm of your hand. The SonoSite iViz was designed to go with you, where you need it. With the iViz in your pocket, you will be ready to tackle those tough clinical questions, whether it be at the bedside or in the field. iViz delivers this value by combining excellent imaging performance, ultra-mobility and ergonomic one-handed operation.
**GENERAL SPECIFICATIONS**

**System Weight:** 570 g (includes battery in system)

**Screen Size:** 7”/17.8 cm high-resolution display dual touch screen

**Image Size:** 1472 x 1104 pixels

**Screen Resolution:** 1920 x 1200 pixels

**Dynamic Range:** Up to 170 dB

**Gray Scale:** 256 shades

**HIPAA compliance:** Comprehensive tool set

**Multi-touch gestures for system controls:** Tap, Pinch and Expand, Swipe (Scroll), Press, and Drag

**System Boot up:** < 35 secs

**Operating System:** Android 4.4.2 OS

**Thermal Index:** TIB, TIC, TIS

**Features:** Rear and front camera

**PROTECTIVE CASE WITH KICKSTAND**

**IMAGING MODES**

- **2D/ Tissue Harmonic Imaging/ M-Mode/ Velocity Color Doppler/ Color Power Doppler**

**TRANSUCERS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bandwidth</th>
<th>Applications</th>
<th>Scan Depth</th>
<th>Direct Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>P21v</td>
<td>5-1 MHz Phased</td>
<td>abdominal, cardiology, lung, ob</td>
<td>32 cm</td>
<td>Yes</td>
</tr>
<tr>
<td>L38v</td>
<td>10-5 MHz Linear</td>
<td>lung, nerve, superficial, arterial, venous, breast, ophthalmic, MSK</td>
<td>9 cm</td>
<td>No</td>
</tr>
<tr>
<td>C60v</td>
<td>5-2 MHz Curved</td>
<td>abdomen, gyn, ob, nerve, MSK</td>
<td>30 cm</td>
<td>Yes</td>
</tr>
<tr>
<td>L25v</td>
<td>13-6 MHz Linear</td>
<td>ophthalmic, arterial, venous, lung, superficial, nerve, MSK</td>
<td>6 cm</td>
<td>No</td>
</tr>
</tbody>
</table>

**IMAGE PROCESSING**

- SonoADAPT Tissue Optimization
- SonoHD3 Imaging Technology
- 4x Live Pan/Zoom Capability
- Dynamic Range and Gain
- ColorHD™ Technology

**STORAGE**

- 64 GB internal flash memory storage (potential to store 250,000 images or 4,000 4-second clips)
- Clip store capability (maximum single clip length: 30 seconds, prospective/retrospective)
- Cine review up to 256 frame-by-frame images

**MEASUREMENT TOOLS AND ANNOTATIONS**

- 2D: Distance calipers, ellipse and manual trace
- M-Mode: Distance and time measurement, heart rate calculation
- User-selectable text labels
- User-defined, application specific annotations

**CONNECTIVITY (EXTERNAL DATA MANAGEMENT)**

- Wireless Printing
- MicroUSB
- Bluetooth Capabilities
- SonoSite Patient Data Archival Software (PDAS) for Wireless/Wired Image, Report Management

**DICOM® Image Management (TCP/IP):**

- Store and Modality Work List
- PC Workstation Image Management (TCP/IP, USB):
  - Direct writing capability to USB 2.0 mass storage removable media, including DICOM format (PC and MAC compatible)
  - Utilize Tricelyx™ to email, review and store images in the cloud (anonymized and/or fully encrypted)
  - Ports, External Video/Audio include HDMI to external display, micro HDMI
  - Integrated speaker

**RELIABILITY AND DURABILITY**

- The system in case with a kickstand shall withstand drop test to 3 feet.
- iviz transducers meet all applicable parts of IEC 60601-1, clause 15.3 for mechanical strength. Additional to this, all transducers shall withstand drop test to 3 feet.
- IPX-7 (watertight equipment) ultrasound transducers.

**SonoSite iviz**

- FUJIFILM Value from Innovation
**TRANSUCER SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Exam Types</th>
<th>Bandwidth (MHz)</th>
<th>Elements</th>
<th>Scan Depth (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P21v</td>
<td>Abdominal, Cardiac, Lung, OB</td>
<td>5-1</td>
<td>64</td>
<td>32</td>
</tr>
<tr>
<td>L38v</td>
<td>Lung, Nerve, Superficial, Arterial, Venous, Breast, Ophthalmic, MSK</td>
<td>10-5</td>
<td>128</td>
<td>9</td>
</tr>
<tr>
<td>C60v</td>
<td>Abdomen, GYN, OB, Nerve, MSK</td>
<td>5-2</td>
<td>128</td>
<td>30</td>
</tr>
<tr>
<td>L25v</td>
<td>Arterial, Venous, Lung, Superficial, Nerve, Ophthalmic, MSK</td>
<td>13-6</td>
<td>128</td>
<td>6</td>
</tr>
</tbody>
</table>

**IMAGE MODES**

- **2D/B-mode**
  - a. Broadband Imaging
  - b. Tissue Harmonic Imaging
- **M-Mode** (M-Mode slow, medium, fast sweep speeds)
- M-Mode is available on all exams
- Color Velocity Doppler (CVD)
- Color Power Doppler (CPD)

**B-MODE IMAGING**

- **B-mode Controls:**
  - a. Depth
  - b. 2D Mode (Near, Far, and Overall gain)
  - c. 2D Mode THI
  - d. 2D optimization (Res, Pen)
  - e. Dynamic Range (adjustable +2/-2)
  - f. Image Orientation (U/R, U/L)

- **Scan depth:** 5.1-32 cm

- **Support acquisition frame rate up to 30 Hz**

- **B-mode Imaging features:**
  - a. Tissue Harmonic Imaging (THI): Transmit at a low frequency and receive at a higher harmonic frequency to reduce clutter, improve lateral resolution and enhance tissue contrast
  - b. SonoHD3: Image processing algorithm that reduces speckle and noise, enhances image quality and border detection

- **Pinch and Expand Zoom**

- **Supports multiple focal zones to improve resolution and uniformity**

**COLOR IMAGING: CVD AND CPD**

- **CVD/CPD Controls/options:**
  - a. Color Gain
  - b. Color Type (CVD, CPD)
  - c. Color Scale
  - d. Color Flow States (High, Medium, Low)
  - e. Color Wall Filter (High, Medium, Low)
  - f. Color Box adjust (size, and steer) thumb controlled

- Max PRF used is 4808 Hz

**USER INTERFACE AND PROGRAMMABLE CONTROLS**

- **High-resolution dual touch screen display**
- One-handed fit and control, LT or RT thumb-operated UI
- Multi-touch gestures for system controls
- Clinical Display Information
- Virtual Keyboard
- **Image Acquisition Keys:** Save, Review, Report, Video Clip Store
- Embedded and custom image labeling

**ONBOARD GUIDES**

- **Integrated procedure protocols:** eFAST, FATE, RUSH
- On-board Product Tutorials
- On-board App based Education Tutorials
- On-board User Guide

**ONBOARD IMAGE AND CLIP STORAGE REVIEW**

- **2D Cine Review:** 256 frames (review)
- **M-Mode Cine Review:** 16.4 seconds
- **Internal Memory:** 64 GB
- **Thumbnail review of saved images and clips**
- **Prospective and Retrospective Clip Store**
- **Video Clip Save Lengths:** 2, 4, 6, 10, 15, 30 and 60 seconds
- **Image Export Format:** PNG, DICOM
- **Report Export Format:** PDF
- **Video Export Format:** AVI, MP4
- **Clip Size:**
  - AVI Format: 442 MB
  - MP4 Format: 52.2 MB
- **Time limit:**
  - Prospective mode: 60 seconds
  - Retrospective mode: 30 seconds

**GENERIC MEASUREMENTS**

- Up to 8 generic measurements at once
- **2D:** Distance, Ellipse + Generic Volume, and Heart Rate
- **Editable results data sheets and reports**
CALCULATION PACKAGES

Ob/Gyn/Fertility:
Measurements: Distance/Ellipse/Trace/Volume, GS, CRL, Yolk Sac, BPD, HC, AC, FL, HL, AFI, Cervix Length, Cerebellum
Calculations: Estimated Fetal Weight, Estimated Due Date, Amniotic Fluid Index, Average Ultrasound Age

Cardiac:
Measurements: Distance/Ellipse/Trace/Area, RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVPWs, MVA, AVA
Calculations: Ejection Fraction, Fractional Shortening, Volume Area, Stroke Volume, LA/Ao, CI, SI

DICOM IMAGE MANAGEMENT

Store/Modality Worklist
Archive Specific Server: Educational
Structured Reporting
Capable of transferring images to a DICOM or Cloud Based Archiver/PACS
DICOM 3.0 compliant

CONNECTIVITY AND EXTERNAL DATA MANAGEMENT

1 – Micro 2.0 USB Port
1 – Micro 1080p HDMI video output
Trice Encrypted data transmission (cloud based storage/archive)

SECURITY

Security features:
• WPA / WPA2 PSK
• 802.1x EAP (WPA2 Enterprise).
EAP methods:
• PEAP w/ MSCHAPv2, GTC and certificates
• TTLS w/ PAP, MSCHAP, MSCHAPv2, GTC and certificates
• TLS w/ certificates
• PWD (password)

WARRANTY

3 year standard warranty on system and transducer

WIRELESS SOLUTIONS

Embedded Wireless Option: 802.11 a/b/g/n, 2.4 GHz and 5 GHz Bluetooth 4.0
WiFi “Print” enabled

ACCESSORIES

Additional 2 bank battery charger
4 – International power supply adapters
Protective case
Custom carry cases
Micro USB drive

POWER SUPPLY

System operates via battery (3 – included)
Input: 100-240 VAC, 0.1-0.3 A, 50-60 Hz
Output: 5V dc, 2 A max; 10 W max
Rechargeable swappable lithium-ion battery
Battery Capacity: 7.4 V, 2.0 Ah (14.8 Wh)
Scan time: 1-hour continuous scanning – use model is quick look intermittent scanning. Please note that scan time may vary depending on applications (color box etc)
Battery charge time: 120 minutes in external 2 bank charger, 4 hours’ charge time with battery in the system if USB charger is used
Battery life: 1 year

SAFETY CONFORMANCE

Conforms to the applicable clauses of the following safety standards:
IEC 60601-1
IEC 60601-1-2
IEC 60601-1-6
IEC 60601-2-37
NEMA UD3
ISO 10993-1
EN 300 328
IEC 62304
IEC 62366
EMC emissions group one class B requirements per CISPR 11/EN 55011