ACUSON Redwood Ultrasound System

System Overview
VA20 SW Release
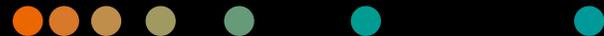
Objectives

- **Review external features**

- Discuss monitor, control panel, and touch screen

- Describe transducers

- Review peripherals

- Discuss care and cleaning

System features

21.5" LCD Monitor

13.3" tiltable touch screen

Adjustable control panel & monitor

87 kg weight (192 lbs)

Easy wheeling castors / individual brakes

4 transducer ports / 1 pencil port

System articulation

Control Panel swivels 90° left

Control Panel swivels 90° right

Storage

Back panel bin

Control panel bin

System castors / steering
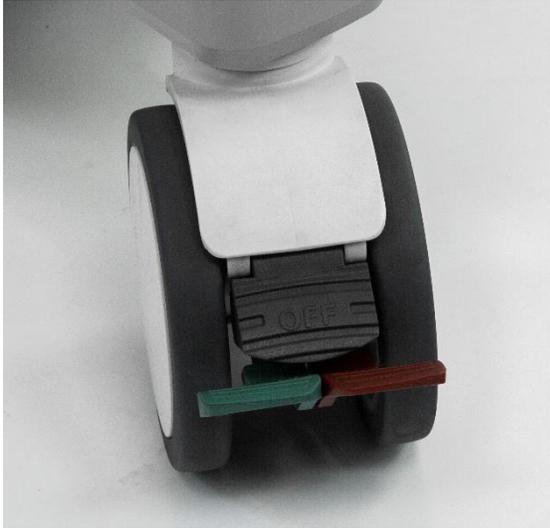
Easy wheeling castors
- Individual brakes
- Lock / steer functionality

Power on and hibernate mode

- Boot-up time from complete shutdown – 150 seconds

- Boot-up time from hibernation – 30 seconds

System Shutdown

A full Shutdown is recommended every 24 hours or 20 hibernates to maintain optimal performance.

Hibernates Remaining: 20

Hibernate   Restart   Shutdown   Cancel
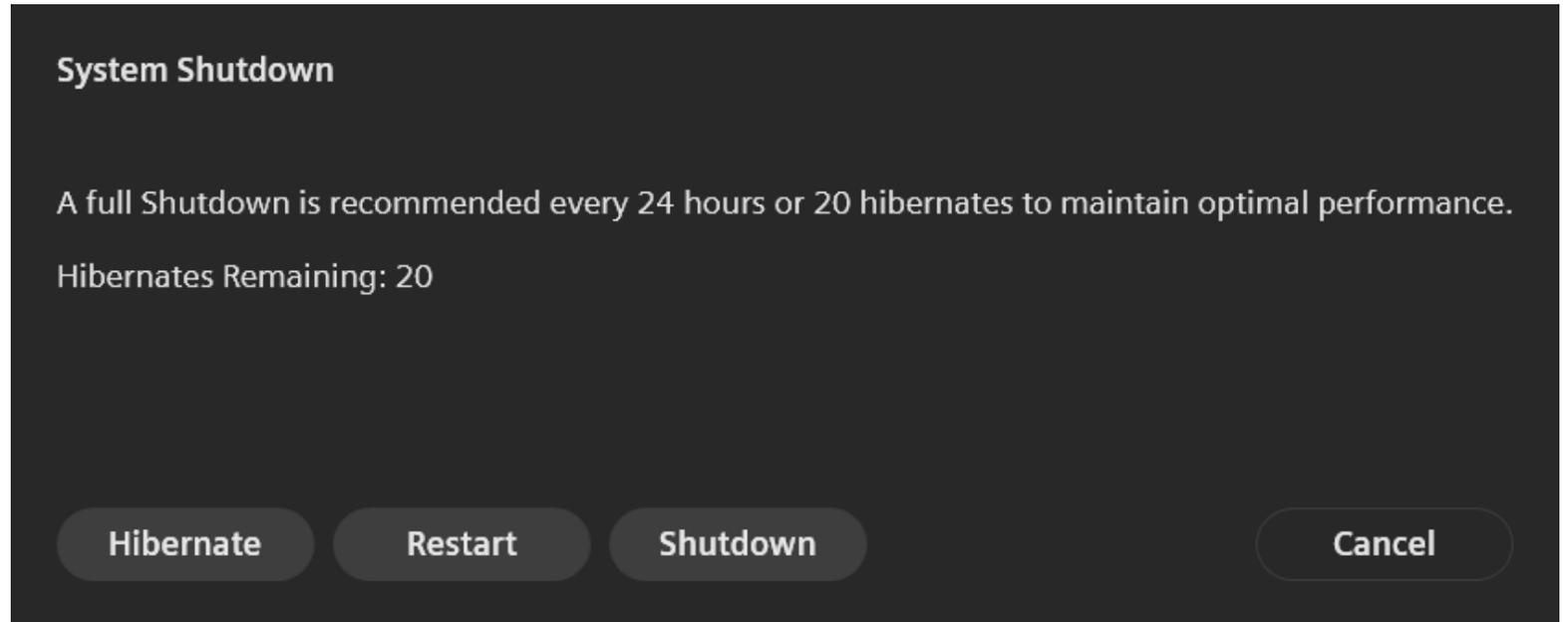
Note: *No standby time limit between exams*

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Monitor

Touch screen

**Touch
screen**

13.3"

**Tilting
adjustment**

**30 degree
adjustment**

2 USB ports

**Left side of
touch screen**

Control panel

5 transducer holders

Integrated gel warmer

Simple and intuitive design

Keyboard
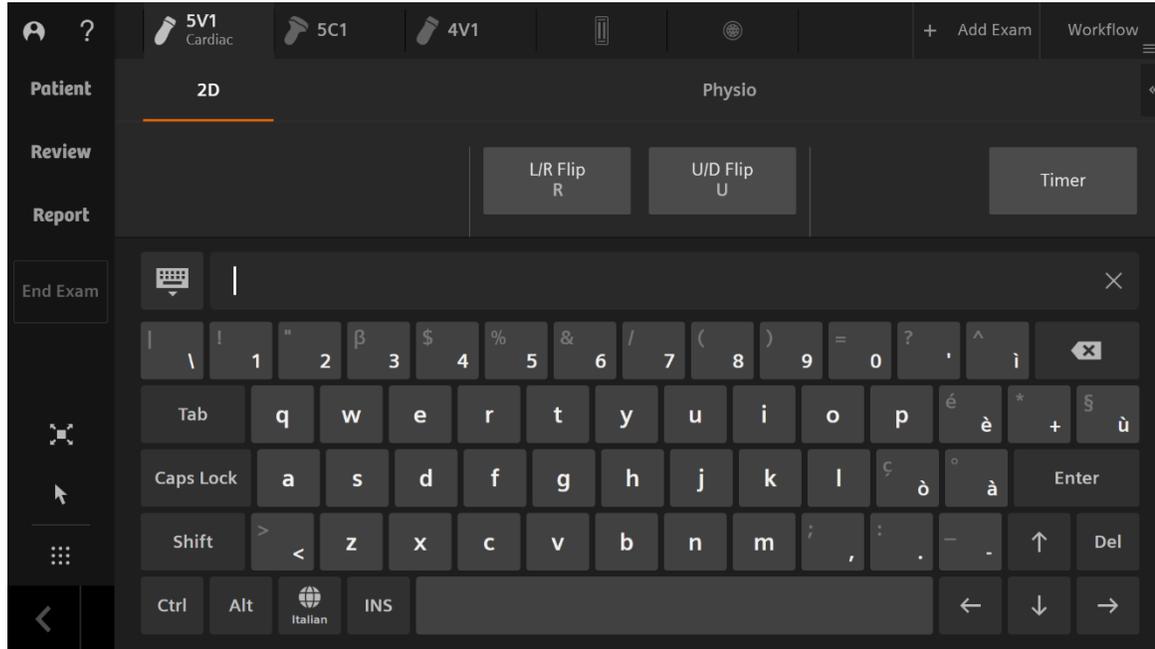
Virtual keyboard

Retractable keyboard

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Transducer ports

5 transducer ports

- 4 active imaging ports
- 1 CW pencil port

Transducer Storage

- Located below ports
- Up to 2 transducers

16 Transducers

Curved Array

- **5C1**
- **9C3**

Linear Array

- **10L4**
- **14L5**
- **18L6**
- **18H6**

Endocavity

- **9EC4**
- **9VE4**

Convex

- **7VC2**

Vector

- **4V1**
- **5V1**
- **8V3**
- **10V4**

Pencil

- **CW2**
- **CW5**

TEE

- **V5Ms**

Transducer updates for VA20

3 new transducers: 7VC2, 9VE4, and 18H6

- 7VC2 - 9VE4 supports 3D / 4D – Abdomen & OB presets
- 18H6 supports CEUS

Additional transducer updates

- 9C3 - Reoptimized OB / Fetal echo exams
- 9EC4 supports Freehand 3D acquisitions
- 5C1 and 4V1 - up to 40cm imaging depth (up to 30cm at VA10)
- 18L6 supports CEUS

5C1 transducer

Workhorse transducer for Abdomen and OB/GYN

- Single crystal technology

- 180 Element with fine pitch for excellent resolution and steering performance

- 1 to 5 MHz wide bandwidth

- Excellent intercostal access due to small footprint (45mm) and tightly curved

5V1 transducer

Adult cardiac transducer

- Single crystal design

- Six frequencies, including fundamental and harmonic

- H High frequency – second and third harmonic blending

- Ergonomic improvements – lighter, smaller footprint and handle, less cable drag

Transducer holders

New design

1. Lift up and out to remove

2. Press down onto rail to attach

Transducer holders

Metal rail holding the
cupholders clicks outward
when latch beneath the control
panel is operated

This is convenient when
cleaning between the slots
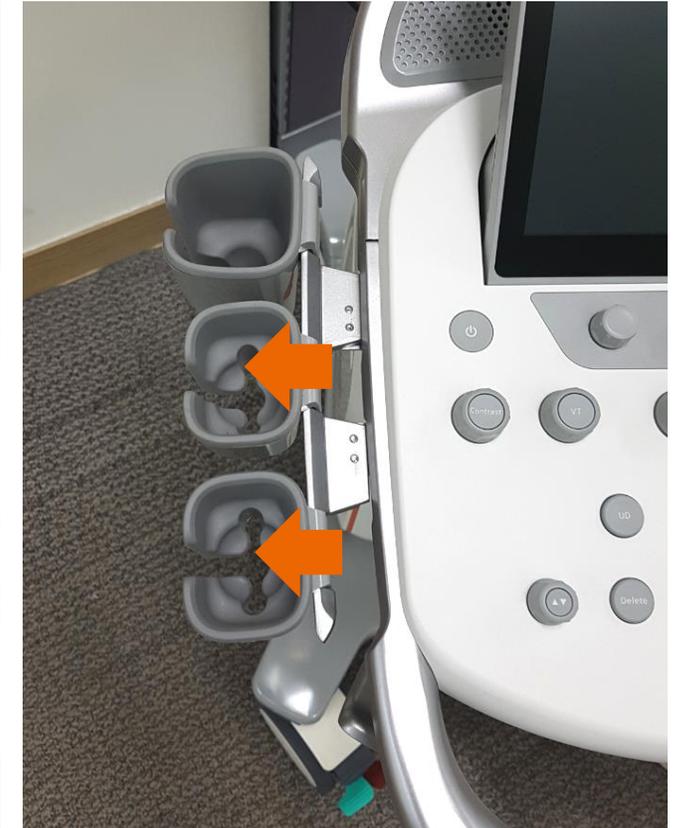
Cable management
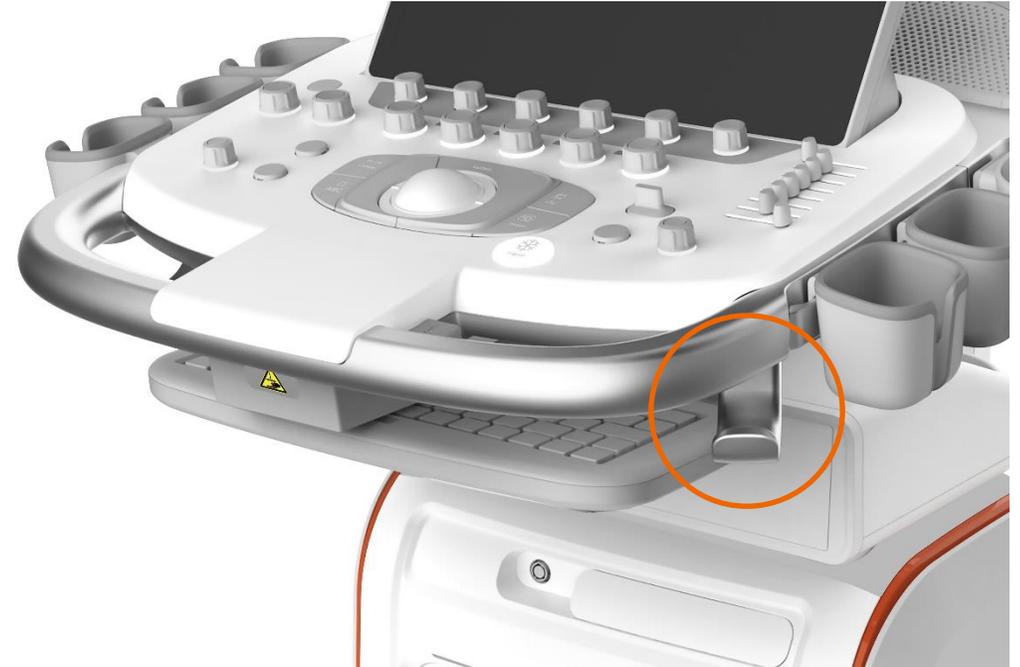
Cable hooks located on front and back corners of control panel

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Peripheral box

- Positioned on top of cart

- Option of BW printer and / or Blu-ray / DVD / CD drive

- Without peripherals, a storage tray is standard

Thermal printer

- SONY UP – D711MD

- Black and white printer

- 50% smaller

Blu-ray / DVD / combination drive

- Recordable disc drive for storage, review and archival of data

- Compatible with only Blu-ray disc or medical-grade DVD media

Foot switch

- Ideal for interventional cases

- Dual configurable functions

- USB connection

Physio module - optional

- ECG with built-in respirometer

- Auxiliary ECG connection

Software DVR

Stream compressed video feed to configured location

- Output stream selection – USB, network, DVD

Compression format

- Full 1080P recording
- Can be played in standard Blu-ray DVD player or USB / network drive

Start / Stop integrated into workflow

- Easy access on touch screen
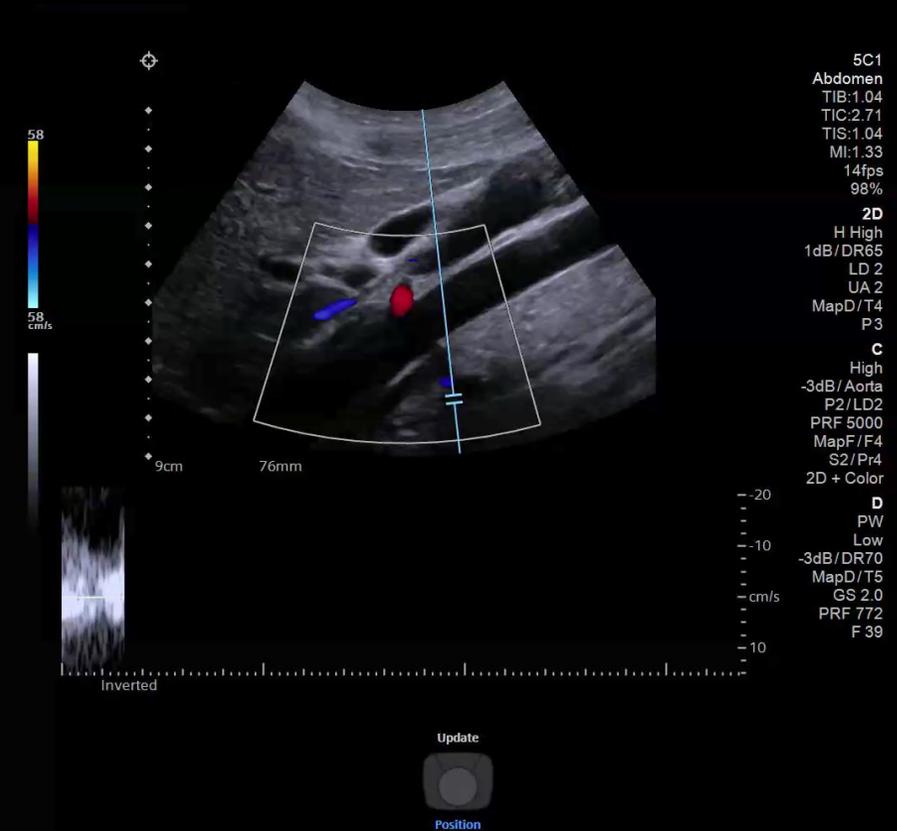
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Cleaning the system

1. Power off ultrasound system and unplug power cord from power supply

2. Use clean gauze pad or lint-free cloth, lightly moistened with mild detergent, to wipe:
   - Touch screen and monitor
   - Control panel
   - Trackball and slide controls

3. After cleaning, use a clean, lint-free cloth to dry

4. Use an approved disinfectant wipe to disinfect system and accessories, except for monitor screen, touch screen, and transducer ports

Cleaning the trackball

1. Rotate ring around trackball counterclockwise and carefully lift to remove

2. Clean ring and trackball with a cotton swab or lint-free pad moistened with a mild detergent

3. Clean inside trackball assembly with a cotton swab or lint-free pad moistened with mild detergent

4. Use an approved disinfectant wipe to disinfect ring, trackball, and trackball assembly

5. Allow components to dry before reassembly

6. Place ring over trackball, aligning tab with point of attachment on assembly, and rotate clockwise until ring snaps back into place

Cleaning the filter

1. Power off system and unplug power supply
2. Push air filter tray in to release locking mechanism and pull tray from system
3. Rinse air filter with running water and allow filter to completely dry (to accelerate drying, gently shake filter or blot with clean, lint-free cloth)
4. Slide air filter tray back into the ultrasound system

! *Inserting air filter tray into ultrasound system while still wet can cause damage*

! *Air filter should be checked and cleaned weekly to maintain proper system cooling*

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Thank you for your enthusiasm!

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Questions?