

Obtaining OB Calculations

1. Press **CALIPER** key.
2. Use **TRACKBALL** to select measurement from on-screen menu. Press **SET**.
3. Place first caliper. Press **SET**.
4. Place subsequent caliper(s). Press **Set**.

Measurement will be displayed on screen and transferred to Worksheet.

Selecting Multiple Gestations

1. Press **CALIPER** key.
2. Roll **TRACKBALL** to top of Measurement menu to highlight **SINGLE**. Press **SET**.
3. Select **Single** or **Multiple** from prompt box.
4. Use **TRACKBALL** to select **OK**. Press **SET**.

Measuring the Heart Rate with M- Mode

1. Press **M** key and obtain M-Mode sweep.
2. Freeze sweep.
3. Roll **TRACKBALL** to select **HR** from measurement menu. Press **SET**.
4. Roll **TRACKBALL** to place measurement marker at the beginning of the cardiac cycle. Press **SET**.
5. Roll **TRACKBALL** to place second measurement marker at the end of the cardiac cycle. Press **SET**.

Heart rate will be displayed on screen and transferred to Worksheet.

Editing Measurements in the Worksheet

1. Display Worksheet by highlighting **Worksheet** in the Measurement Menu and press **SET**.
2. Roll **TRACKBALL** to value to be deleted/edited and press **SET**.
3. Use the keyboard to delete or edit value.
4. Press **ENTER**.

The system updates the value.

Measure AFI using 4B

1. Press **4B** on control panel.
2. Obtain first quadrant image. Press **Freeze**.
3. Repeat process until 4 quadrant images have been obtained.
4. Press **4B** to cycle through images as needed.
5. Press **CALIPER**.
6. Roll **TRACKBALL** to select **AFI** from measurement menu. Press **SET**.
7. Place first measurement marker and press **SET**.
8. Place second measurement marker and press **SET**.
9. Repeat this process in each quadrant.

AFI will be displayed on screen and transferred to Worksheet.

DIMAQ: Reviewing and Selecting Images/Studies

Press **REVIEW** on the control panel.

1. Use **TRACKBALL** to position cursor on image and press **SET** key.
2. To select a Study Position cursor on study and press **SET** key.
3. To select multiple consecutive studies:
 - a. Select a single study.
 - b. Place cursor on last desired study.
 - c. Press **SHIFT** key and **SET**.
4. To select multiple nonconsecutive studies:
 - a. Position cursor and hold **Ctrl** key for additional studies. Press **SET** key.

Transfer Cases to CD

Press **REVIEW** on the Control panel to activate Study Screen.

1. Trackball to desired study and highlight (will appear blue).
2. Insert CD.
3. Press **EXPORT** to CD.
4. Wait until highlighted case turns "blue".
5. CD will pop out briefly and reinsert prior to turning "blue".
6. Press **CD** on the study screen to check if case has successfully loaded.
7. Press **EJECT** on Study Screen or at the CD loader to eject.

Press **SELECT** or **Live Screen** to Resume Scanning.

Powering off System

Turn off system by pressing blue power switch located on the upper left side of the keyboard.

1. Turn off system by pressing blue power button on the left front of the control panel.
2. Wait until monitor goes black before removing power cord from wall.



Refer to the system's user and reference manuals for safety information (warnings, cautions, and explanations of symbols and labels), complete operating instructions and technical specifications, and procedures for system and transducer care (cleaning and disinfecting procedures).

Siemens reserves the right to change system specifications at any time.

Siemens Medical Solutions USA, Inc.
Ultrasound Division Headquarters
P.O. Box 7343
Mountain View, CA 94039 U.S.A.
+1 (800) 228-4128

REV 01

SIEMENS

SONOLINE G20™ Ultrasound System

Quick Scan Card: General/OB

For system software version 1.0

- ❖ Press the Power Switch on the upper left side of the keyboard. A blue light will indicate the power is on.

Beginning an Exam:

Note: The term **select** is used to describe the action of rolling the **TRACKBALL** to position the pointer (cursor) on an object and then pressing **SET** on the control panel.

To enter data for a new patient:

1. Press **NEW PATIENT** (F1).
2. Enter the patient name and ID using the keyboard.
3. Enter other pertinent information.
4. Use **TAB** to move to next data field.
5. Use **TRACKBALL** and cursor to select **OK**.
6. If desired exam is not the Boot Up exam, press **Exam** to select the correct Quickset.
7. Quicksets can also be recalled using **EXAM** key (F5) on keyboard.

Selecting a Transducer

Select the **Transducer** drop-down menu from the Parameter menu using the **MENU** control and then select the transducer.

2D Imaging

To adjust...

One Touch Optimization

More Penetration

Clean out noise/clutter

Overall Gain/brightness

Depth

Focus

Zoom

Gain (to compensate for weak signals in specific areas)

Bright Light Scanning

...do this:

Press **TGO** (option) button

Toggle **MultiHertz** key ↓ down

Toggle **MultiHertz** key ↑ up to **THI**

Rotate **2-D** knob

Rotate **DEPTH/ZOOM** knob

Push **FOCUS** toggle up or down

Press **DEPTH/ZOOM** knob to select

Adjust the positions of the **DGC** sliders.

Use **Gray Map** or **L**

Rotate or Flip Image R/L

To change image orientation from left to right

Press the L/R FLIP key on the control panel.

To rotate the image 90°

Press L/R FLIP key while pressing and holding the SHIFT key on the keyboard.

Annotating an Image

To type text:

1. Obtain an image, **press Freeze**.
2. Press the **TEXT** key.
3. Place green text cursor where you would like text displayed.
4. Type text.

To Use Pre Programmed Text:

1. Press **TEXT**.
2. Press **MENU**.
3. Use TRACKBALL to select the desired text from menu list.
4. Press **SET**.

Removing Text from an Image

1. Pressing **TEXT**, then **ESCAPE** will remove text on a frozen image.
2. Pressing **DELETE TEXT** on keyboard will allow all text to be deleted.
3. Pressing **DELETE LINE** on Keyboard will delete text in the same line.

Distance Measurement

1. Press Freeze.
2. Press CALIPER key.
3. Place first caliper position. **Press SET**.
4. Place subsequent caliper(s). **Press Set**.
5. Measurement will be displayed on screen.

Distance Measurement with a Label

1. Press Freeze.
2. Press CALIPER key.
5. Use TRACKBALL to select measurement from on-screen menu. **Press SET**.
6. Place first caliper. **Press SET**.
7. Place subsequent caliper(s). **Press Set**.

Measurement will be displayed on screen and transferred to Worksheet.

Measuring a Volume using 2D imaging

1. Acquire first image (Longitudinal), **press Freeze**.
2. Activate the measurement function.
3. Select **2PI LxDxW**.
4. Roll the trackball to position the first measurement marker for the length, **press SET key** on the control panel.
5. Roll the trackball to position the second measurement marker, **press SET key**.
6. Roll the TRACKBALL to position the first measurement marker for the depth measurement, **press SET key**.
7. Roll the TRACKBALL to position the second measurement marker for the depth measurement, **press SET key**.
8. Unfreeze the image, acquire transverse view. **Press Freeze**.
9. Press the **CALIPER key** on the control panel.
10. On the second image, roll the TRACKBALL to position the first measurement marker for the width measurement, **press SET key**.
11. Roll the trackball to position the second measurement marker, **press the SET key**.

The system displays the length (D1), depth (D2), width (D3), and calculated volume (V) in the Measured Results.

Note: Pressing the ESCAPE key during the volume measurement will erase the measurements that have been finished up to that point.

Measuring a Volume using Dual-Mode Imaging

Acquire longitudinal (first image) activate **Dual-Mode imaging**. Acquire transverse image (second image). Press Freeze.

1. Activate the measurement function.
2. Select **2PI LxDxW**.
3. Roll the TRACKBALL to position the first measurement marker for the length, **press SET key** on the control panel.
4. Roll the TRACKBALL to position the second measurement marker, **press SET key**.
5. Roll the TRACKBALL to position the first measurement marker for the depth measurement, **press SET key**.
6. Roll the TRACKBALL to position the second measurement marker for the depth measurement, **press SET key**.
7. On the second image, roll the TRACKBALL to position the first measurement marker for the width measurement, **press SET key**.
8. Roll the TRACKBALL to position the second measurement marker, **press the SET key**.

The system displays the length (D1), depth (D2), width (D3), and calculated volume (V) in the Measured Results.

Note: Pressing the ESCAPE key during the volume measurement will erase the measurements that have been finished up to that point.

