

The Siemens logo is displayed in a white rectangular box with a thin black border. The word "SIEMENS" is written in a bold, teal-colored, sans-serif font.

SIEMENS

The background of the top half of the page features a dark, abstract image of blue, glowing, swirling patterns that resemble an ultrasound scan or a stylized face. The text "ACUSON S2000" is overlaid on this background in a light blue, sans-serif font. The "S2000" part is significantly larger and bolder than "ACUSON".

ACUSON S2000

2D System Overview - Release 3.0

ACUSON S2000 Ultrasound System

Quick Reference Guide

www.siemens.com/S2000

Introduction

This Quick Reference Guide contains brief descriptions and instructions for the functions most commonly used to perform 2D and Doppler exams. This supplement contains both standard and optional features but is not a substitute for the system User Manual.

Image Disclaimer

Images used in this guide are for educational purposes only. They have been modified or compressed, and may not reflect the actual image quality of the system.

Note: This guide shows multiple workflow options (keyboard and mouse) for Release 3.0. UI refers to the Control Panel and is noted UI.



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Exam Basics

Press the **Power On/Off Switch** on the upper left side of the UI to turn the system on and off. A green blinking light indicates the power is on. The **Standby** option will quickly turn on, or shut down the system, within 30 seconds.



Patient Registration
Button



Patient Registration
Icon

Begin an Exam

1. Press the **Patient Registration** button on the UI *or* click the **Patient Registration** icon on the toolbar
2. Enter the patient name, ID and other exam information
3. Press the **TAB** key *or* roll the trackball to move to the next data field
4. Select the proper **Transducer** and **Study** type from the drop-down menus
5. Select a Workflow Protocol from the **Protocol** list (optional)

6. Click **OK** *or* press the **Store** button on the UI to start the exam



Optional if Using the Patient Scheduler (Modality Work List)

1. Press **Patient Browser (F2)** to open the **Patient Browser**
2. Double-click on the **Patient Scheduler** icon to view an updated Work List
3. Highlight the patient name (press the first letter of the last name to quickly scroll the list)
4. Click on the Patient drop-down menu and select Register
5. Select the appropriate transducer and Study Type on the Patient Demographic page



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6. Click **OK** or press the **Store** button on the UI to start the exam


Note: If the patient name does not appear in the Work List:

- a. Click on View at the top of the page
- b. Select **Patient based work list query**
- c. Enter the patient last name
- d. Click on **Get Work List**

Store and Review Images


1. Press the **Store** button to save a static image on the local database 
2. Press **Clip Store** to acquire and save a clip to the local database 
3. The saved data displays in the thumbnail panel at the bottom of the screen

Print an Image

- Press the **Print** button to print the onscreen image 

Note: Use the system configuration menu to assign print and/or store functions to the **Print** button.

Review an Image

- Press the **Review** button during an active exam to view and delete images 

Note: The system must be preset to transfer images at end of exam, in order to delete images from Review mode.

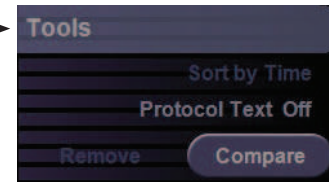
- Press the **Review** button or double-click a thumbnail image to activate Review mode during an active exam

Activate Review on a Previous Exam

1. Press **Patient Browser (F2)** to open the Patient Browser
2. Click on the Patient Folder
3. Double-click the **Image** icon to load the patient exam into Review

Use Compare Mode

- Available on the **Review** screen under **Tools** →
- Press the **Review** button
 - Click on two images from the thumbnails
 - Click on **Compare** to display the images side-by-side



2D Controls

Basic System Optimization

- The chart below identifies presets that can be customized and saved to the **Image** knob.

Items in the table below are arranged alphabetically.

To Adjust / Control	Do This	Image Knob
2D Sector Width <i>Increase line density/ frame rate</i>	<ul style="list-style-type: none"> Press the Priority key to select 2D FOV Roll the trackball to sector in the width of the image Press the Next key to go between Size and Position of 2D FOV Press the Select key to lock the image size <p>Note: Manually re-size the image to return to full screen.</p>	No
Depth	<ul style="list-style-type: none"> Rotate the Depth control 	No

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Dynamic Range <i>Adjust grayscale levels within an image</i>	<ul style="list-style-type: none"> Toggle the Dynamic Range key up or down to add or remove the amount of grayscale levels <p>Note: Can be used on live or frozen images.</p>	Yes
Dynamic TCE <i>Provides speckle reduction and contrast enhancement</i>	<ul style="list-style-type: none"> Rotate the second LED control on the left side of the UI <p>Note: Settings include Off, Low, Medium and High. As the level is increased, both Dynamic TCE speckle reduction and contrast enhancement are increased.</p>	Yes
Edge	<ul style="list-style-type: none"> Rotate the third LED control on the left side of the UI <p>Note: Range is 0 – 4; 4 applies the most edge enhancement.</p>	Yes
Focal Zones <i>Control position and number of focal zones</i>	<ul style="list-style-type: none"> Rotate the Focus control for position Press the Focus control to select the number of focal zones 	No
Frequency	<ul style="list-style-type: none"> Toggle the MultiHz key up or down on the UI to adjust the frequency 	Yes
HD RES (Write) Zoom	<ul style="list-style-type: none"> Press the Zoom control to initialize HD RES Rotate the Zoom control to adjust the size of ROI box Press Zoom again to activate RES <p>Note: When RES is activated, HDZ appears on the lower right corner of the screen.</p>	No

Image Presets	<ul style="list-style-type: none"> ▪ Rotate the Image control on the UI to change the image preset ▪ Press the Image control to see a list of currently available image presets 	Yes
Overall Gain	<ul style="list-style-type: none"> ▪ Press the TEQ button ▪ Rotate the 2D control ▪ Rotate the Gain Freeze / Cine wheel ▪ Adjust the DGCs <p>Note: Adjust according to user preference.</p>	No
Persistence <i>Weighted average of frames over time</i>	<ul style="list-style-type: none"> ▪ Select the Persistence option located on the 2D tab of the onscreen Image Menu ▪ Rotate the Menu control to change the level (0-4) <p>Note: Can only be adjusted when using SieClear 2, and not when using Advanced SieClear Spatial Compounding (ASSC). Increased persistence averages more frames over time, creating a smoother image. Decreased persistence, averages fewer frames over time, creating a grainier image.</p>	Yes
Post Processing Maps <i>Selects a processing curve that assigns echo amplitudes to grayscale levels</i>	<ul style="list-style-type: none"> ▪ Rotate the second LED control on the right side of the UI to select and apply <p>Note: Maps range from A-F and can be adjusted on live or frozen images and in M-mode and PW Doppler.</p>	Yes

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<p>SieClear Spatial Compounding and Advanced SieClear Spatial Compounding</p> <p><i>Utilizes multiple lines of sight to provide improvements in contrast resolution and border detection</i></p>	<ul style="list-style-type: none"> Rotate the first LED on the left side of the UI to change the compounding level <p>Note: The selected transducer determines how many levels of compounding are available.</p>	Yes
<p>Space/Time</p> <p><i>Spatial resolution vs. temporal resolution</i></p>	<ul style="list-style-type: none"> Rotate the first LED control on the right side of the UI <p>Note: Increase for better spatial resolution and decrease for better temporal resolution.</p>	Yes
<p>Tints</p> <p><i>Colorizes the grayscale image</i></p>	<ul style="list-style-type: none"> Rotate the third LED control on the right side of the UI <p>Note: Tints range from 0-15 and can be adjusted on live or frozen images and in M-mode and PW Doppler.</p>	Yes
<p>Tissue Harmonic Imaging (THI)</p> <p><i>Reduces noise clutter with better contrast enhancement and improved axial resolution over fundamental imaging</i></p>	<ul style="list-style-type: none"> Press the soft key on the home base to turn on or off Toggle the MultiHz key up or down 	Yes

Zoom	<ul style="list-style-type: none"> Rotate the Zoom control to increase or decrease image magnification Roll the trackball to pan the image <p>Note: Zoom magnifies from the center of the onscreen image; use pan to bring in the area of interest. Available on live or frozen images and in M-mode and PW Doppler.</p>	No
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2D Imaging Features

Items in the table below are arranged alphabetically.

Feature	To Use Feature
ASC Dual <i>Display two live images side-by-side with and without compounding</i>	<ul style="list-style-type: none"> Click on the ASC Dual option in the 2D tab of the onscreen Image menu to display <p>Note: The left side displays the image without spatial compounding and the right displays with spatial compounding. Can only be used when a level of ASSC 3 or higher is selected.</p>
Dual <i>Side-by-side imaging</i>	<ul style="list-style-type: none"> Press the Dual key to activate dual screen display Toggle the Update key to go between left and right images <p>Note: Color must be activated before entering Dual mode.</p>

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Live Dual <i>Display two live images side-by-side</i>	<ul style="list-style-type: none"> Select the "Live Dual" option in the 2D tab of the onscreen Image menu <p>Note: Can be used with color at any time.</p>
SieScape Panoramic Imaging	<ul style="list-style-type: none"> Select SieScape from the Feature menu on the left side of the screen Press the Update key to start acquiring image Scan through area of interest in a long axis of the transducer Press Gain Freeze/Cine to stop the acquisition <p>Note: Once an image is frozen, roll the trackball to rotate the image. Use the Scroll wheel or Zoom control to zoom. Use Restore to bring the image back to original size. Press the Calcs key to measure on a SieScape image. Use the Gain Freeze/Cine wheel to Cine through the SieScape image.</p>
Steer Image <i>Linear transducers only Improve the angle of insonance between anatomy and the ultrasound beam</i>	<ul style="list-style-type: none"> Press the Priority key to activate Steer Roll the trackball to steer the FOV left or right <p>Note: ASC must be off or set to SC2.</p>
Trapezoid <i>Linear transducers only Allows more visualization of tissue on the screen</i>	<ul style="list-style-type: none"> Press the soft key to activate Trapezoid image format Press the Next key to go between position and size of the image

Color Doppler & Spectral Doppler Optimization



Color Doppler Imaging

Items in the table below are arranged alphabetically.

To Adjust / Control	Do This	Image Knob
Baseline	<ul style="list-style-type: none"> Toggle the Baseline key up or down 	Yes
Color Doppler Energy and Color Doppler Velocity	<ul style="list-style-type: none"> Press the soft key to cycle between (CDE) and velocity color (CDV) 	No
Color Gain	<ul style="list-style-type: none"> Rotate the C control 	No
Engage Color Doppler	<ul style="list-style-type: none"> Press the C control 	No
Exit Color Doppler	<ul style="list-style-type: none"> Press the PW control or press the 2D control to return to imaging 	No
Frequency	<ul style="list-style-type: none"> Toggle the MultiHz key up or down 	Yes
Image Presets	<ul style="list-style-type: none"> Rotate the Image knob to change image presets Press the Image knob to view a list of all available image presets 	Yes

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Invert <i>Change the orientation of the Color Doppler velocity display</i>	<ul style="list-style-type: none"> Press the Invert button 	Yes
ROI Size and Position	<ul style="list-style-type: none"> With color active, press the Next key to alternate between Size and Position Roll the trackball to adjust size and position 	No
Scale <i>Pulsed Repetition Frequency (PRF)</i>	<ul style="list-style-type: none"> Toggle the Scale key up or down to increase or decrease 	Yes
Spatial Resolution and Speed	<ul style="list-style-type: none"> Rotate the first LCD control on the left side of the UI <p>Note: Spatial resolution is inversely proportional to temporal resolution.</p>	Yes
Steer	<ul style="list-style-type: none"> Press the Priority key to activate C ROI Press Next and select Steer Roll the trackball to get to the proper angle 	No



PW Doppler

Items in the table below are arranged alphabetically.

To Adjust / Control	Do This	Image Knob
Angle Correct	<ul style="list-style-type: none"> Press the 0/60° control to cycle through angle correction Rotate the 0/60° control to fine tune the angle 	Yes
Baseline	<ul style="list-style-type: none"> Toggle the Baseline key up or down 	Yes
Frequency	<ul style="list-style-type: none"> Toggle the MultiHz key up or down 	Yes
Gate Size	<ul style="list-style-type: none"> Roll the Scroll wheel up or down 	Yes
Overall Doppler Gain	<ul style="list-style-type: none"> Rotate the Doppler (PW) control 	No
PW Doppler	<ul style="list-style-type: none"> Press the PW control to engage PW Doppler Roll the trackball to position the cursor Press PW again to start spectral waveform or press Update Note: Press Next to go between Position and Steer. Press the PW control or press the 2D control to exit PW Doppler and return to imaging 	No
Scale <i>Pulsed Repetition Frequency (PRF)</i>	<ul style="list-style-type: none"> Toggle the Scale key up or down to increase or decrease 	Yes

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Steer	<ul style="list-style-type: none"> Press the Priority key Select the PW gate Press Next to steer Roll the trackball to adjust the steer angle Press Select to lock in the angle 	Yes
Sweep Speed	<ul style="list-style-type: none"> Rotate the LCD control on the right side of the UI <p>Note: Sweep speed can be adjusted during real-time <i>or</i> on a frozen M-mode Doppler strip.</p>	Yes
TEQ	<ul style="list-style-type: none"> Press the TEQ button 	No



M-mode

Items in the table below are arranged alphabetically.

To Adjust / Control	Do This
M-mode	<ul style="list-style-type: none"> Press the M control to engage M-mode Roll the trackball to adjust the position of the M-mode cursor Press the M control again to activate spectral waveform Press the M control to exit, <i>or</i> Press the 2D control to exit and return to 2D imaging

M-mode Cursor	<ul style="list-style-type: none"> Press Next to select Size or Position Roll the trackball to make adjustments <p>Note: The active function is displayed in green. Sweep speed can be adjusted during real-time or on a frozen M-mode Doppler strip.</p>
Overall Gain	<ul style="list-style-type: none"> Rotate the M control

Measurements & Calculations

General Measurement Tools

Activate Calculations (one of two methods):



- Press the **Calcs** button to activate the measurement function on real-time or frozen images
- or*
- Press the **Gain Freeze/Cine** button to automatically go to Calcs (must be preset in the Setup menu)

Perform an Unlabeled Measurement

- Roll the trackball to place the first caliper in the area of interest
- Press **Next** for the second distance caliper or ellipse control
- Press **Select** to anchor a caliper or enter a measurement
- Press **Next** to go between the active calipers
- Press **Priority** to reactivate locked caliper sets or scroll through different caliper sets

Tip: To delete the caliper set, press the **Delete** soft key or **Cine** back one position.

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Perform a Labeled Measurement and Add it to the Report Package

Note: Application-specific measurements are particular to one study type.

- The measurement tools and labels are organized by the active imaging mode and application (e.g., abdomen)
- Only labeled measurements are copied to a patient report

1. Press the **Gain Freeze/Cine** button
2. Click on a measurement label (e.g., Liver)

Note: A measurement label can also be selected after calipers are placed.

3. Roll the trackball to place the first caliper in the area of interest
4. Press **Next** to activate the second caliper
5. Press **Select** or **Store** to complete a measurement and send the value(s) to the Report

6. Press **Priority** to reactivate locked caliper sets or scroll through different caliper sets

Additional Measurements

1. Activate the Report page
2. Click on the Page 1 drop-down menu on the imaging screen
3. Scroll down to the desired page
4. Press **Select** to activate page

Perform Advanced Measurements, e.g, Volume Measurement

1. Select the Compound drop-down menu from the top left-hand side of the screen when Calcs are active
2. Select the appropriate measurement from the drop down list: **Stenosis, Volume, Area Ratio, Distance Ratio** or **Volume Flow**

Calculation Reports

- Calculation worksheets and reports are offered for each preset when labeled measurements are entered

- Press **Report (F1)** to activate Reports
- Scroll to view the Report pages
- Click on **Store Report** to capture the entire formalized worksheet
- Click **End Exam** to close the patient study



Note: **Transfer Report** will send DICOM measurements to structured reporting in PACS (customers must have structured reporting capabilities).

Import Images into the Report

- If necessary, press **Report (F1)** to activate Reports
- Scroll down to the bottom of the Report screen and click on an image in the thumbnails

- Roll the trackball to drag the image into appropriate square
- Press **Select** to anchor the image

Note: Click on the **Format** icon to display up to 16 images on the Report page.

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Text & Pictograms

Enter Text

1. Press the **Text** key to activate the cursor
2. Roll the trackball to place the cursor in the appropriate place in the image
3. Type the text and press **Select**, or, if configured, press the appropriate **Text** button



Note: **Text A, B, C,** and **D** can be customized and reordered for each exam preset.

- The system can be preset to automatically enter the Text Menu by pressing the **Gain Freeze/Cine** button

Tip: When typing, press **Tab** to auto-complete the annotation.

- The annotation can be configured to be on or off

Move Text

1. If necessary, press the **Text** key to activate the cursor
2. Roll the trackball to place the cursor within the text
3. Double-click **Select** to highlight (text is highlighted in green)
4. Roll the trackball to the new location and press **Select**

Drag and Drop Text


1. If necessary, press the **Text** key to activate the cursor
2. Position the cursor in the text to move
3. Double-click **Select** to highlight (text is highlighted in green)
4. Roll the trackball to move the selection over the text to be replaced and press **Select**

Delete Text

1. If Calcs is active, press the soft key, and select either **Clear Screen**, **Delete Word** or **Delete Line**

Tip: If Calcs is not active, press and hold the **Text** key until the screen is cleared.

Place an Arrow(s)

1. Press the **Arrow Up** button on the bottom right side of the keyboard 
2. If necessary, press **Next** to rotate the direction of the arrow
3. Roll the trackball to position the arrow and press **Select**


Note: Use the steps above to place additional arrows.

Delete an Arrow(s)

1. Press the **Delete Arrow** or the **Clear Screen** soft key

Note: The **Delete Arrow** soft key deletes one arrow at a time, starting with the last arrow placed onscreen.

Add a Pictogram(s)

1. Press the **Body Marker** key on the bottom right side of the keyboard 
2. Rotate the **Scroll wheel** to cycle through pictograms
3. Press **Next** to go between **Position** and **Rotation** of the marker
4. Roll the trackball to position the marker on the pictogram and press **Select**

Delete a Pictogram

1. Press the **Delete Body Marker** or **Clear Screen** soft key

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Data & Image Management

Restart an Exam

1. Press **Patient Browser (F2)** to open the Patient Browser
2. Select the patient name and click on the middle yellow folder
3. Click on the Patient drop-down menu and select **Register**
4. Select the transducer and operator initials
5. Click **OK**

Note: Restart is available at all times. New images can be added to the existing patient exam.

End an Exam

1. Press the **Review** button
2. Click on **End Exam**

Note: Starting a new patient also ends a current exam.


Send Patient Exam to PACS

1. Press **Patient Browser (F2)** to open the Patient Browser
2. Select the **Archive To** icon
3. Select **Destination**
4. Select **Archive To**

Note: This can be done before closing the study.

Tip: Closing a study will automatically send to PACS if the system is preset to "Send on study close".

Delete Images from an Active Case

1. Click on an image from the thumbnail
2. Click on the **Delete** icon located on the lower right of the screen 

Note: The system must be preset to "Send at the End of Exam" or the image will not be deleted.

Delete Images from Review During an Active Exam

1. Press **Review**
2. Click and highlight the image to delete
3. Press the **Delete** soft key

Transfer an Exam from the Hard Drive to CD-R/DVD

1. Insert the CD-R/DVD
2. Press **Patient Browser (F2)** to open the Patient Browser and Local Database
3. Select the patient name/s

Tip: Hold **CTRL** to select more than one patient name.

4. Use one of the following transfer methods below

Transfer in DICOM Format

1. With patient/s selected, select the Transfer drop-down menu

2. Select **Archive to CD-R**

Note: *syngo* fastView and Showcase DICOM viewers will be burned onto the CD-R/ or DVD.

Transfer in PC Format (AVI or JPEG)

1. With the patient(s) selected, select the Transfer drop-down menu
2. Select **Export to CD in PC Format**

Transfer to a USB Drive in PC Format

1. With the patient(s) selected, select the Transfer drop-down menu
2. Select **Export to USB in PC format**



Note: The USB must have an export folder on it to accept images.

Import All Images from a CD to the Local Database

1. Insert the CD-R/DVD
2. Press **Patient Browser (F2)** to open the Patient Browser

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3. Click on **CD**
4. Click on the Transfer drop-down menu
5. Click on **Import from Off-line**

Note: Image(s) will be removed when the exam is closed.

Resend an Exam to PACS

1. Press **Patient Browser (F2)** to open the Patient Browser
2. Click on **Local Database**
3. Click on the patient name
4. Click the **Archive to** icon or select **Archive to** from the drop-down menu
5. Select the destination
6. Select **Archive to**

De-Identify a Patient (Teaching Files, Name Changes)

1. Press **Patient Browser (F2)** to open the Patient Browser
2. Click on **Local Database**
3. Click the patient name
4. Click on the image folder
5. Click on **Patient** drop-down menu and select **De-Identify**
6. Rename the exam
7. Click **OK**

Note: The new case will be added to the Local Database within minutes. 3D/4D volumes will not be transferred for re-manipulation.

Siemens Exclusive Technologies

Clarify Vascular Enhancement Technology (purchasable option)

1. During 2D imaging, press the **Clarify** soft key
2. Roll the trackball to place the ROI box
3. Press **Next** to go between **Size** and **Position**
4. Roll the **Scroll wheel** to adjust the level of sensitivity:
1 = least sensitive, 7 = most sensitive

syngo Auto OB (purchasable option)

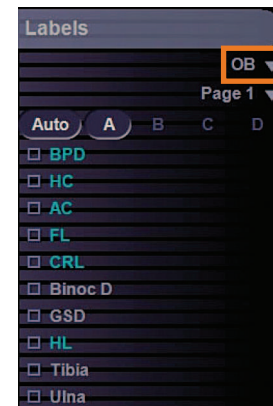
1. Ensure the **OB** exam type is selected →
2. Press the **Calcs** button

Note: Available Auto OB measurements are

highlighted in green.

3. Click on the desired measurement (semi-automated measurements are live onscreen)
4. Press **Next** to go between the cursors (active and available)
5. Press **Select** to lock in the measurement and transfer it to the Report page

Tip: Press **Store** to transfer the measurement.



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syngo eSieCalcs Native Tracing Software (purchasable option)



1. During 2D imaging, press the **Gain Freeze/Cine** button
 2. Press the **Calcs** button
 3. Select the eSieCalcs menu option
 4. Roll the trackball to move the cursor into the image
 5. Press the **Next** key to activate ROI box
- Note:** **Next** toggles between the two active calipers allowing movement of the ROI box and a change in size.
6. Press **Select** to calculate and display the measurement

Adjust an eSieCalc Measurement

1. Press **Next** to reactivate calipers
 2. Roll the trackball to trace a new area of interest
 3. Press **Select** to recalculate measurement
- Tip:** When placing the ROI box over the area of interest, do not make the box too big.

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