ACUSON Redwood ultrasound system

syngo® Velocity Vector Imaging (VVI)

Quick Reference Card

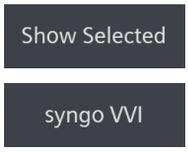
siemens-healthineers.com/ultrasound

Step 1

- For Global Longitudinal Strain (GLS), choose Apical 4 chamber (A4C), Apical 2 chamber (A2C), and Apical 3 chamber (A3C) views
- For Global Circumferential Strain (GCS), choose Parasternal Short Axis at the mitral valve level (SAX MV), papillary muscle level (SAX PM), and apex level (SAX APEX)

Tip: *Frame rate range of 70–90 fps is recommended for optimal tracking results.*

Step 2



- Enter **Review**
- Select images needed for VVI analysis
- Select **Show Selected** to view selected images
- Select *syngo* VVI

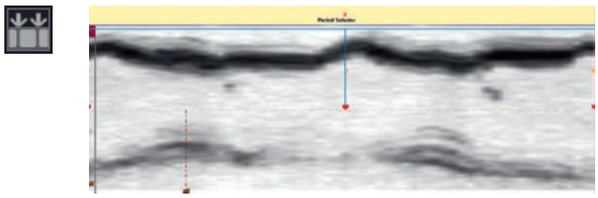
Step 3

- Select image(s) from the thumbnails and assign to the corresponding views

Tip: *To delete an image, select the* ***X*** *in the upper right-hand corner.*

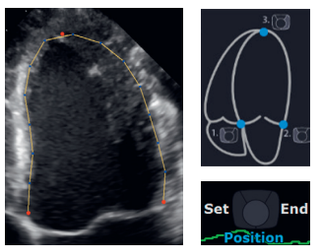
Step 4

- If multiple cardiac cycles have been acquired, proceed to Sequence / M-mode selection icon to define one cardiac cycle within the period selector
- If only one cardiac cycle is to be analyzed, drag and drop the red markers to desired cardiac cycle
- Select the gray arrow in the top right corner of the screen to return to the contour page



Step 5

- Place landmarks within endocardium
  - Press left **Set** key for medial and lateral annulus
  - Press right **Set** key for apex



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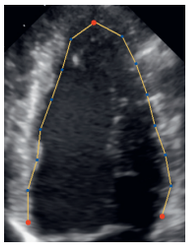
Step 6

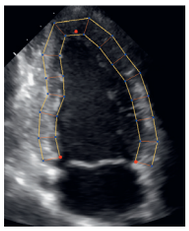


- For a manual trace, place a series of points using the left **Set** key along the endocardium
- Position the last point using the right **Set** key

Step 7

- Press the right **Set** key or select the **Start Analysis** key to begin

Step 8



- At the end of the systolic phase, a full contour is visible and will initiate the tracking of the contour at the end of the diastolic phase
- To modify the proposed contour, drag and drop the red or blue contour points to the desired area

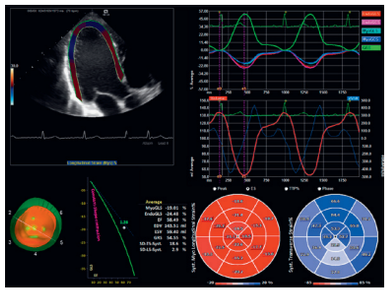
Step 9

- Select gray arrow in top right corner to **Accept Changes**

Step 10

- To edit the contour, select the S or D icon:
  - Once **Correct ES Border** is selected, a new tracking will be initiated
  - Once **Correct ED Border** is selected, the ES remains untouched

Step 11

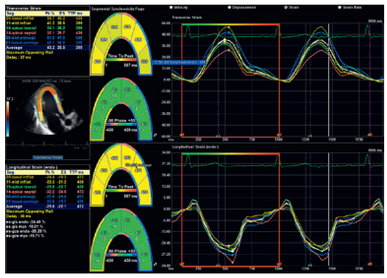


- A main analysis page will be displayed

Step 12

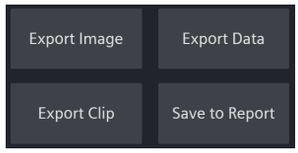
- Select **Segmental Analysis**

Step 13



- Evaluate the Segmental Analysis page
- At the top of the page, different parameters can be selected such as **Velocity, Displacement, Strain**, and **Strain Rate**

Step 14



- Options for analysis are:
  - Save to Report
  - Save Image
  - Export Clip
  - Export Data

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