

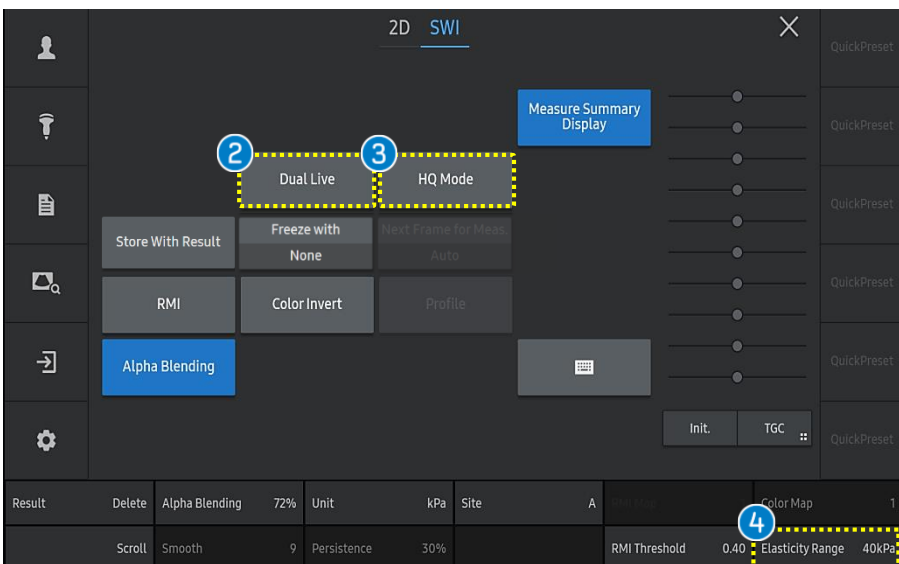
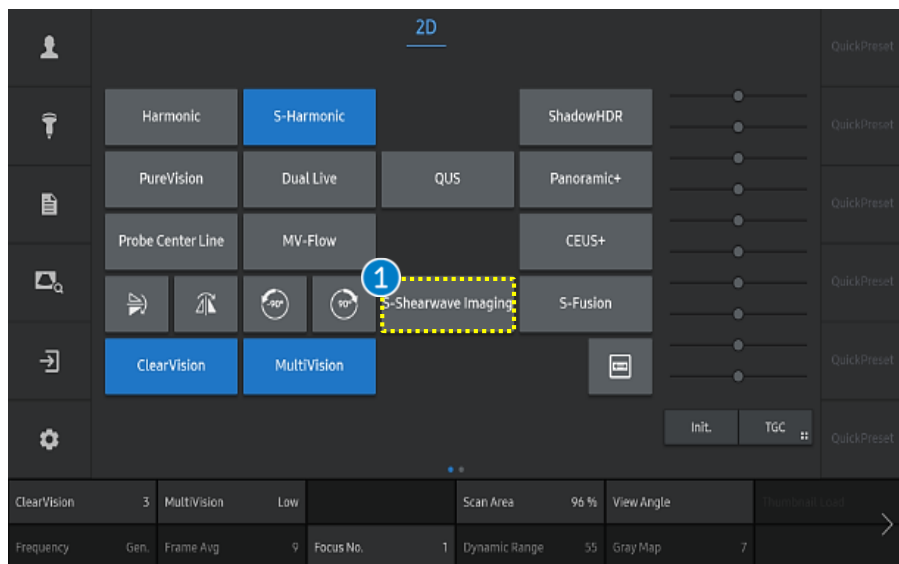
S-Shearwave Imaging™

RS85 Prestige User Quick Guide

for Prostate



1. Start S-Shearwave Imaging™

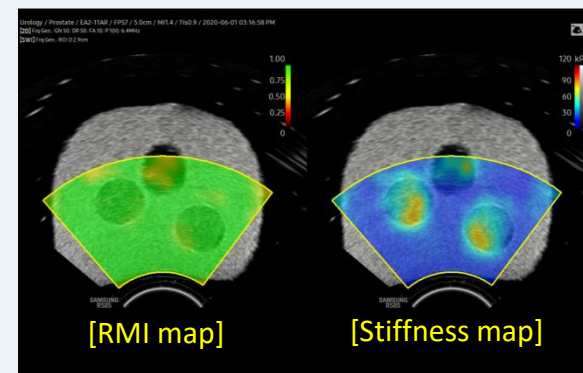


1 S-Shearwave Imaging

Tap the [S-Shearwave Imaging] on the touch screen to start.

2 Dual Live

It displays both stiffness map and RMI map or 2D images in real time.



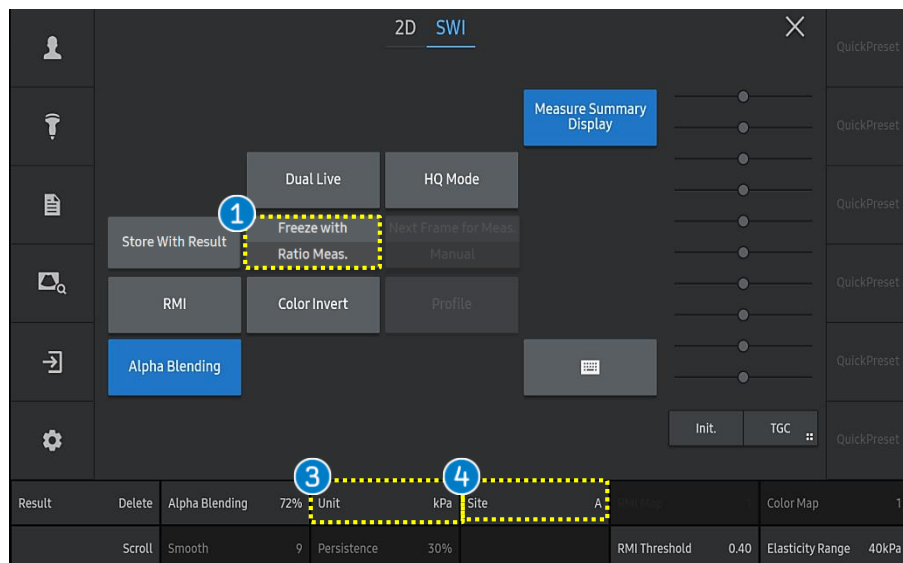
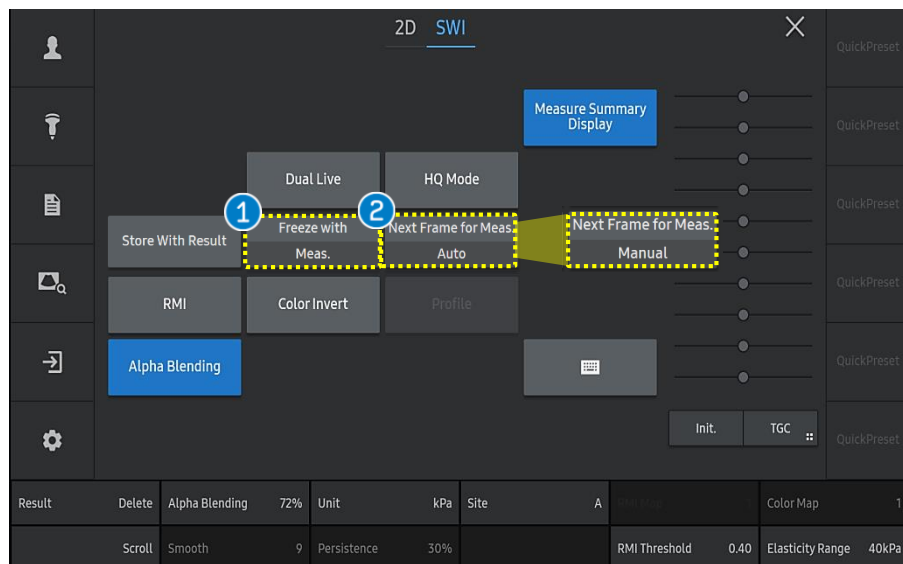
3 HQ Mode

With this [HQ Mode], it provides high resolution image.

4 Elasticity Range

It is to change the color stiffness map range. If you change the [Elasticity Range], color map within ROI and the color of elasticity bar also will be changed accordingly.

2. Measure the Elasticity (1)



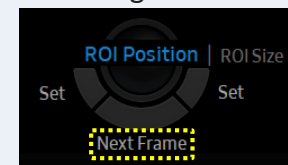
1 Freeze with Meas./ Ratio Meas.

Starts Elasticity Measurement/Elasticity Ratio Measure when pressing Freeze.

2 Next Frame for Meas.

- Auto: Automatically moves to the next frame after confirming the measurement by pressing [Set] button.

- Manual: Moves to the next frame by pressing [Next Frame] after confirming the measurement.



3 Unit

It is to change the unit of an elasticity value.

- The unit [kPa] is based on Young's modulus.
- The unit [m/s] is for Shearwave speed.

4 Site

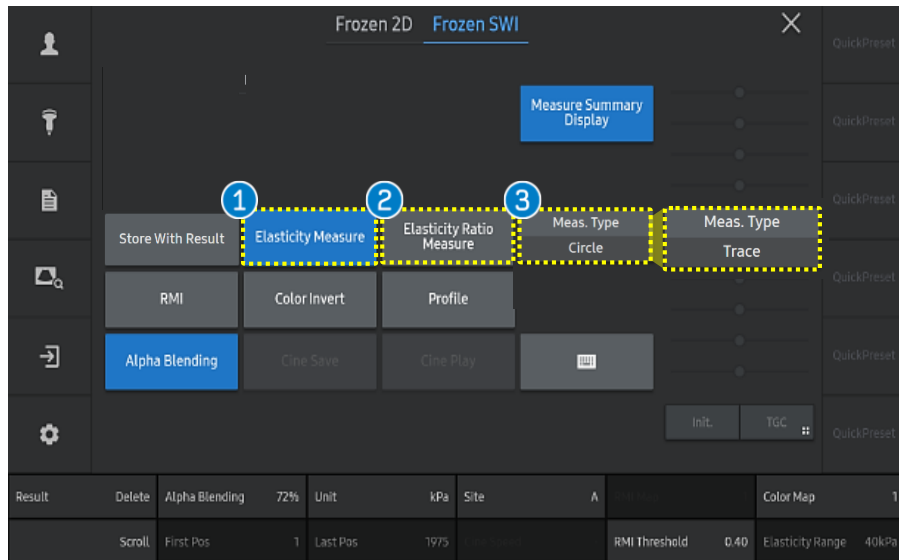
It is to change the ROI site.

Notes

The Next Frame direction can be selected between Forwards or Backwards in the Setup page.

**Setup (Imaging ► Features ► S-Shearwave Imaging ► Next Frame Direction ► Forward / Backward)*

2. Measure the Elasticity (2)



1 Elasticity Measure

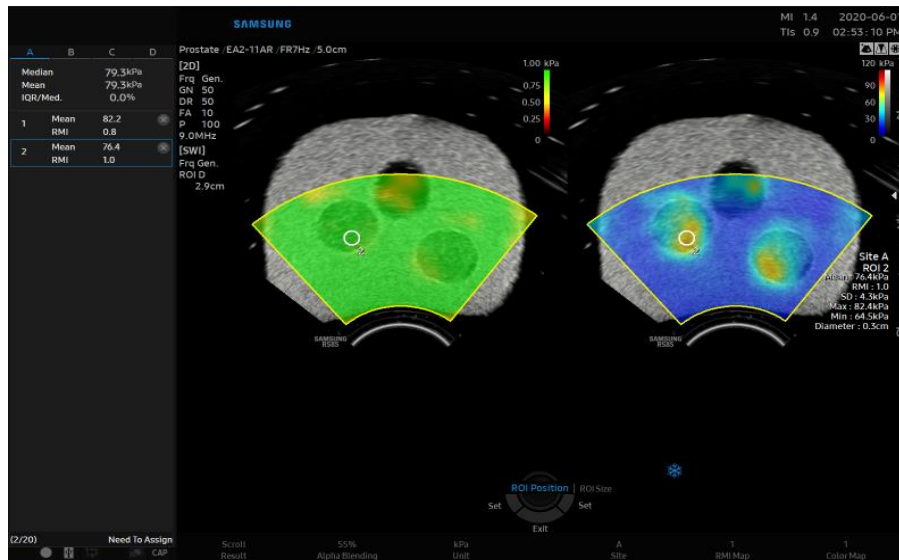
- Tap the [Elasticity Measure] button.
- You can adjust ROI size using change key.
 - Press the [Set] button to save the value.
 - When moving the trackball, it copies additional ROI for next measurement.

2 Elasticity Ratio Measure

- Tap the [Elasticity Ratio Measure] button.
- Place the first quantification ROI on the **area of interest** within the elasticity ROI and press the [Set] button.
 - Place the second quantification ROI on the **reference** area within the elasticity ROI and press the [Set] button.

3 Meas. Type

- Select the measurement of ROI type between **Circle** or **Trace** type.



[Elasticity Measure]

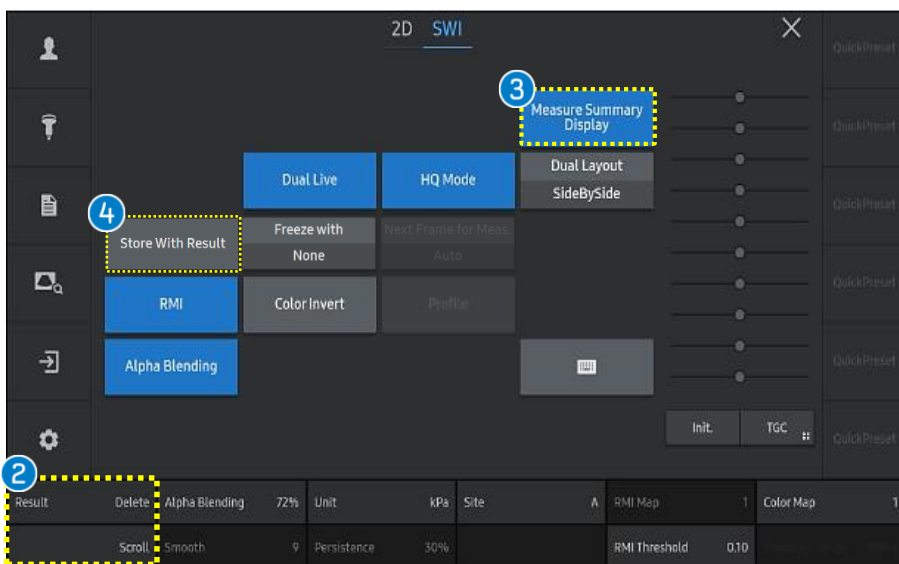
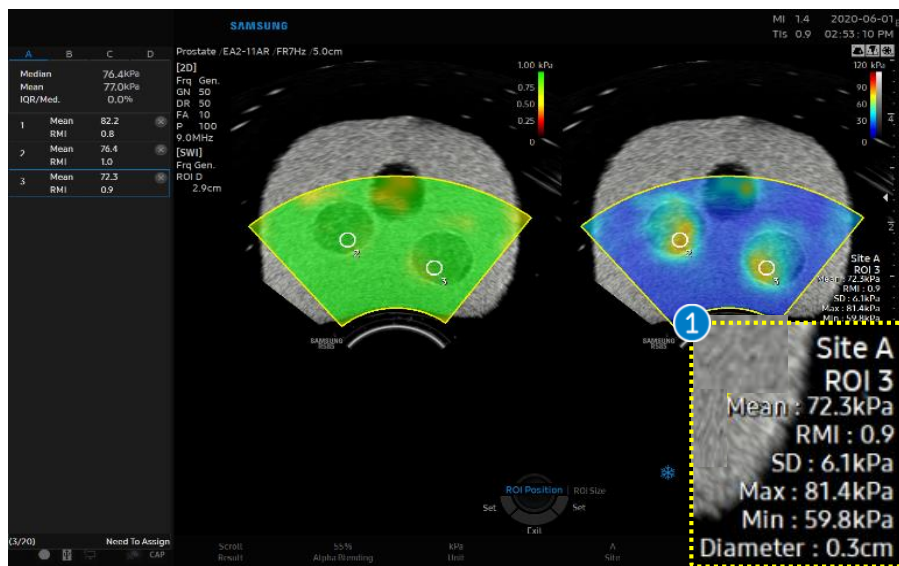
Notes

If Next Frame for Meas. is used, the location of the measurement ROI to the next frame can be set in the Setup page.

*Setup (Imaging ▶ Features ▶ S-Shearwave Imaging ▶ Next

Measurement Cursor Display Position ▶ **Center of ROI / Keep Last Position**)

3. The results



The stiffness results within quantification ROI are displayed.


Mean	Mean elasticity value in ROI
SD	Standard deviation in ROI
Min	Minimum elasticity value in ROI
Max	Maximum elasticity value in ROI
Diameter	Diameter of ROI box

1 Result box

2 Stiffness Result

3 Measure Summary Display

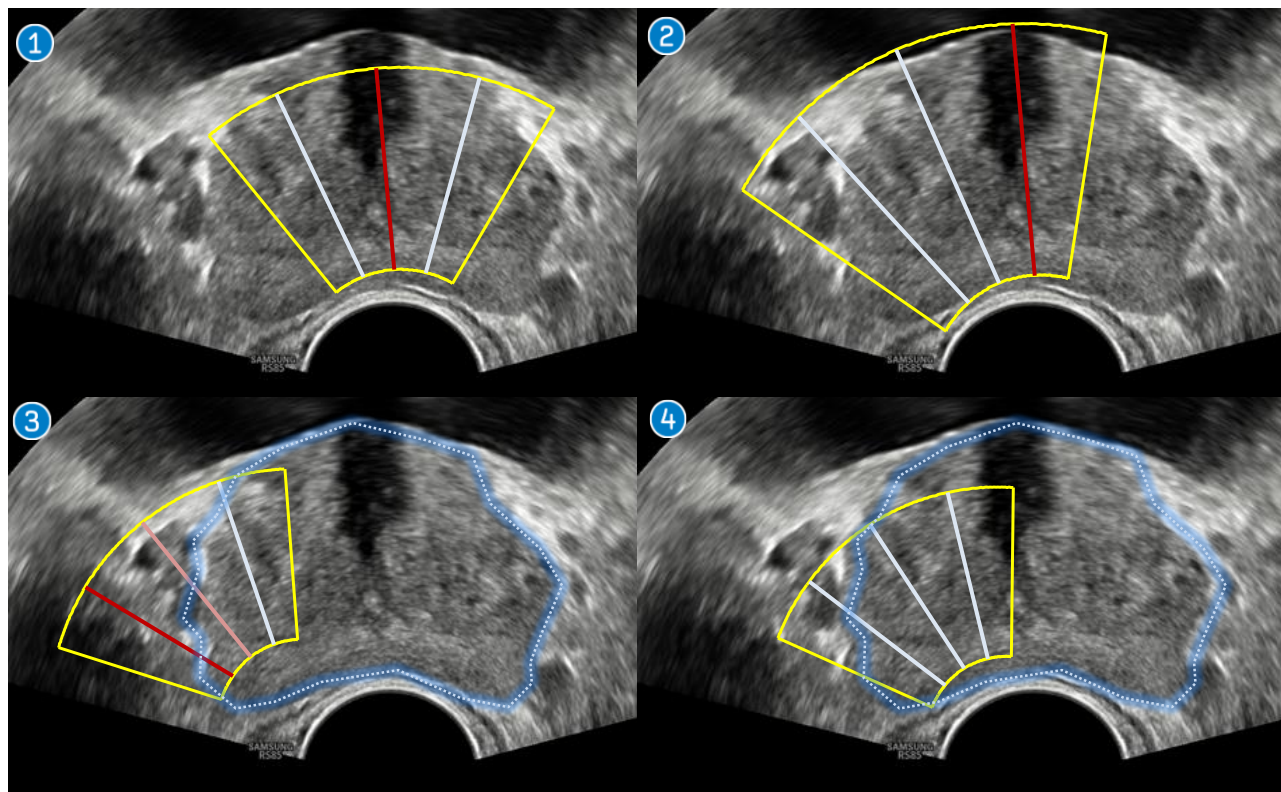
4 Store with Result

- Available to view the measured results.
- It can scroll the result using [Scroll] button. If you want to delete the result individually by pressing the [Delete] button or selecting  icon.

Available to select the measure summary (Median, Mean, IQR, IQR/Med value) to be displayed on the result or not.

Saves the image including the measurement results area.

Tips and Tricks



Scan & ROI position

- ① , ② If the push line is located on the urethra, it is difficult to get a good result value. (the red lines) Because shear wave cannot pass through a liquid.
- ③ When part of the ROI is located outside the prostate as ③ in the figure above, It is difficult to expect a good result. This is because push lines located outside the prostate cannot properly induce shear waves. (the red, pink line)
- ④ is the **best case** because the push line is not located on the urethra and ROI is well placed.

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- Sales and shipments are effective only after the approval by the regulatory affairs. Please contact your local sales representative for further details.
- This Quick guide does not include all of the details of instruction, for more detail, please refer to RS85 User Manual.
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