





Produced by Clinical Training Center / SAMSUNG MEDISON CO., LTD

S-Shearwave Imaging[™]

RS85 Prestige Quick Guide

RS85 S-Shearwave Imaging™

User Quick Guide

1. Start S-Shearwave Imaging™







RS85 S-Shearwave Imaging[™] User Quick Guide **2.** Parameters





1	RMI	 It represents the reliability of the measured the shearwave elasticity value. The higher RMI index indicates higher reliability. It is considered to be reliable for RMI ≥ 0.4
2	RMI map	It can change the RMI map for user preference.
3	RMI Threshold	User can set the [RMI threshold]. then SWI color map will be excluded below the threshold.
4	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.
6	Site	It is to change the ROI site.

[RMI map]

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3. Measure the Elasticity (1)





- Freeze with Meas./ Ratio Meas.
 Starts Elasticity Measurement/Elasticity Ratio Measure when pressing Freeze.
 Auto: Automatically moves to the next frame after confirming the measurement by pressing [Set] button.
 Next Frame
 Manual: Mayor to the next frame by
 - Manual: Moves to the next frame by pressing [Next Frame] after confirming the

measurement.



Notes

for Meas.

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**)

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3. 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.

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 are within the elasticity ROI and press the [Set] button.

Meas. Type

Elasticity

Ratio Measure

Select the measurement of ROI type

between Circle or Trace type.

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**)







The stiffness results within quantification ROI are displayed. Mean : Mean Elasticity value in ROI. SD : Standard deviation in ROI. **Result box** Min : Minimum Elasticity value in ROI. • Max : Maximum Elasticity value in ROI. Diameter : Diameter of ROI box. RMI : The reliability of the measured Shearwave Elasticity value. Available to view the measured results. It can Stiffness scroll the result using the [Scroll] button. If you want to delete the result individually by Result pressing the [Delete] button or selecting licon. Available to select if the measure summary (Median, Mean, IQR, IQR/Med value) display on Measure 3 the result or not. You can configure the results that Summary you wish to display and their order in 'Utility > Display Setup> Imaging > Features > S-Shearwave imaging[™]. Store with Saves the image including the measurement

results area.

Result

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User Quick Guide 5.Profile (1)





1 Profile Tap the [Profile] button on the touch screen. S-Shearwave Imaging[™] Profile view could be used criterion to assess the quality of the data. Median : Central value Results IQR/Med. - IQR(Interquartile Range) : 75percentile - 25percentile - IQR/Med < 30% : Acceptable value IQR/Med > 30% : Unreliable value Average of Standard shear wave = deviation of **Result Graph** 3 measurements measurements

User Quick Guide 5.Profile (2)



1	Auto Profile	Exclude all unreliable data to set the IQR/Med value to 30% or lower.
2	Semi-Auto Profile	Exclude unreliable data one by one, start from the most unreliable data, and set the IQR/Med value close to 30% or lower.
3	Save	Save and send the result to the report page.
4	Report	Select the [Report] button on the touch screen and the result value is saved on the report.

Ultrasound Report											
Name			D	SAMSUNG Exam. Date		2020-06	2020-06-22				
[Abdomen]											
S-Shearwave Imaging											
Elasticity	[Site A]										
	Mean : 5.4kPa / 1.33m/s IQR : 0.3kPa / 0.03m/s				Median : 5.3kPa / 1.33m/s IQR/Med. : 4.7 % [kPa] / 2.3 % [m/s]						
ROI	Me	san	S	D	Min-	Max	Diameter	RMI			
	kPa	m/s	kPa	m/s	kPa	m/s	cm				
1	5.5	1.35	1.2	0.14	3.9 - 9.7	1.14 - 1.80	1.0	0.9			
2	5.3	1.33	1.2	0.14	3.5 - 9.3	1.07 - 1.76	1.0	8.0			
3	5.2	1.31	0.8	0.10	4.1 - Z 7	1.17 - 1.60	1.0	1.0			
4	5.3	1.33	0.8	0.10	3.5 - 7.4	1.07 - 1.57	1.0	0.9			
5	5.5	1.35	1.0	0.12	4.1 - 9.7	1.17 - 1.80	1.0	0.9			

Notes

The result can be trusted only when the value from dividing

Interquartile Range by Median (IQR/Med.) is less than 30%.



Notes

How to obtain accurate S-Shearwave Imaging[™].

- Fast for 4 hours before the examination is recommended.
- To maximize intercostal space, supine position with raised a right arm above the head is recommended.
- Scan through the intercostal space between ribs since evaluation on right liver lobe is more recommended.

× Possible to get more reliable result than through a subcostal scan by preventing motion artifacts and providing an easy access.

- Ask patients to breathe steadily and stably before holding their breath to avoid deep breathing.
- ROI should be at least 1.5cm below the liver capsule. (over 2cm is recommended)

- The features, options may not be commercially available in some countries.
 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, fore more detail, please refer to RS85 User Manual.
- Do not distribute this document to customers unless relevant regulatory and legal affairs officers approve such distribution.
 This User Quick Guide is based on RS85 V2.08.01
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