

HERA Z20 Quick Guide





S-DetectTM for Breast 1. Probe and Preset

4			-			
Patient		смv1-10 👕	LM2-18	EA2-11AR		
			۰ ۲			
Probe	Default	User				
I	ОВ	Pediatric	Small Parts	Thoracic	Vascular	Probe App. Order
Report	1st Trimester	Ped Abd	Breast	Lung	Carotid	
	2nd Trimester	Ped Hip	Thyroid		Arterial	
SonoView			Testicle		Venous	
End Exam						Reset
\$						
Utility						
						Quick Preset Edit

 \ast S-Detect for Breast^* can be operated under the following conditions :

Probe	Application
LM2-18	Small Parts (Breast)

2. Start S-DetectTM for Breast



1	Image acquisition	Acquire the image of the lesion in 2D mode and press the [Freeze] button.
2	Start S-Detect	Tap [S-Detect] on the touch screen.

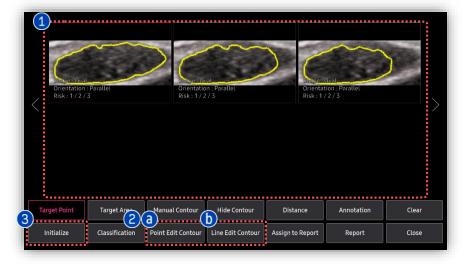
S-DetectTM for Breast 3. Designate the ROI

<			2			>
Target Point	Target Area	Manual Contour		Distance	Annotation	Clear
Initialize	Classification	Point Edit Contour				Close
[Touch Screen]						



1	Detection method	Target Point (Default mode)Target AreaManual Contour
2	Target Point	Touch the center of the lesion on the touchscreen. Or locate the cursor on the center of the lesion on the monitor and press the [Set] button.
3	Detect the boundary	Lesion boundary is automatically detected and displayed in yellow contour.

4. Select the Candidate and Edit



Candidates	Available candidate images are provided (up to 6) on the touch screen so that you can choose the most suitable image. To select, just tap on one of the images.
2 Edit Contour	If necessary, you can edit the contour of selected candidate by using [Point Edit Contour] or [Line Edit Contour] on the touch screen.
Initialize	To reset all results and re-specify, Tap [Initialize] button on the touch screen.

Point Edit Contour	Line Edit Contour		
Locate the cursor close to the part of contour that you want to modify and press the [Set] button.	Draw the new boundary (green color) manually using the trackball and press the [Set] button. $$		

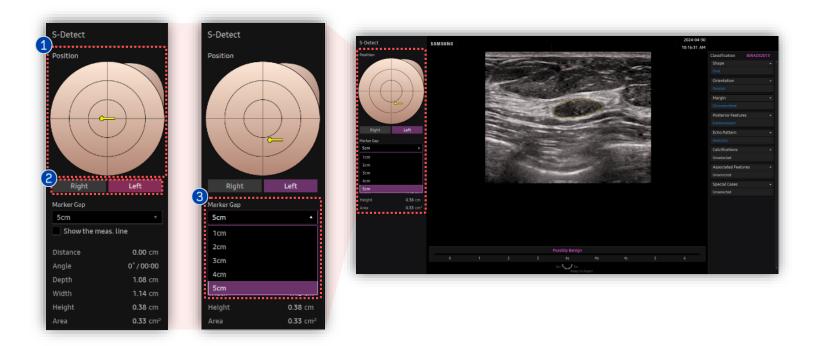
Produced by Clinical Training Center / SAMSUNG MEDISON CO.,LTD

S-Detect[™] for Breast 5. Result Page



1	Location information Area	Provides information about the location and the size of the lesion.
2	Classification	Provides the BIRADS Lexicon Classification of the lesion.
3	Description & BI-RADS Score	S-Detect only suggests whether the lesion tends to be malignant or benign.

S-DetectTM for Breast 6. Result Page: Mark the Position



1	Position	Locate the probe marker (yellow bar) according to the lesion's location with [Set] button. Use the [Angle] button on the control panel to rotate the marker.
2	Laterality	Select right or left breast with [Set] button.
3	Marker Gap	Choose the marker gap size to change the scale of the distance from the nipple depending on the size of patient's breast.

S-Detect™ for Breast

7. Result Page: Edit the Classification (1)



Classification BIRADS20)13	Classification BIRADS
Shape		Shape
		Oval
Orientation		Orientation
		Parallel
Margin		Margin
		Circumscribed
Posterior Features		Posterior Features
Enhancement		Enhancement
Echo Pattern	•	Echo Pattern
Anechoic*		Anechoic*
Calcifications	•	Anechoic* Hyperechoic Complex Cystic And Solid Hypoechoic Isoechoic Heterogeneous
Unselected		Complex Cystic And Solie
Associated Features		Hypoechoic
Unselected		Isoechoic
Special Cases		Heterogeneous
Unselected		Unselected

\star Tips

5 Classifications (blue color) are automatically provided. 3 Classifications (white color) are 'Unselected', so it can be selected manually by users.

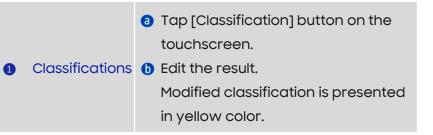
- Click the title of classification thatyou want to modify.
 - Edit the result. Modified classification is presented in yellow color.

S-Detect^{**} for Breast 7. Result Page: Edit the Classification (2)

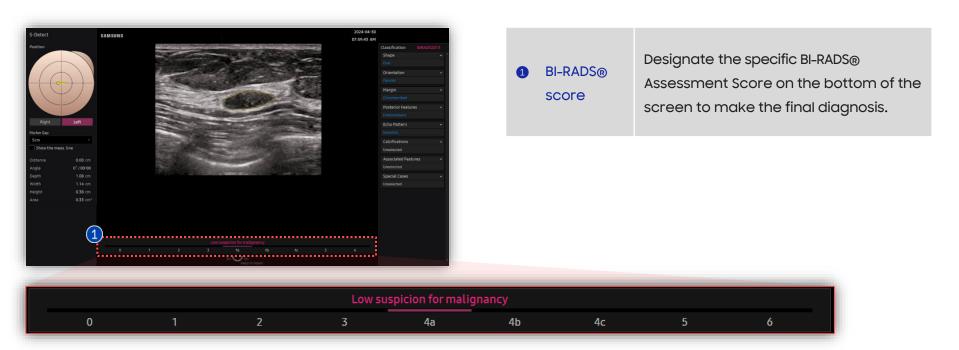
Orientation: Parallel Risk: 1 / 2 / 3					>
Target Point Target Area	Manual Contour	Hide Contour	Distance	Annotation	Clear
	Point Edit Contour	Line Edit Contour	Assign to Report	Report	Close

[Touch Screen]





S-DetectTM for Breast 8. Result Page: BI-RADS® Score



HERA Z20

S-DetectTM for Breast 9. Assign to Report

orientation Risk:1/2/	: Parallel					>
Target Point	Target Area	Manual Contour	Hide Contour	Distance	Annotation	Clear
Initialize	Classification	Point Edit Contour	Line Edit Contour		Report	Close

1	Assign to Report	If you want to add the S-Detect results to the report, tap [Assign to Report] button on the touch screen.
2	Report	Tap the [Report] button on the touch screen to confirm the result of S-Detect. Click [S-Detect for Breast Report] button on the left side.

			30	Temp_202 2024-04-3	Patient ID Exam Date Left #1
lso Un	Classification Shape Orientation Margin	1.14 cm 0.38 cn 0.33 cn 0.0 * 00:00	Distance Depth MarkerGap Width Height Area Angle	T T	

* Appendix – Setup

etup	Operation	Display	Preset	EzFit	EzFlow	3D	<u>Features</u>
System	Feature						
Imaging	S Detect for Bre	ast	Ŧ				
Measurement	Description On) o rr				
Report	2 Sensitivity Settin	g					
Annotation	High Sensitiv						
BodyMarker	High Accurac						
Customize	High Specific	ity					
Peripherals	Classification		BIRADS2013				
Connectivity	Default Position		0100032013				
	Left		Right				
	5 Recalculation						
			• 011				

1	Description	Turn on or off the description on the result page.
2	Sensitivity Setting	Select the sensitivity of S-detect.
3	Classification	Select the classification system, 'BI-RADS® 2003' or 'BI-RADS® 2013.'
4	Default Position	Select the default side of breast
6	Recalculation	Select whether you want recalculation when there is an edit in the classification.

* Tips	
You can edit the settings for S-detect in the Setup	
page.	
Utility \rightarrow Setup \rightarrow Imaging \rightarrow S-Detect \rightarrow S-detect for	
Breast	

- The features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed.
- Do not distribute this internal document to customers unless relevant regulatory and legal affairs officers approve such distribution.
- This product is a medical device, please read the user manual carefully before use.
- This document is provided to help you understand the feature.
- This User Quick Guide is based on HERA Z20 V1.00.
- Disclaimer: Some Images in this content were obtained from other system.

SAMSUNG MEDISON CO., LTD.

© 2024 Samsung Medison All Rights Reserved. Samsung Medison reserves the right to modify the design, packaging, specifications, and features shown herein, without prior notice or obligation.