

S-Detect[™] for Thyroid

HERA Z20 Quick Guide





S-Detect[™] for Thyroid 1. Probe and Preset

Patient		СМV1-10	LM2-18	EA2-11AR		
Probe	Default	User				
	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						
\$						
Utility						
						Quick Preset Edit

* S-Detect $^{\mathrm{M}}$ for Thyroid can be operated under the following conditions :

Probe	Application
LM2-18	Small Parts (Thyroid)

S-Detect[™] for Thyroid 2. Start S-Detect[™] for Thyroid



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.

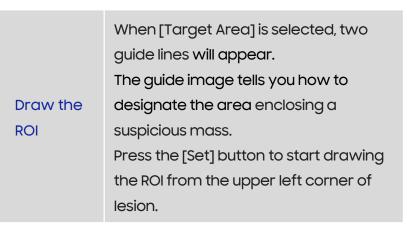
S-Detect[™] for Thyroid 3. Designate the ROI (1)

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



2

- Target Point
- Target Area (Default mode)
- Manual Contour



S-Detect Depter Section Sectio

S-Detect[™] for Thyroid 3. Designate the ROI (2)

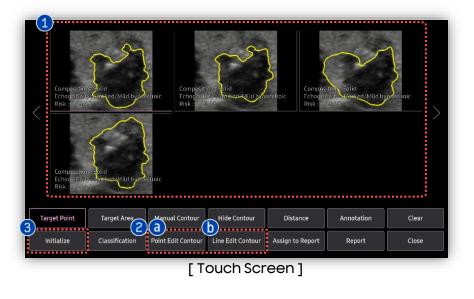


[Monitor Screen]



1	Draw the ROI	Adjust the guidelines to make the rectangle overlap the boundaries of suspected lesion and click [Set] button to finish.
2	Detected boundary	After drawing the ROI, lesion boundary is automatically detected and is displayed in yellow contour.

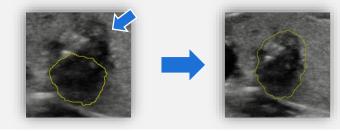
S-Detect™ for Thyroid 4. Select the Candidates and Edit



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

a Point Edit Contour

Locate the cursor close to the part of contour that you want to modify and then press [Set] button.



b Line Edit Contour

Draw the new boundary (green color) manually using the trackball and press the [Set] button.



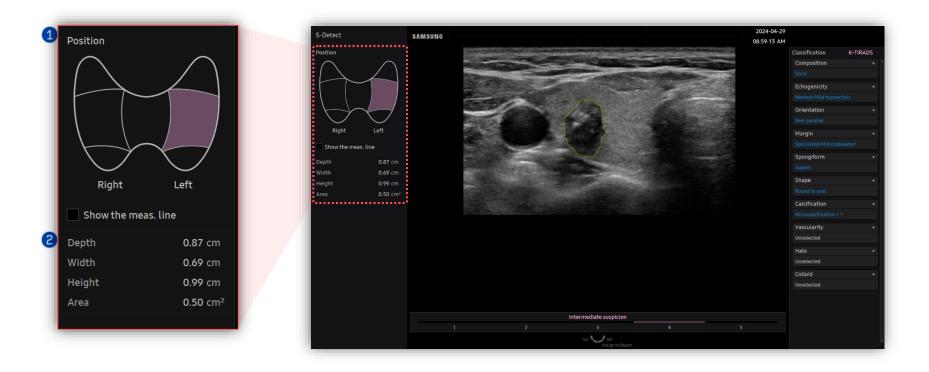
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S-Detect[™] for Thyroid 5. Result Page



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

S-Detect[™] for Thyroid</sup> 6. Result Page: Mark the Position



1	Position	Select the location of the lesion on the thyroid body marker and press the [Set] button.
2	Information of lesion	Depth, Width, Height and Area are automatically displayed.

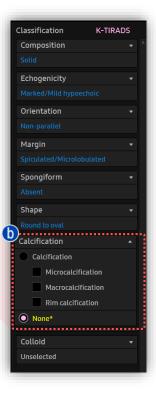
S-Detect[™] for Thyroid</sup> 7. Result Page: Edit the Classification (1)



Classification	K-TIRADS	
Composition		^
Echogenicity		
Orientation		
Margin		
Spongiform		
Shape		
Round to oval		
Calcification		
Vascularity		
Unselected		
Halo		
Unselected		
Colloid		
Unselected		

Classifications

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★ Tips

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

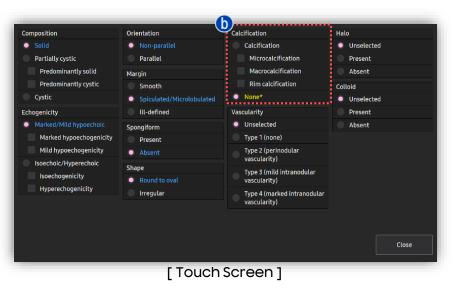
- Click the title of classification that you want to modify.
- Edit the result. Modified classification is presented in yellow color.

S-Detect[™] for Thyroid 7. Result Page: Edit the Classification (2)

1

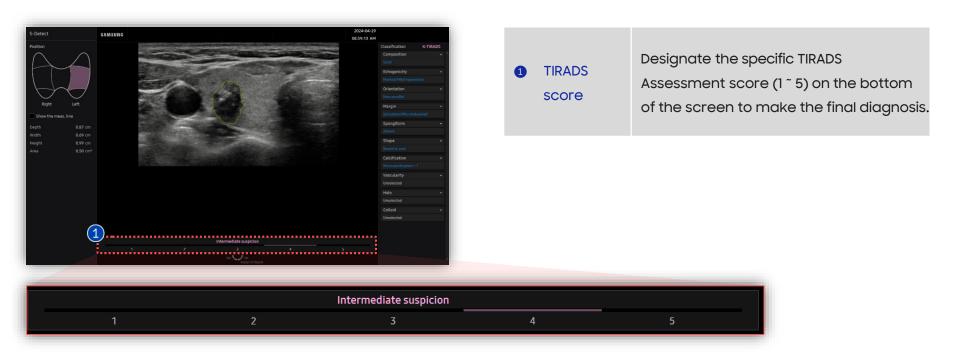


[Touch Screen]



	a Tap the [Classification] button on the
	touch screen.
Classifications	b Edit the result.
	Modified classification is presented
	in yellow color.

S-Detect^{III} for Thyroid 8. Result Page: Description and Score



9. Assign to Report S-Detect™ *for Thyroid*

Composition : Solid Echogen (:It): Marked Risk : 3/1075	//Midukyssechoic				>
Target Point Targe	et Area Manual Contour	Hide Contour	Distance	Annotation	Clear
Initialize Classi	ification Point Edit Contour	Line Edit Contour	Assign to Report	Report	Close

0	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 review the result of S-Detect.

een

Patient ID Exam Date	Temp_20240429-2 2024-04-29		Name		
#1	Depth Width	0.87 cm 0.69 cm	Reference	oly Malignant K-TIRADS	3~5
Right Right	Left Height	0.99 cm 0.51 cm ²	Composition Echogenicity Orientation Margin Spongiform Shape Calcification	Solid Marked/Mild hyy Non-parallel Spiculated/Micrd Absent Round to oval Microcalcificatio Macrocalcificatio	olobulated n
	00		Vascularity Halo Colloid	Unselected Unselected Unselected	ווע

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S-Detect[™] for Thyroid

* Appendix – Setup

Setup	Operation	Display	Preset	EzFit	EzFlow	3D	<u>Features</u>
System	Feature						
Imaging	S-Detect for Thy	vroid	¥				
Assist	Description						
Measurement	 On 		Off				
Report	Sensitivity Setting	g					
Annotation	High Sensitiv	ity					
BodyMarker	High Accuracy						
Customize	High Specific	ity					
Peripherals	Reference		K-TIRADS				
Connectivity	Recalculation						
Service	a Assessmer						
	D Possibly B,						
	Off						

\star 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 Thyroid

Description	Turn on or off the description on the result page.
Sensitivity Setting	Select the sensitivity of S-detect.
Reference	Select the reference system, among 'K-TIRADS', 'EU-TIRADS', 'ATA', 'BTA' or 'ACR TI- RADS.'
Recalculation	 Select whether you want recalculation when there is an edit in the classification. When recalculation is on, you can select to calculate the assessment score or just show whether its possibly benign/malignant. Assessment Score - Classifies the lesion with assessment score Possibly B/M - Indicates whether the lesion is possibly benign or malignant

- 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.

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