Confidential

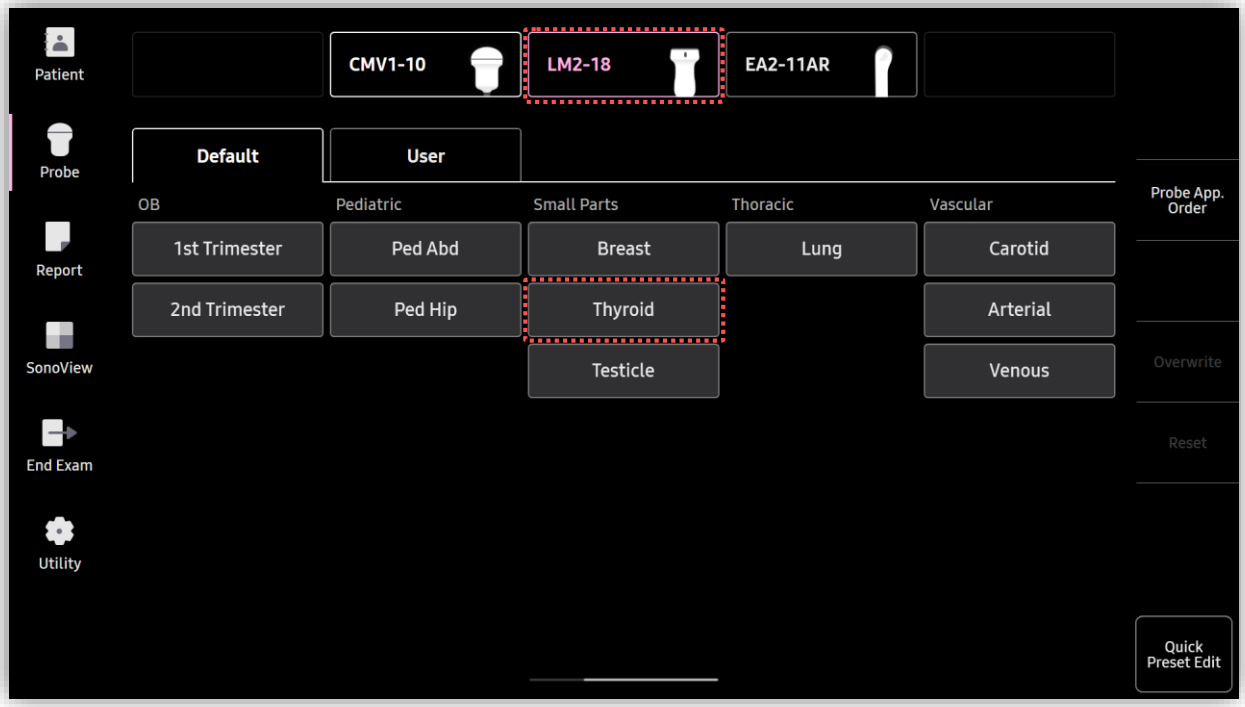
SAMSUNG

S-Detect™ *for Thyroid*

HERA Z20 **Quick Guide**

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

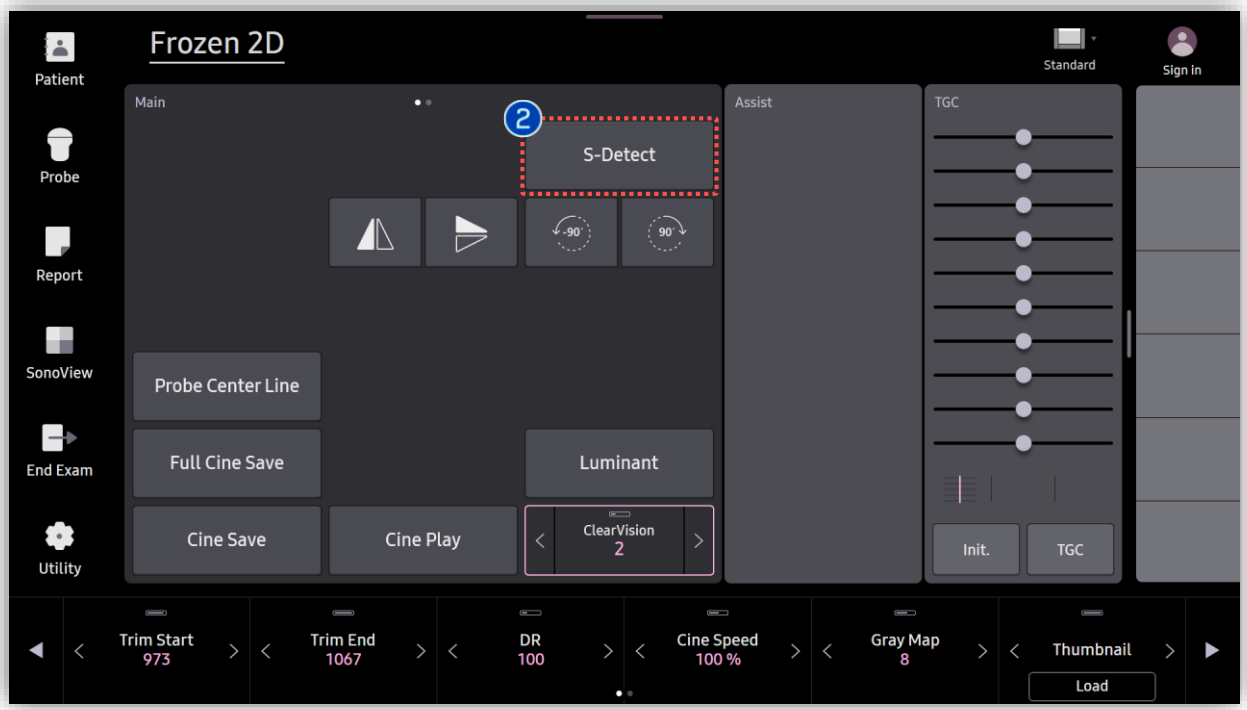
1. Probe and Preset



※ S-Detect ™ for Thyroid can be operated under the following conditions :

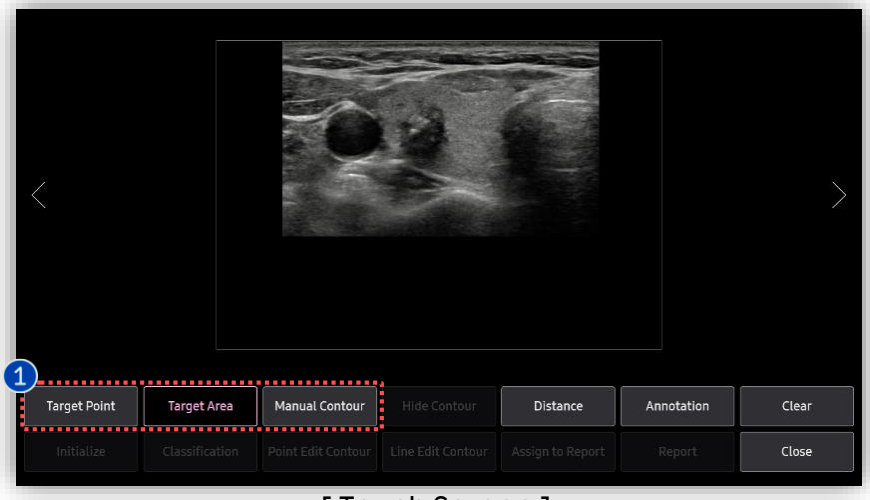
Probe	Application
LM2-18	Small Parts (Thyroid)

2. Start S-Detect™ *for Thyroid*



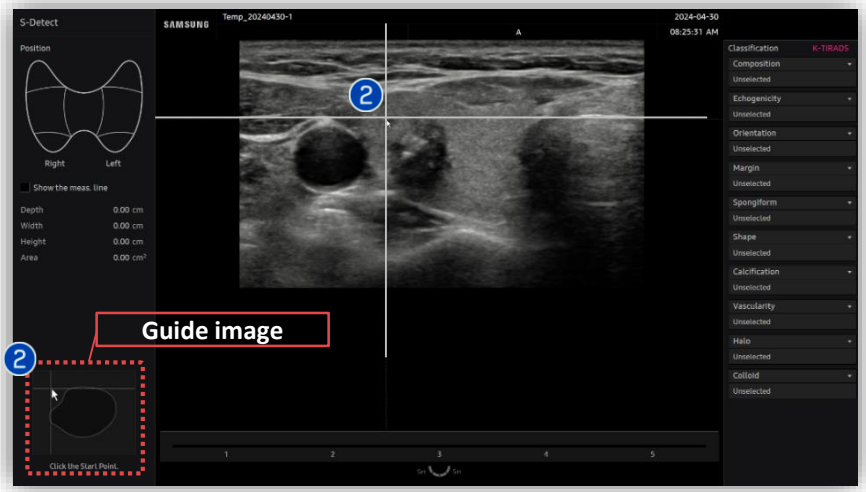
❶ Image Acquisition	Acquire the image of the lesion in 2D mode and press the [Freeze] button.
❷ Start S-Detect	Tap [S-Detect] on the touch screen.

3. Designate the ROI (1)



[Touch Screen]

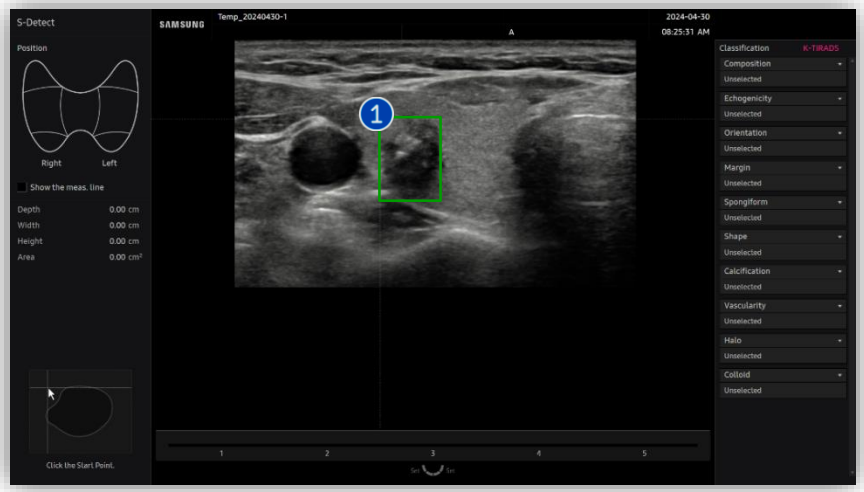
❶ Detection method	▪ Target Point ▪ Target Area (Default mode) ▪ Manual Contour



[Monitor Screen]

❷ Draw the ROI	When [Target Area] is selected, two guide lines will appear. The guide image tells you how to designate the area enclosing a suspicious mass. Press the [Set] button to start drawing the ROI from the upper left corner of lesion.

3. Designate the ROI (2)

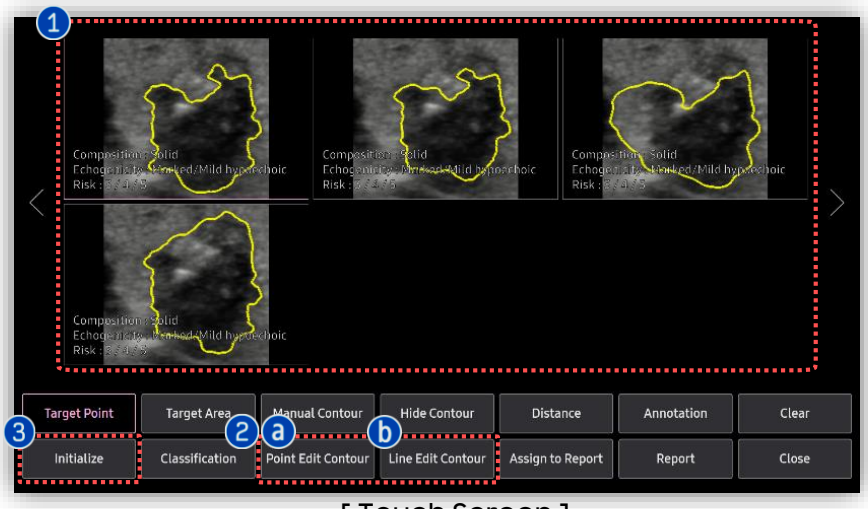


[Monitor Screen]

[Monitor Screen]

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

4. Select the Candidates and Edit

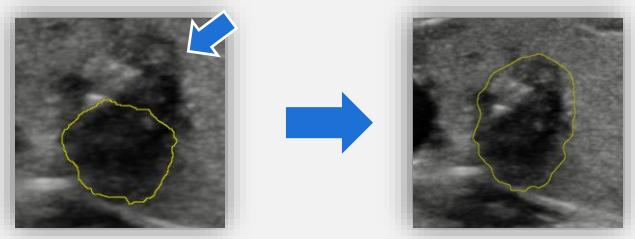


[Touch Screen]

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

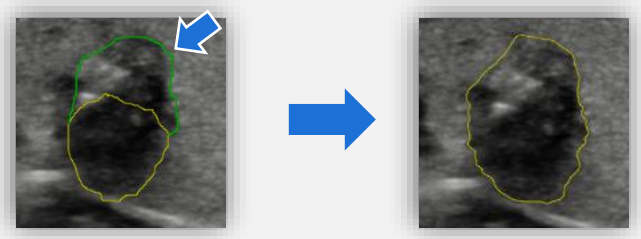
ⓐ Point Edit Contour

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

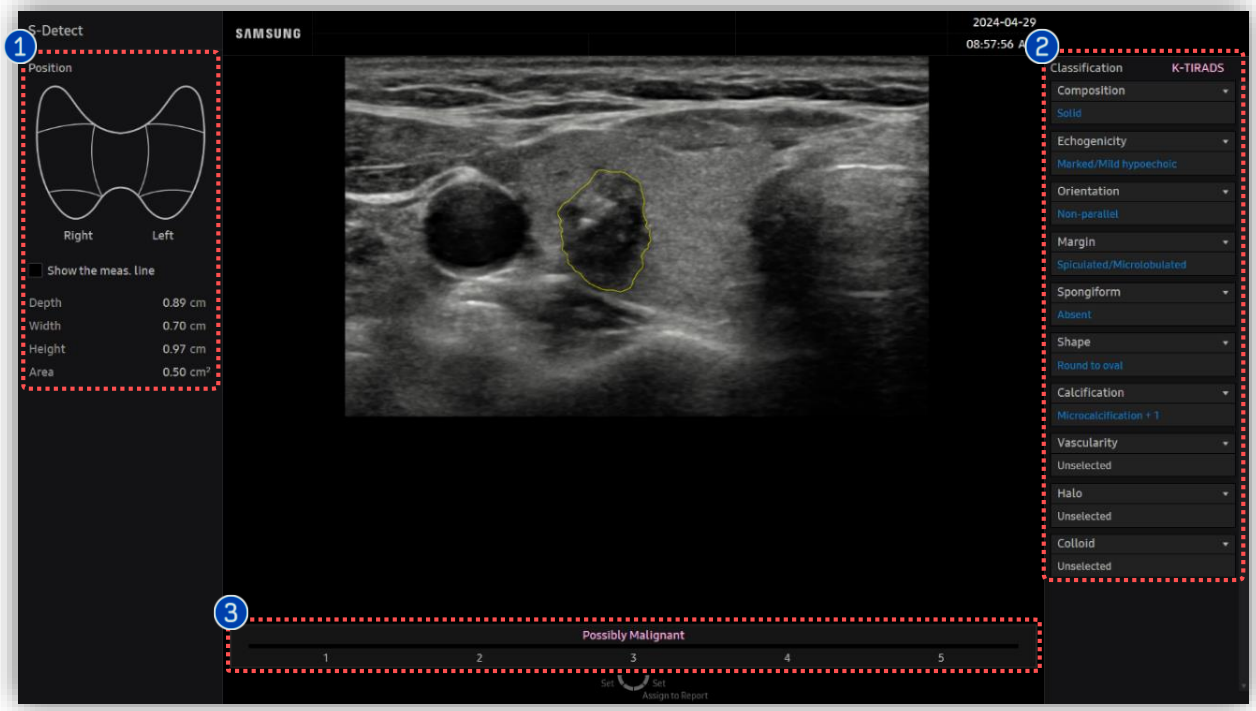


ⓑ Line Edit Contour

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

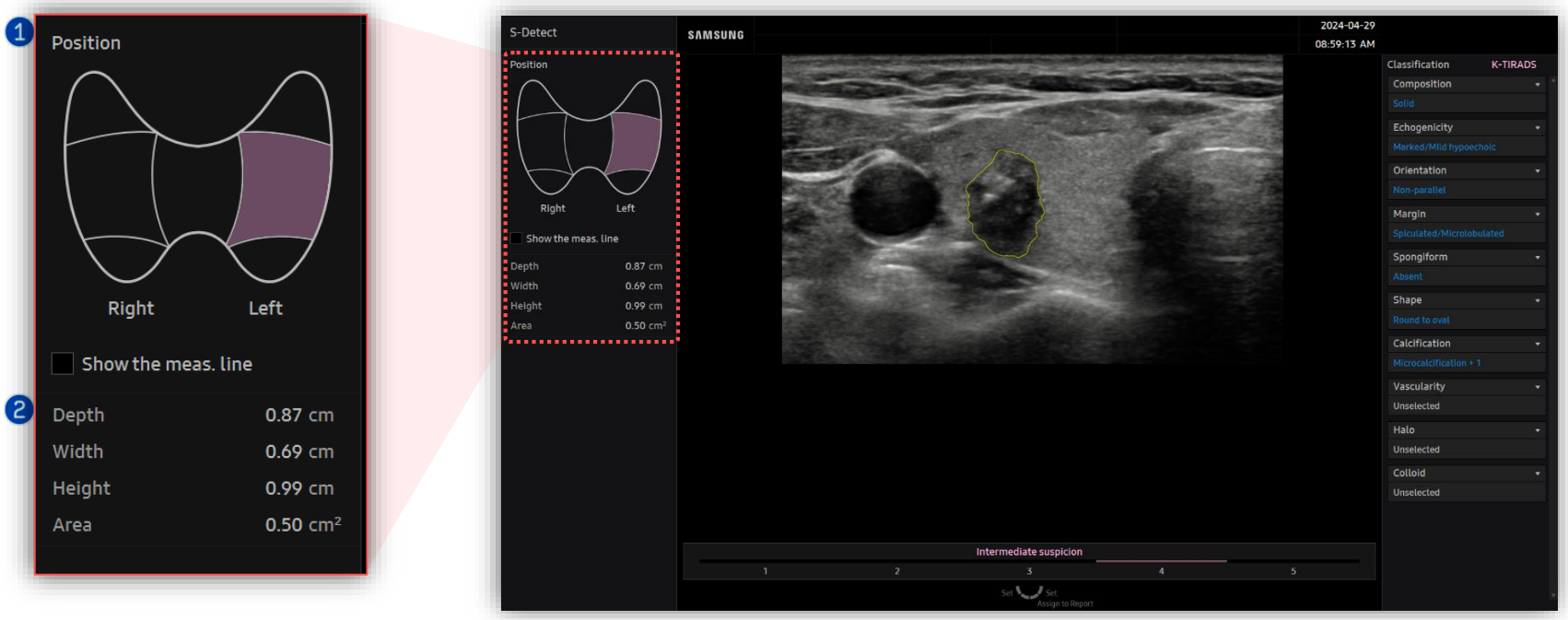


5. Result Page



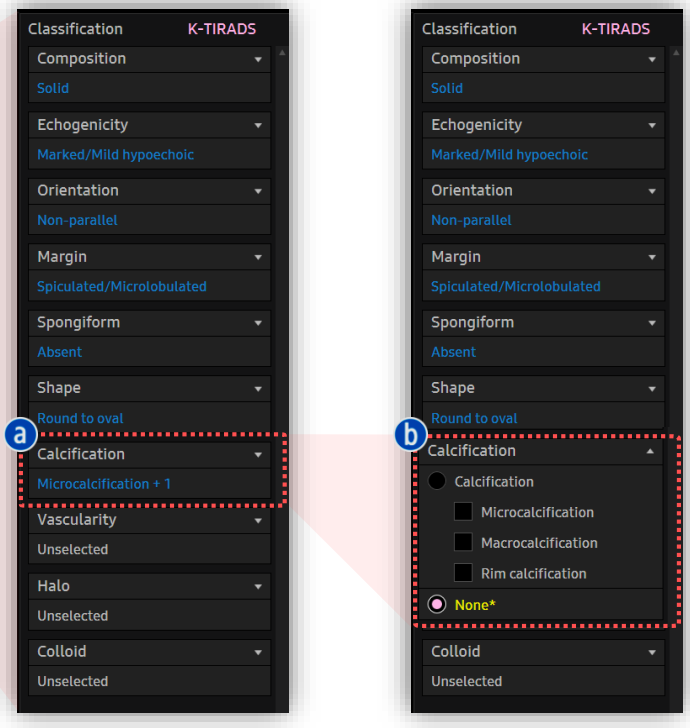
❶ Location Information Area	Provides information about the location and size of the lesion.
❷ Classification	Provides the TIRADS Lexicon Classification of the lesion.
❸ Description	S-Detect only suggests whether the lesion tends to be malignant or benign.

6. Result Page: Mark the Position



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

7. Result Page: Edit the Classification (1)

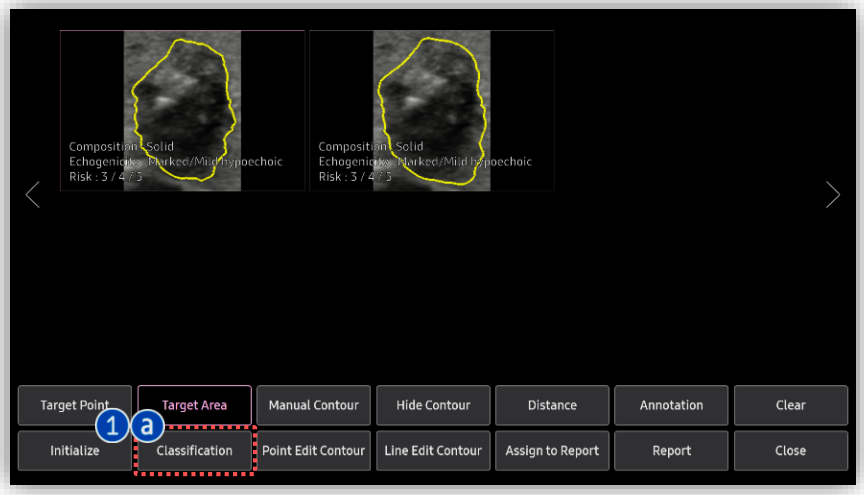


★ Tips

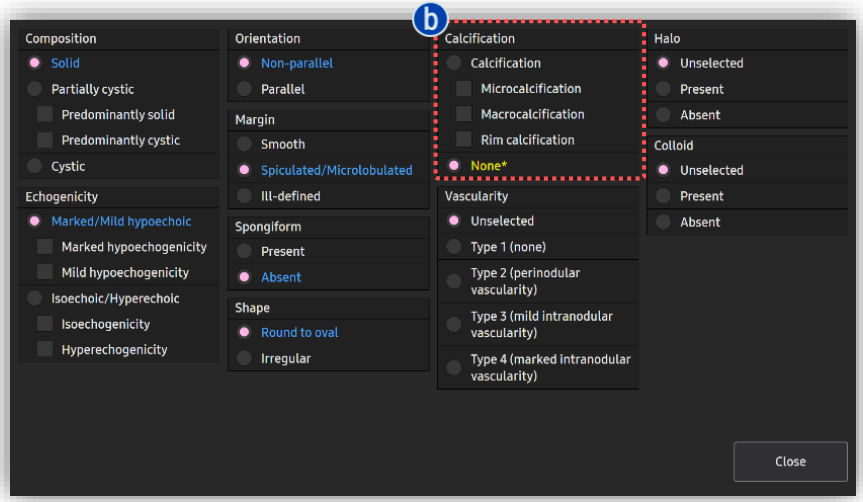
7 Classifications (blue color) are automatically provided.
3 Classifications (white color) are 'Unselected', so it can be selected manually by users.

❶ Classifications	ⓐ Click the title of classification that you want to modify. ⓑ Edit the result. Modified classification is presented in yellow color.

7. Result Page: Edit the Classification (2)



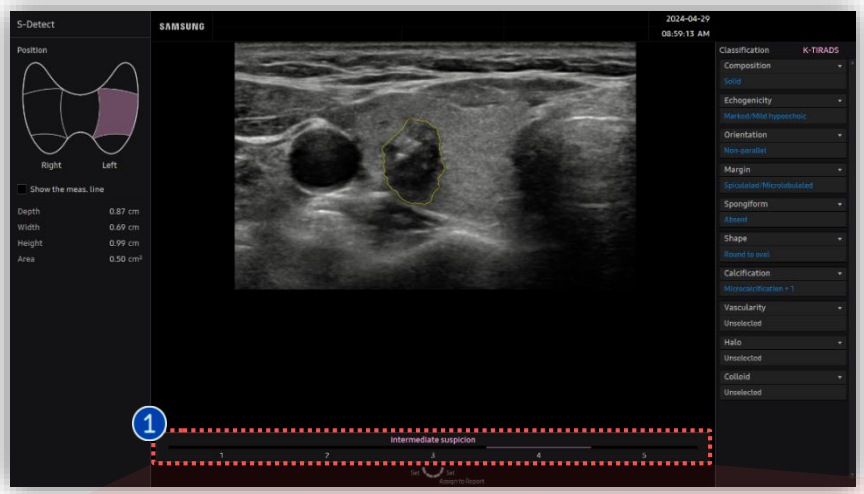
[Touch Screen]

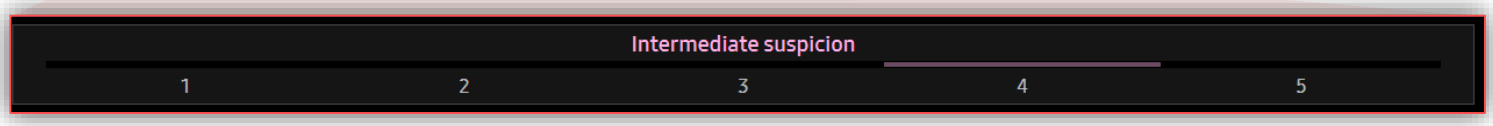


[Touch Screen]

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

8. Result Page: Description and Score

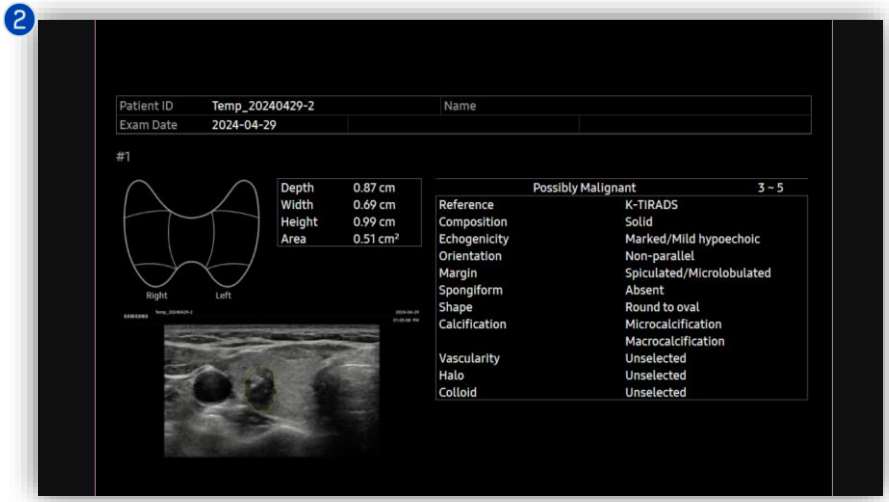




❶ TIRADS score	Designate the specific TIRADS Assessment score (1 ~ 5) on the bottom of the screen to make the final diagnosis.

9. Assign to Report

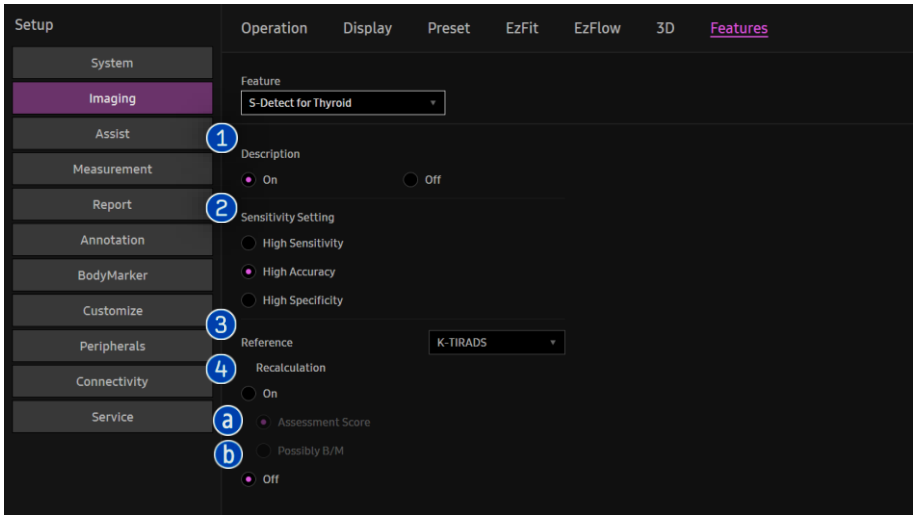
[Touch Screen]



[Monitor Screen]

❶ Assign to Report	If you want to add the S-Detect results to the report, tap [Assign to Report] button on the touch screen.
❷ Report	Tap the [Report] button on the touch screen to review the result of S-Detect.

* Appendix - Setup



❶ Description	Turn on or off the description on the result page.
❷ Sensitivity Setting	Select the sensitivity of S-detect.
❸ Reference	Select the reference system, among 'K-TIRADS', 'EU-TIRADS', 'ATA', 'BTA' or 'ACR TI-RADS.'
❹ 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

★ Tips

You can edit the settings for S-detect in the Setup page.

Utility → Setup → Imaging → S-Detect → S-Detect for Thyroid

- 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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