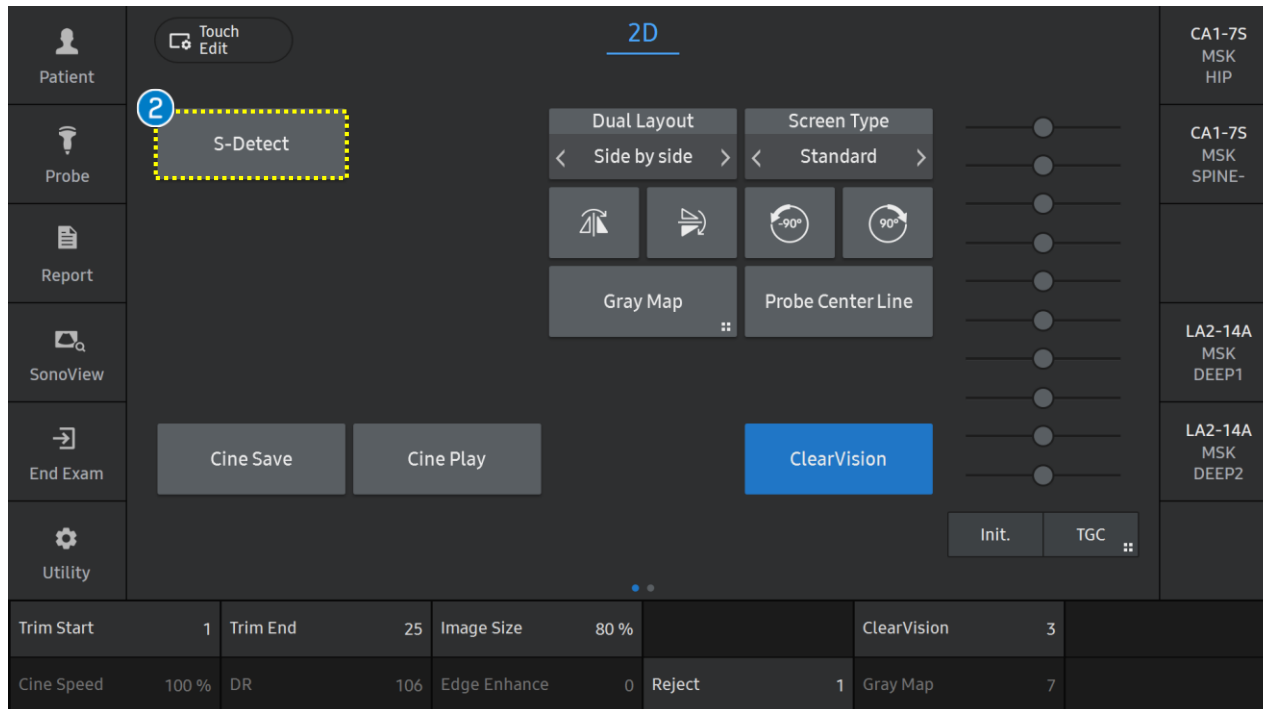


S-Detect™ for Thyroid

V series Quick Guide



1. Start S-Detect™ for Thyroid



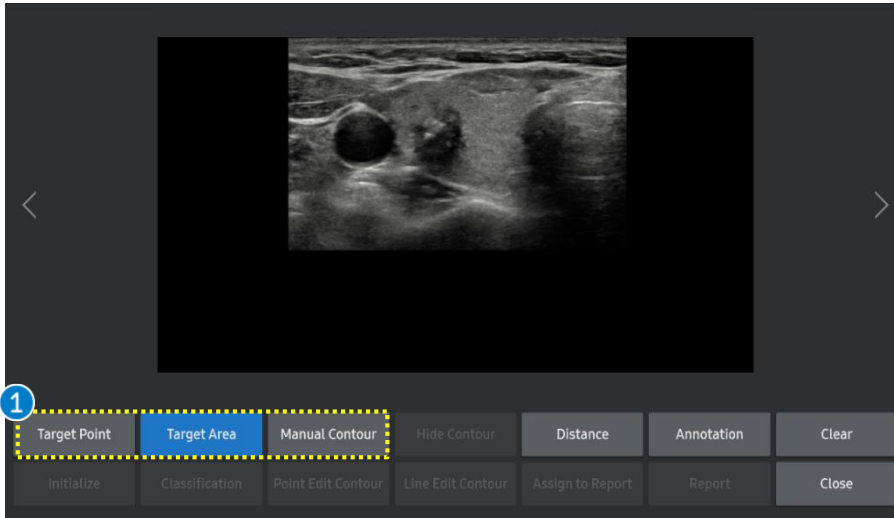
1 Image Acquisition

Acquire the image including lesion in 2D mode and press the [Freeze] button.

2 Start a S-Detect

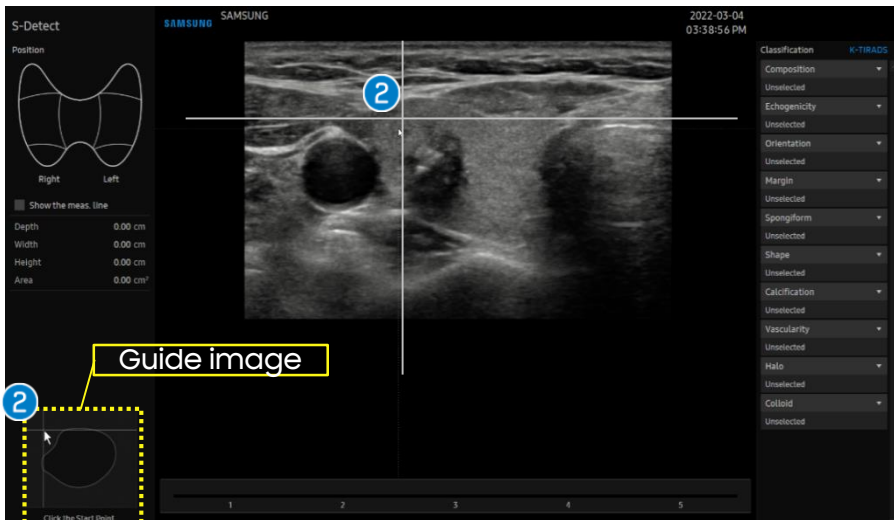
Tap [S-Detect] on the touch screen.

2. Designate the ROI (1)



1 Detection method

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



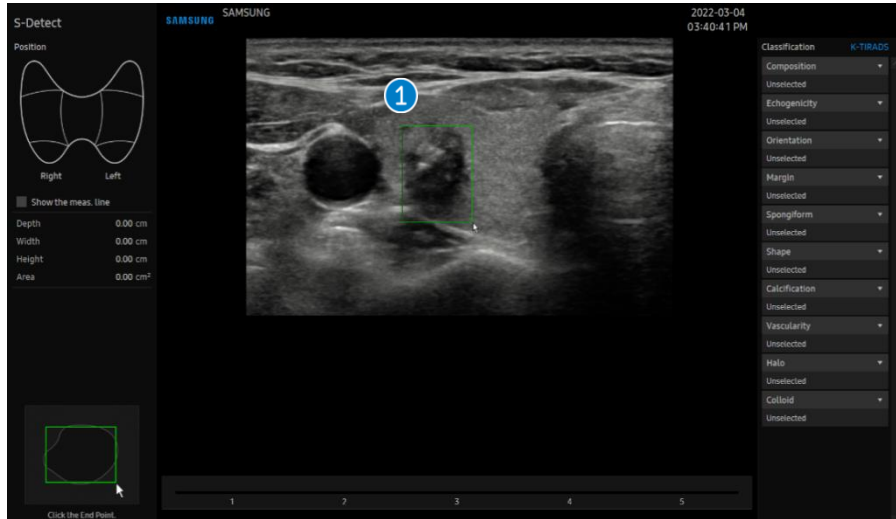
2 Draw the ROI

When the [Target Area] is selected, two guide lines will appear.

A 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 side of the lesion.

2. Designate the ROI (2)

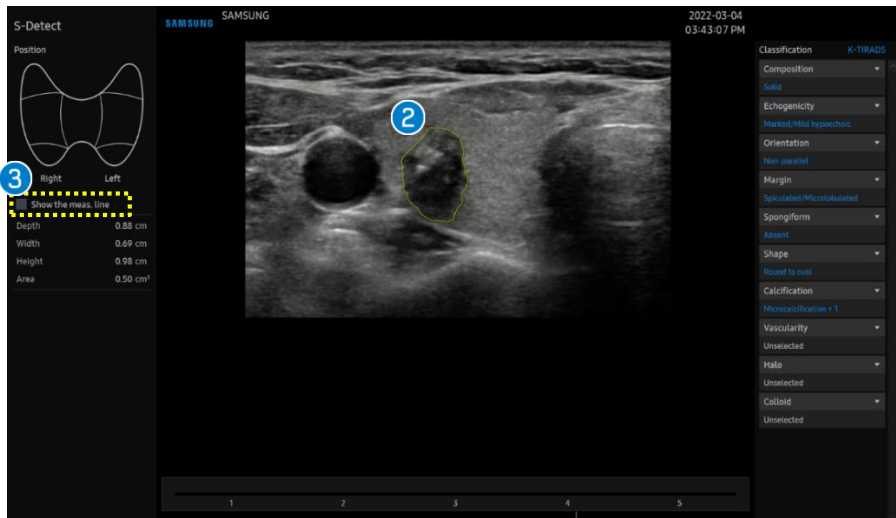


1 Draw the ROI

Adjust the guidelines to make the rectangle overlap the boundary of the suspected lesion and click the [Set] button to finish.

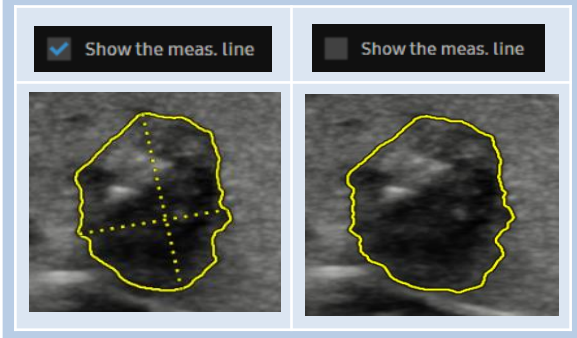
2 Detected boundary

After drawing the ROI, lesion boundary is automatically detected and displayed in green contour.

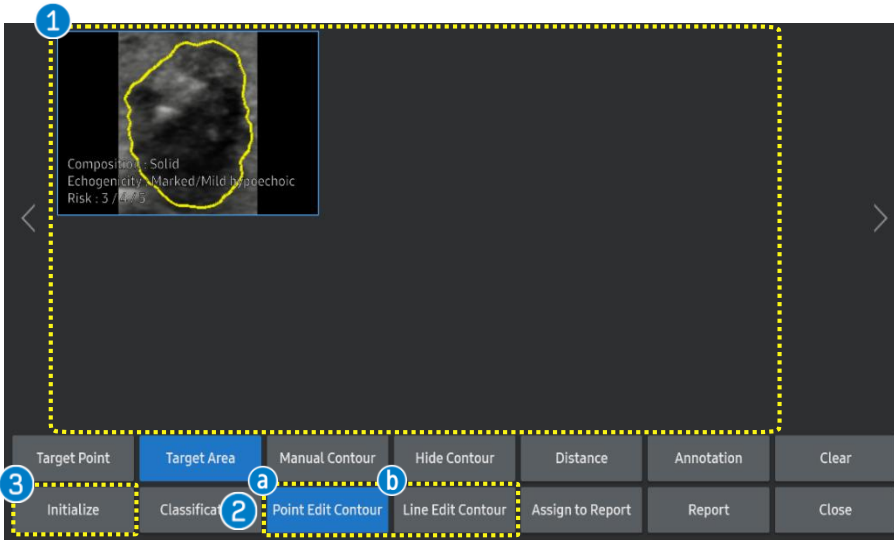


3 Show the meas.line

It is to display the measurement (width and height) of the lesion.



3. Select the Candidate 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

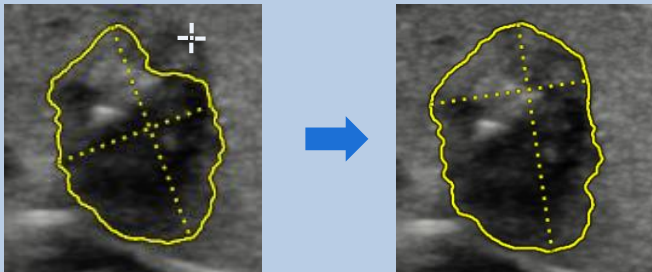
If necessary, you can edit the contour of the selected candidate with [Point Edit Contour] or [Line Edit Contour] on the touch screen.

3 Initialize

To reset all results and re-specify, tap the [Initialize] button on the touch screen.

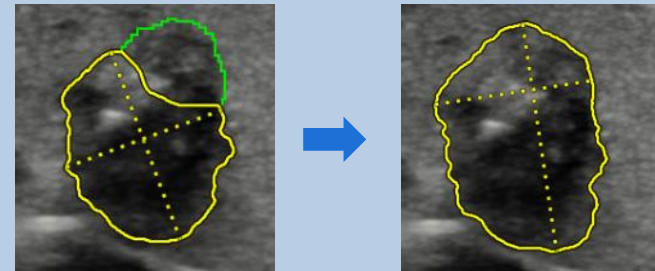
a Point Edit contour

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

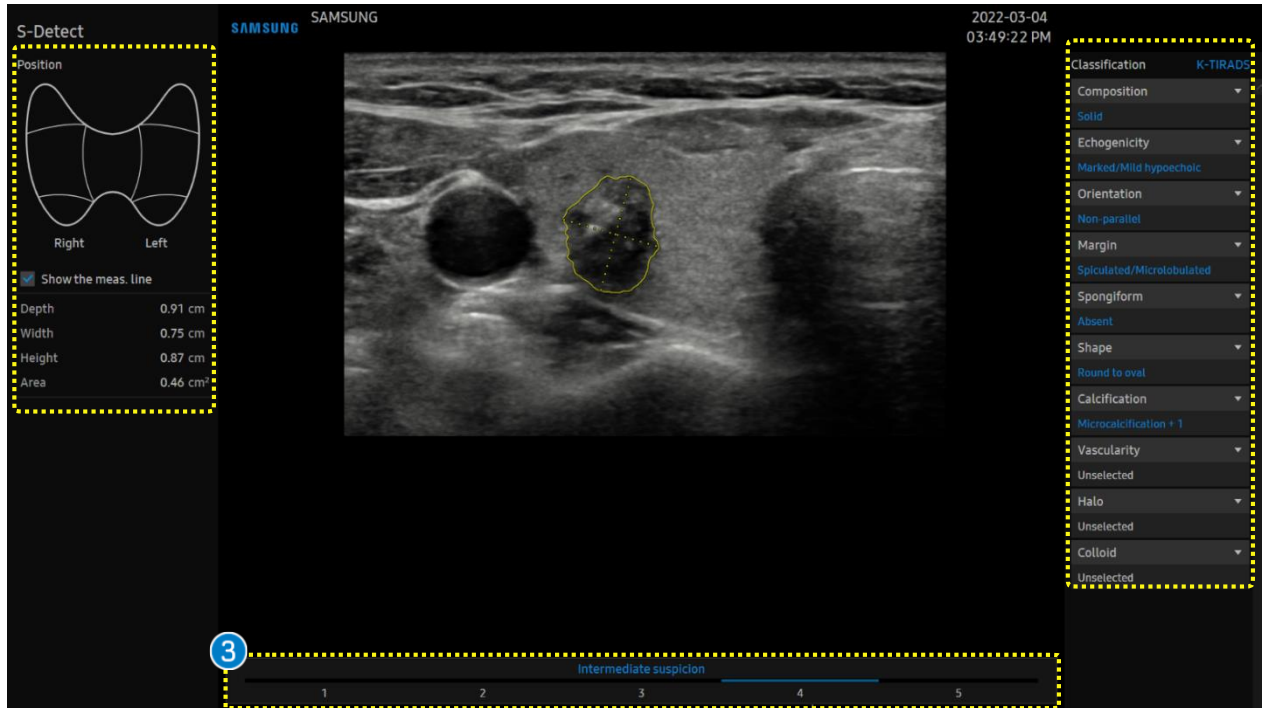


b Line Edit contour

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



4. Result page



<p>① Location Information Area</p>	<p>Provides information about the location and size of the lesion.</p>
<p>② Classification</p>	<p>Provides the Lexicon Classification following the designated reference on Setup. Blue text of classifications - automatically provided. White text of classifications - not specified automatically, so it can be chosen manually by users.</p>
<p>③ Description</p>	<p>S-Detect only suggests whether the lesion tends to be malignant or benign.</p>

5. Result page: Mark the Position

The screenshot displays the S-Detect for Thyroid interface. On the left, a thyroid diagram is shown with a blue shaded area representing the lesion's position. A yellow dashed box highlights the diagram and the measurement data. A blue arrow points from this diagram to the main result page. The main result page shows the same thyroid diagram with the lesion's position marked, a B-mode ultrasound image of the lesion, and a list of measurements: Depth (0.84 cm), Width (0.70 cm), Height (1.01 cm), and Area (0.55 cm²). A classification bar at the bottom indicates 'Possibly Malignant' with a score of 3. On the right, a classification menu is visible, showing 'K-TIRADS' and various parameters like Composition, Echogenicity, Orientation, Margin, Spongiform, Shape, Calcification, Vascularity, Halo, and Colloid.

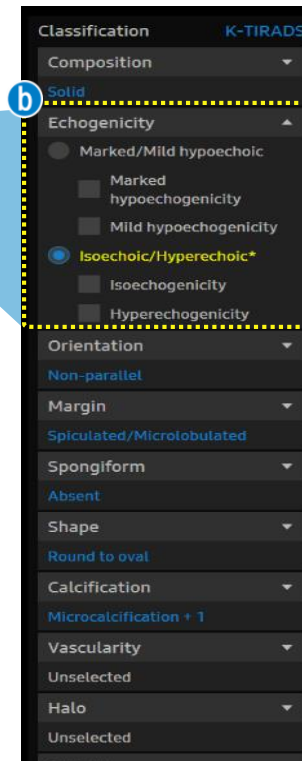
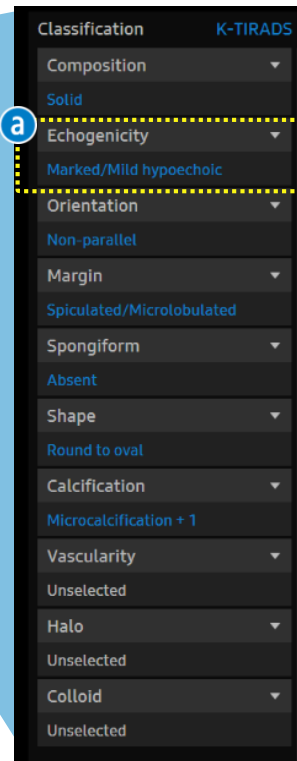
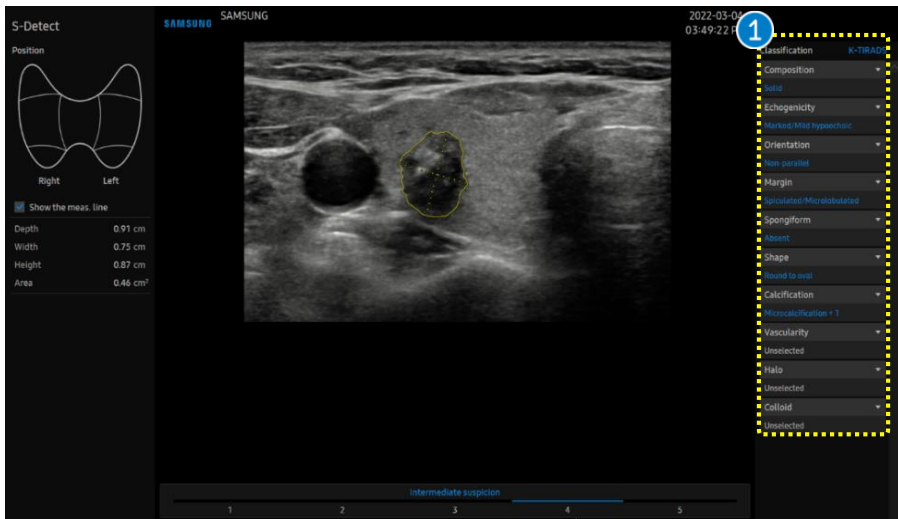
1 Position

Select the location of the lesion on the thyroid diagram and press the [Set] button.

2 Size of lesion

Depth, Width, Height and Area are automatically displayed.

6. Result page: Edit the classification

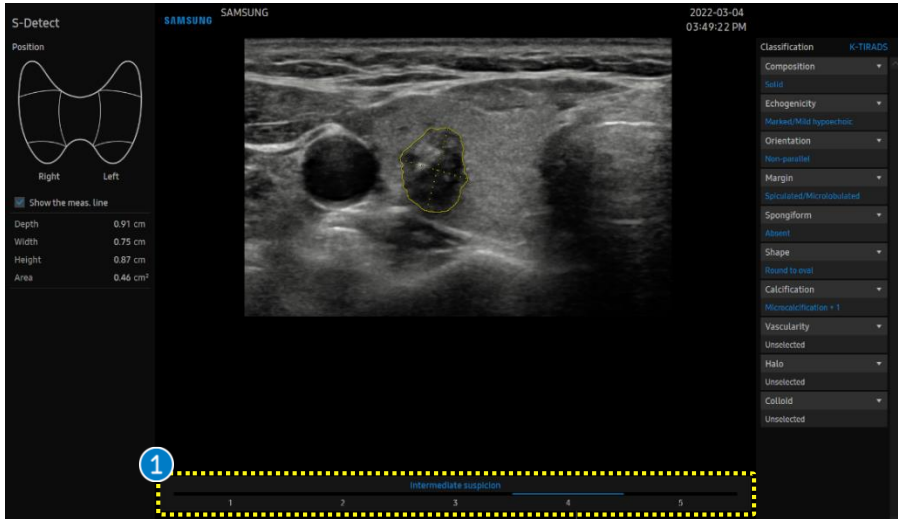


1 Classifications

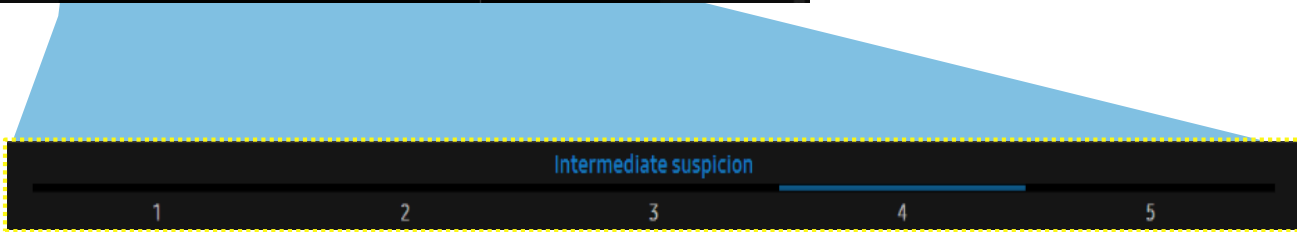
a Click the lexicon that you want to modify.

b Edit the result. Modified Classification is represented in yellow.
Classifications can also be edited on the touch screen.

7. Result page: Description and Score



1 **TI-RADS score** Designate the specific TI-RADS Assessment score (1 ~ 5) on the bottom of the screen to make the final decision.



8. Assign to Report



- 1 Assign to Report
If you want to add S-Detect results to report, tap the [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.

2

ID	SAMSUNG	Name
Date of Birth(Age)	Gender	Exam Date 2022-03-04
Indication		
Diag. Physician	Ref. Physician	Operator
#1		
	Depth 0.91 cm	Possibly Malignant 3 ~ 5
	Width 0.75 cm	Reference K-TIRADS
Height 0.93 cm	Composition Solid	
Area 0.48 cm ²	Echogenicity Marked/Mild hypochoic	
	Orientation Non-parallel	
	Margin Spiculated/Microlobulated	
	Spongiform Absent	
	Shape Round to oval	
	Calcification Microcalcification	
	Macrocalcification	
	Vascularity Unselected	
	Halo Unselected	
	Colloid Unselected	

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- 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, for more detail, please refer to V series 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 V series V1.05.
- Disclaimer: Some Images in this content were obtained from other system.

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