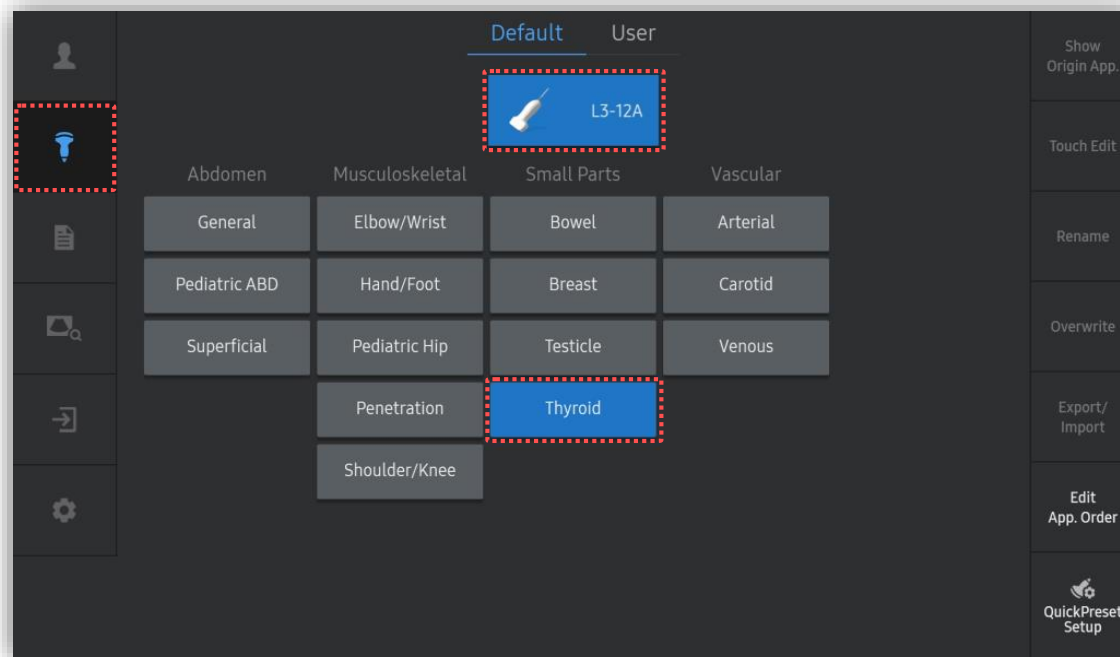


# E-Thyroid™

## HERA W10 Quick Guide



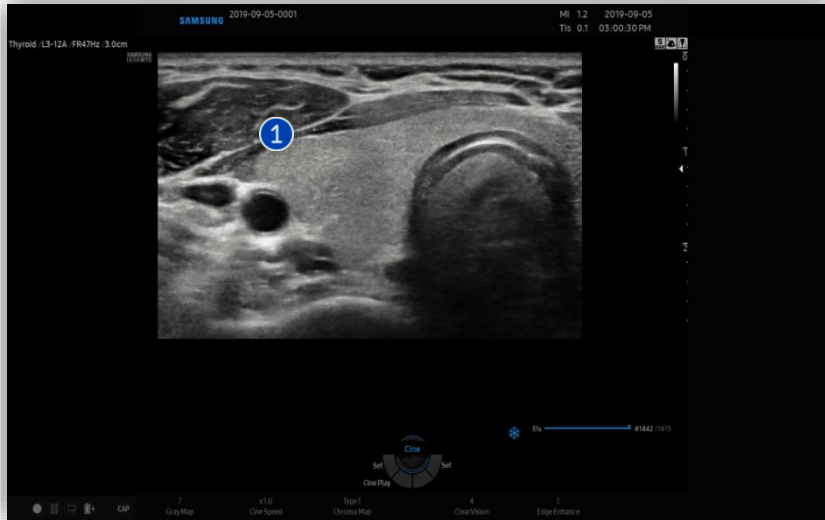
# 1. Probe and Preset



※ E-Thyroid™ can be operated under the following conditions :

Probe	Application
L3-12A	Small Parts (Thyroid)
LA2-9A	
LA2-14A	
LA4-18B	

## 2. Start E-Thyroid™

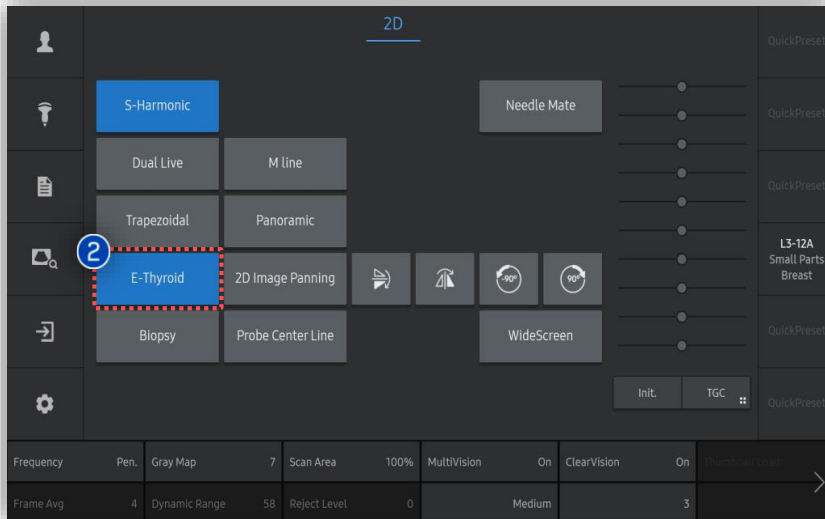


1 Scan

Scan transverse image of thyroid gland.

### ★ Tips

To get more accurate result of E-Thyroid™, the transverse scan is recommended.



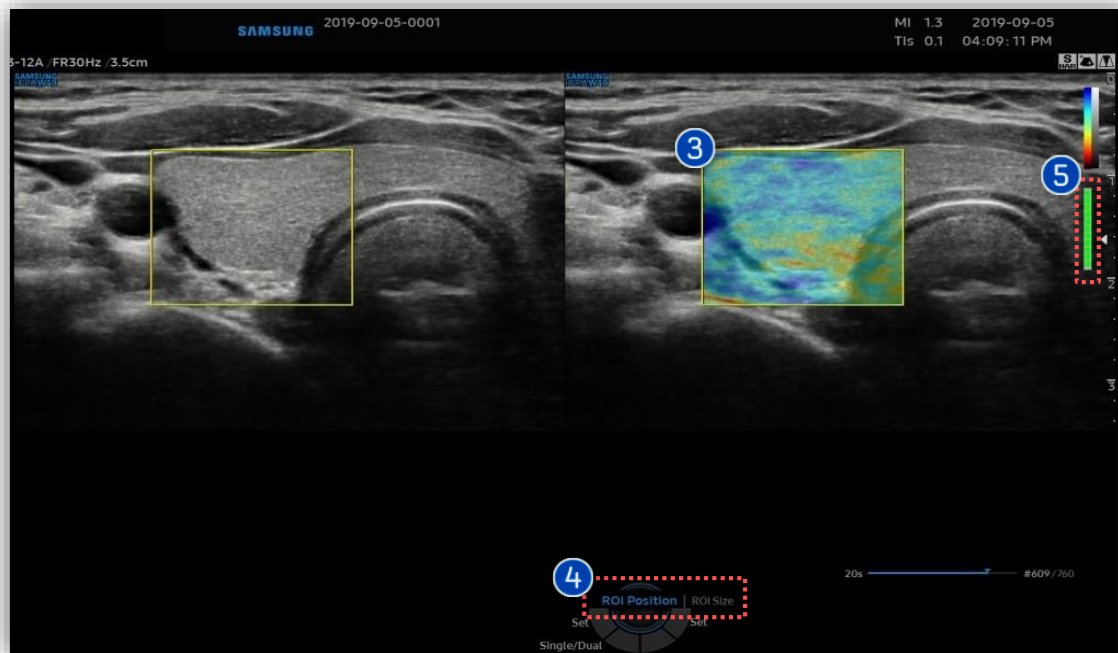
2 E-Thyroid

Tap [E-Thyroid] button on the touch screen.

### ★ Tips

E-Thyroid™ does not need external compression with transducer since it utilizes pulsations from the carotid artery as a compression source.

### 3. Indicators of E-Thyroid™



#### 3 ROI Box

Place the ROI box over the suspicious lesion.

#### 4 ROI Position & ROI Size

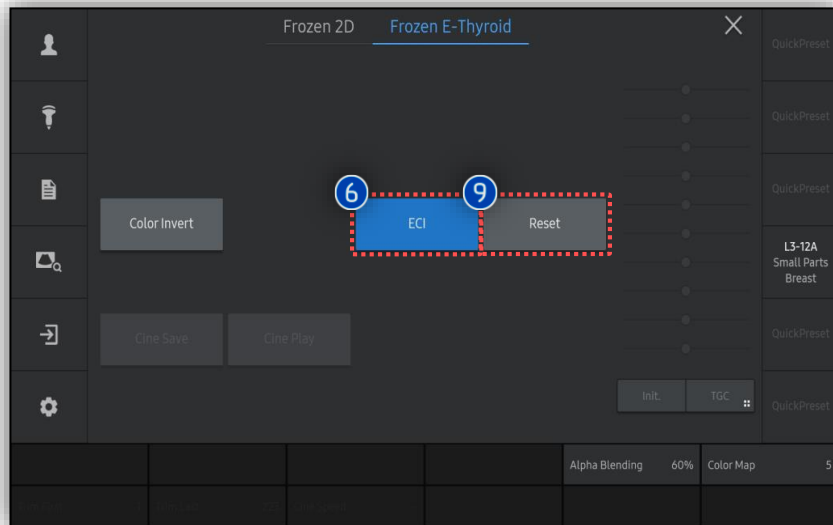
Adjust the position and size of the ROI box using the trackball.

#### 5 Motion guide bar

- Hold the transducer until the motion guide bar turns completely green. For more accurate results, the patient should suspend breathing to prevent extraneous movements for 3-4 seconds.
- When acquiring the strain data, there is a helpful 'Motion guide bar' tool. The level of motion is indicated by colors. (Green = steady, Yellow, Orange or Red = excessive motion)



## 4. Measure ECI (1)



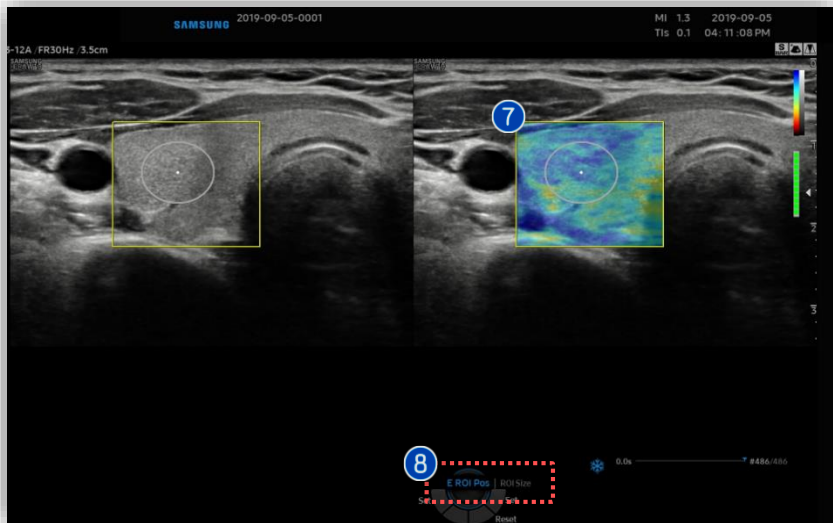
### 6 ECI

After freezing the image, the [ECI] button will appear on the touch screen.

### ★ Tips

ECI (Elasticity Contrast Index) represents how much heterogeneity or homogeneity is inside of the selected area within ROI box.

The ECI score is calculated from the strain map to quantify the local stiffness contrast within the area (i.e. the thyroid nodule).



### 7 ECI ROI

Place the ROI on the suspicious area.

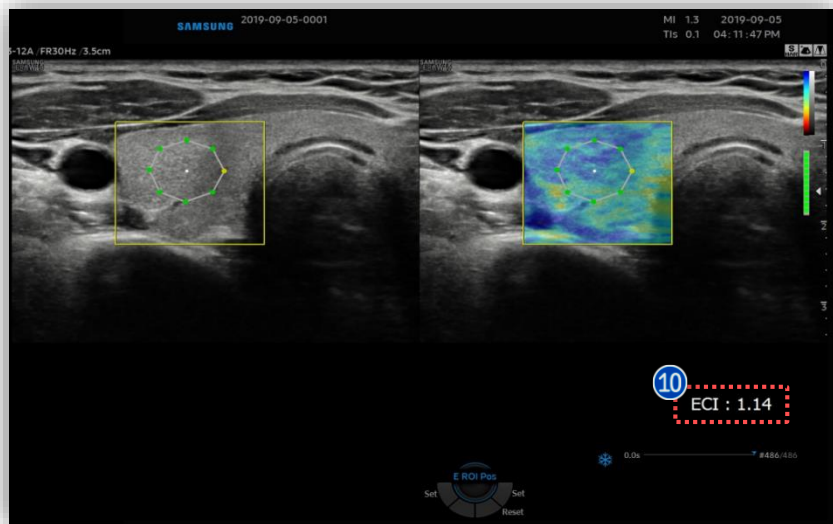
### 8 ECI ROI Position & Size

Adjust the size or location of the ROI using trackball.

### 9 E-Thyroid Reset

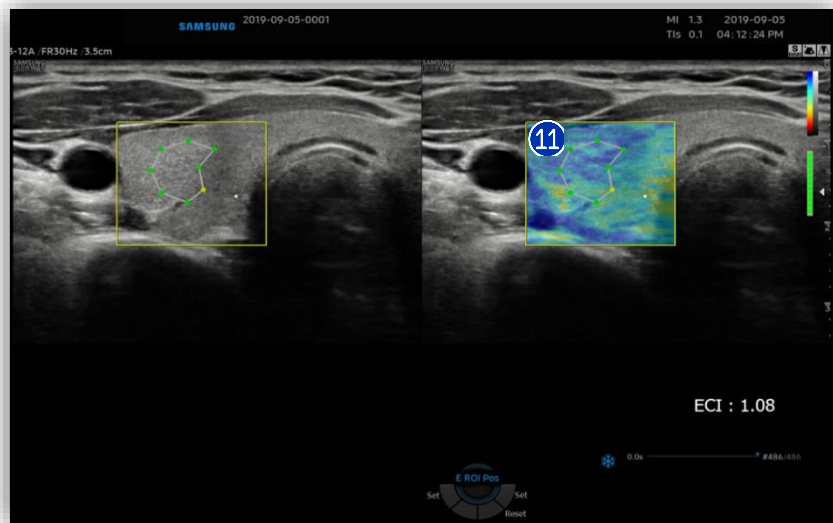
Press the [Reset] button on the touch screen to reset the measured E-Thyroid results.

## 4. Measure ECI (2)



10 ECI

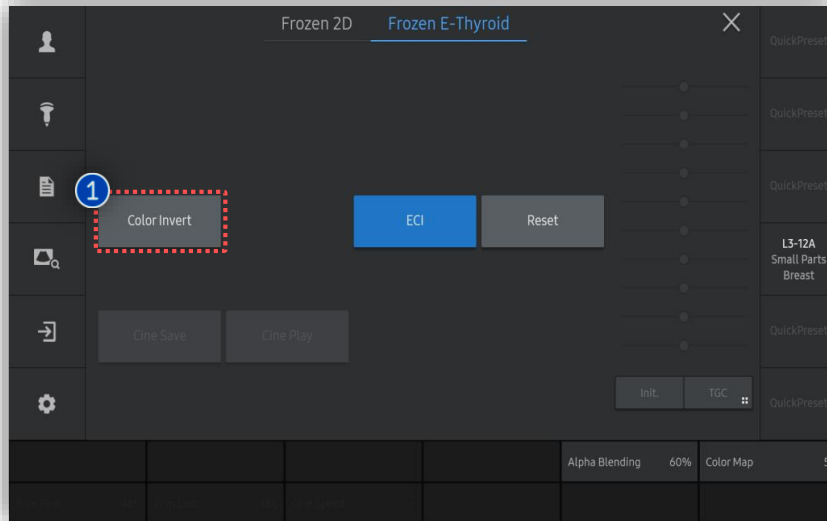
After pressing the [Set] button, ECI (Elasticity Contrast Index) will be calculated and the results will be displayed at the bottom of the display monitor.



11 Modify

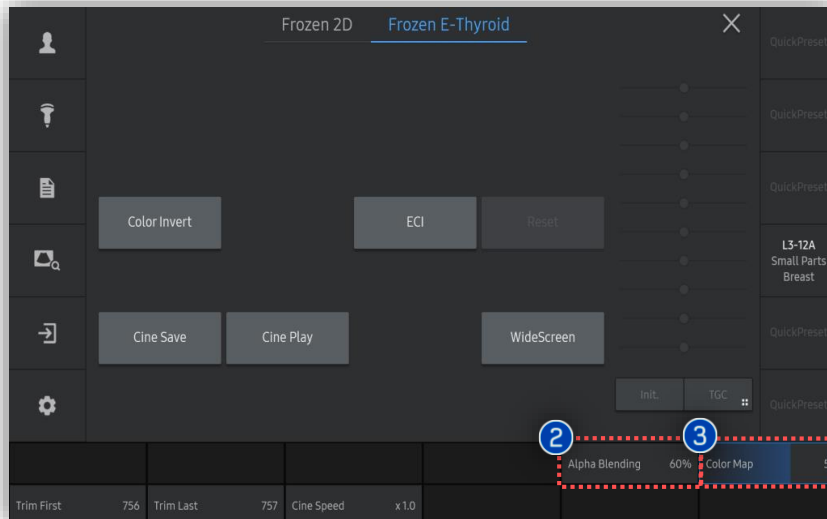
When the cursor hovers over each point of the ROI, the color of corresponding point will be changed to yellow and becomes editable. After pressing [Set] to modify the point, the ECI result will be recalculated.

## 5. Adjust Parameters



### 1 Color Invert

To reverse the color map, press [Color Invert] button on the touch screen.



### 2 Alpha Blending

Select the ratio of Blending. Press the [Alpha Blending] button on the touch screen or use the corresponding dial button to select a value from 0% to 100%. Setting the value to 0% will display only the Elastography image. Setting the value to 100% will display only the 2D image.

### 3 Color Map

The color bar represents the tissue stiffness. There are 7 different color maps that can be selected.

- 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 W10 V1.03.03d
- Disclaimer: Some Images in this content were obtained from other system.

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