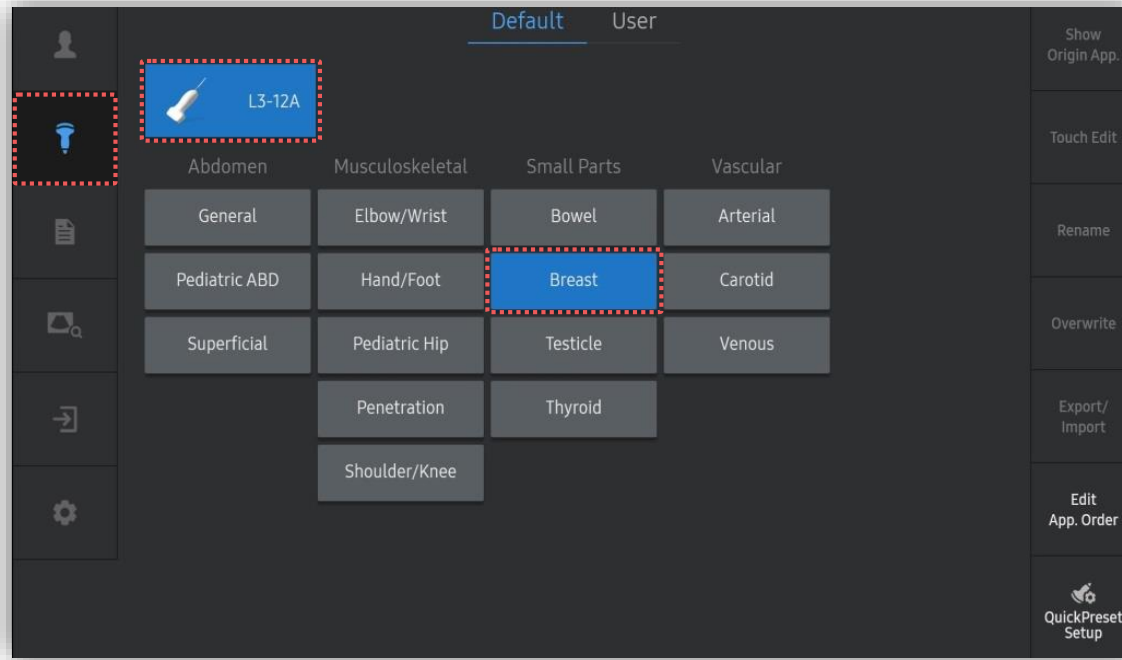


E-Breast™

HERA W10 Quick Guide



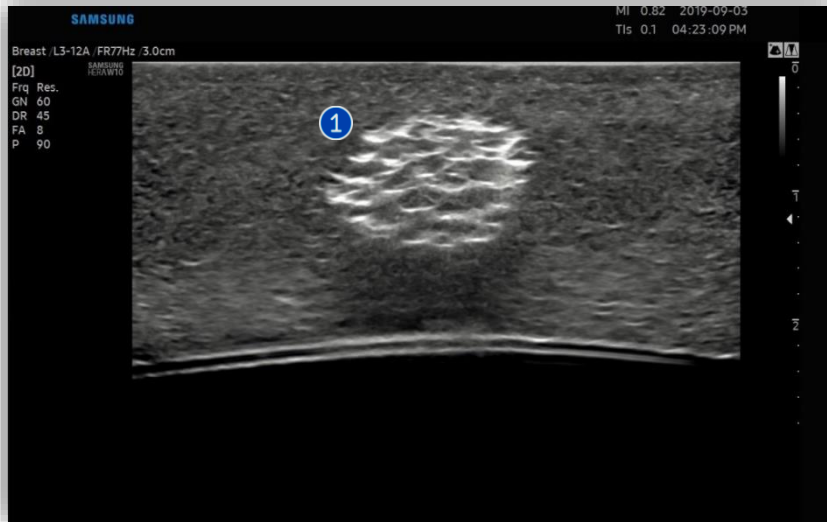
1. Probe and Preset



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

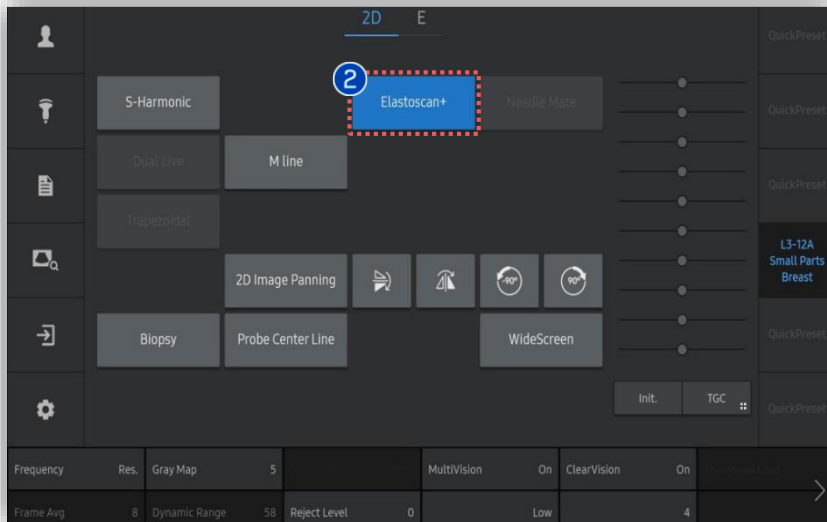
Probe	Application
L3-12A	Small Parts (Breast)
LA2-9A	
LA2-14A	
LA4-18B	

2. Start Elastoscans



1 Scan

Scan the suspicious lesions in the breast.



2 Elastoscans+

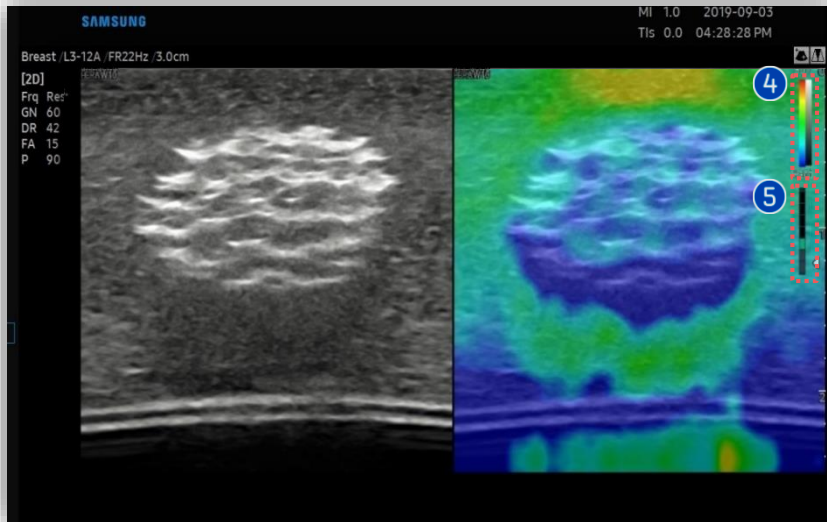
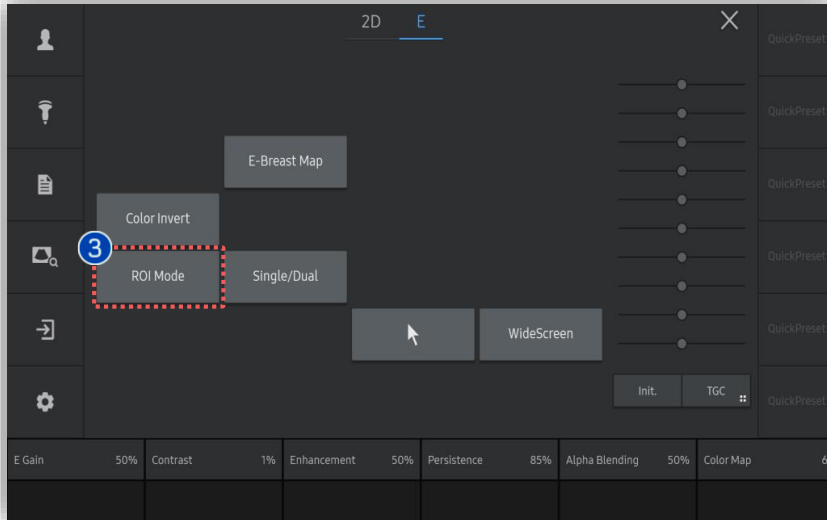
Tap [Elastoscans+] button on the touch screen to start E-Breast.

★ Tips

E-Breast™ is a tool to measure strain based on a 1 ROI method.

To access E-Breast™, [ROI Mode] should be turned off (before freezing the E-Breast image).

3. Indicators of ElastoScan+



3 ROI mode

Deselect [ROI Mode] before accessing [E-Breast].

4 Color bar

The Elastoscans color bar represents stiffness of tissues. The color map can be changed.

There are 7 color map options.

5 Compression guide bar

Apply gentle compressions with the probe while imaging the breast.

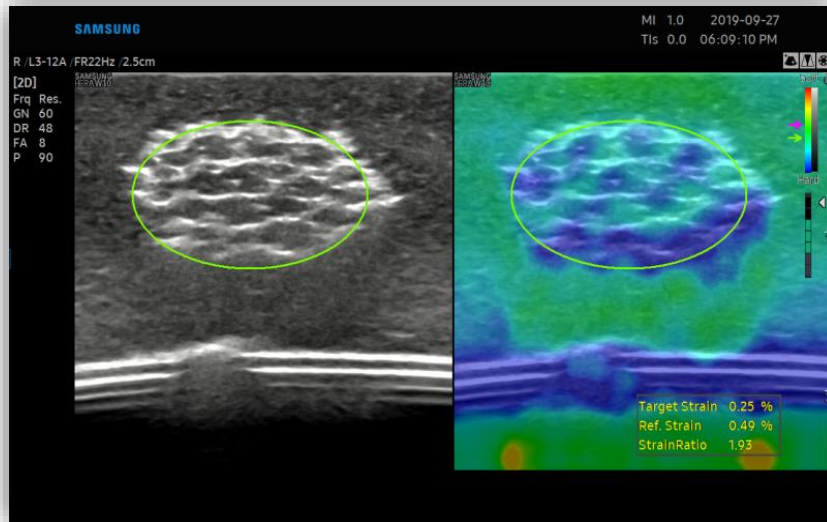
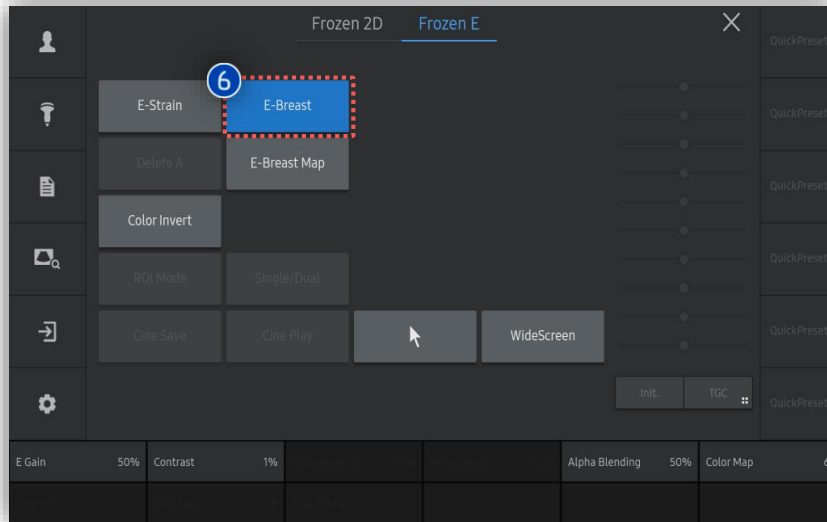
Capture the image when compression guide bar is between Step 3 and 7. (indicates appropriate pressure).

★ Tips

Compression guide bar:

- Step 0 : The probe is almost stationary.
- Step 1 – Step 2 : There is not enough pressure.
- Step 3 – Step 7 : There is appropriate pressure.

4. Set ROI for Strain Ratio Calculation



6 E-Breast

After the image is frozen, select [E-Breast] on the touch screen. The ROI circle will then be displayed on the Elastoscans image.

★ Tips

If ROI Mode is on, [E-Breast] button will not appear on the touch screen.

7 Place the ROI

Place the ROI on the suspicious area and press [Set] button on the control panel. If necessary, adjust the position and size of the ROI with the trackball.

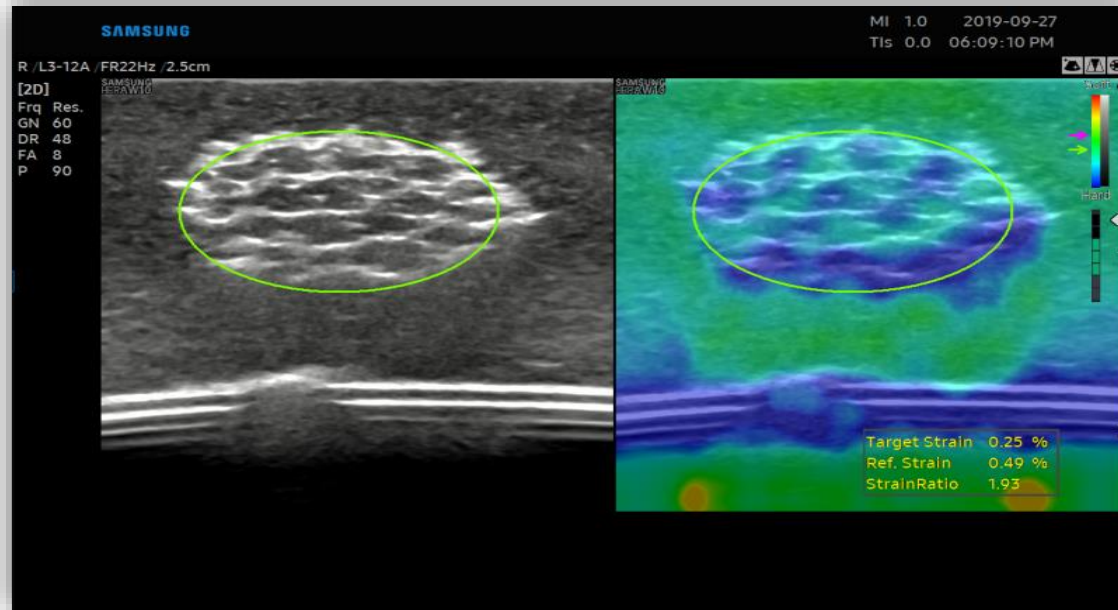
8 Results

After pressing [Set] button, the Target strain, Reference strain and Strain ratio are automatically calculated and displayed on the image. The results displayed may vary according to the regulatory approval status of each country.

★ Tips

When placing the ROI on the 2D image, adjust it tightly to the lesion.

5. Result of E-Breast™



1 Results

- Target strain is calculated based on the ROI circle (not supported in the USA and Canada).
- The average strain value is calculated based on the area outside the ROI. (not supported in the USA and Canada)
- Strain ratio = $\frac{\text{Reference Strain}}{\text{Target Strain}}$

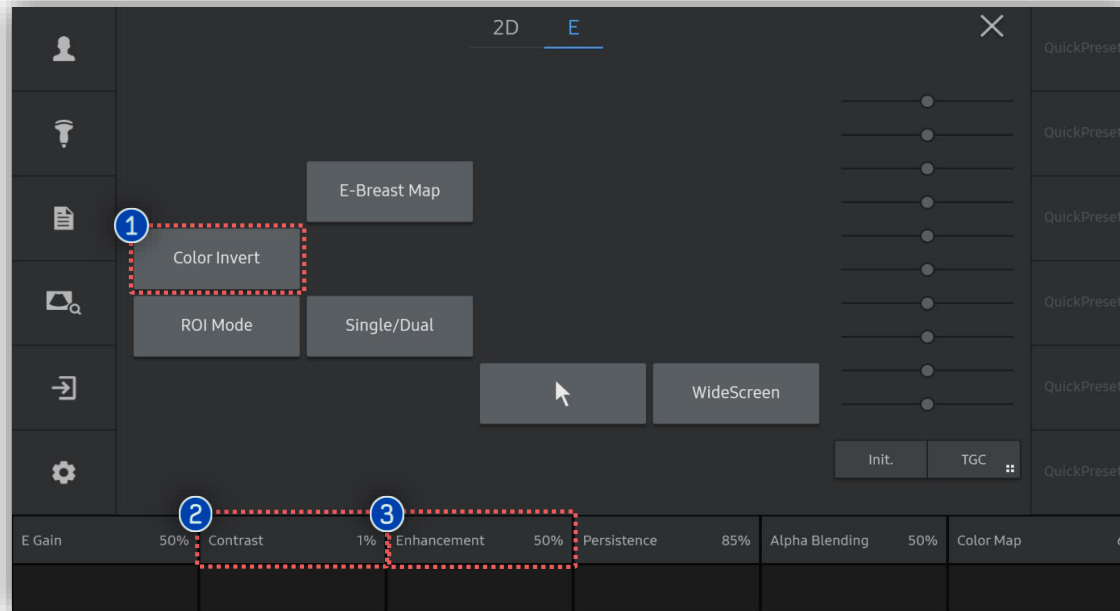
2 The Pink arrow

The pink arrow indicates the average strain of the normal tissue (reference strain).

3 The Green arrow

The green arrow indicates the average strain within the ROI circle (target strain).

6. Adjust Parameters (1)



① Color Invert

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

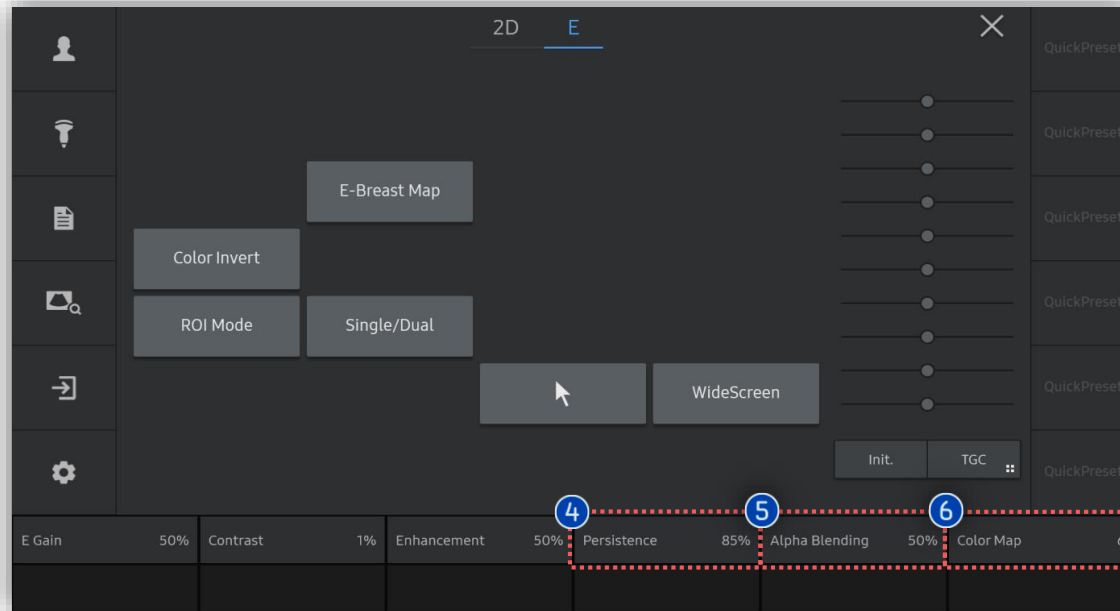
② Contrast

This feature adjusts the contrast based on the image mode. It has values between 1% and 100%.

③ Enhancement

Adjust the enhancement of the image between 0 and 100%. A higher value provides more clearly defined boundaries.

6. Adjust Parameters (2)



4 Persistence

The feature controls the E-Strain frame average. The higher this value is, the higher the frame averaging will be. Increasing the persistence level will reduce the frame rate. For a higher frame rate, decrease the persistence level.

5 Alpha Blending

This feature superimposes the E-mode image over the 2D image. It has values between 0% and 100%. Setting it to 0% shows an E image only, and setting it to 100% shows a 2D image only.

6 Color Map

Select the color map of the Elastocan. Press the button on the touch screen or use the dial-button to select from up to seven types.

- 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.

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.