

# Live BreastAssist™

Detects suspicious lesions in real-time during a breast US screening

Tips & Tricks

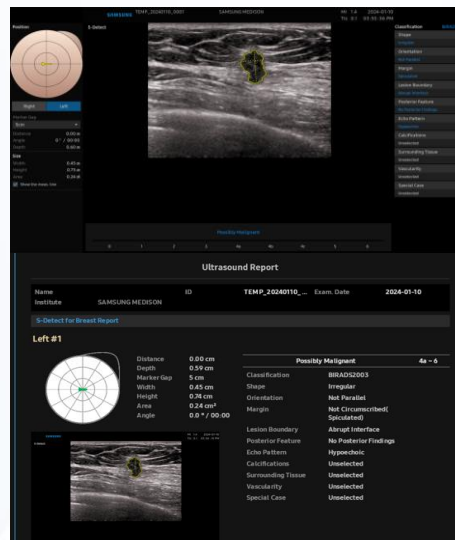
## Clinical Values

### I Clinical Benefits & Cases

- **Live BreastAssist™** is supporting Breast US screening examination. It supports to reduce a possibility of a human error by detecting a suspicious lesion in real time objectively like a Third Eye.
- Furthermore, you can have an automated BI-RADS Ultrasound Lexicon Classification result by accessing the **S-Detect™** directly, the lesion's ultrasound characteristic will be semi-automatically analyzed. Unnecessary chance of biopsy could be decreased by detecting lesions with **Live BreastAssist™** along with **S-Detect™ for Breast**.
- By using **Live BreastAssist™** and **S-Detect™** together, it becomes more powerful to have a rapid and smart workflow process : Automated and real time lesion detection while scanning, specific lesion could be analyzed and classified based on the BI-RADS, finally able to assign to a report.



Live BreastAssist™



S-Detect™ for Breast

## Checklist

### Configuration

- **System** : RS85 Prestige V2.08.01 -
- **Options** : Live BreastAssist™, S-Detect™ for Breast (Optional)
- **Transducer** : All linear probes (Except LA3-16AI)
- **Application/Preset** : Small Part > Breast, Breast1, Breast 2 (*is Not available depends on the Probe*)
- **Operation mode** : 2D mode only
- **Image mode** : Accessible from Single/Dual Mode. Dual Live is supported in LBA Mode.

## Tips & Tricks

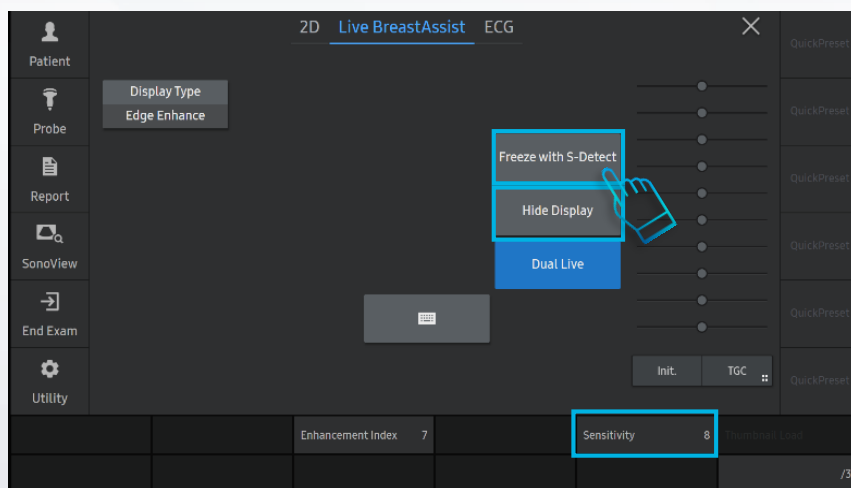
### 01. Preparation & Precautions

- If **Live BreastAssist™** is placed on the second page, move it to 1st main page.
- Adjustable B-Mode parameters in Live BreastAssist™ Mode : Gain & TGC
- For more 2D parameters, please move your tab to 2D on Touchscreen.
- Detection rate can be affected by Gain, TGC control. It would be decreased if image Gain is too low.
- **In challenging Case**  
When it detects both normal tissue like a fat and lesion together, slightly changing the probe angle would be helpful to exclude the ROI on the normal tissue while maintain the lesion ROI.

## 02. Prior to access the Live BreastAssist™

- **When you go with ShadowHDR™**
  - Frame rate can drop in ShadowHDR™, so using a single focus and reduce 1-2 steps of frame average to prioritize optimizing 2D image would be recommended.
- **No pause, no lagging time for activation**
  - Able to keep scanning even there are few seconds of loading time to begin the Live BreastAssist™.
- **A Few of Dynamic Range change** would not give an affect to the Live BreastAssist™ detection ability.

## 03. On the Live BreastAssist™



- **Freeze with S-Detect "On"**: S-Detect™ for Breast will be automatically activated on Freeze.
  - This status can be saved on a [User preset](#).
- **Sensitivity(Index 1-10)**: Default is 5.
  - The closer to 10, the higher the sensitivity and detection rate.
  - Index 3 to 4 is recommended for general examination.
  - Index 4 to 5 is recommended for medical check-up.
  - Low sensitivity is recommended for lactating or dense breast patients to minimize the multiple ROI interference.
  - Sensitivity index can be saved on [User preset](#).
- **Hide ROI** : To hiding a target ROI and then focus on the B-Mode image.
- **Live BreastAssist™ ON** status can be saved on [User preset](#), to run it automatically with a specific preset.

## 04. Display Type in the Live BreastAssist™ (v2.08.01)

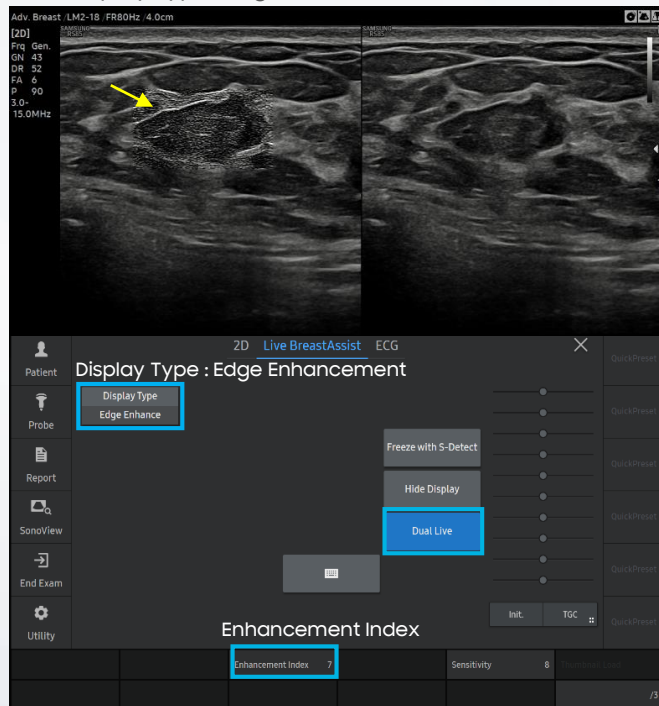
- Display Type was newly added (v2.08.01)

- ✓ **Edge Enhance use case**

→ It is recommended who doesn't want to let notice to patients.

→ Able to adjust a transparency with [Enhancement Index, 1-10] in the soft menu.

ROI Display Type : Edge Enhance

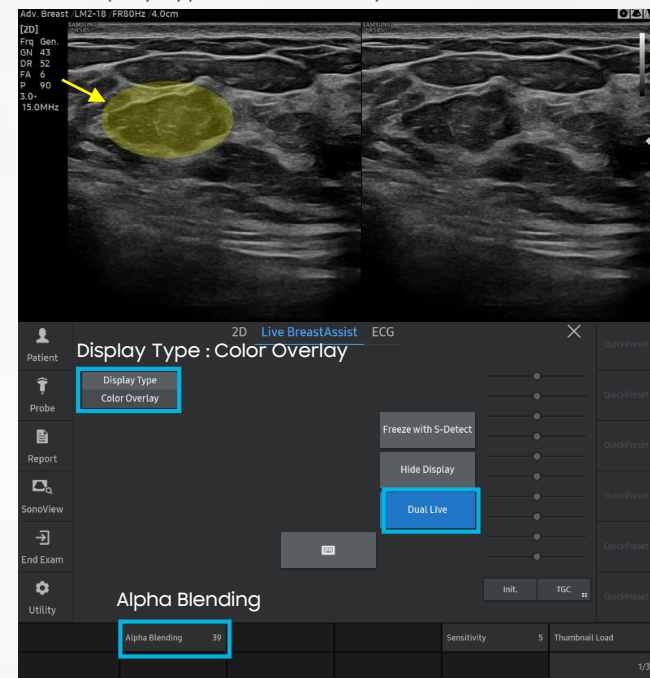


- ✓ **Color Overlay use case**

→ ROI could be more obviously seen in Live BreastAssist™ Mode.

→ Increase the [Alpha Blending] level to show more obviously in the soft menu with toggle key. Reduce the [Alpha Blending, 1-100] makes color more transparent.

ROI Display Type : Color Overlay

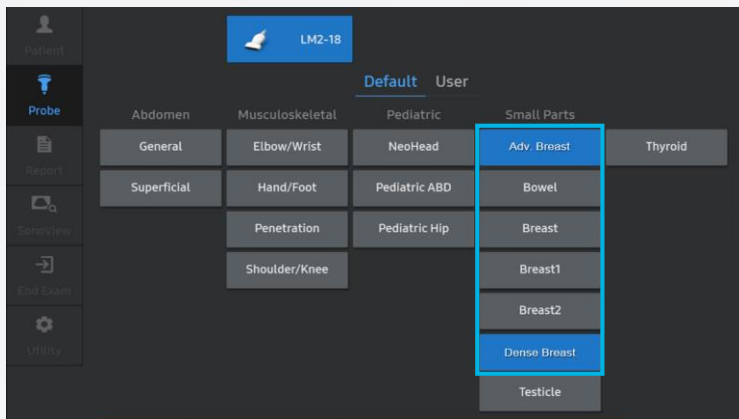


- **Dual Live (Live B/C Mode) (v2.08.01)**

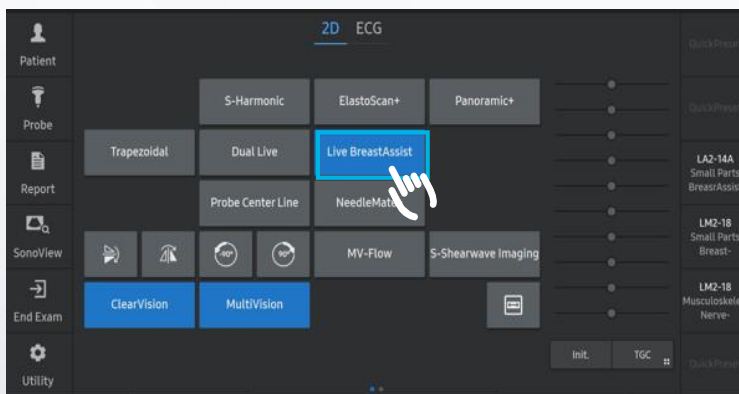
→ Streamlined workflow is provided, detecting the suspicious lesion as well as observing the vascular structure characteristics of it simultaneously.

## 05. Simple Workflow

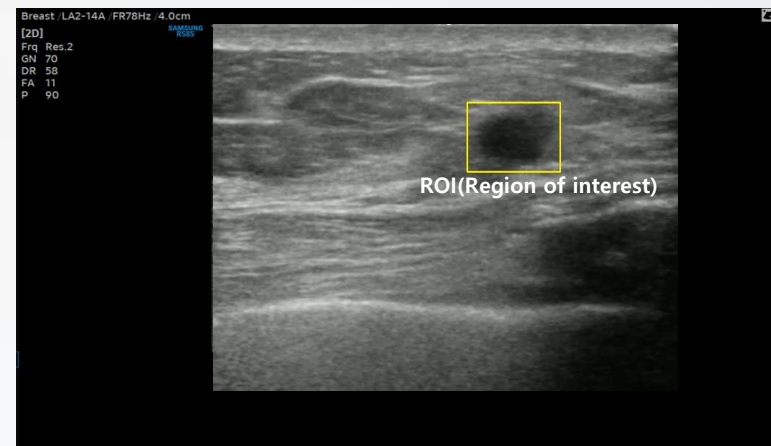
1. Select a proper transducer, application and preset.  
(V2.08.01\_Added Adv. Breast, Dense Preset with LM2-18)



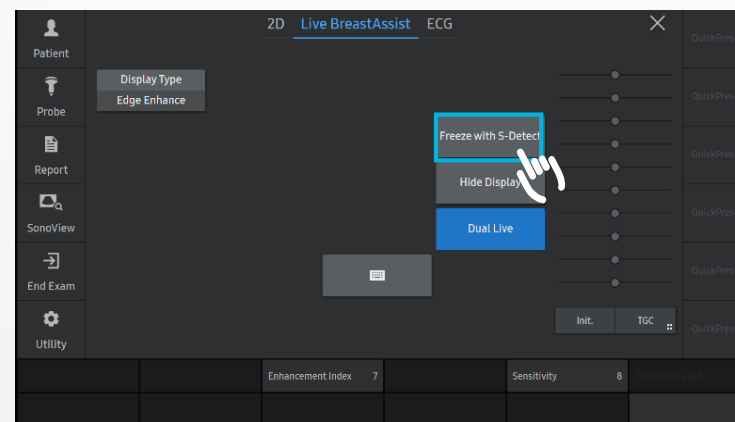
2. Select the Live BreastAssist™ button on the touch screen.  
(Taking about 4s to start)



3. When a suspicious lesion is found during scanning, the ROI will be shown on it.



4. Press Freeze button to obtain the desired image.
5. Tap the [Freeze with S-Detect] button to apply the S-Detect on the lesion.



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