

# **HD Scope Demo Guide**

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## **Technology Principle**

For the optimization of ultrasound image, HD Scope is designed to assign more system resources in the region of interest for better imaging and processing. Thanks to Mindray's new platform-ZST<sup>+</sup>, HD Scope can recursively analyze and process the channel data in the region of interest by taking advantage of its powerful computing capability. HD Scope is able to obtain the characteristics of the input signals by intelligently analyzing the raw image information from the channel data. By applying different filtering and processing algorithms to different input signals based on their characteristics, the optimization of both contrast and resolution for each type of tissue inside the region of interest can be achieved. By synthesizing all the optimization results, the final HD Scope image is generated.

### **[Benefits]**

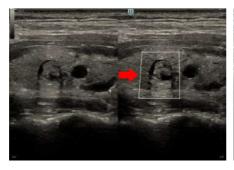
- 1. Improves contrast resolution and detailed resolution;
- 2. Lesion boundary is better defined from surrounding tissues;
- 3. Supports all transducers on Resona 7;
- 4. The frame rate is not compromised during optimization.

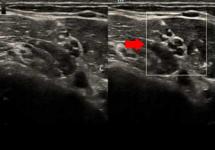
## **Coperation Tips**

Patient demonstration

- ROI area is better to include tissues or structures with high contrast ratio, for example, NT,
  Fetal heart, cyst et
- · Dual image display, one image uses default, and the other image uses HD Scope
- · Compare the difference between two images.

After using HD Scope, (indicated by red arrow) contrast resolution in ROI is enhanced, and the border is better delineated.





#### [Remarks]

- 1. ROI box can be adjusted as large as half of the imaging area (both horizontal and vertical), but not the whole image area.
- 2. HD Scope will automatically quit if you activate CFM or Zoom.