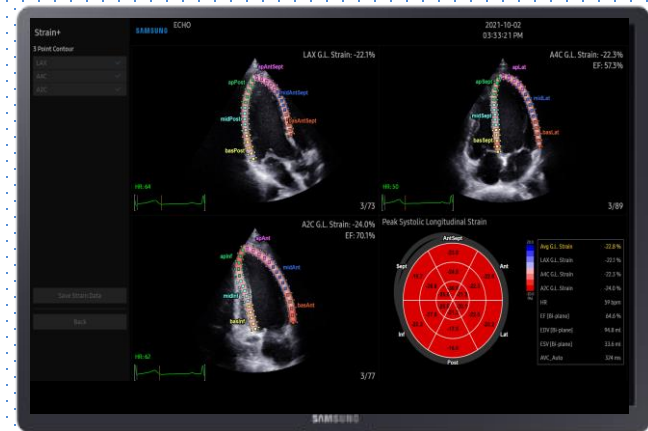


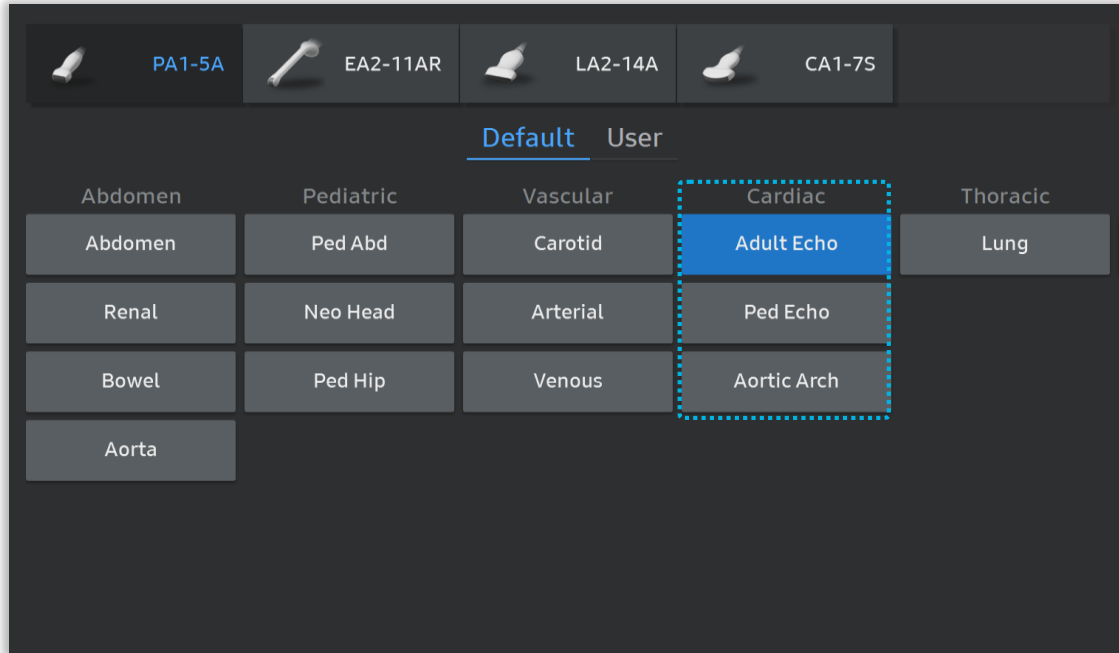
# Strain+

## V series Quick Guide



Strain+

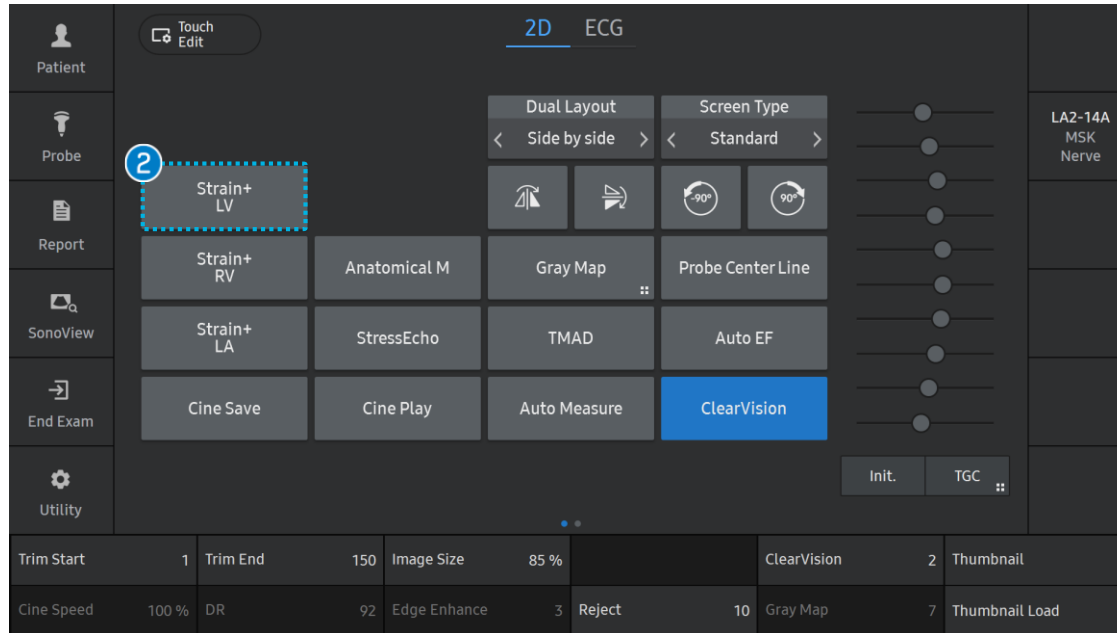
# 1. Probe and Preset



※ Available application and preset

Application	Cardiac
Preset	Adult Echo, Ped Echo, Aortic Arch
Mode	2D
ECG Heart rate	30~240

## 2. Start Strain



### ① Image scan & Save

Save the cine clip for Strain.

\* The requirements for Longitudinal and Radial Strain analysis are LAX, A4C, and A2C views.

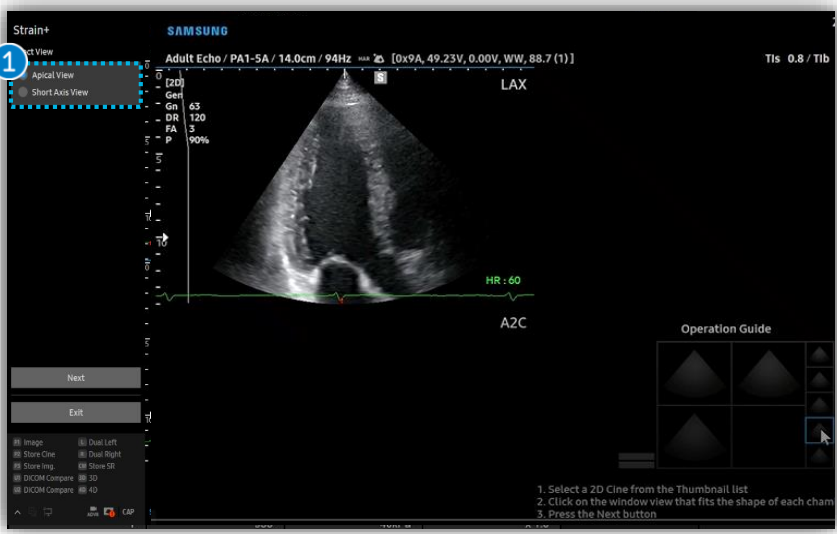
### ② Strain+

Select [Strain+] button on the touch screen to start. It is recommended to start on LAX view.

\* LAX = Apical Long Axis/A3C

Strain+

# 3. Select Strain images



1 Select view

Select 'Apical View' located on the upper left of the monitor or [Apical View] on the touch screen for longitudinal & radial strain.

2 Input A4C image

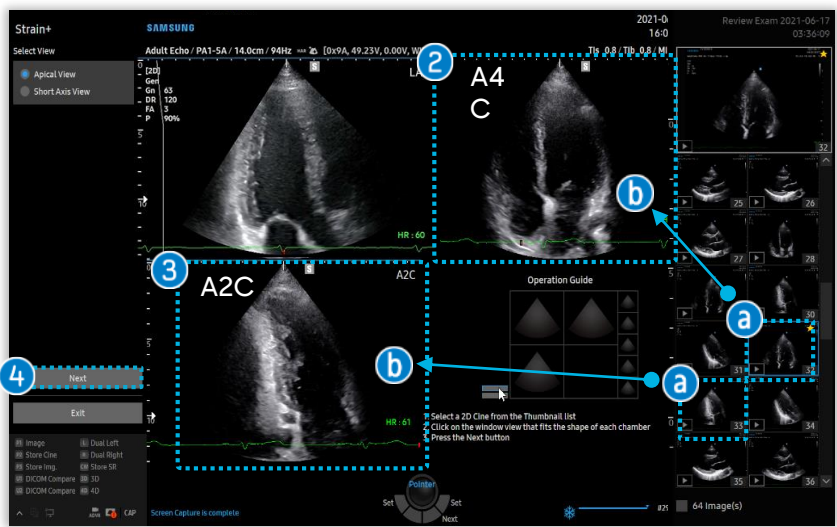
a Select A4C image from the Thumbnail.  
b Click the A4C window with the [Set] button.

3 Input A2C image

a Select A2C image from the Thumbnail.  
b Click the A2C window with the [Set] button.

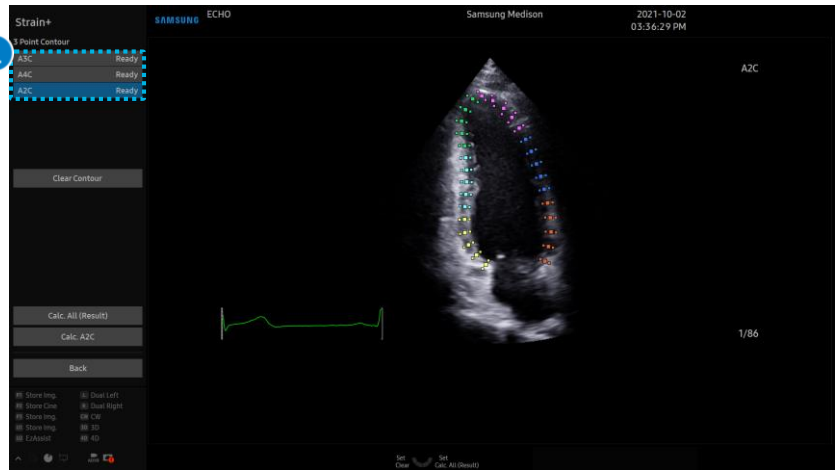
4 Next

Press the [Next] button for the next step.  
\* Then system automatically draws the LV border line.

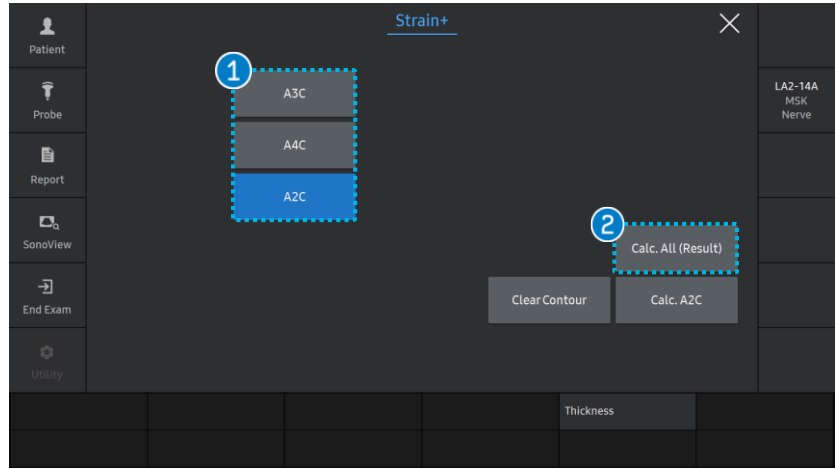


Strain+

# 4. Calculate Strain images

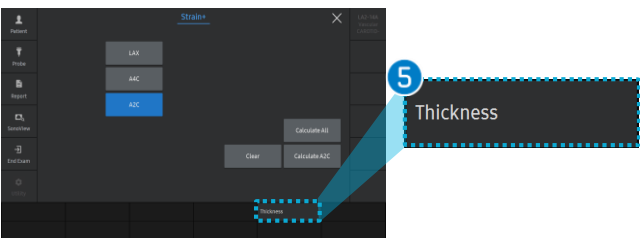
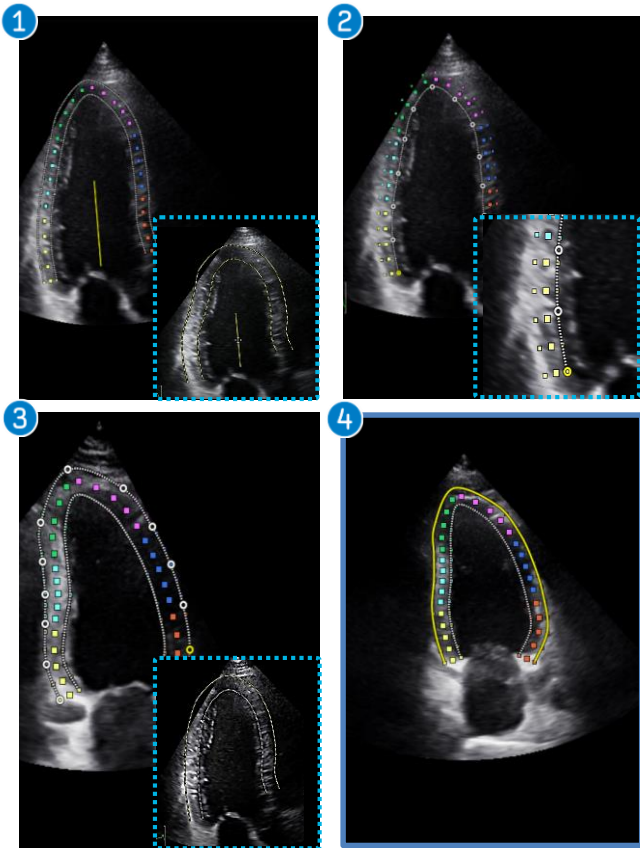


- |                          |   |
|--------------------------|---|
| <p>1 Border tracking</p> | <p>Confirm that the LV border is correctly placed and tracked on each LAX, A4C, and A2C views.</p>  |
| <p>2 Calculate All</p>   | <p>Calculates the Strain analysis on all views (LAX, A4C, and A2C).<br/>※ The message "Calculating.." will appear on the bottom of the monitor.</p> |



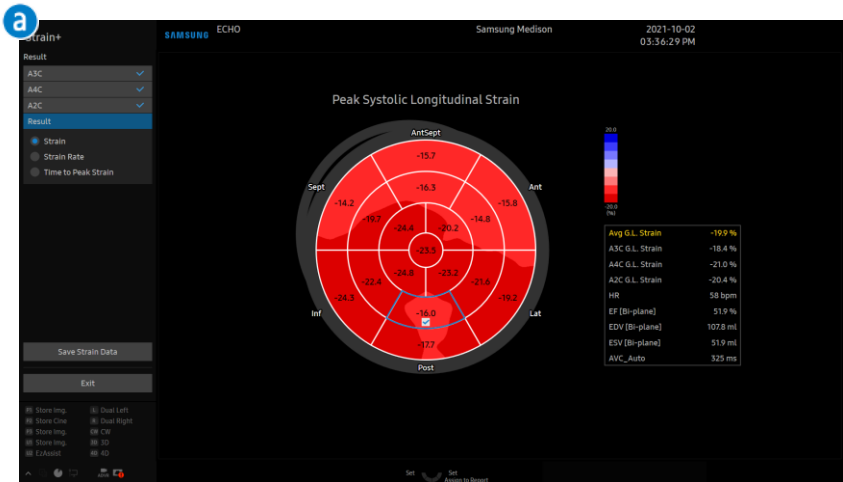
# 5. LV border Contour

※ If border editing is needed, please following as the below.



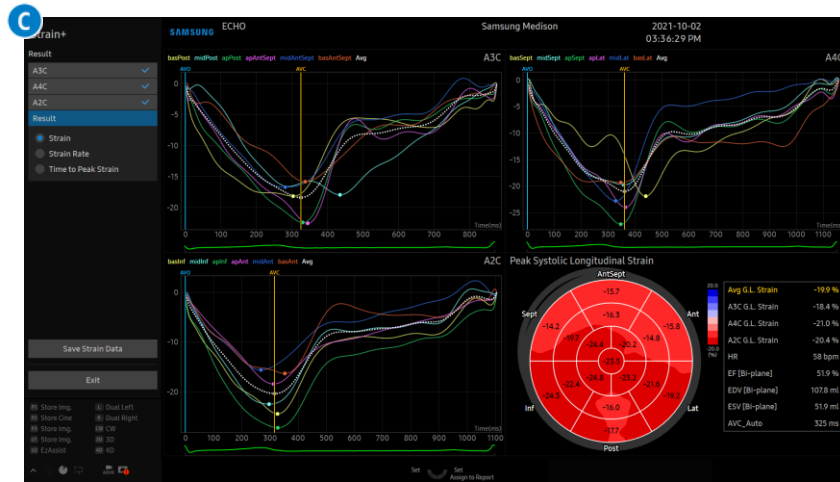
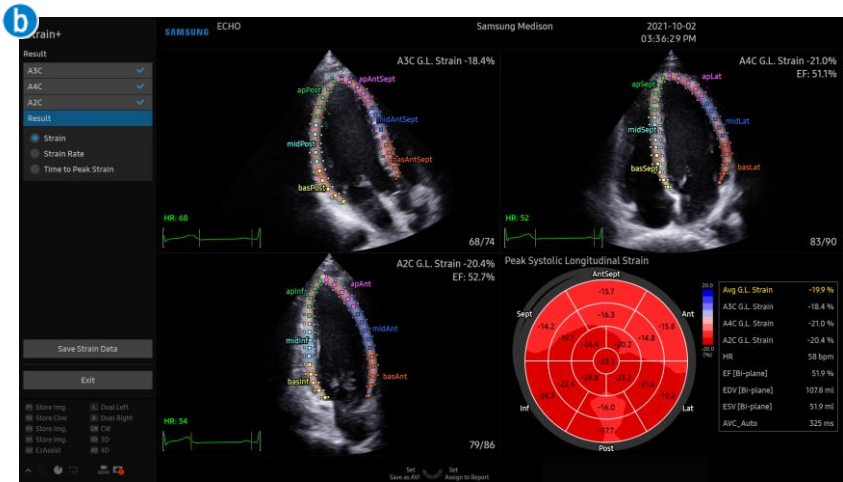
<p>1 Total contour</p>	<p>When you place the Pointer in the middle of LV, the yellow bar will appear → Press the [Set] button to edit the contour line by using the trackball. → Press the [Set] button again to confirm.</p>
<p>2 Endocardial point edit</p>	<p>When you place the Pointer close to the endocardial point, the endocardial border line will be changed to yellow point. → Press the [Set] button to edit the points of the line that needs to be modified. → Press the [Set] button again to confirm.</p>
<p>3 Epicardial line edit</p>	<p>When you place the Pointer close to the epicardial border, the epicardial border line will be changed to yellow point. → Press the [Set] button to edit the points of the line that needs to be modified → Press the [Set] button again to confirm.</p>
<p>4 Adjust the thickness at once</p>	<p>If the indicator's positioned little closer to epicardial border line, the epicardial border line will turn to yellow. Then you can easily adjust the thickness.</p>
<p>5 Thickness</p>	<p>Another way to adjust the thickness is rotating the toggle key.</p>

# 6. Result Display



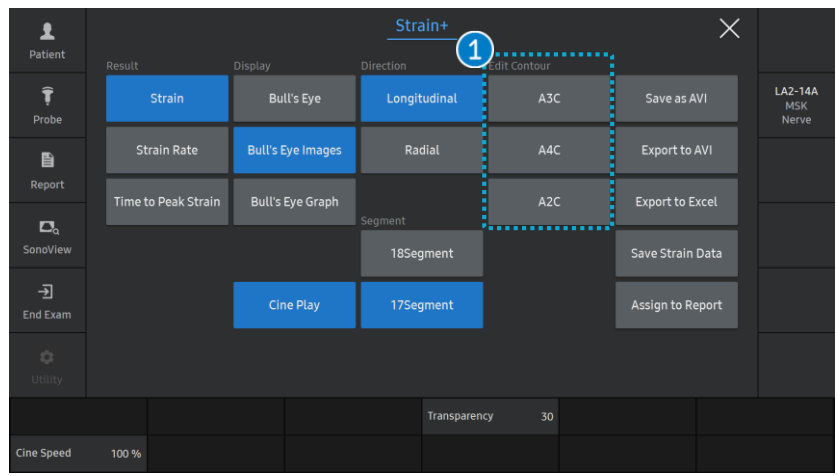
**1** Result

- a** Bull's Eye,
- b** Bull's Eye images,
- c** Bull's Eye Graph.

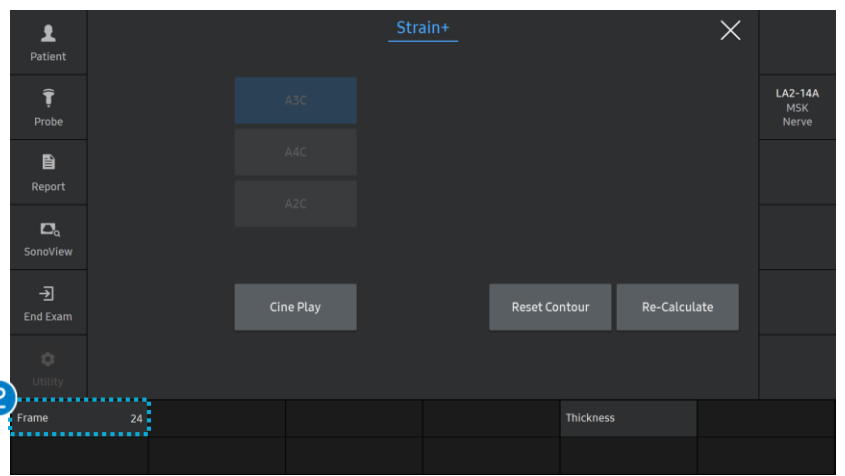
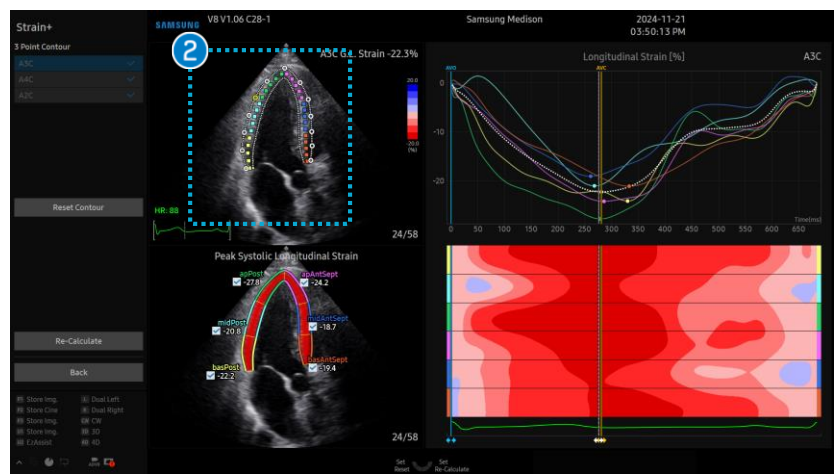


Strain+

# 7. Edit LV borderline

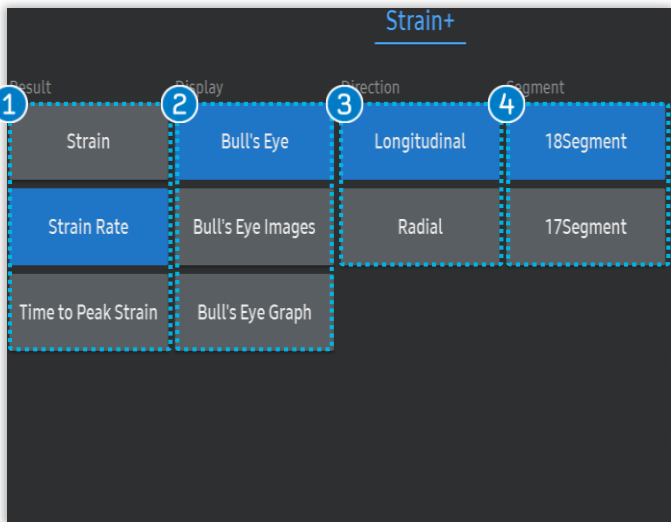


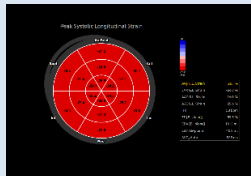
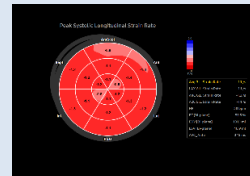
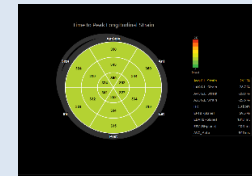
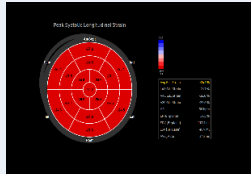
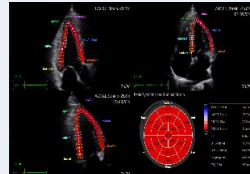
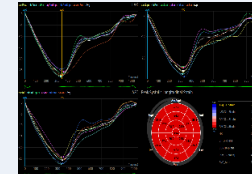
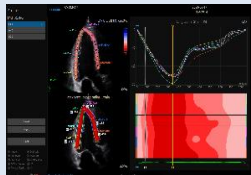
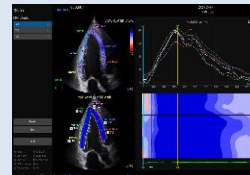
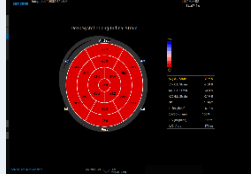
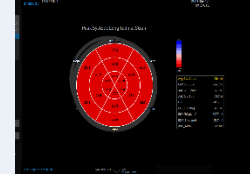
- 1 Edit Contour** Available edit each view's LV contour in 'Strain+Analysis' page.
- 2 Frame** Available edit LV contour frame by frame.



Strain+

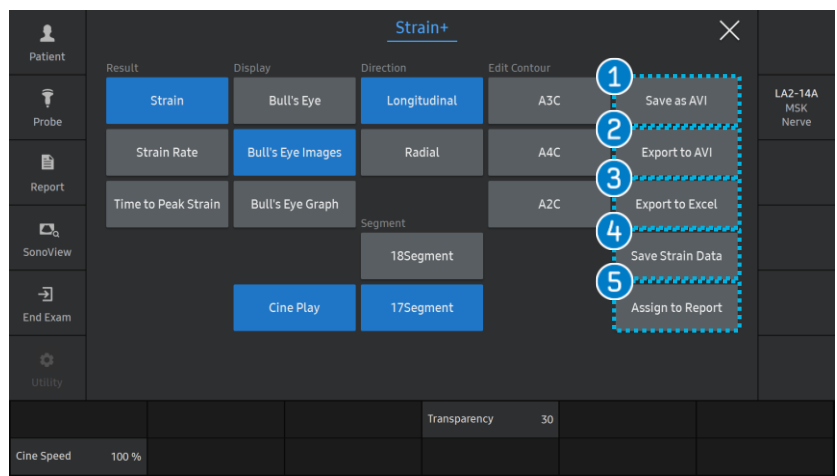
# 8. Total strain result Display

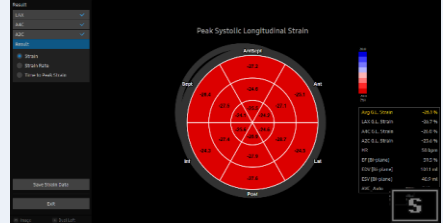


<p>1 Result type</p>	 <p>Strain</p>	 <p>Strain Rate</p>	 <p>Time to Peak Strain</p>
<p>2 Display type</p>	 <p>Bull's Eye</p>	 <p>Bull's Eye Images</p>	 <p>Bull's Eye Graph</p>
<p>3 Strain type</p>	 <p>Longitudinal</p>	 <p>Radial</p>	
<p>4 Segment</p>	 <p>17 Segments</p>	 <p>18 Segments</p>	

Strain+

# 9. Total strain result



<p>1 Save as AVI</p>	<p>Saves the result with a captured screen as an AVI file.</p>
<p>2 Export to AVI</p>	<p>Exports the result and the representative image as an AVI file.  <i>※ This is only available if a USB is connected.</i></p>
<p>3 Export to Excel</p>	<p>Save the result and the representative image as an Excel file.  <i>※ This is only available if a USB is connected.</i></p>
<p>4 Save Strain Data</p>	<p>Saves the strain data. When you retrieve a saved image, the strain result will be displayed as well.        (Will be marked as <b>S</b> on the bottom of page)</p> 
<p>5 Assign to Report</p>	<p>Strain+ result is assigned to report.</p>

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- This Use Quick Guide is based on V8 V1.06
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