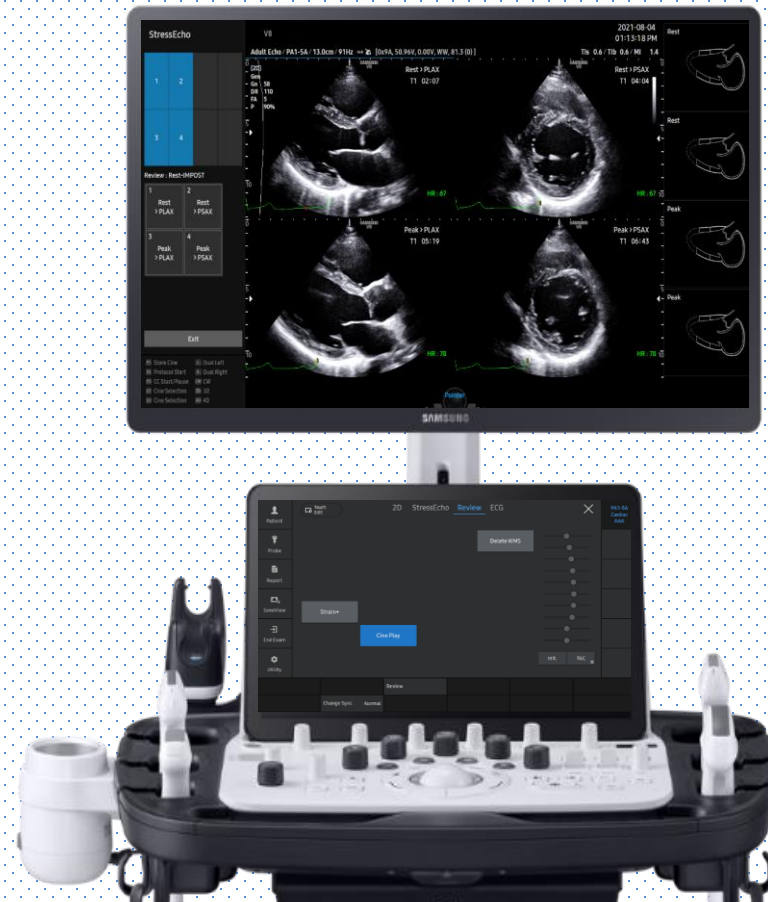


# StressEcho

## V series Quick Guide



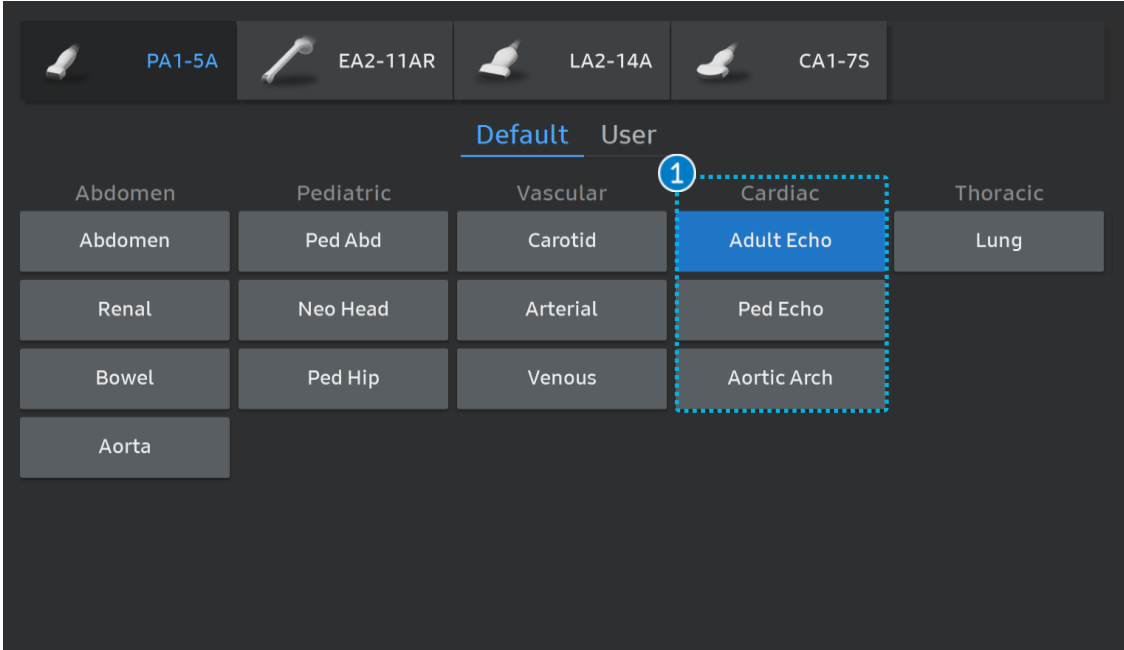
# 1. Default StressEcho protocol

Protocol	View	Stage
Two Stage Exercise Stress	PLAX, PSAX, A4C, A2C	Rest, Peak
Three Stage Bicycle Stress	PLAX, PSAX, A4C, A2C	Rest, Peak, Post
Four Stage Pharmacological Stress	PLAX, PSAX, A4C, A2C	Stage 1 - 4
Diastolic Stress	MV-PW, TDI, LVOT-PW, TR, PSAX-BASE, PSAX-Mid, PSAX-APEX, 4CH, 2CH, MR	Baseline, Legs UP, 25W, 50W, 75W, 100W, 125W, REC2, REC5, REC10
Dobutamine Stress	PLAX, PSAX, 4CH, APLAX, 2CH, MV-PW, TDI, LVOT-PW, TR-CW	Baseline, 5, 10, 20, 30, 40, Atropine, Recovery

## ★Tips

The default protocols cannot be deleted or transferred to external storage media. In addition, once the default protocol is revised, it cannot be save with the same name.

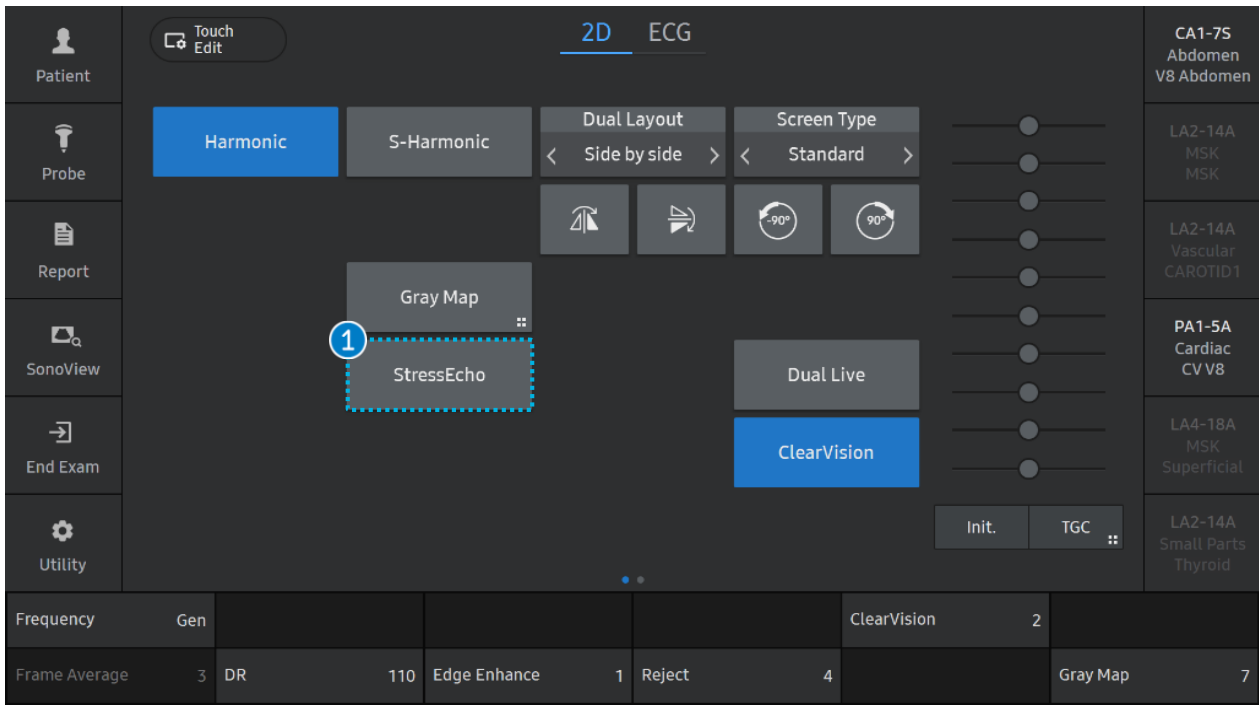
# 2. Probe and Preset



※ Available application and preset

Application	Cardiac
Probe	PA1-5A
Mode	2D/Color/PW/CW

# 3. StressEcho protocol Set up (1)

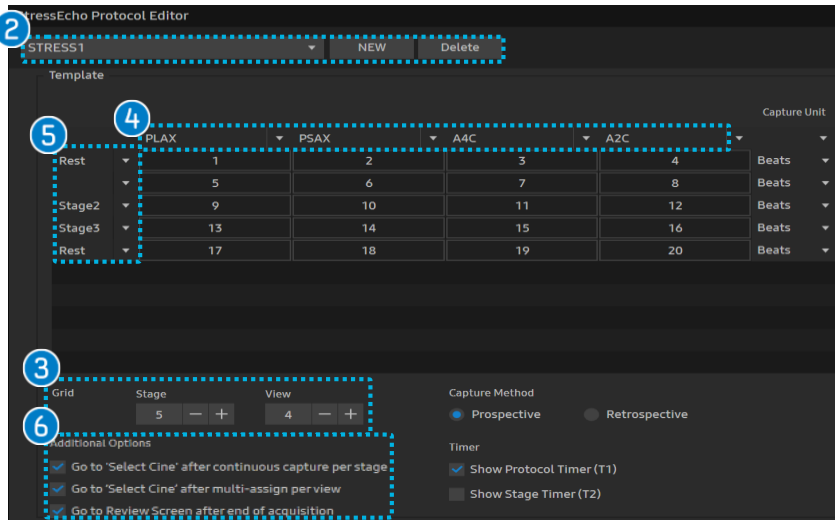
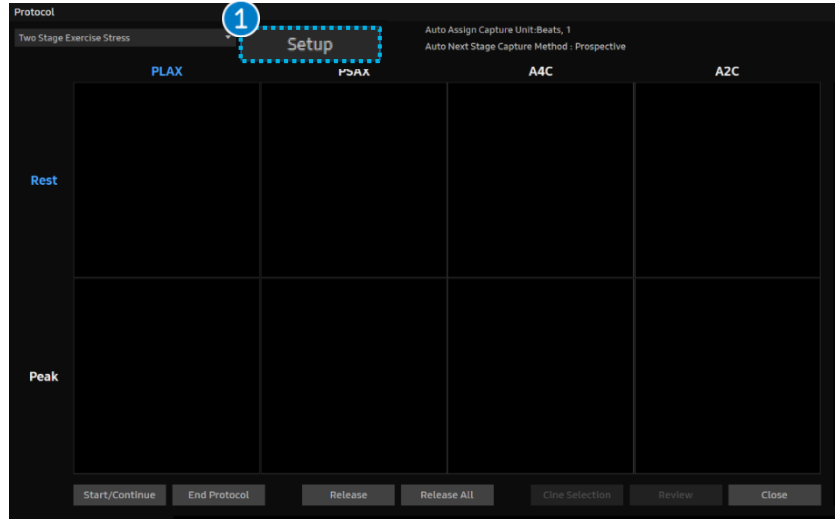


1 StressEcho After entering patient information, press [StressEcho] button on the touch screen to enter protocol screen.

★Tips In order to set up of protocol, patient information is mandatory.

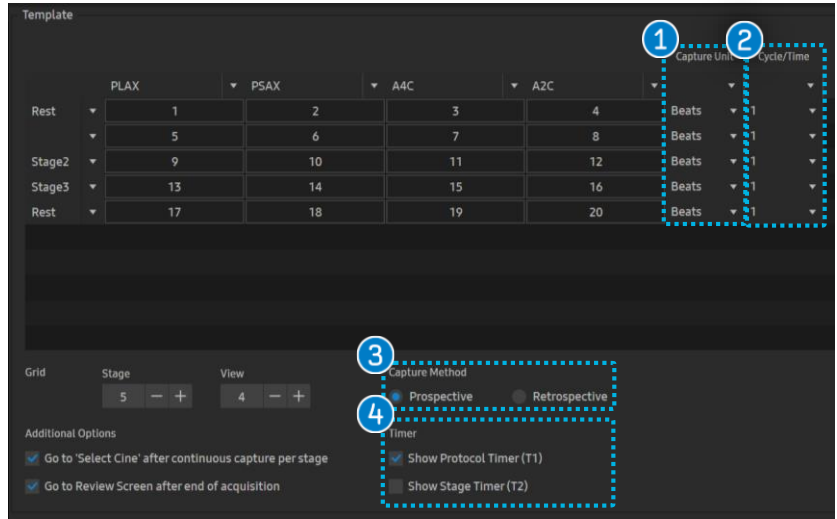
# StressEcho

## 3. StressEcho protocol Set up (2)



- 1 Setup  
Click the [Setup] button at the monitor screen.
- 2 Protocol Select  
Click the combo button to select the protocol to modify or press the New button. You can set up a new protocol by selecting [New].
- 3 Grid  
Set the number of views and stages with +, - button.
- 4 View  
Select or input the name of each view.
- 5 Stage  
Select or input the name of each stage.
- 6 Additional options
  - Go to 'Select Cine' after [Continuous Capture/Multi-assign] per stage or per view: After acquiring images using [Continuous Capture/Multi-assign] in each stage or view, the Cine Selection screen appears.
  - Go to Review Screen after end of protocol: After all images are assigned, the Review screen appears.

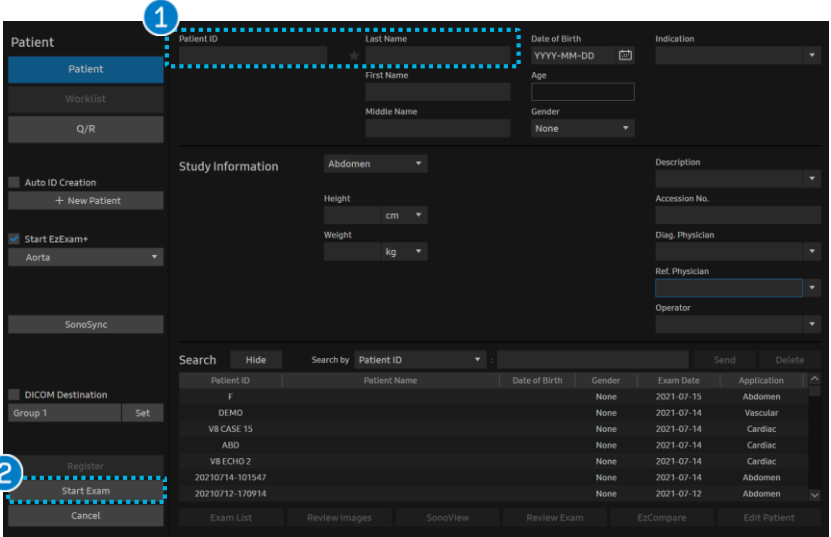
# 3. StressEcho protocol Set up (3)



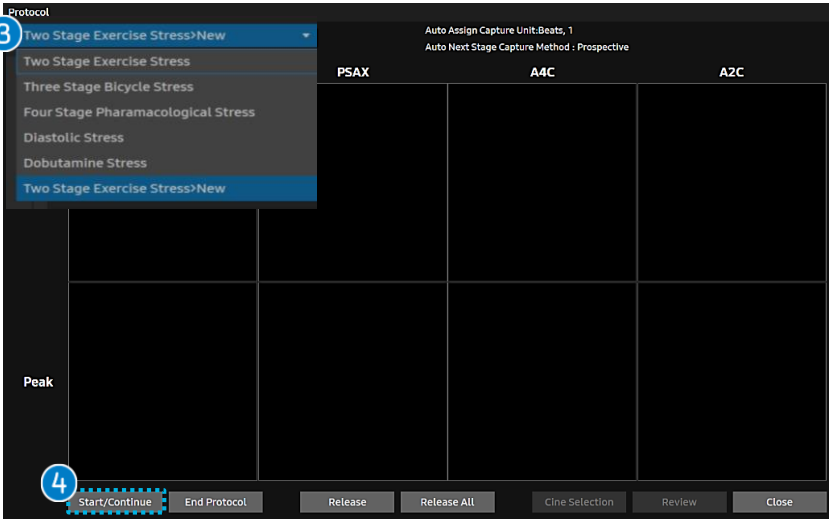
<p>1 Capture Unit</p>	<p>Select Beats / Time.</p>
<p>2 Cycle/ Time</p>	<p>Select the image acquisition interval. (Beats: 1 - 4, Time: 2 - 4)</p>
<p>3 Capture Method</p>	<p>Select the video acquisition.</p> <ul style="list-style-type: none"> <li>• <u>Prospective</u>: The image after that is saved based on the time when the save button is pressed.</li> <li>• <u>Retrospective</u>: The previous image is saved based on the time when the save button is pressed.</li> </ul>
<p>4 Timer</p>	<p>On screen timer display settings.</p> <ul style="list-style-type: none"> <li>• <u>Show Protocol Timer(T1)</u>: Displays the protocol record time.</li> <li>• <u>Show Stage Timer(T2)</u>: Displays the current stage's time record.</li> </ul>



# 4. Start StressEcho protocol

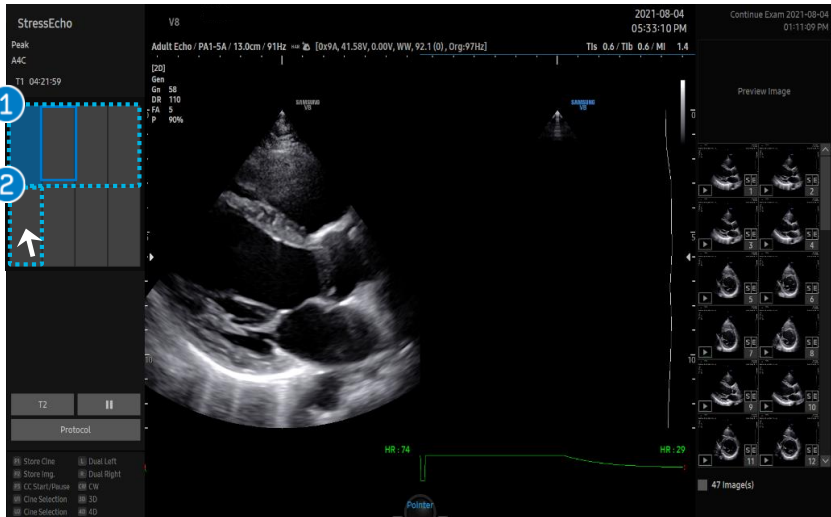


1 Patient	Input patient Information.
2 Start Exam and StressEcho	Tap the [Start Exam] button and <b>StressEcho</b> on the touch screen.
3 Protocol	When you press the combo button, a list of the protocol appears. Select preferred protocol to begin.
4 Start/Continue	Press [Start/Continue] button to start the protocol. The screen will switch to diagnosis mode.



StressEcho

# 5. Acquire images (1)



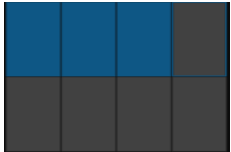
- 1 Acquire**

Press the [Store Clip] button on the control panel to acquire images for each view and stage. A matrix box that indicates a StressEcho image acquisition is displayed on the left side on the screen.
- 2 Next stage**

To change a stage and acquire images, press the key of indicator on the control panel and click the next stage at the matrix.  
*\* In case [Auto Next Stage] is selected in the template, it will be advanced to the next stage automatically in the Matrix.*

★Tips

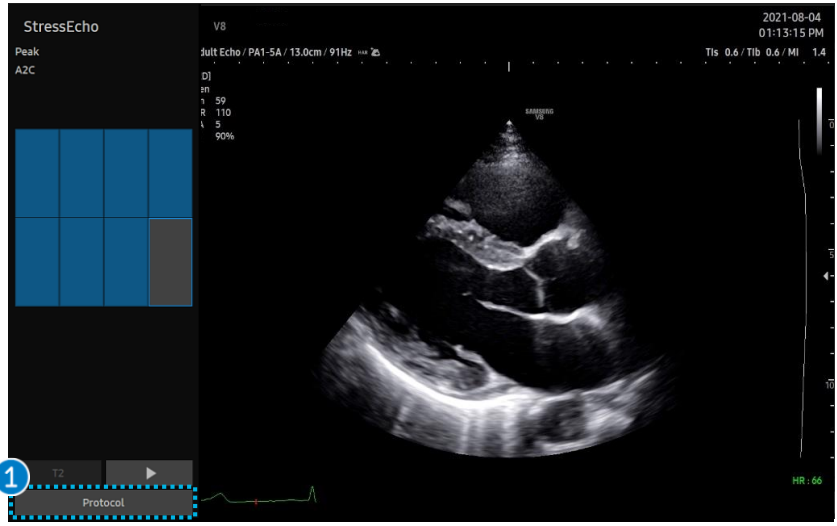
- Matrix indicates steps of StressEcho image acquisition.
- It displays StressEcho images by aligning them with view on the horizontal axis and stage on the vertical axis.
- The grid turns to blue, when the image acquisition is completed.



[Matrix]

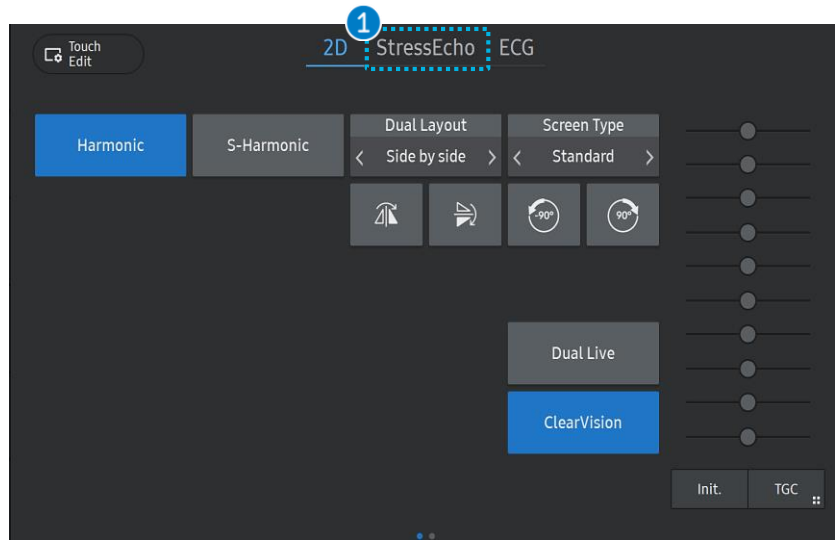
StressEcho

# 5. Acquire images (2)



1 Protocol Screen

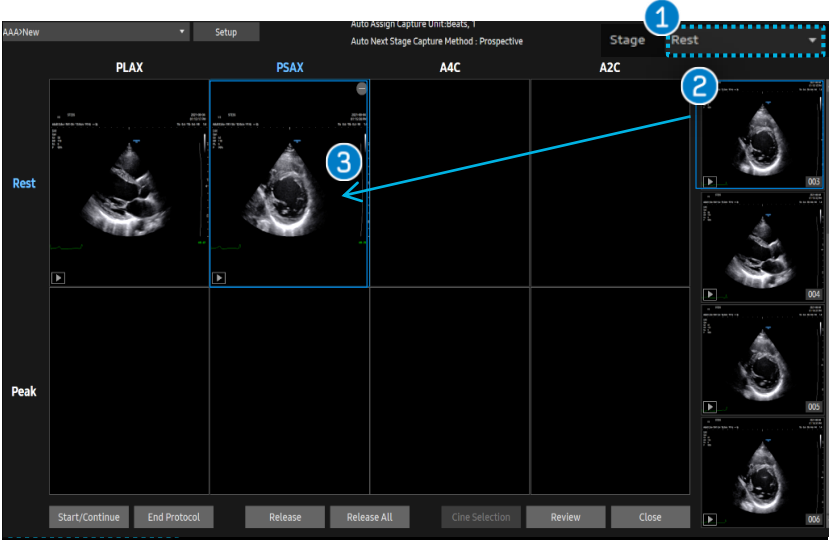
After acquiring all stage images, press [Protocol] button using pointer key or [StressEcho] on the touch screen. It goes to protocol screen.




★Tips

You can 'image assign' at the end of each stage, but most of them do image assignment after scanning because the stressEcho test is complicated.

# 6. Assign images



1	Select Stage	Select a stage. It displays the acquired StressEcho images by stage.
2	Select image	Select images from thumbnail list. Currently selected image is highlighted in blue.
3	Assign	Assign proper view of image to the template by Set button. Complete image assignment for each stage.
4	Release	You can switch to another image from thumbnail. Click the  icon on the top right corner or press the [Release] or [Release All].



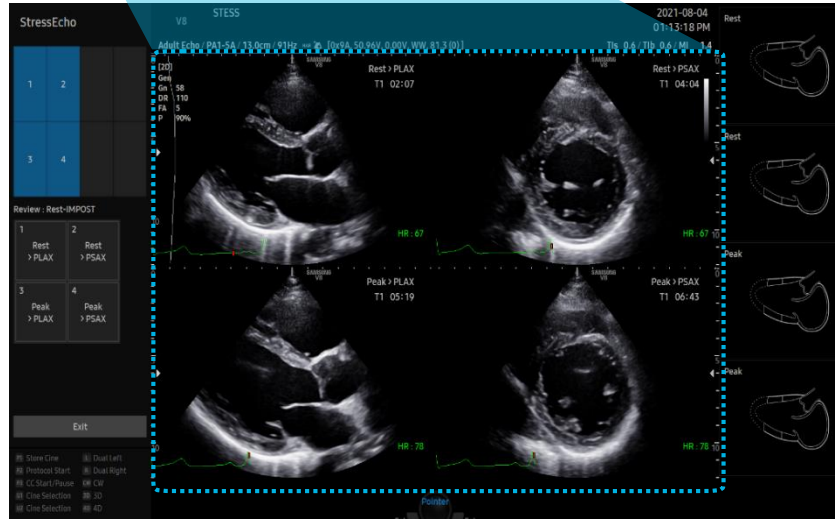
★Tips

In case [Auto assign] is selected, images will be automatically assigned. When it necessary to switch image from thumbnail, you can also switch the image manually.

# 7. StressEcho Image review (1)

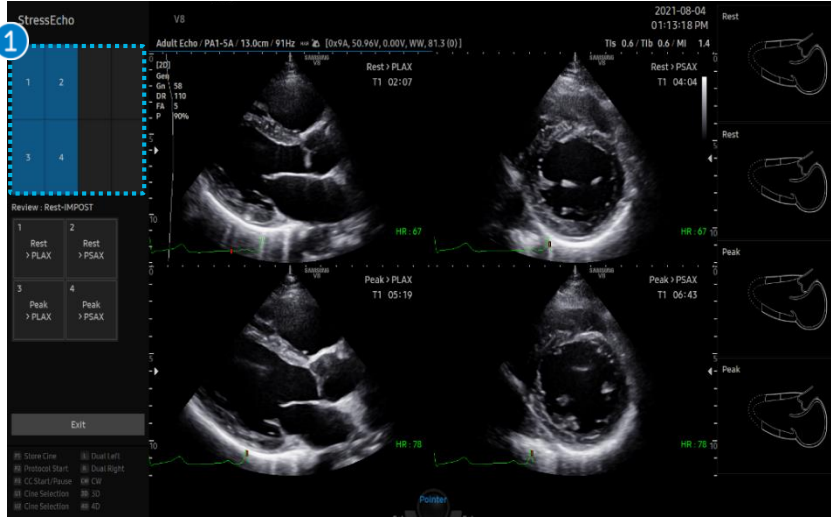


1 Select image	Select image from stress echo image area.
2 Review	Press [Review] button. It goes to review screen.



StressEcho

# 7. StressEcho Image review (2)

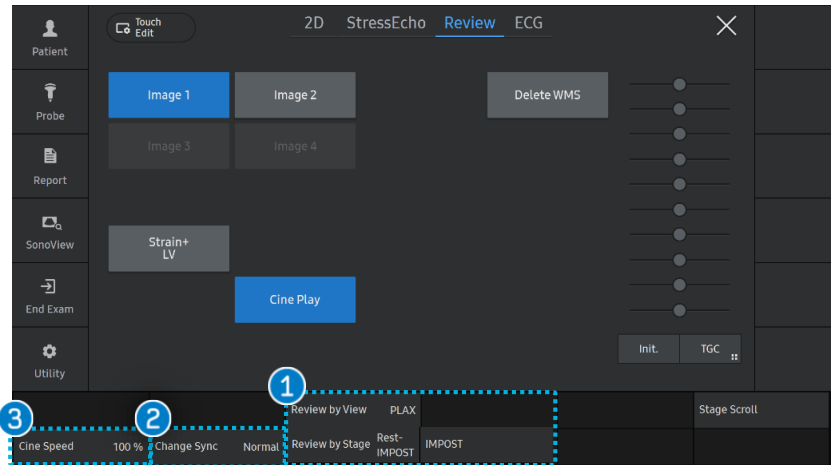


**1 Review by view / Stage**  
 If you want to review other images, just click on the Matrix with pointer key or turn the [Review by View/Stage] button at the bottom of the touch screen.

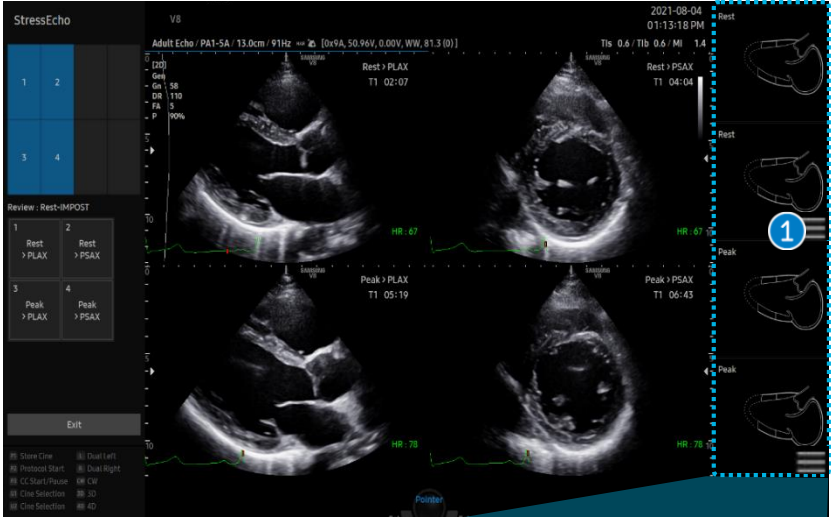
**2 Change sync**  
 Cine loops can be synchronized and play. There are 4 types of Change Sync.


- Normal: Each original cine loops are played.
- Long: 4 cine loops are played based on a cine loop having longest among the 4 cine images.
- Short: 4 cine loops are played based on a cine loop having shortest among the 4 cine images.
- End to End: It synchronizes the beginning and end of the 4 cine loops and plays.

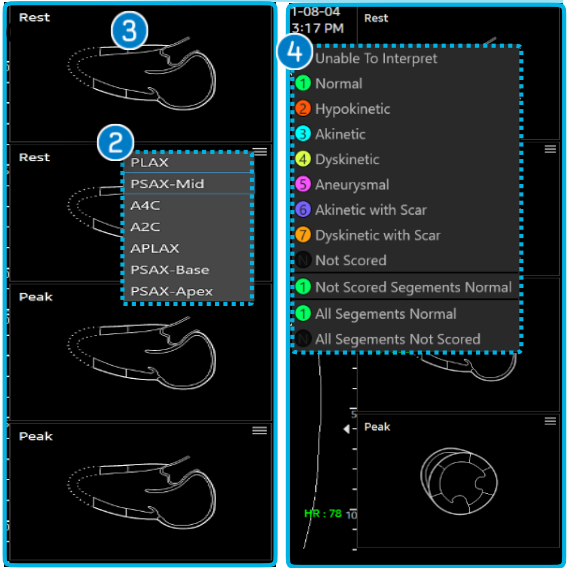
**3 Cine Speed**  
 Cine speed can be adjusted.



# 8. Wall motion scoring



<p>1 WMS</p>	<p>Click the  (Select WMS View) icon using the trackball and the [Set] button.</p>
<p>2 Select each view</p>	<p>Select the view that you want to enter WMS.</p>
<p>3 Select each segment</p>	<p>Select a segment that you want to enter WMS using the trackball and the [Set] button. The score menu will be appeared.</p>
<p>4 Score Value</p>	<p>Select a score value from the pop-up menu. Segment's score and color will be displayed in each segment.</p>



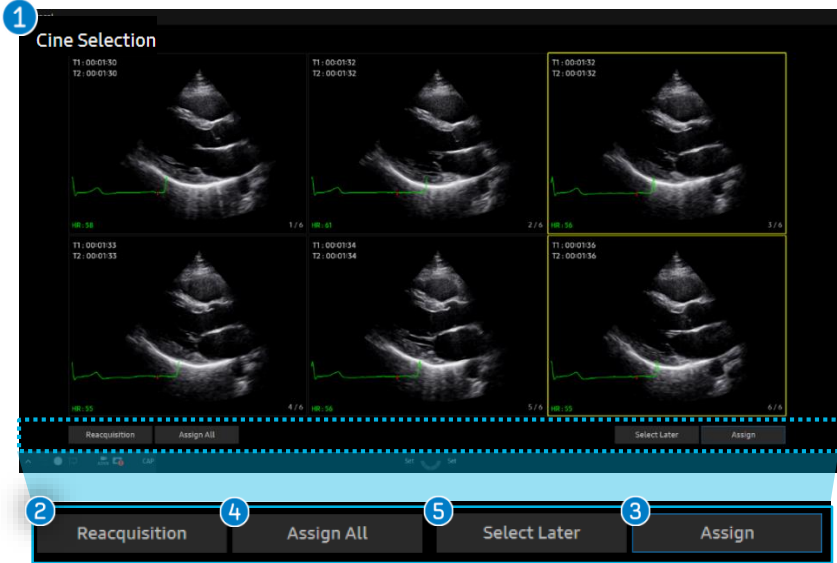
# 9. Report review


ID	ST***		Name
Date of Birth(Age)	Gender	Exam Date	2021-08-04
Indication			
Diag. Physician	Ref. Physician	Operator	
Index	Segment	Rest	Peak
1	Basal Anterior	0	0
2	Basal Anteroseptal	1	4
3	Basal Inferoseptal	0	0
4	Basal Inferior	0	0
5	Basal Inferolateral	3	4
6	Basal Anterolateral	0	0
7	Mid Anterior	1	4
8	Mid Anteroseptal	2	5
9	Mid Inferoseptal	3	3
10	Mid Inferior	1	4
11	Mid Inferolateral	7	5
12	Mid Anterolateral	3	3
13	Apical Anterior	0	0
14	Apical Septal	0	0
15	Apical Inferior	0	0
16	Apical Lateral	0	0
17	Apex	0	0
WMS Sum		21	32
WMS Index		2.63	4.00

**Rest**

- 1 **Report**
Tap the [Report] button on touch screen. All result of StressEcho will be displayed.
- 2 **Print**
Available to print the Report page.
- 3 **Export**
Available to export the Report file.

# [Appendix] Multi Assign (1)





1 Cine selection	Cine Selection mode can be entered either after images are acquired or by pressing the green icon  in the review mode.
2 Reacquisition	Whole acquired images will be deleted and new acquisition will begin.
3 Assign	Assign the selected images.
4 Assign All	Assign all the acquired images.
5 Select Later	It saves the all acquired images and you can resume the images later in "Protocol".

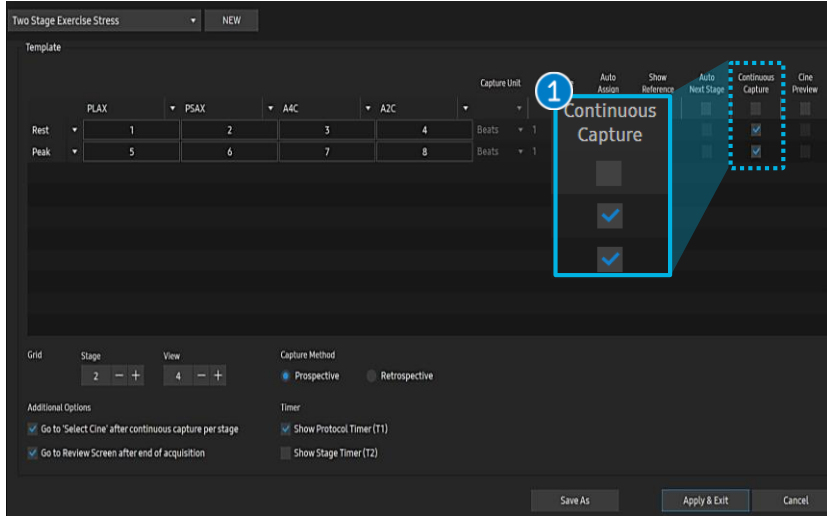


★Tips

The status assigned or non-assigned images.

- If there is no icon in the bottom right corner, it means a single image has been assigned.
-  This white icon means multiple images has been assigned.
-  If you press this green icon, Cine Selection mode can be entered to assign images.


# [Appendix] Continuous Capture (1)



## 1 Capture Setup

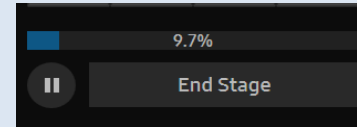
In order to use [Continuous Capture] tick a box and press [Apply & Exit].  
*\* StressEcho → Template Editor*

## 2 Continuous Capture

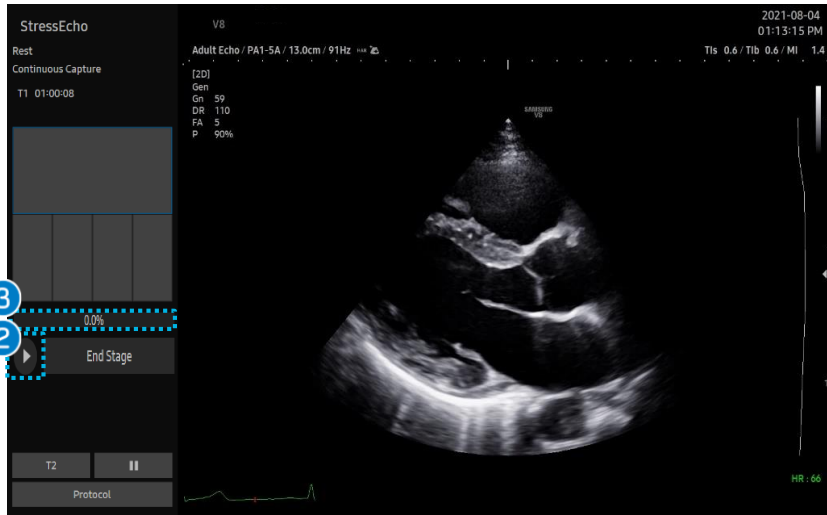
Press the [Play] icon  below the Matrix.  
*\*Continuous capture is only available when EKG is connected.*  
*\*\* It stored all cine data per beat, allowing you to assign the displayed images to each stage and view.*

## 3 Capture Status

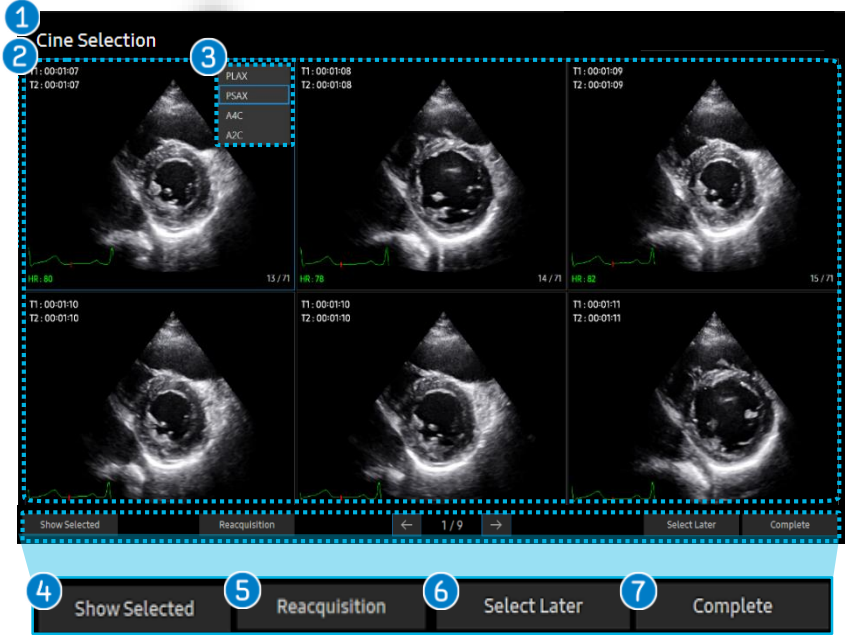
When the continuous capture starts, the capacity bar that indicates stored image than maximum capability will be increased in number. When it reaches 100%, cine storing will be automatically stopped and it will bring you to the page of [Cine Selection].



You can pause or end current stage by icons below the capacity bar.



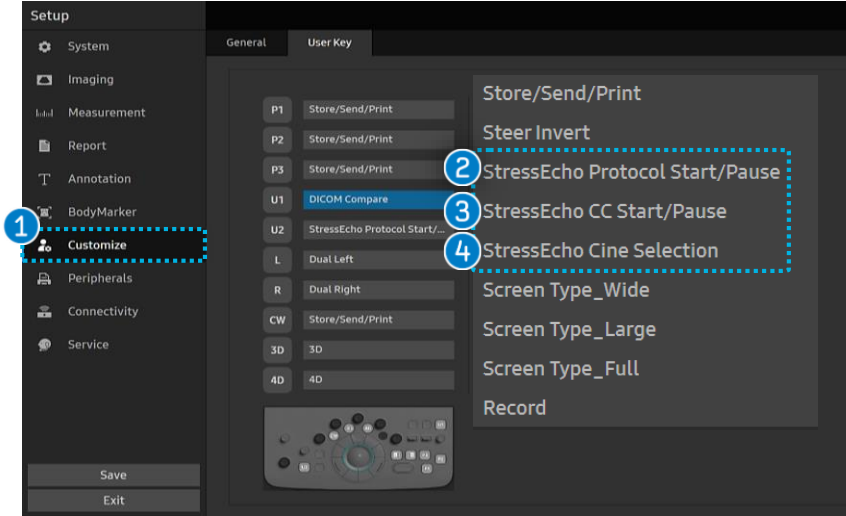
# [Appendix] Continuous Capture (2)



<p>1 Cine Selection</p>	<p>When the capacity bar hits 100% or [End Stage] is pressed, it automatically displays [Cine Selection] with current stage.</p>
<p>2 Review image</p>	<p>Review acquired images that are automatically played.</p>
<p>3 View Assignment</p>	<p>Pick a image for each view and select name of view corresponding the image.</p>
<p>4 Show Selected</p>	<p>It only displays the selected images.</p>
<p>5 Reacquisition</p>	<p>Whole acquired images will be deleted and new acquisition will begin.</p>
<p>6 Select later</p>	<p>It saves the all acquired images and you can resume the images later in "Protocol".</p>
<p>7 Complete</p>	<p>Finishes assigning the images for the current stage. There are three options in [Complete] ; Deleted, Remain and Cancel. * If you want to delete all images except selected cine, tap on the [Delete].</p>

StressEcho

# [Appendix] Assign to Userkey



1 Customize	You can customize the StressEcho User key in Setup. ■ Setup → Customize → Userkey
2 Protocol Start/Pause	StressEcho Protocol Start/Pause.
3 CC Start /Pause	Continuous Capture Start/Pause. (Acquires and save images continuously)
4 Cine Selection	Enter Cine Selection screen directly.

- The features, options may not be commercially available in some countries.
- Sales and shipments are effective only after the approval by the regulatory affairs. Please contact your local sales representative for further details.
- This Quick guide does not include all of the details of instruction, for more detail, please refer to V series User Manual.
- Do not distribute this document to customers unless relevant regulatory and legal affairs officers approve such distribution.
- This User Quick Guide is based on V series V1.06.
- Disclaimer: Some Images in this content were obtained from other system.

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