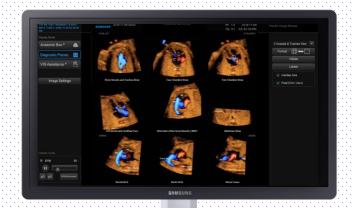
SAMSUNG

5D Heart Color™

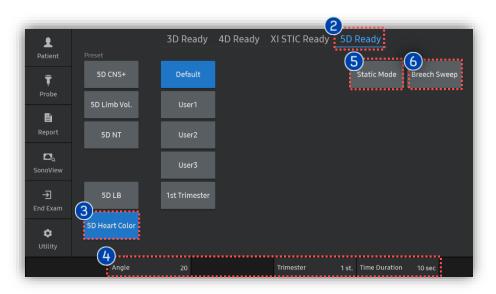
V Series **Quick Guide**





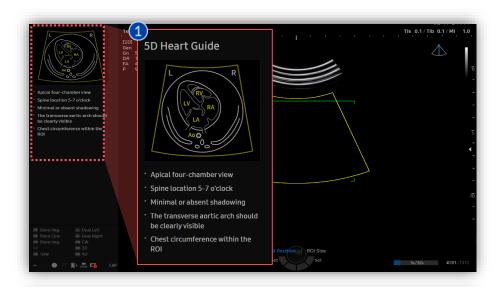
Produced by Clinical Training Center / SAMSUNG MEDISON CO.,LTD

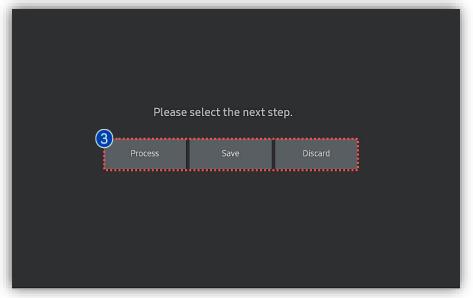
1. Activate 5D Heart™ - 3D Button



1	3D Button	Press [3D] button on the control panel.
2	5D Ready	Tap [5D Ready] on the touch screen.
3	5D Heart Color	Tap [5D Heart Color] on the touch screen to activate 5D Heart color.
4	Parameters	3D [Scan Angle], [Trimester] and [Time Duration] are adjustable.
5	Static Mode	To take lesser acquisition time, you may use [Static Mode] which provides a static image of 5D Heart views. (Static mode is available only 5D Heart. Can not use in 5D Heart Color)
6	Breech Sweep	For a breech baby, it allows a scan to be taken from the head to abdomen without changing the probe direction.

2. Acquire 3D Volume data





sult, try to get
view
veen 5-7
shadowing
arch should be
ce within the
on the acquisition of

Process	After saving acquisition data, enter 5D Heart mode with the scanned data.
Save	Store acquisition data and go back to 3D standby mode.
Discard	Go to 3D Standby mode without saving the data if the scanned data is incomplete due to the fetus movement.

5D heart

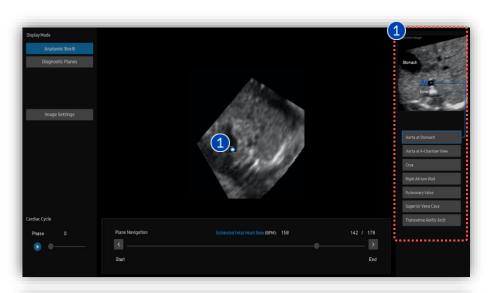
type

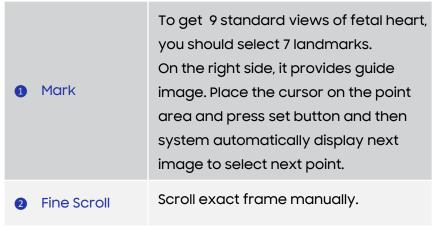
Acquisition

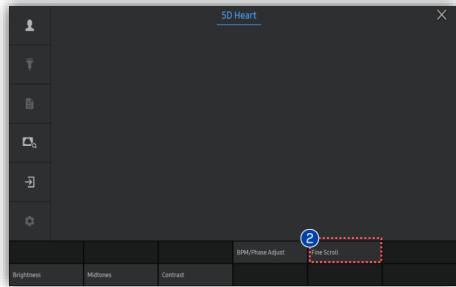
Select one of the 5D Heart acquisition

type on the touch screen.

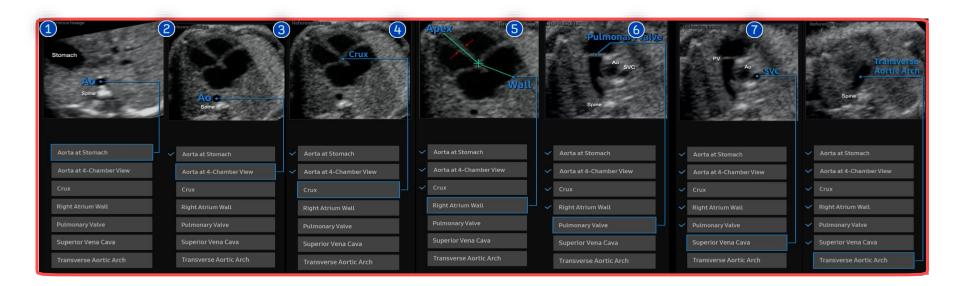
3. Specify marking points (1)







3. Specify marking points (2)



7 Points

You should specify 7 landmarks of anatomical structures to get 9 standard views of fetal heart.

Aorta at Stomach

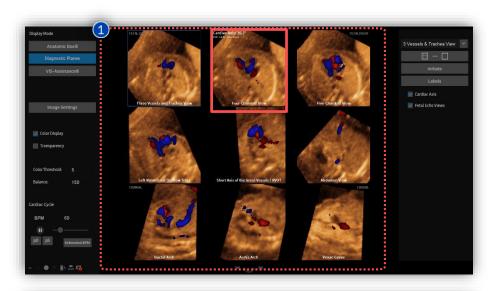
- 9 Pulmonary Valve
- 2 Aorta at 4-Chamber View
- 6 Superior Vena Cava

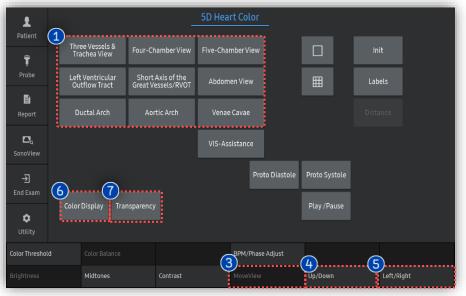
3 Crux

Transverse Aortic Arch

4 Right Atrium Wall

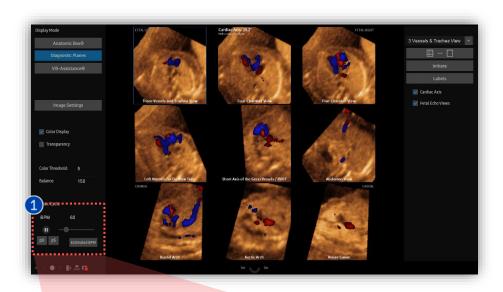
4. Diagnostic Planes (1)



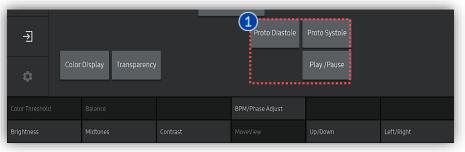


1	View Select	Select one of the 9 standard views to rotate the image or move its reference slice.
2	Rotation	You can rotate the selected image around the X, Y and Z axis by using the [X], [Y] and [Z] dial-button on the control panel.
3	MoveView	Adjust the reference slice of the selected view.
4	Up/Down	Move all the images up and down by using the dial-button.
5	Left/Right	Move all the images left and right by using the dial-button.
6	Color Display	When it is selected, blood flow is displayed.
8	Zoom	Magnify all the images by using [Zoom] button on the control panel.

4. Diagnostic Planes (2)







1 Cardiac Cycle pD/pS (Proto Diastole/ Proto Systole)
 Press [pD] or [pS] button to move the cine position to diastolic phase or systolic phase.

pS Cine Position moves to systolic phase.

Cine Position moves to diastolic phase.

pS Cine Position moves to systolic phase

■ BPM/Phase adjust ▶

Adjust the speed of playback with [BPM] button and review the entire cardiac cycle with [Phase] button. Press button to switch [BPM] mode to [Phase]

BPM

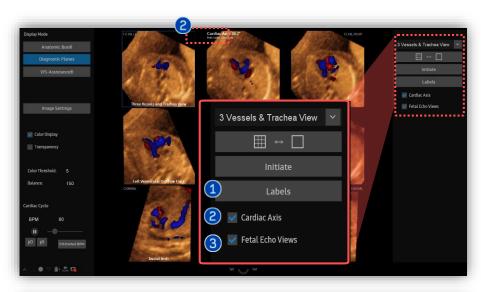
The heart rate shown is not the original cardiac frequency of the fetus.

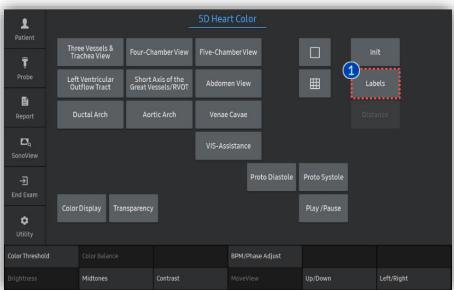
It is the cycling frequency of the display that purposely is set at 60 BPM(Beats per Minute).

It is to browse the entire cardiac cycle (Systole-Diastole).

The system is played a cine as estimated BPM by acquired STIC data.

4. Diagnostic Planes (3)



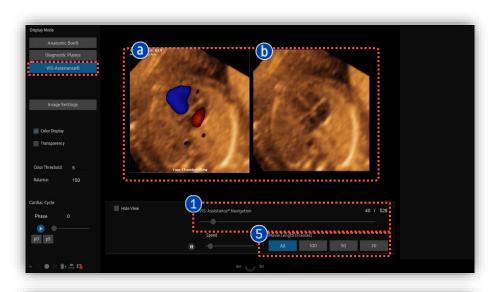


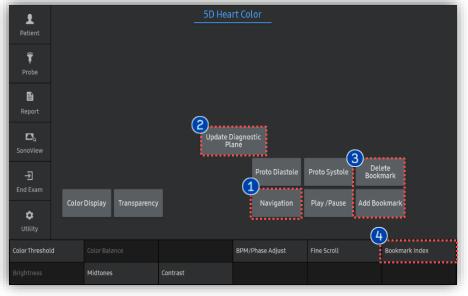
When it is turned 'On', the anatomical Label labels will be displayed at the anatomical structure. Display 'Cardiac Axis' angle of Aortacrux and apex. **Cardiac Axis** Cardiac Axis: 23° Method Ao-Crux-Apex

> Selecting the check box, the name of all fetal echocardiography views, Left/Right sides of the fetus and Cranial/Caudal direction will be displayed at the respective location.

Fetal Echo Views

5. VIS-Assistance®

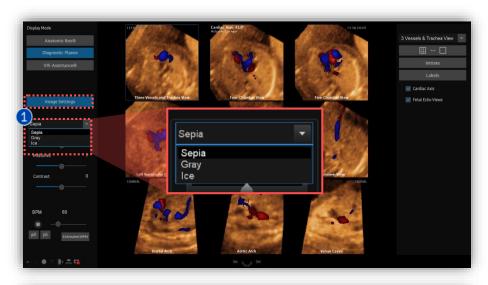


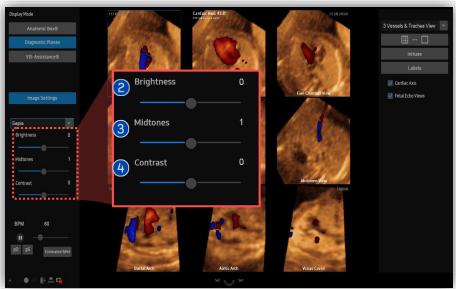


Virtual Intelligent Sonographer Assistance (VIS-Assistance®) is an operator independent tool that allows to provide more appropriate images of each of the nine cardiac Diagnostic Planes. 3 Left image: Selected view among nine cardiac Diagnostic plane b Right image: Navigation views of surrounding structure			
1 Navigation	Find more appropriate view within entire cine on the Right image(b) by using scroll button.		
2 Update Diagnostic Plane	Press the selected plane on the Diagnostic Planes template to replace extracted plane. (* This function is only available when Cine Play is paused.)		
3 Add/Delete Bookmark	Bookmark a plane to supplant or delete your Bookmark. (* This function is only available when Cine Play is paused.)		
4 Bookmark index	You can put the Bookmark on a view up to 4 as candidates of extracted view.		
Movie Length (Frames)	Select the number of Cine frames for movie length.		

VIS-Assistance@(Virtual Intelligent Sonography Assistance)

6. Image Setting





1 Image Setting	The selected item will be applied to the image color.
2 Brightness	Adjust the brightness of the image.
3 Midtones	The left side of the slide indicates the most emphasized soft tissues and enhances the representation of the diaphragm.
4 Contrast	Adjust the contrast of the image.

- 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, fore 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 V1.05.
- Disclaimer: Some Images in this content were obtained from other system.

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