

## General Introduction

S9, the portable Color Doppler system in SonoScape, has the unique 13.3 inch touch control panel. With the state-of-the-art powerful imaging platform, it will provide you the best solution for ultrasound diagnosis with outstanding performance.



## Preparation before Scanning

**Probe**

**Exam Mode**

**Calculation**

**M-tuning**

**Annotation**

**Body Mark**

**Save Image**

**Save Cine**

**D Gain**

**B Gain**

**Depth**

**Scanning Mode**

**Dual Mode**

**Quad Mode**

**Parameter Adjustment**

## 1. Getting Start

### Create new patient and get into Scanning Mode

1. Press [Patient], fill in basic patient information;
2. Press OK on the patient interface to create a new patient file;
3. Choose the probe and exam mode on the touch screen.

## 2. Scanning

### B Mode

1. The default scanning mode is B mode, if you want to return to B mode, please press the [B] in keyboard or B Mode on the touch screen.
2. Rotate [B] in keyboard to adjust gain, or Press [M-tuning] on the touch screen for image one key optimization.

### Image Adjustment in B mode:

Easily adjust parameters by touch left or right side of the button, mostly include:

[Gain] : ↓ ↑ brightness;                      [μ-Scan] : 5- level speckle reduction;

[Compound]: edge enhancement;            [GSC]: 7 selectable grayscale curve;

[DYN] : ↓ more contrast, ↑ more information and details;

[Frequency]: high frequency for resolution, while low frequency for penetration;

[Chroma]: colorize the image for high resolution.

### 2B/4B Imaging

1. Press [Dual] or [Quad] to get into 2B/4B Imaging;
2. Press [Dual] or [Quad] to change the activated image.

### Color/DPI Mode

1. Press [Color] on the screen or [D] in keyboard to enter Color mode;
2. Move [Trackball] to change the position of ROI;
3. Press [Set] and then move [Trackball] to change the size of ROI;
4. Press [Set] again to change the position of ROI.

### The Parameters in Color Mode:

Easily adjust parameters by touch left or right side of the button, include:

[D Gain] : ↓ ↑ color brightness;    [PRF] : ↓ ↑ Scale;

## PW/CW Mode

1. Press [PW] to enter PW mode;
2. Move [Trackball] to change the position of sample volume;
3. Use [Set] to change the size of sample volume, and use [Angle] to change the angle of sample volume line;
4. Press [Update] to activate the Pulse Wave Doppler image;
5. Press [M-tuning] to optimize the spectral Doppler;
6. CW is only available for phased array, and press CW on the touch screen to enter CW mode.

## 3D/ 4D

1. Select the volume probe and choose the exam mode. Press [3D/4D] on the touch screen under B mode;
2. Adjust the ROI and curve line by [Set] and [Update];
3. Press [Start] on the touch screen to enter the 4D image real-time status.

## Steer M mode (Anatomical M mode)

1. Under M mode, click [Steer M] on the touch screen to enter;
2. Press left or right of [Steer M] to set the number of the sample line, and rotate [Angle] to change the angle of the sample line.

## Tissue Doppler Imaging (only available for Phased Array)

1. Under B mode, click [TDI] on the touch screen to enter TDI mode;
2. Use [Trackball] and [Set] to change the position and size of the ROI;
3. Press [PW] button to enter TVD mode;
4. Press [Update] to activate the Pulse Wave Doppler image.

## Elastography

Available in the breast and thyroid exam mode for all linear probes;

## Contrast Imaging

Available for C353

## 3. Measurement

1. Calculation is active both in scanning mode and frozen mode;
2. Press [Distance] to calculate the distance;
3. Press [Area] to calculate the area and circumference;
4. Press [Calc] to enter the application measurement status.
5. Choose the desired measurement item, and mark on the right position.

## 4. Post Scanning

### Annotation

1. Press [Annot] to choose the desired annotation through touch screen, or input annotation through keyboard.
2. Press [Set] to locate the annotation position.

### Body Mark

1. Press [Body Mark] and choose the desired one.
2. Move [Trackball] to place the probe marker, and rotate the [Angle] to adjust the orientation of the probe.

### Save Images or Cine

Press the [Save Frame] or [Save Cine] to save a single frame image or cine into the system.

### Review Patient File

Press [File] to the patient file which you are scanning, then select a certain exam to review images and cines.

## Report and Print

1. Press [Insert Image] to add images, and then Press [Report], input the comment in the text box.
2. Click [Print] on the report interface to preview the PDF report, then press [Print] on the touch screen to print the report out.

## End Exam

Press [End Exam] to end one examination.

## Start a New Patient

You may start a new exam by repeating the instructions above.

## 5. Image Management

### Image Transfer (only after you END the examination)

1. Press [Patient] on the touch screen, then enter the [Patient List] to choose the images of a certain patient.
2. Choose the type of medium to USB. Then choose the type of file you want to export, like JPG/BMP/AVI/MP4, etc;
3. Click [Export] to send the images to USB.

Note: For detailed information, please refer to the Operation Manual.

## 6. Touch Screen Setting

### Change Skin/Color Lightness/Audio

1. Press [Keyboard] on the touch screen and press [Set Up] to enter into the touch screen setting;
2. Choose 3 different types of Skin: [Royal Blue], [Snowy White], [Gray Black]
3. Choose 2 different parts of color lightness: [Touch Screen], [Master]
4. Choose the [Volume] on the Touch Screen.

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