**E1 Quick Manual**



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1. **Exam Procedure**

Patient / Probe / Report / Review / End Exam

**2. Standard Keyboard and Function Keys**

**3. Parameter Adjustment**

Baseline / Scale / Angle / Zoom / Depth / Focus

**4. User Defined Keys**

P1/ P2

**5. Annotation**

Body mark / Pointer / Annotation / Clear

1. **Control Center** Trackball / Update / Left & Right Set Buttons / Caliper / Calculation
2. **Imaging Mode**

B / PW / M

1. **Image Management**

Print / Cine / Image

1. **Freeze/ Unfreeze**
2. **Automatic Parameter Optimization and Gain Adjustment**
3. **Dual Mode**
4. **TGC**
5. **Parameter Knobs**
6. **Power On**

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**Grounded Cable**

**Print**

**MIC**

**Ethernet**

**S-Video**

**HeadPhone**

**USB**

**HDMI**

**Video**

**Power**

**Foot Switch**

**ECG**

**Probe Ports**

**1. Getting Start**

Create new patient and get into the Scanning Mode

1. Press [Patient], to create a new patient with basic patient and exam information;

2. A patient ID is necessary and will be assigned if left empty;

3. Press [Probe] and move the [Trackball] to choose a probe and an appropriate exam.

**2. Scanning**

**B Mode**

1. The default scanning mode is B mode; if you want to return to B mode while you are operating other modes, please press the [B] on keyboard;

2. Easily adjust parameters with the six knobs just under the monitor, press the right button for the next page of parameters.

3. Press [Auto] for one key image optimization.

**2B/4B Imaging**

1. Press [Dual] or [Quad] to get into 2B/4B imaging;

2. Press [Dual] or [Quad] to change the activated image.

3. Easily adjust parameters with the six knobs just under the monitor, press the right button for the next page of parameters.

**PW Mode**

1. Press [PW] to enter PW mode;

2. Move the [Trackball] to change the position of the sample volume;

3. Press [Set] and then move the [Trackball] to change the size of the sample volume, and rotate [Angle] to change the angle of the sample volume line;

4. Press [Update] to activate the Pulse Wave Doppler image;

5. Easily adjust parameters with the six knobs just under the monitor, press the right button for the next page of parameters.

**Image Adjustments**

Parameters in B Mode: Depth, Focus, Gain, Frequency, Line Density, Gray Map, Chroma, μ-Scan, Persist, DR, Power, Focus Area, Sector Width, Compound, Rotation, TSI;

Parameters in Color Mode: Gain, Baseline, Scale, Depth, Frequency, Line Density, Rotation, Persist, WF, Invert, Power.

**3. Measurements, Annotations and Body Marks**

Measurements, annotations and body marks are active both in scanning mode and in frozen mode;

**Measurements**

1. Press [Caliper] to calculate the distance, area, volume and angle;

2. Press [Calc] to enter the application measurements menu;

3. Choose the desired measurement item by moving the [trackball], use [Set] to choose and mark the correct position.

4. Press [Clear] to clear all marks on the image.

**Annotations**

* **Annotations dictionary**

1. Press [Annot] to activate the annotations dictionary, select from the annotations dictionary.
2. Move the [Trackball] to change the position of the annotation.
3. Press [Set] to place the annotation at the desired position.

* **Input annotations**

1. Press [Annot] to activate the annotations function and move the [Trackball] to change the position of the annotation.
2. Input the annotation through the keyboard.
3. Press [Set] to confirm the annotation and position.

**Body Marks**

1. Press [Body Mark] and choose the desired body mark.

2. Move the [Trackball] to place the probe marker, and rotate [Body Mark] to adjust the orientation of the probe marker.

3. Press [Set] to place body mark at the desired position.

1. **Post Scanning**

**Save Images and Cine**

Press [Image] to save a single frame image, or press [Cine] to save a cine on the system.

**Review Patient File**

Press [Review] to review the patient file that is currently active, then select a certain exam to review images and cines.

**Report and Print**

1. Press [Report] to enter the report interface for reviewing all measurement results and edit graphs.

2. Click [Image View] to add images, Click [Summary] to input a summary for the exam;

3. Click [Prev.Save] to preview the report and then click [Print] to print the report.

**End Exam** Press [End Exam] to end the examination.

Start a New Patient by repeating the instructions above

**5. Image Management**

1. Press [Patient] in the control panel, then enter the [Patient List] to open an exam of the desired patient; or press [Review] and choose the desired patient.

2. Choose the type of medium, then choose the type of file you want to export, like JPG/BMP/TIF/AVI/WMV/PDF/TXT/HTML;

3. Click [Export] to send the images to the selected USB.

4. Click [DICOM Send] to upload files to DICOM service.

**6. User-defined Presets**

1. After you change some parameters to optimize the scanning image, press “S” on the alphabet keyboard to enter the User Preset Menu;

2. Name the new exam, and choose the Exam Type and Part accordingly; then click [Save];

3. You can also enter [Setup] - [Exam Preset] to change the order of all exam modes.