Youkey Operating Guide

WuHan Youkey Bio-Medical Electronics Co., Ltd.

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Youkey

Wireless ultrasound

Mobile Imaging
Intelligent Medical

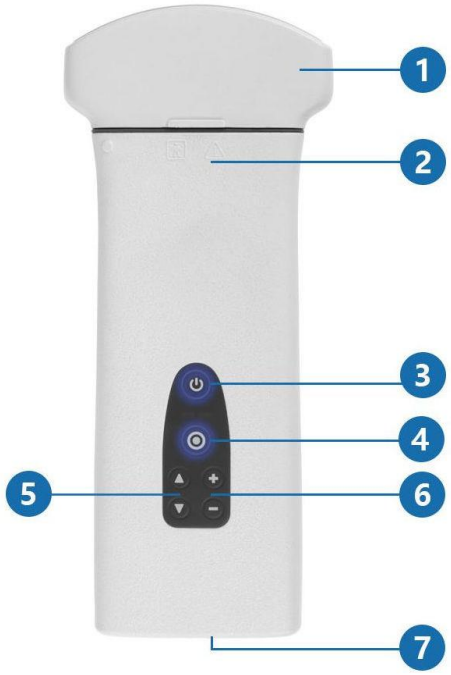
Scanner Introduction

- Size: 15.0(L)*5.0(W)*2.5(H) cm
- Weight: 130-180g
- AC Adapter Output: 5V-2A
- Boot Time: 5S
- Continuous Scan Time: 4H
- Waterproof Rate: Main unit-IPX4; Transducer head-IPX7
- External Port: Transducer port; USB Type-C port
- Supported transducer heads: 6 types
- Supported Platforms: Android, iOS and Windows

Scanner Introduction

About Youkey Ultrasound Scanner

Q7 Ultrasound Scanner



D8 Ultrasound Scanner

No.	Name	Description
1	Transducer	Changeable transducer module
2	Main unit	Ultrasound scanning engine, built-in Li-ion battery
3	Power button	Short press, power on or freeze/unfreeze scanner Long press >=3s, power off the scanner. Blue blinking, the scanner is in freezing status. Blue solid, the scanner is in scanning status.
4	Menu button	Set scan mode when in scanning status. Save image when in freezing status. Battery light shows the battery status.
5	Up / Down button	Increase / Decrease the gain or switch parameters.
6	"+" / "-" button	Increase / Decrease the Depth and Parameters .
7	USB Type-C	Battery charging or data cable connection.

Note:

① Do not use the scanner when charging.
② The scanner should be frozen or powered off when switching transducers.
③ The adapter output is DC 5V 2A.

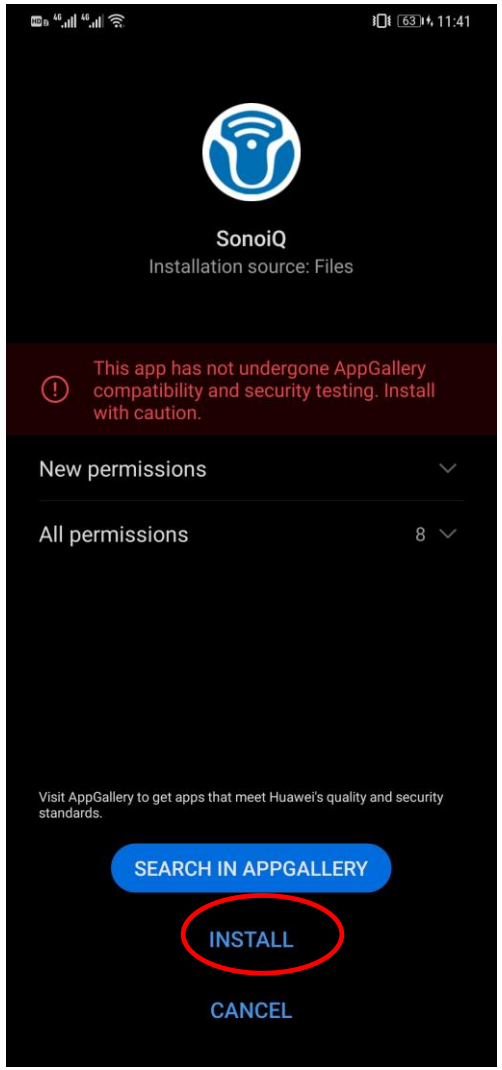
Software

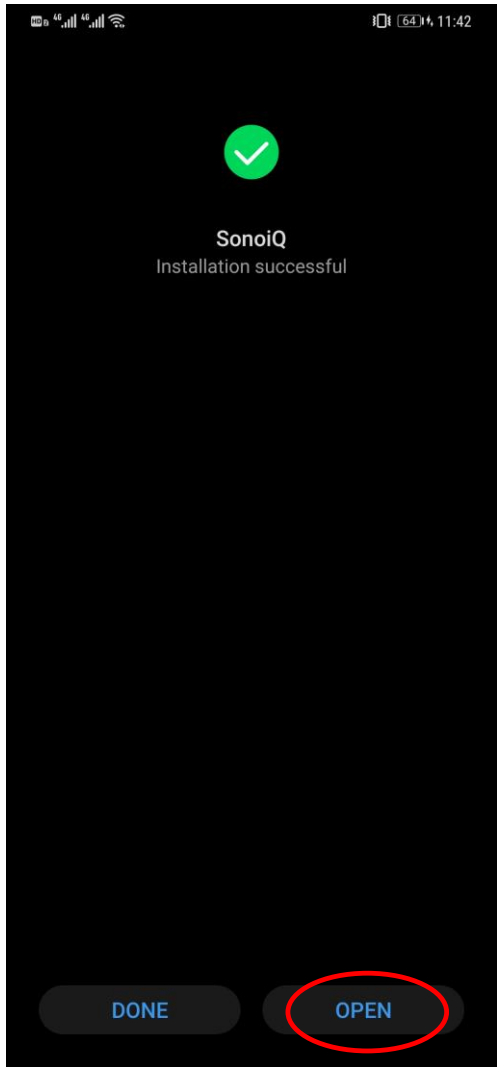
1. SonoiQ App Download

Download "SonoiQ" App from the App Store, Google Play Store or Youkey Website.

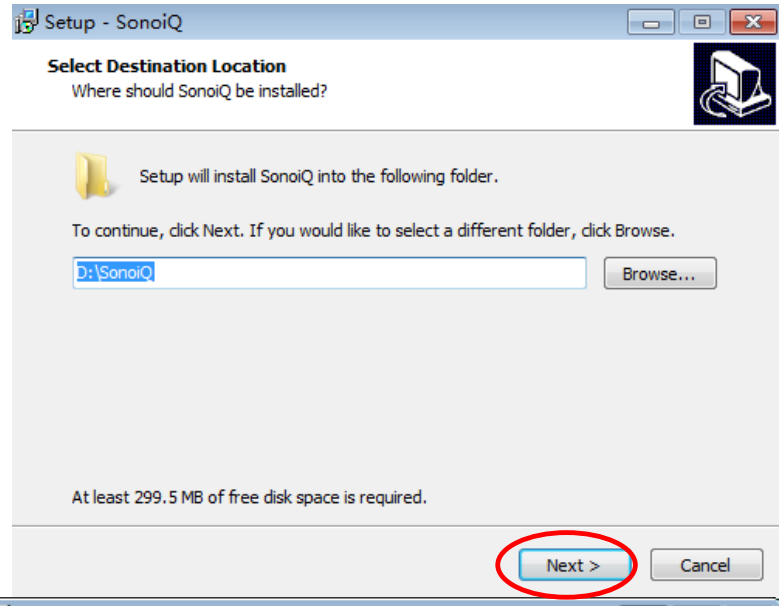
- Get all software at this link:
- http://www.youkeymedical.com/

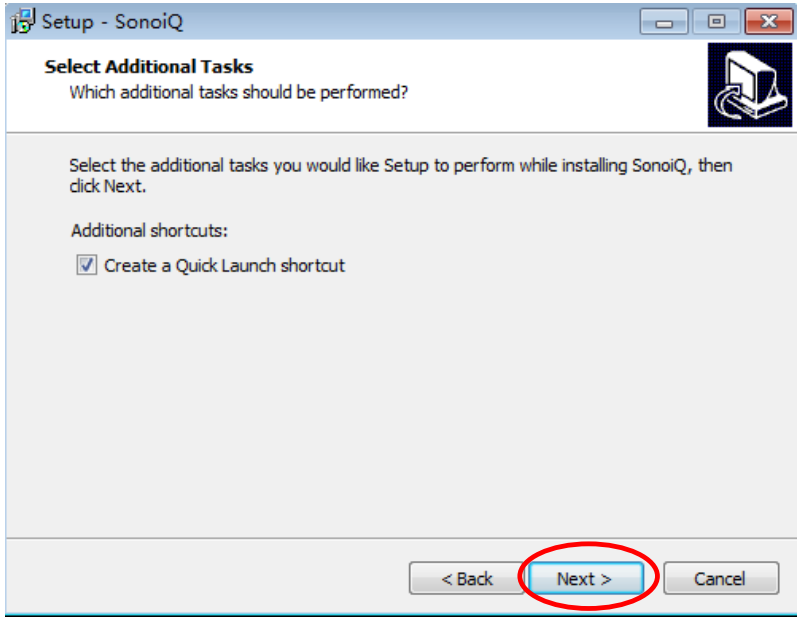
Android Installation

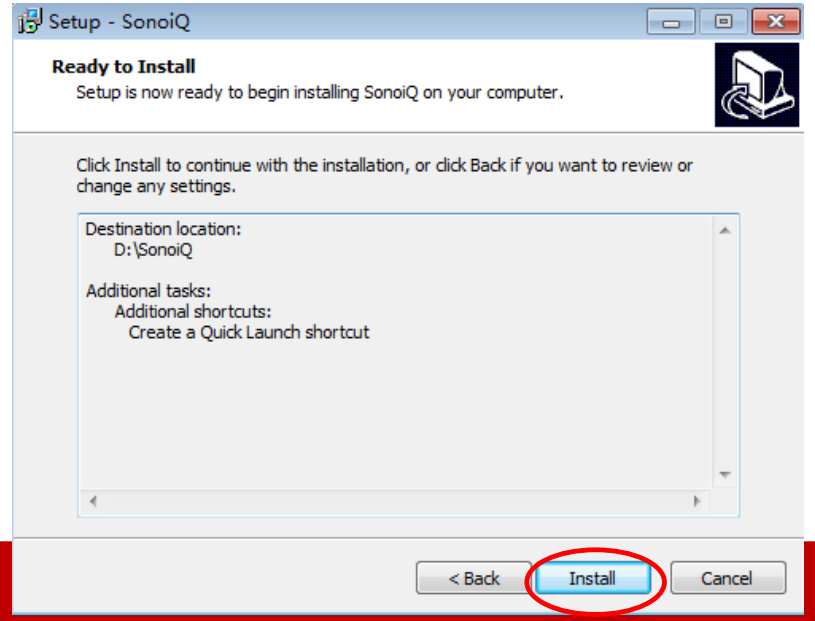


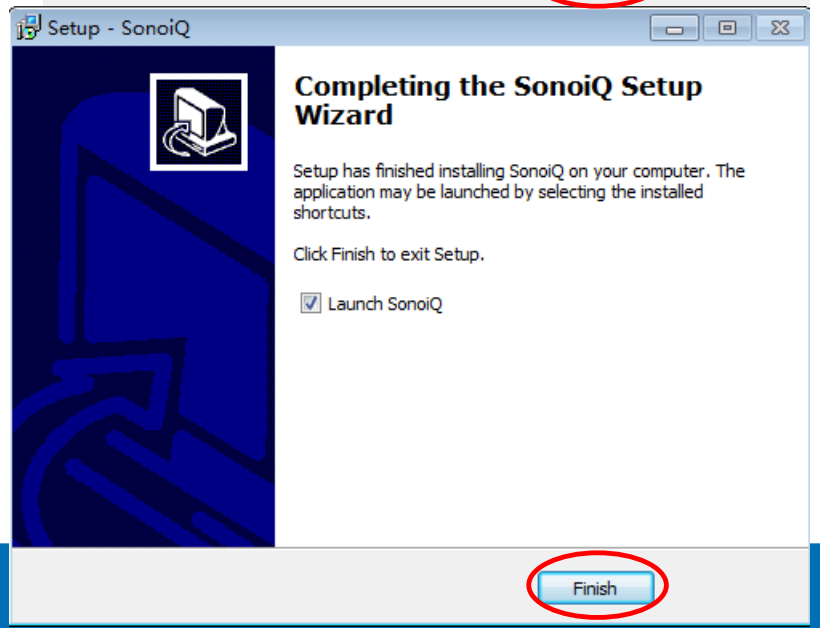


Windows Installation









Connection

Youkey

Wireless ultrasound

2. Start SonoiQ App

3. Turn on/off scanner:

Turn on: Short Press the power button. The scanner is ready when the power light is blinking slowly.

Turn off: Long press the power button for more than 3 seconds.

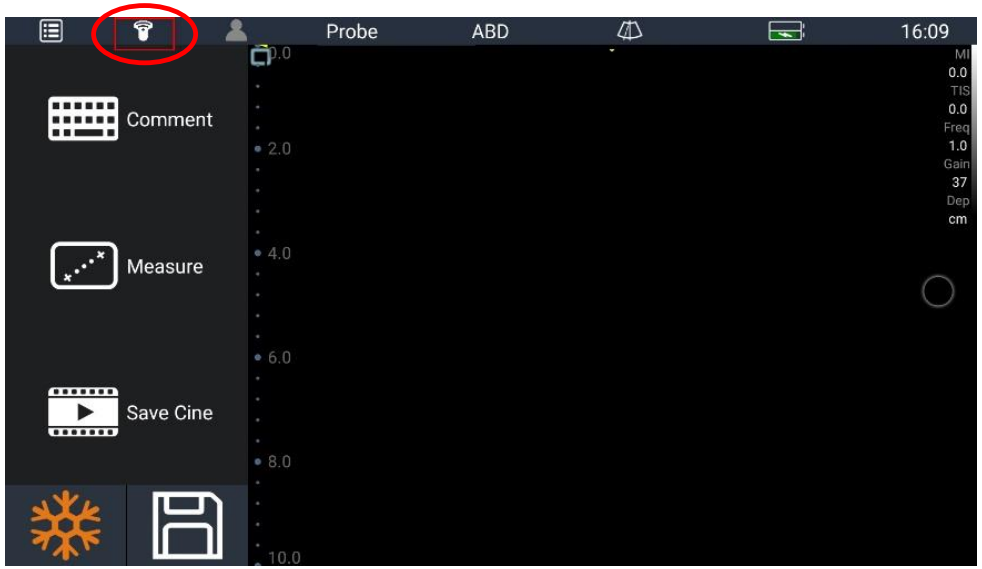
4. Connect scanner:

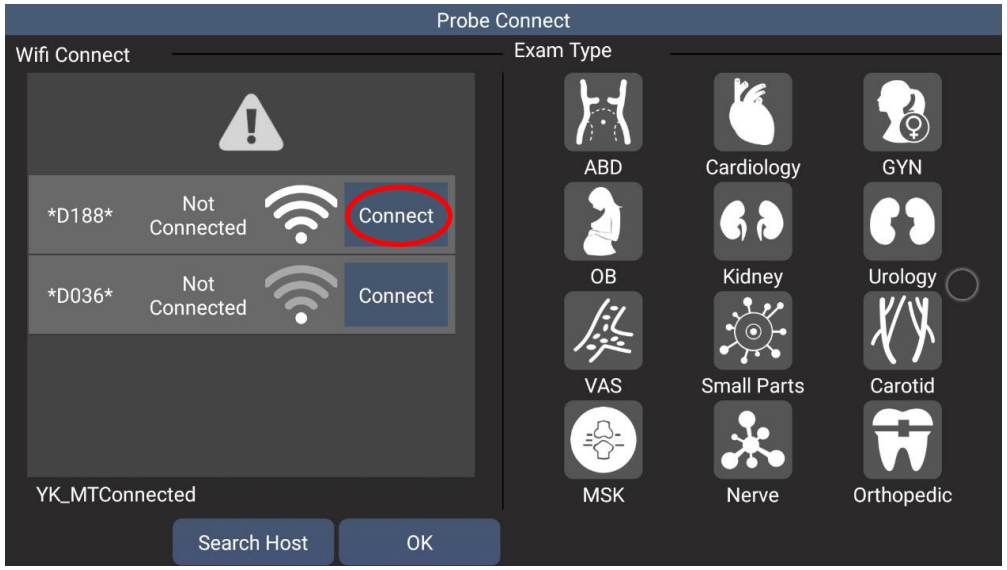
a) **Android and Windows:**
Click on the software - WiFi signal icon to connect the scanner to the smart device.

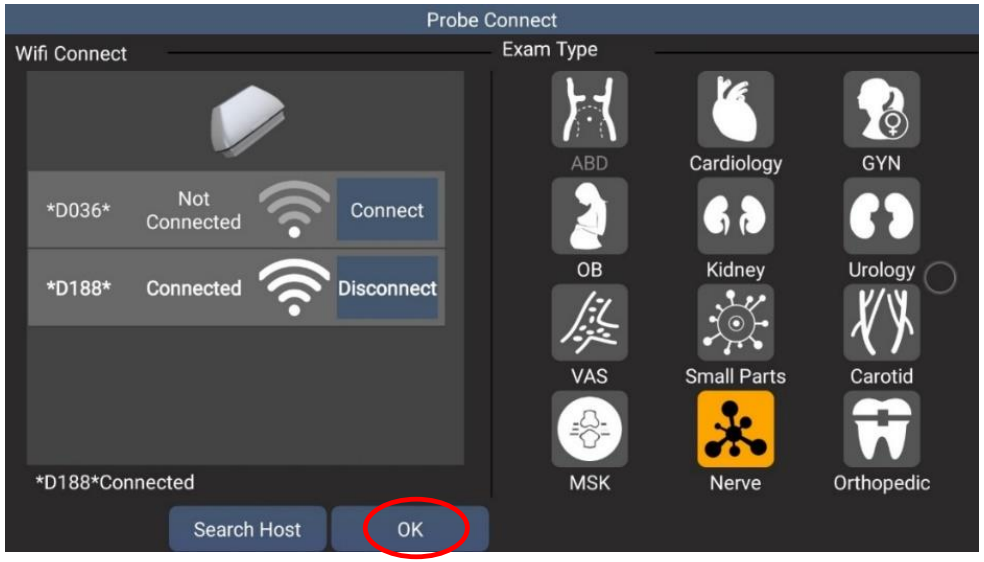
iOS:
WiFi connecting password is '12345678', toggle off the "Auto Join" after connected.

b) Install the Windows driver in the installation folder to use Windows USB connection.

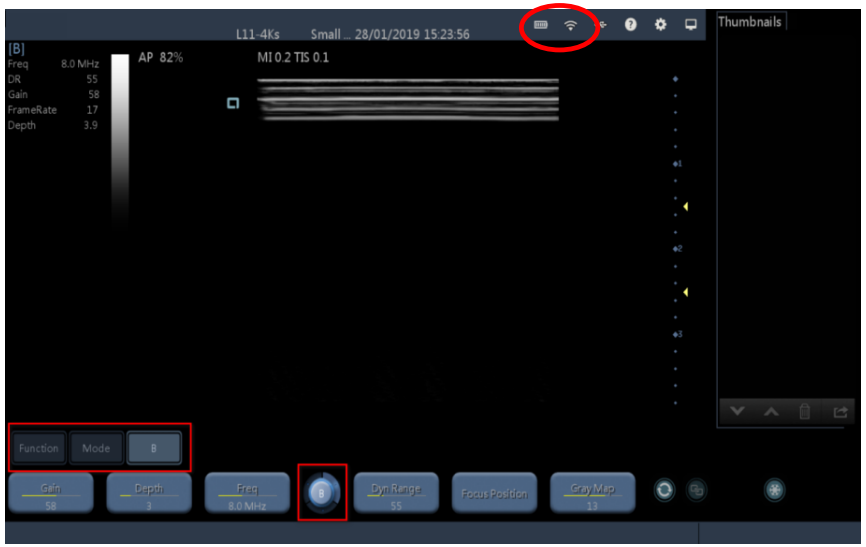
Android Connection

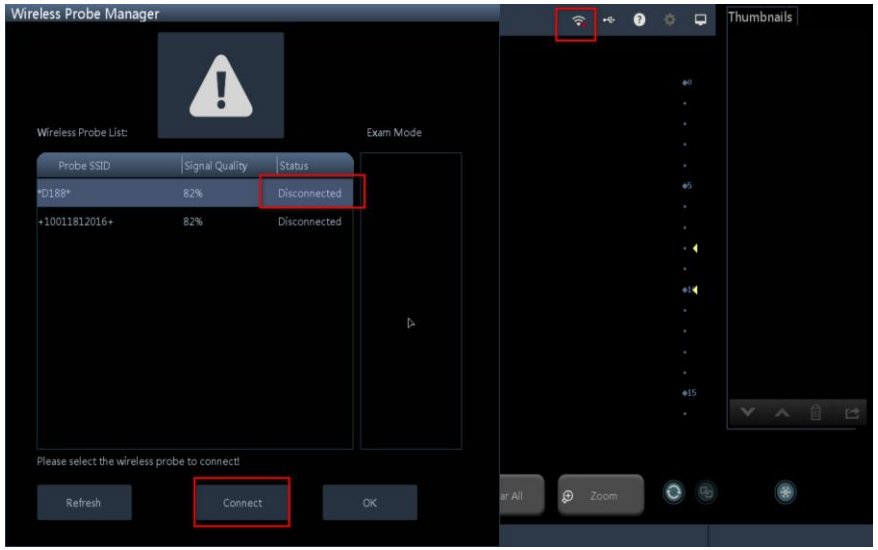


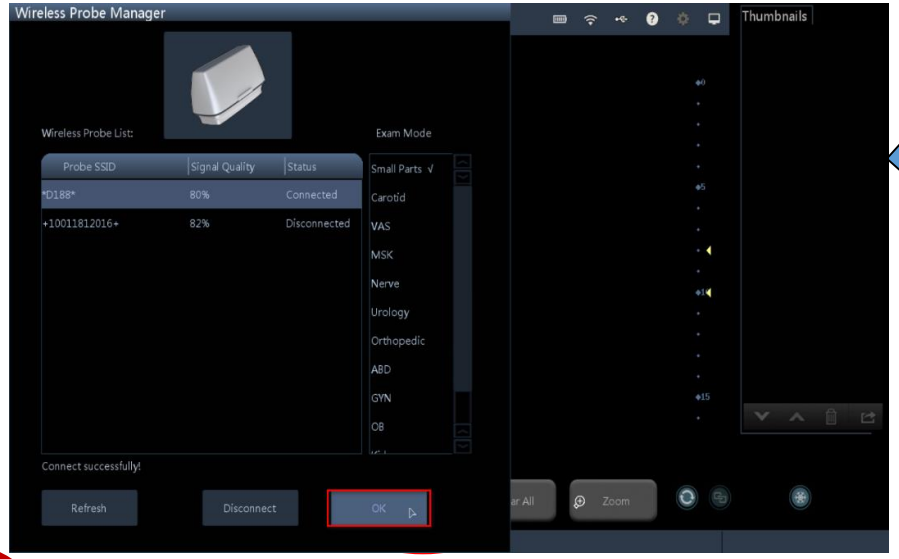


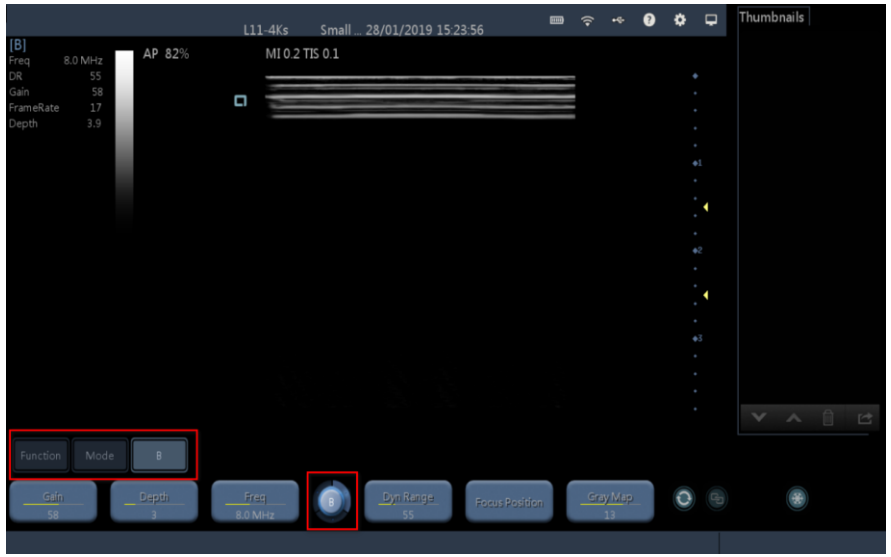


Windows Connection

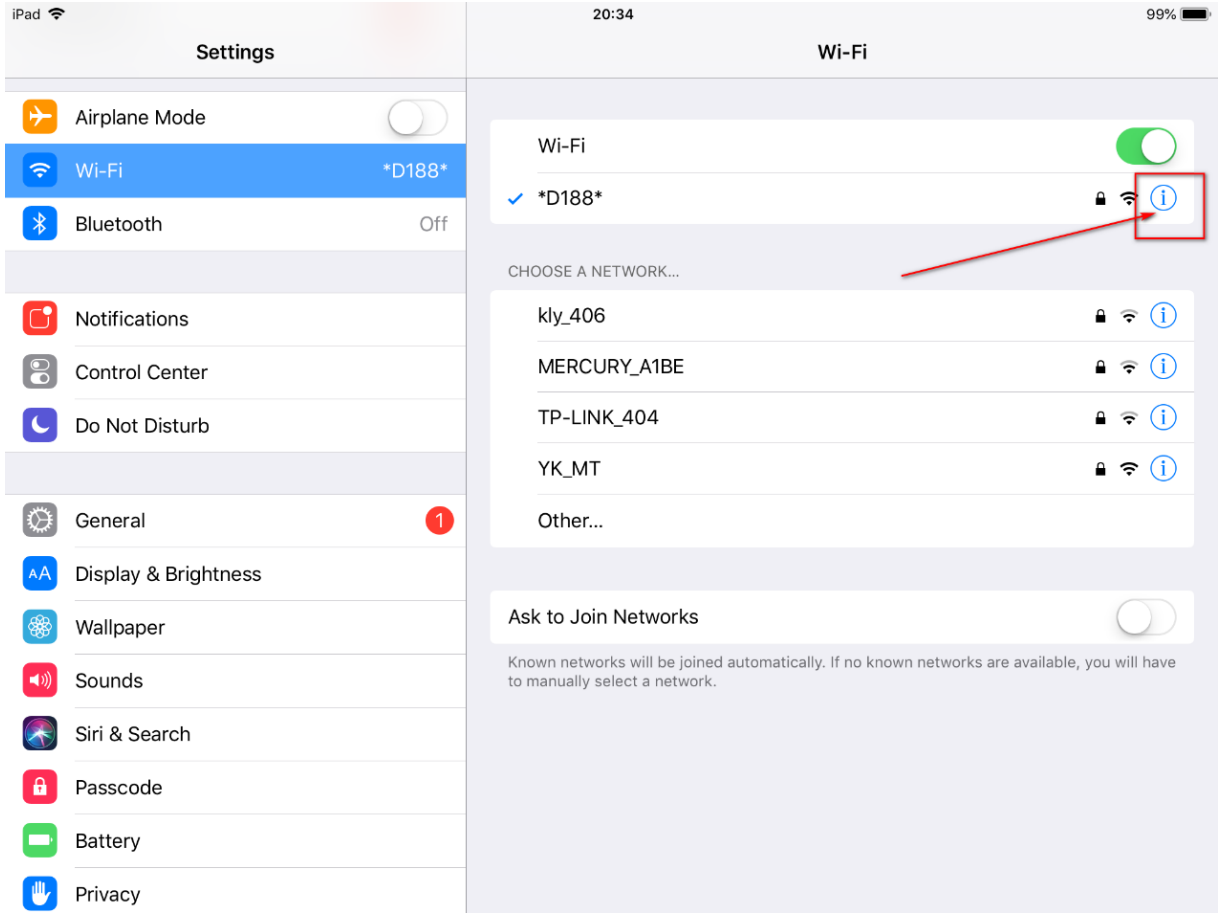








iOS Connection

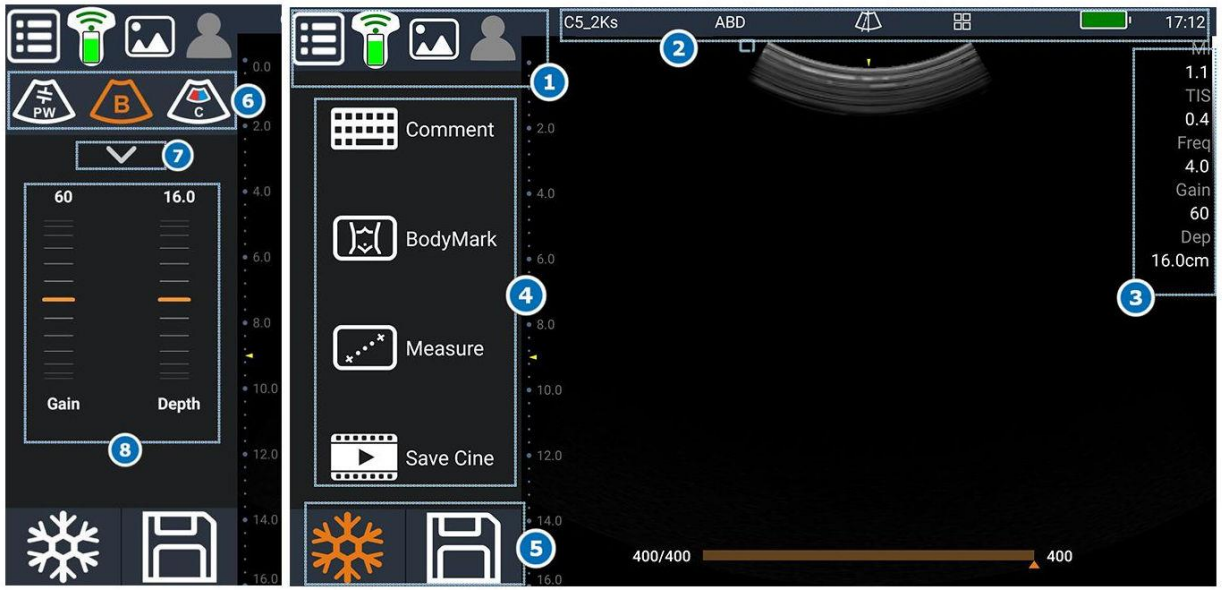


iOS WiFi Probe
Password: 12345678

Toggle off iOS Probe WiFi “Auto Join”

Scan Screen

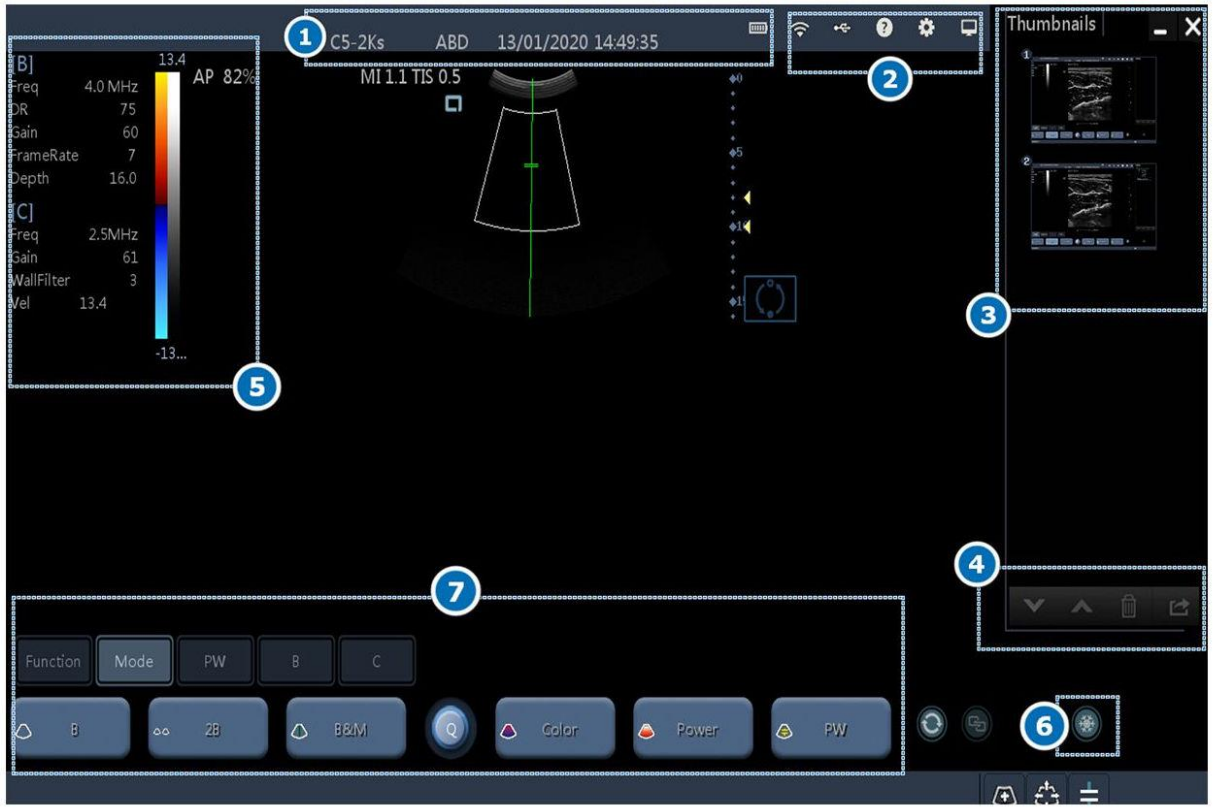
(1) Android or iOS



1. Main Menu, WiFi Signal, Probe Battery, Thumnail, Patient Info.
2. Probe Model, Exam Type, Biopsy Guide, Grid, Smart Device Battery, System Time.
3. List of Parameters, Gray Scale.
4. Functions.
5. Freeze / UnFreeze, Image Save
6. Pulsed-Wave Doppler Mode / Update, B / M Mode, Color / Power Doppler Mode.
7. More Parameters Adjustment.
8. Depth Adjustment, Gain Adjustment.

Scan Screen

(2) Windows



1. Probe Model, Exam Mode, System Time, Scanner Battery.
2. WiFi Signal, USB Connection, Manuel, System Setting, Task Manager.
3. Thumbnails, Minimize / Exit.
4. Page Down, Page Up, Delete, Export for Thumbnails.
5. List of Parameters, Gray Scale.
6. Freeze / Unfreeze.
7. Softkeys Control Area

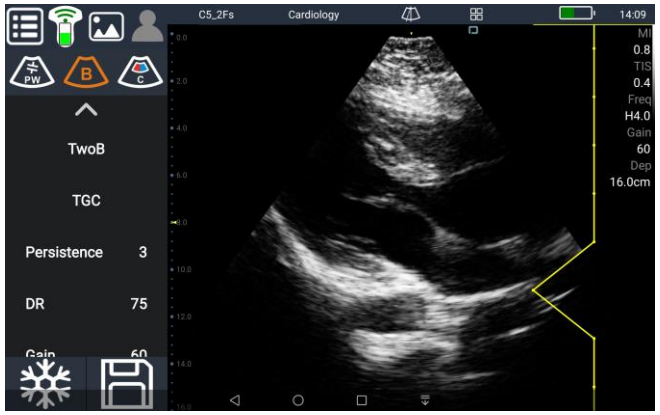
Left click the "Mode" soft key, select Imaging Mode.
(PW Mode: Click update icon and get the spectrum).

Parameters-B

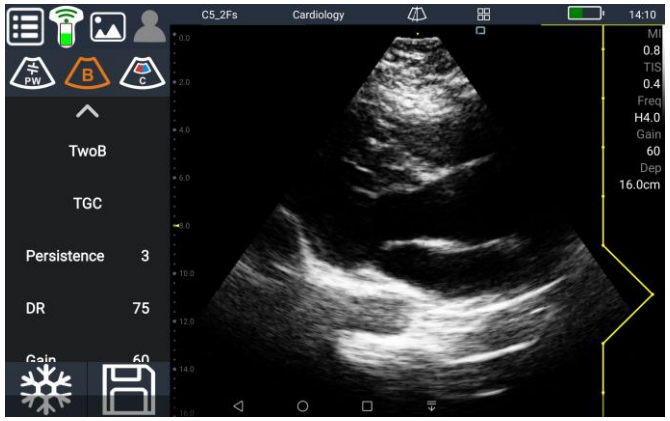
- Gain

Increase to get bright image, Decrease to get dark image

- TGC（Time Gain Compensation）



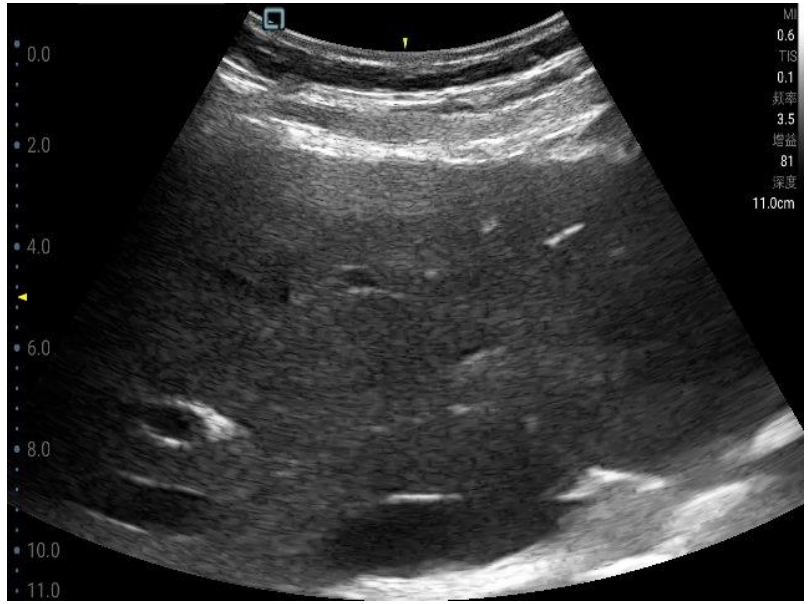
TGC drag left, dark



TGC drag right, bright

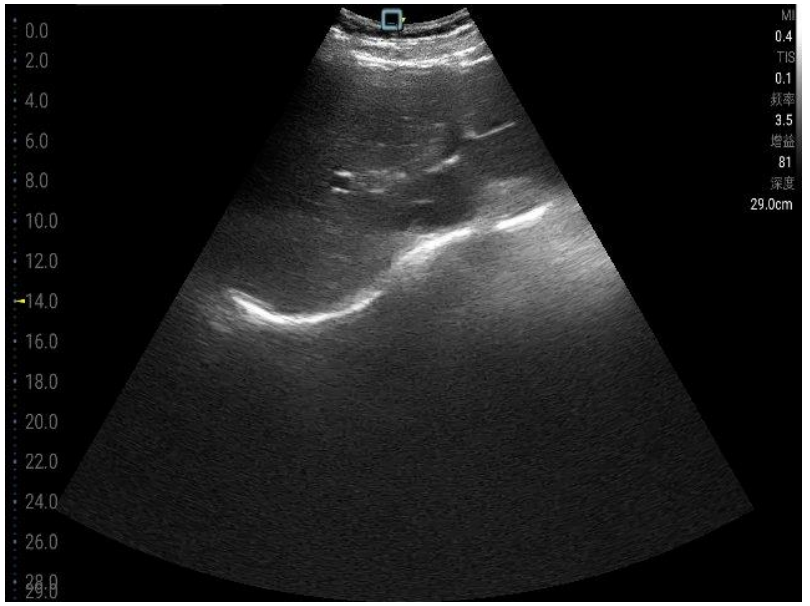
Parameters-B

- Depth



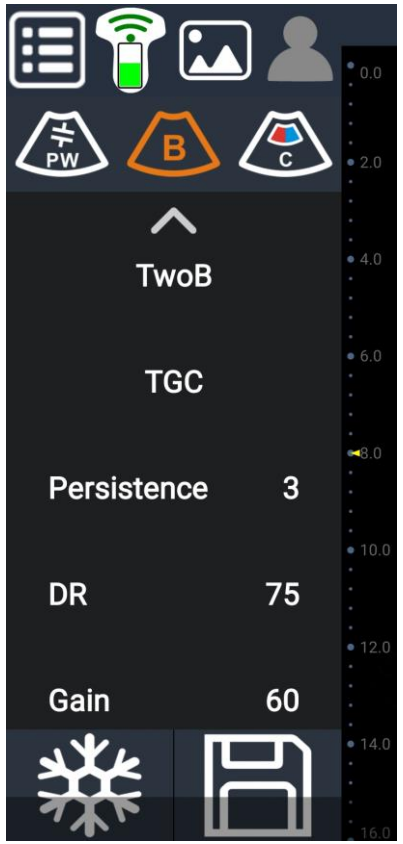
too shallow

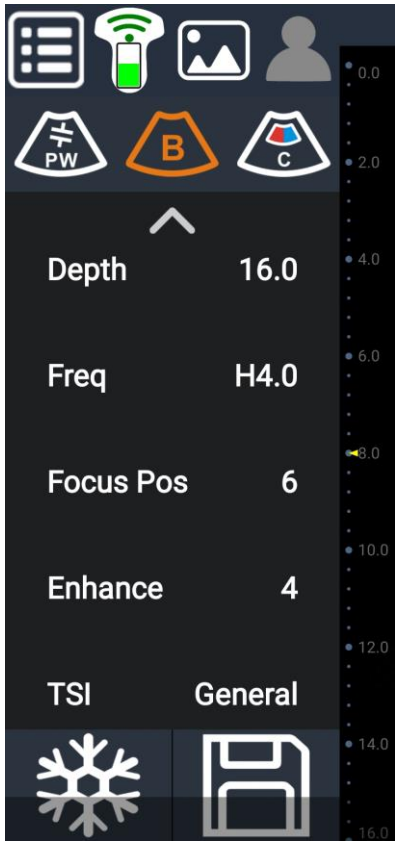
proper

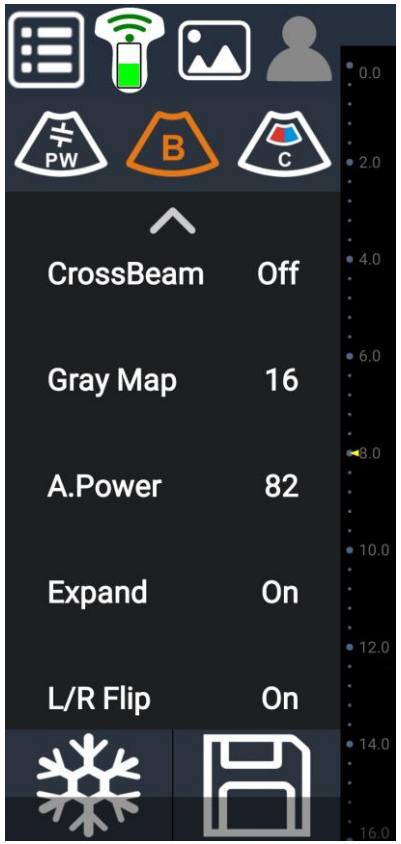


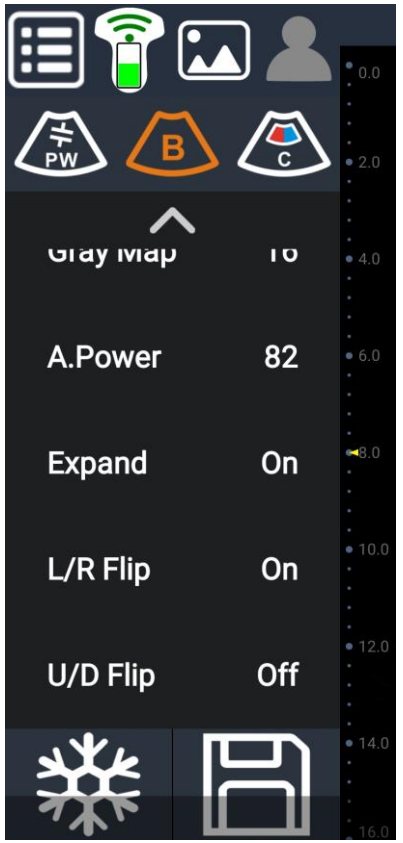
too deep

Parameters-B

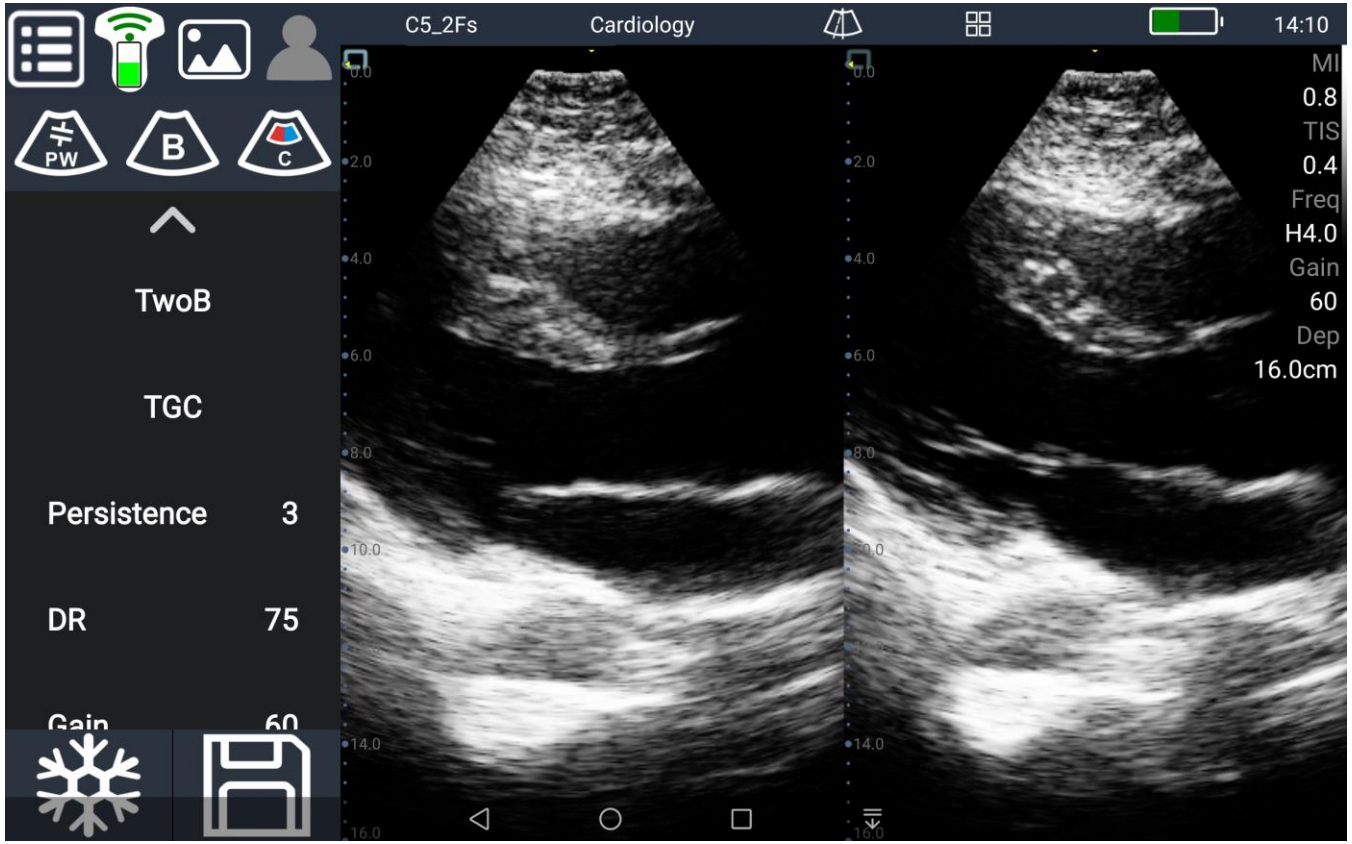








2B Mode


C5_2Fs
Cardiology
14:10
PW
B
C
TwoB
TGC
Persistence 3
DR 75
Gain 60
MI
0.8
TIS
0.4
Freq
H4.0
Gain
60
Dep
16.0cm

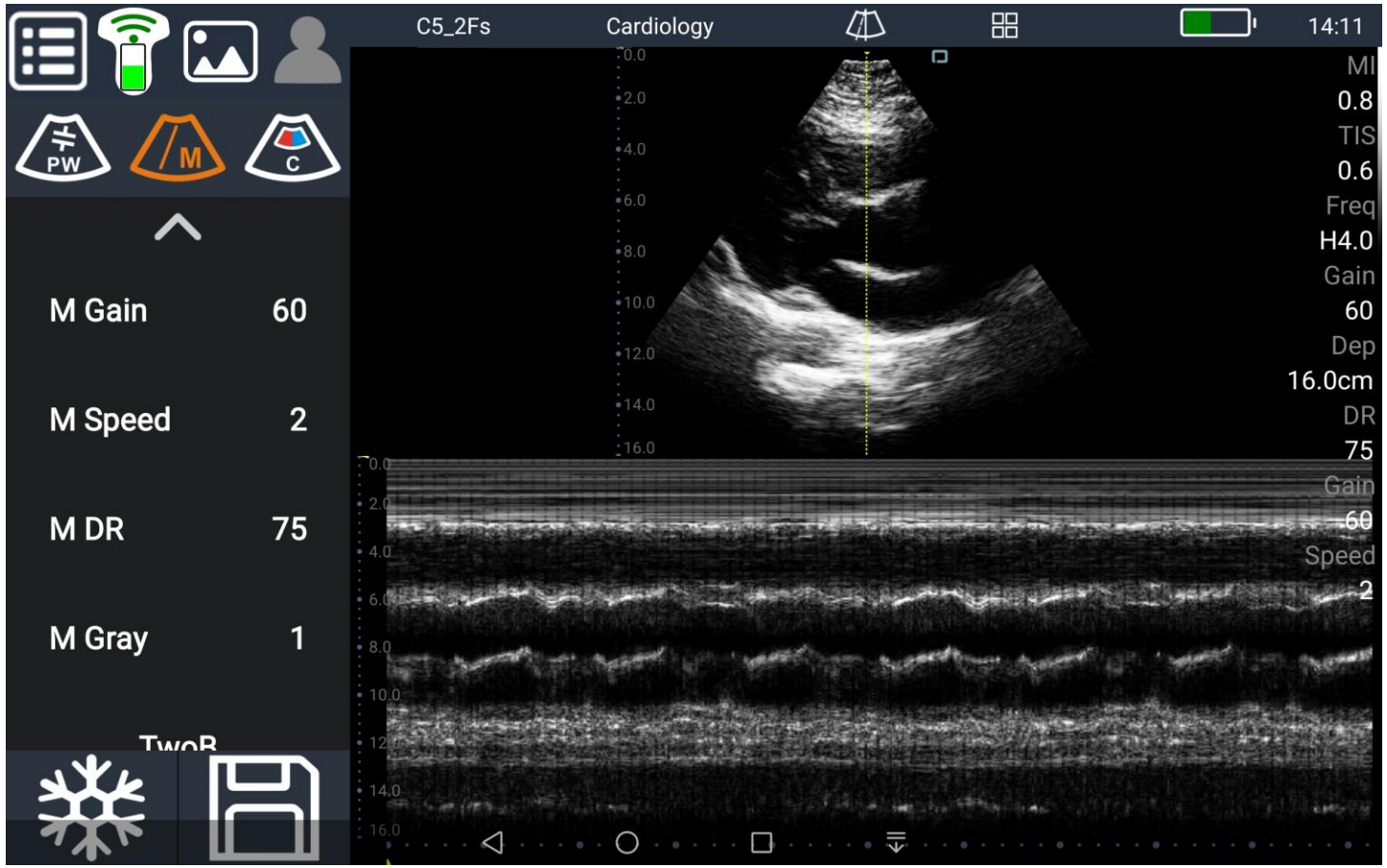
Parameters-M

- M Speed:

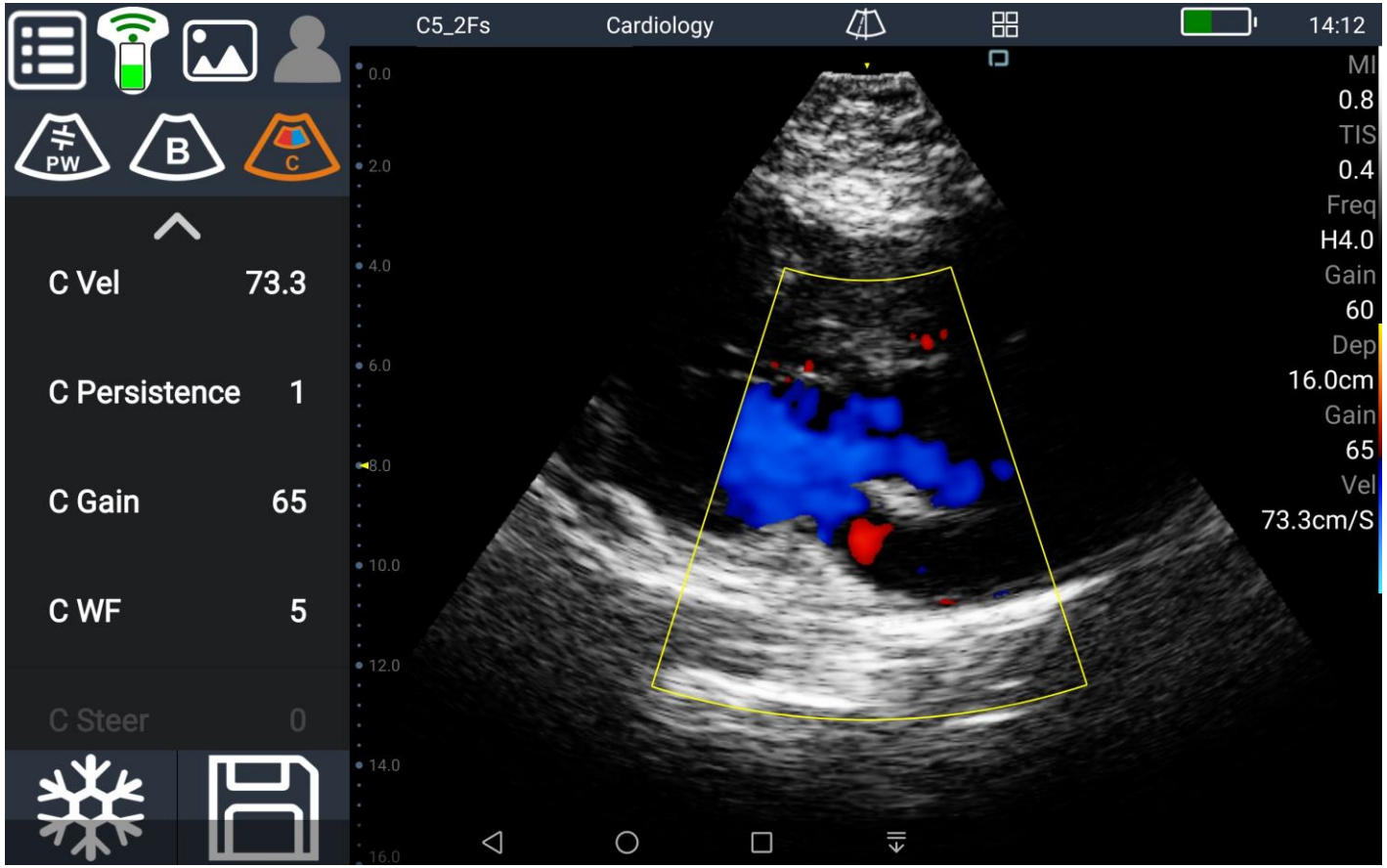
1- Fast speed

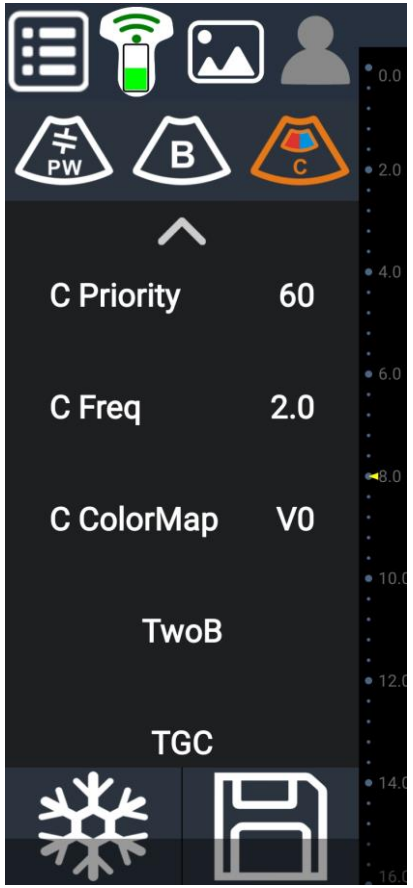
2- Middle speed

3- Low speed



Parameters-Color Doppler



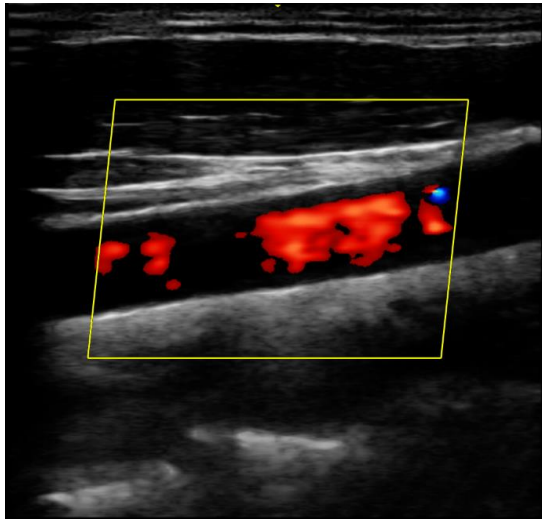


Parameters-Color Doppler

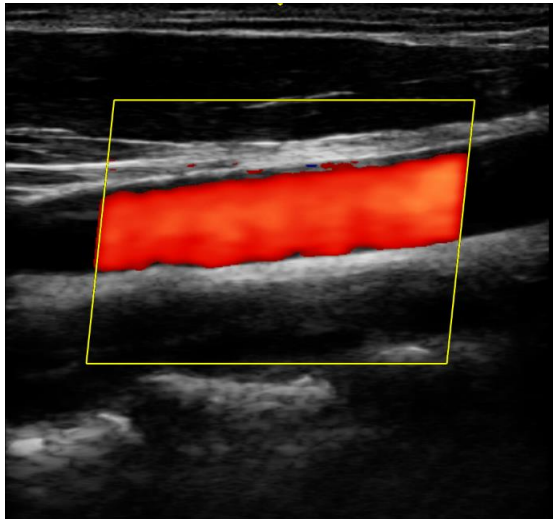
- C Gain:

  Adjust the sensitivity of the blood flow.

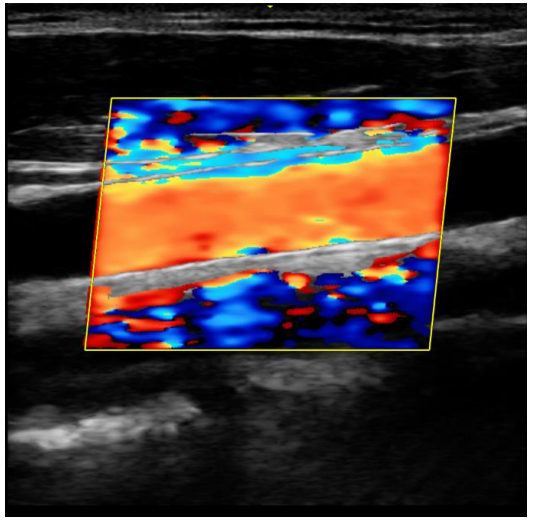
Too low



Proper

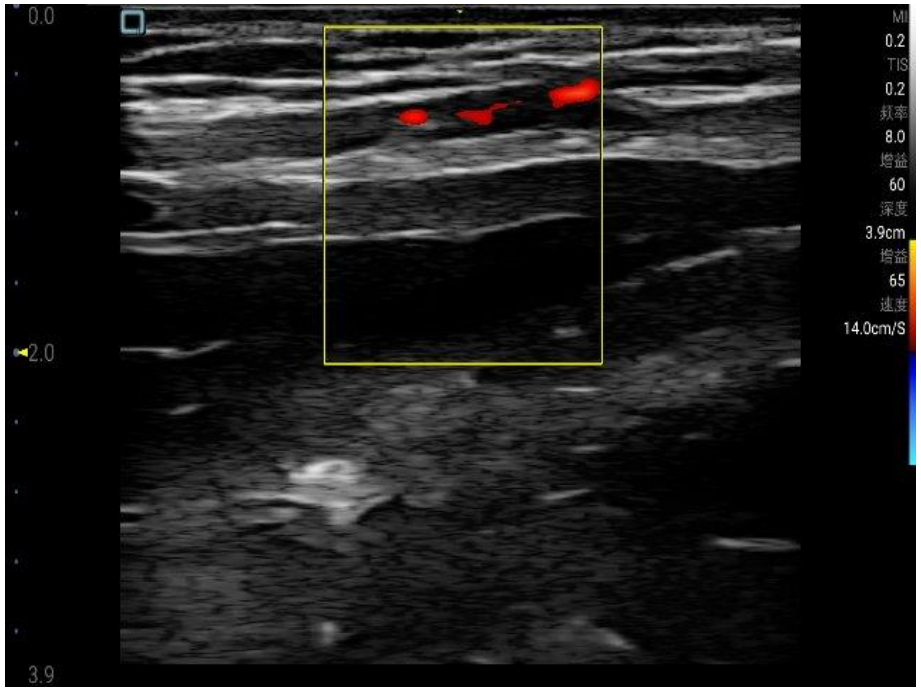


Too high



Parameters-Color Doppler

- C Vel
  Adjust the highest velocity that the probe can detect.

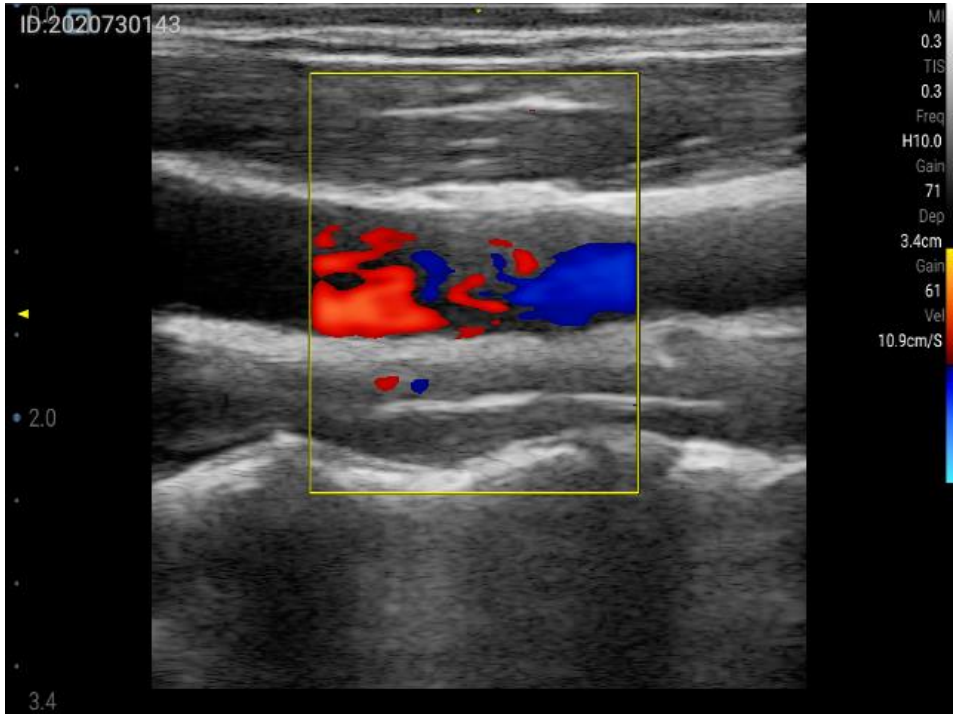


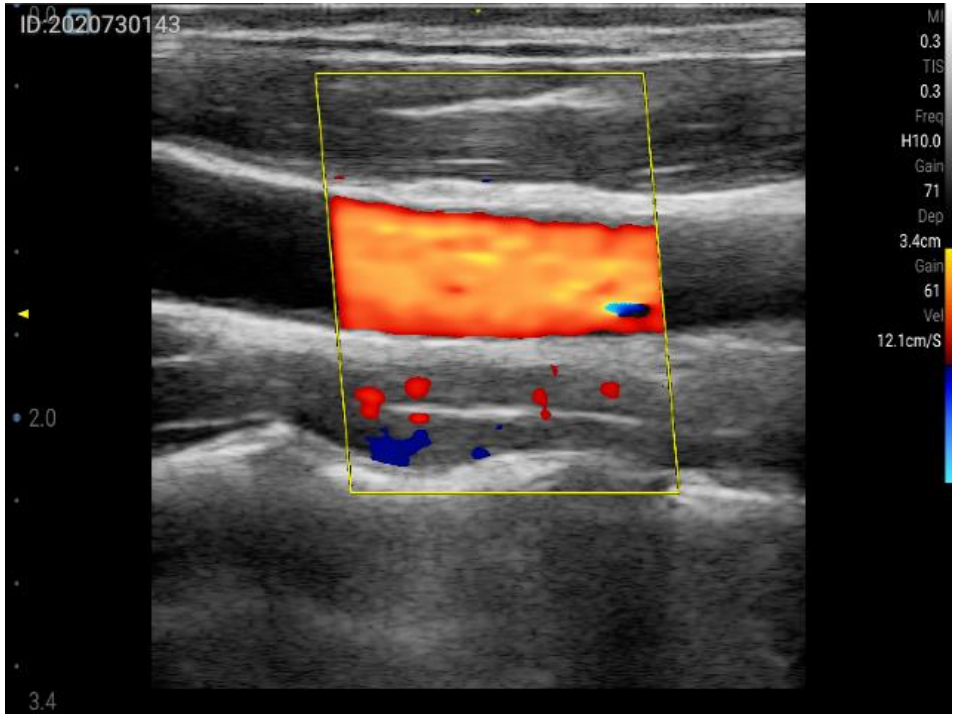
Too high

Too low

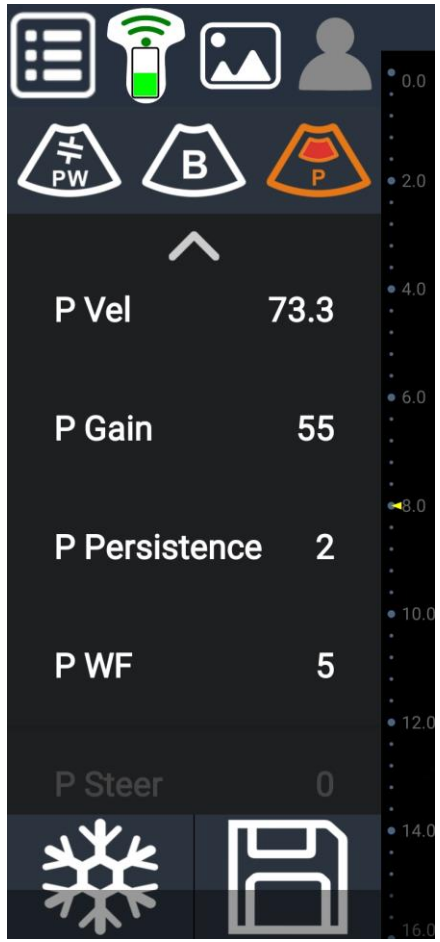
Parameters-Color Doppler

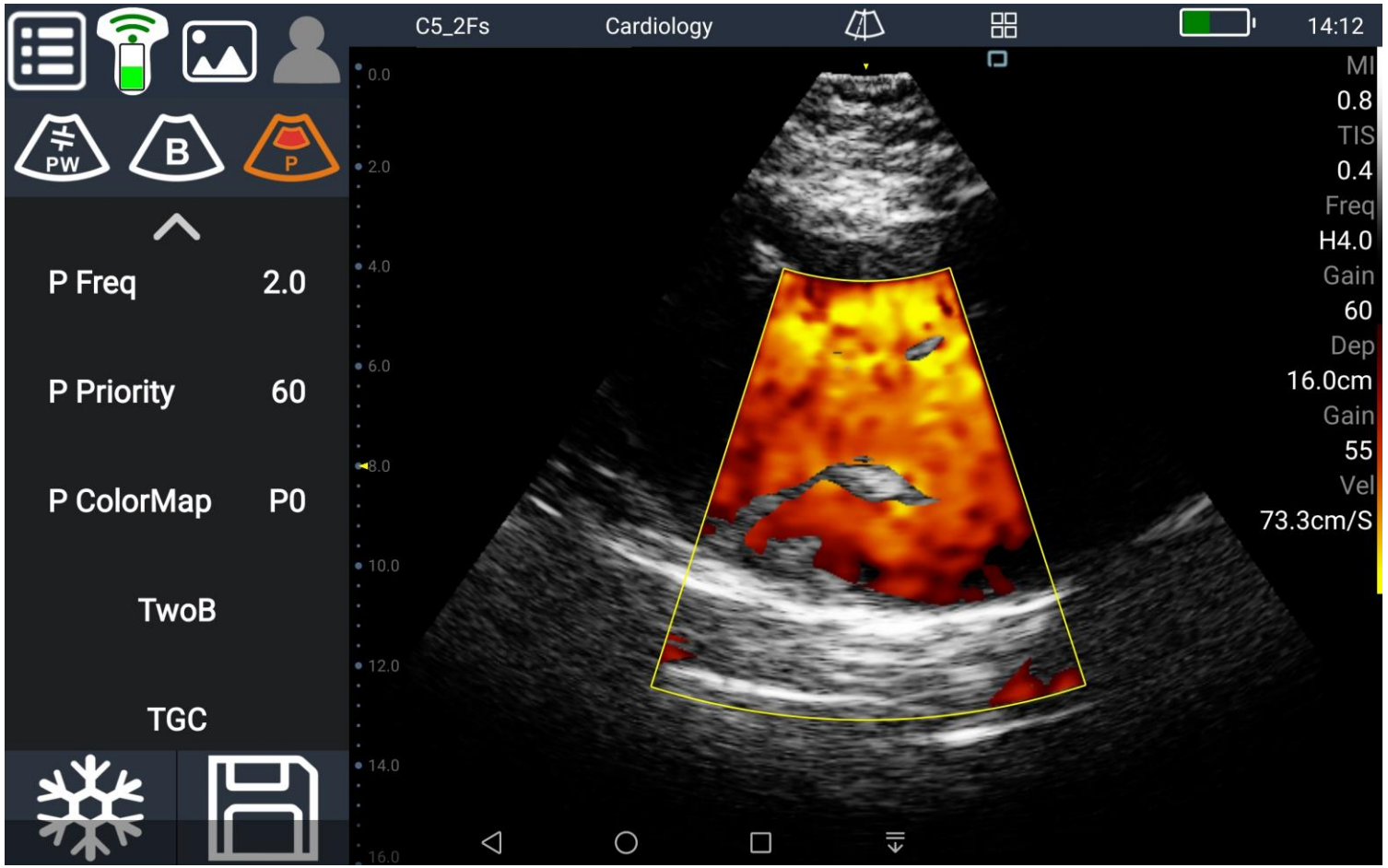
- Steer:
  See blood flow in a better way with linear probe.



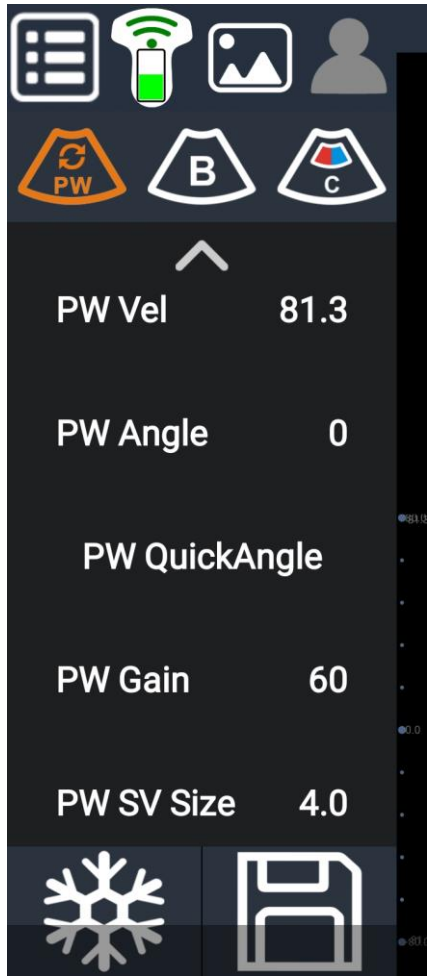


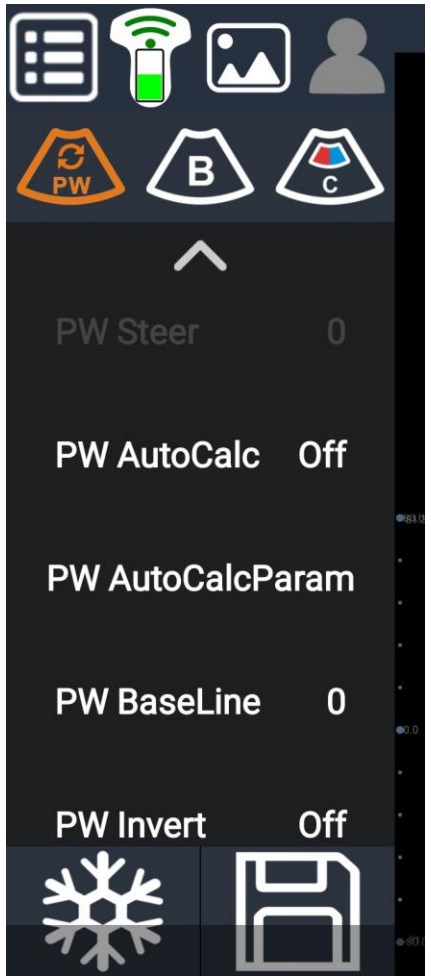
Parameters-Power Doppler

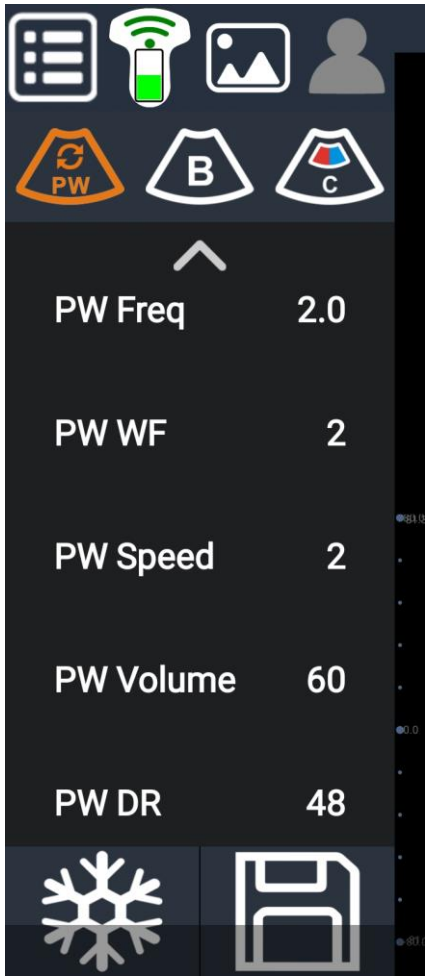


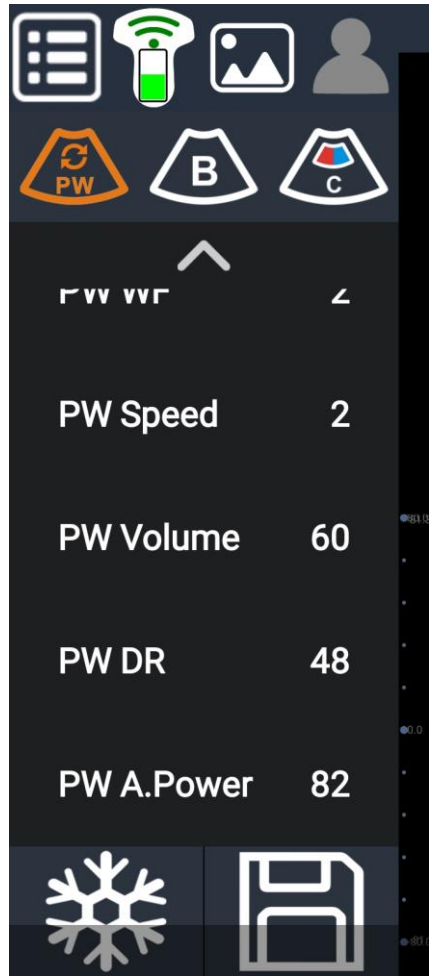


Parameters-PW Doppler

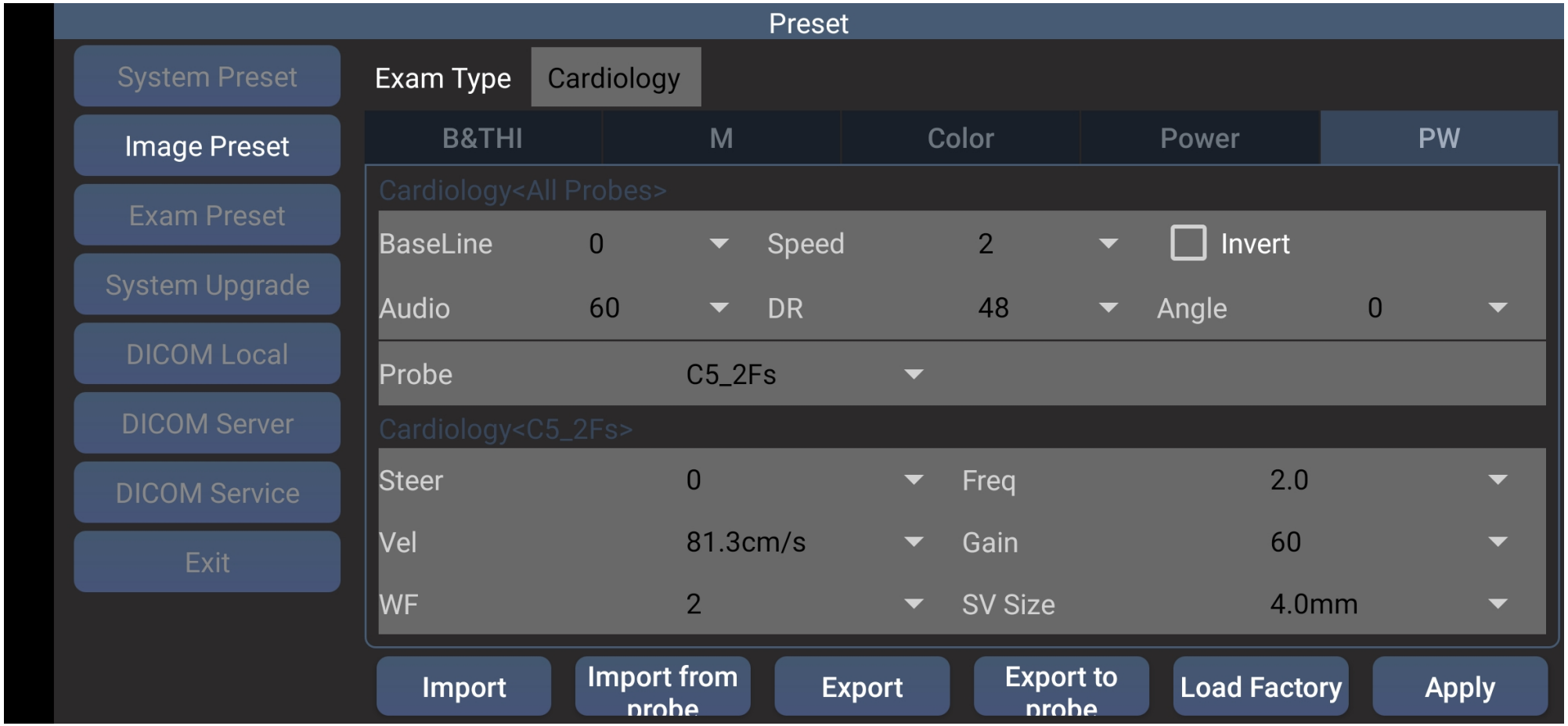




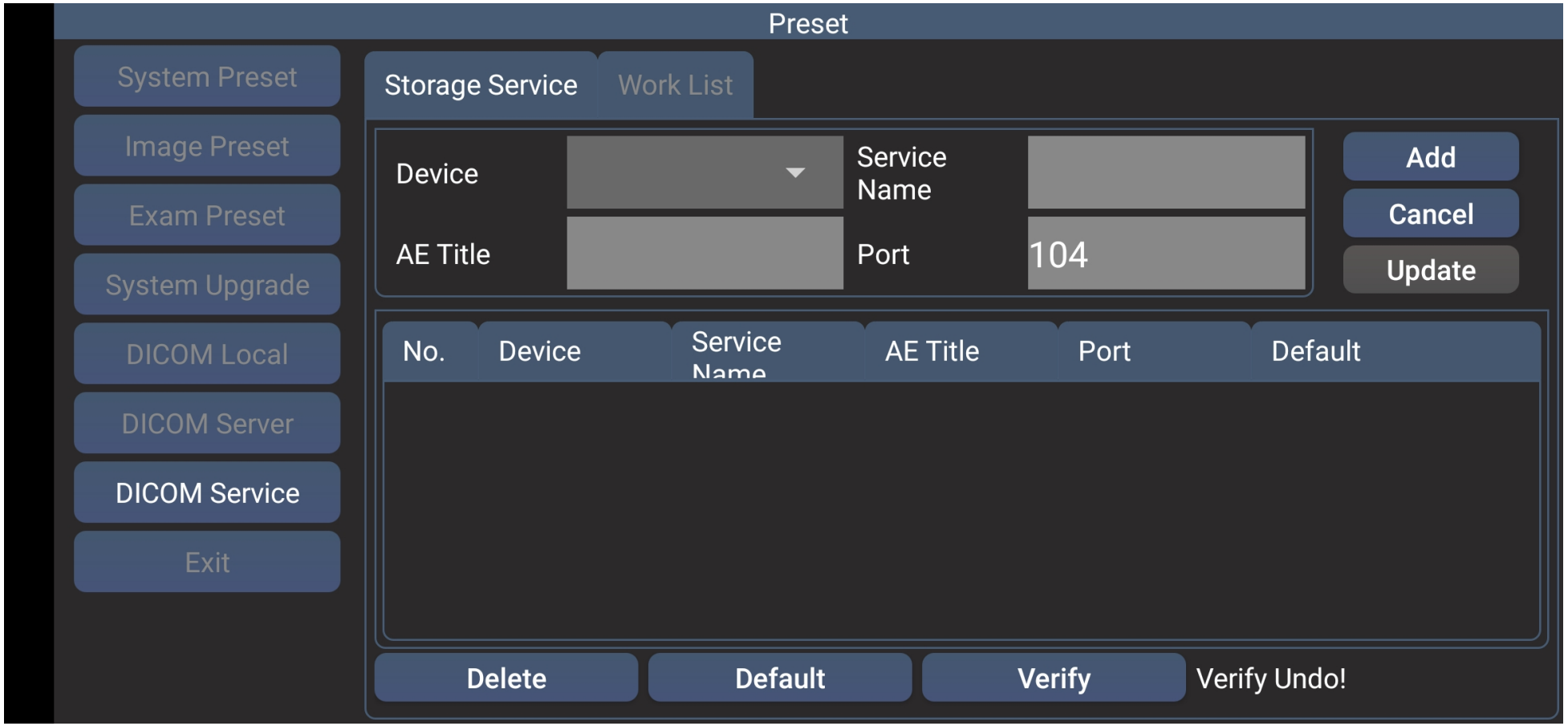




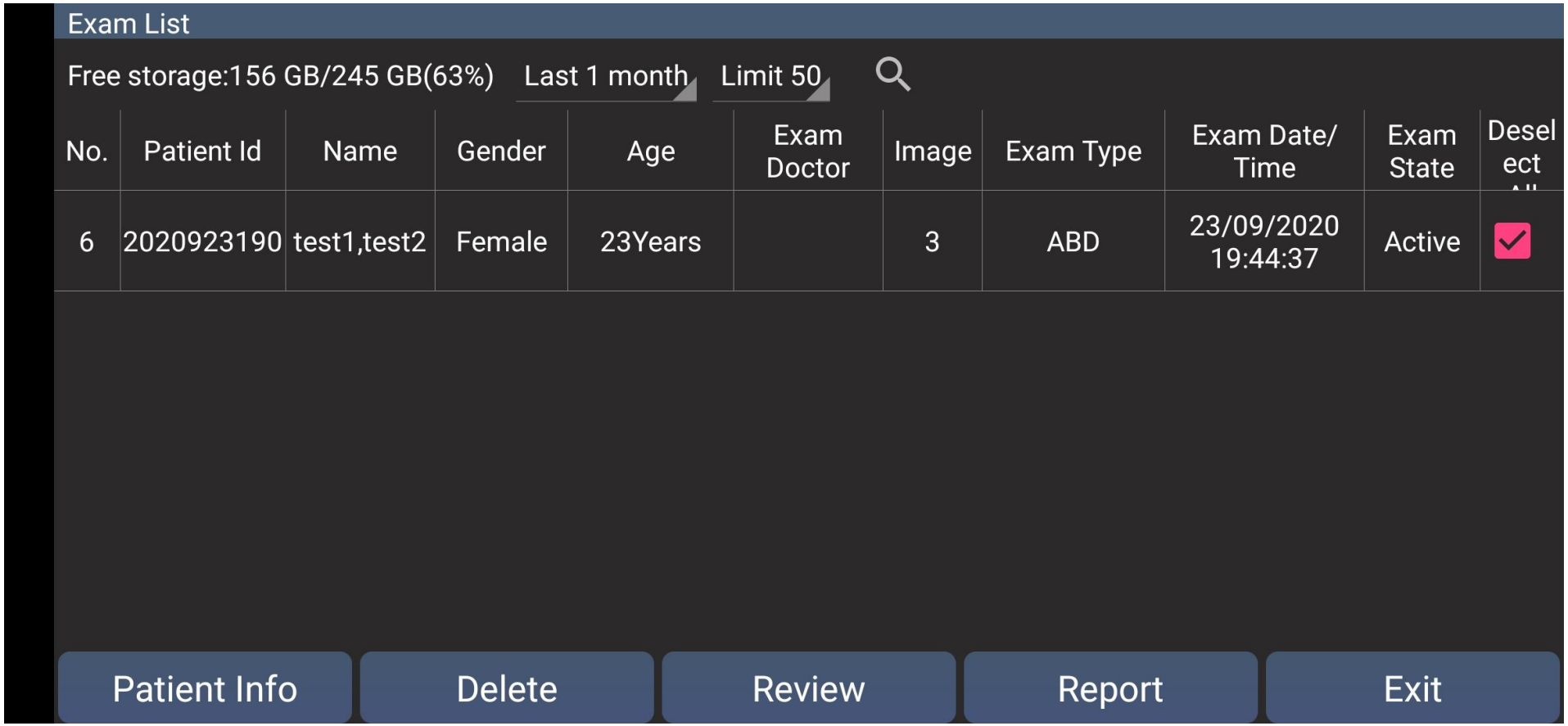
Software-Parameters Preset



Software-DICOM



Software-Exam List



Note:

- One wireless scanner can only be connected to one display device
- Connect the probe head firmly to the probe main unit then turn on the Youkey scanner
- Turn on the location permission to run software correctly
- Freeze or turn off the scanner then change probe head
- Turn off the scanner then charge it
- Do not use the scanner when charging, use the special charger to charge it
- Use special wipes to clean and disinfect the scanner, and use probe cover when necessary
- Clean the probe after using, especially to clean the gel on the probe head

FAQ:

- Can’ t find the probe WiFi, check out the display device location permission
- Can’ t connect the probe WiFi, check if the probe had been connected to another display device already. Disconnect it first
- No images, replug the probe head and clear the background software and reopen the SonoiQ software
- Due to the difference of the display devices, the scanner may not work in the best performance. Please choose the tested display device