Wireless Probe Type Ultrasound Scanner

Quick Operation Guide

NOTE

When you purchase a high version of the probe, if you use IPad, please use the iPair air 2 or above configuration, otherwise it may flashback or slowly.

Other non-mainstream or new Android phones / tablets may not be supported.

Do not soak the product in liquid or use plasma disinfection, otherwise it will cause short circuit and burn out.

1. Install software APP

Scan below QR code, or on APPStore of iPad and iPhone, GooglePlay of Android tablet and phone, search "WirelessUSG", can download our APP and install.

iPhone/iPad APP

Android APP

Windows APP

2. Turn on / off the probe

Press the On/Off button to turn on the power supply, and long time press to turn off. Short press(1 second) to freeze and press again to unfreeze. If it is a double-head probe, press button for 3 seconds to switch probe head.

On Off Freeze

Gain -

Battery capacity

Depth adjustment

Gain +

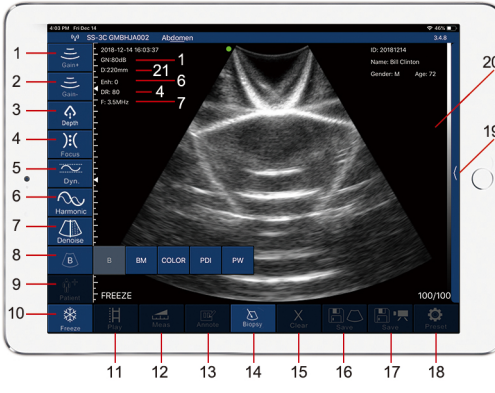
Wireless signal status

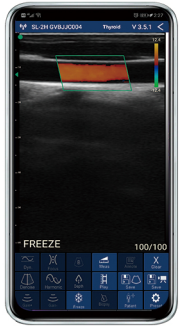
1. Button for Power ON/OFF & LIVE/FREEZE
2. Battery Capacity Indicator
3. Wireless Connection Indicator
4. Depth adjustment Button: The image can be enlarged by pressing the key once and returning to the normal size image after pressing the button three times.
5. Press the button to reduce the gain.
6. Press the button to increase the gain.

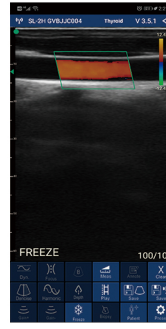
3. Wireless connection

The first connection between the probe and the smart teminal device need to enter the Wifi password. Turn on the Wi-Fi on your Phone/Tablet/PC, find the SSID on the back of the probe. The SSID is like: “SS-1 GMBFCA001”, the last number is same as last SN number on probe, enter the SN number (low case) as wifi password.

4. Interface introduction







1	Gain+	Gain +: Increase image gain
2	Gain-	Gain -: Reduce the image gain
3	Depth	Focus: Adjust the focus of the image
4	Focus	Dynamic Range: Adjusts the dynamic range of the image
5	Dyn.	Frequency: You can change the working frequency of the probe
6	Harmonic	Noise reduction: used to eliminate low-level echo caused by noise
7	Demode	Image modes: B mode, blood flow mode, energy Doppler mode, pulsed Doppler mode
8	B	B / M mode: Image B / M mode
9	Patient	Patient Information Management: Patient Information Entry
10	Freeze	Freeze / Run: Image freeze and thaw
11	Play	Movie Playback: Playback after the image is frozen

12	Meas	Measurement: distance / area / obstetric measurement
13	Annote	Comment: Enter a comment on the image
14	Biopsy	Puncture: Draw the puncture line for puncture guidance
15	Clear	Clear measurements and comments: Clear the results and comments on the image
16	Save	Save Image: Save a single image
17	Save	Save Image Video: Save entire image video
18	Preset	Settings: WIFI channel selection in order to avoid congestion
19		Image depth adjustment: up and down toggle The image area on the screen can be changed
20		TGC function menu: Click on the right (the phone is the top right).
21		Deepth： Deepth Adjustment

To pop upColor doppler imaging mode (Color, PDI)

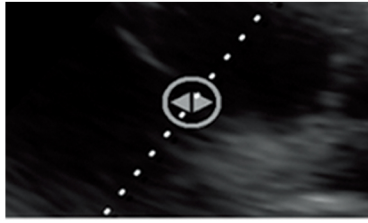
1. Steer: color sampling frame, change the direction of the color sampling frame.
2. Gain +: increase color blood flow gain.
3. Gain -: reduce color flow gain.
4. PRF: PRF is the pulse repetition frequency, and the number of pulses per second is the inverse of pulse repetition interval (PRI). The pulse repetition interval is the time interval between one pulse and the next. It can be adjusted（this function is for series 6 probes only）.

5. WF: Wall Filter is adjustable (suitable for 6 series probes), use Wall Filter to remove low-frequency and high-density noise signals. Increasing the wall filtering will filter out the tissue image moving at a low speed, whiledecreasing the wall filter will show more tissue moving.
6. Move, Zoom: change the position and size of the color sampling frame by clicking and moving with your finger.

Color doppler imaging mode (PW)

1. Gain +: increase pulse gain.
2. Gain -: reduce pulse gain.
3. Steer: color sampling frame, change the direction of the color sampling frame.
4. Volume: the equal line that can zoom and narrow to check the volume of test area.
5. Angle: used to change the angle of the spectrum sampling line in real-time scanning state.

When measuring, if you need to fine-tune the location of the measuring point, click the measuring point to make it turn green. The following button will appear on the lower right corner. Click the arrow to adjust and confirm by pressing the middle square button.



After measuring, press the delete button to delete all the measurement results. If you want to delete a certain measurement, click on the X number to the right of the result on the result.

The puncturing function includes two types of in-plane and out-of-plane puncturing. The in-plane puncturing can adjustAfter measuring, press the delete button to delete all the measurement results. If you want to delete a certain

measurement, click on the X number to the right of the result on the result. The puncturing function includes two types of in-plane and out-of-plane puncturing. The in-plane puncturing can adjust the angle by the arrow button in the lower right corner of the image. The out-of-plane puncturing can adjust the depth and size of the blood vessel and

automatically prompt the blood vessel depth and radius inthe lower right corner of the image.

5. Preset

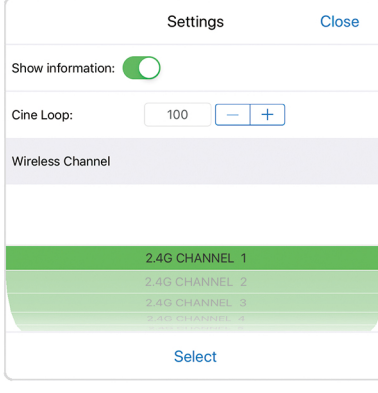
In the WIFI crowded environment, the user can choose different WIFI channel for the probe. Press "Preset" key, then pop up the signal channel selection list, click select

channel. After 2 seconds, please restart the probe and connect with the intelligent terminal again.

Cine Loop: There are several video time for you choose when save video, No. 100 means 10 seconds video, No. 200 means 20 seconds video.

The system also has the DICOM function, the Android client's file storage location in the file management - internal storage device - WirelessUSG.

Apple client's file storage location: USB cable connected to the computer to download iTunes software-open iTunes and connect device - file sharing -wireless ultrasound -wirless ultrasound documentation. Show information: Data suchas Time, Depth, Denoise, Gain in the upper left corner, can be hidden and display.



6. Maintenance

6.1 Probe charging

When battery is insufficient, the probe needs charging. Pull out the rubber plug at the end of the probe, connect

probe and the USB charger by USB cable. When charging, battery capacity indicator light is flashing. The grid shows the electricity sufficiency.

If all four grid lights and light is not flashing, it indicates the battery is charged fully. When charging completed, please remove USB cable, then insert rubber plug into the probe end to avoid liquid and damage the instrument.

The probe can also use wireless charger. Put the probe on the wireless charging board. The wireless charging mark (diffusion waveform) under the probe is aligned with thecharging mark of the charging board to confirm that the probe power indicator is blinking. It is in a charged state.

6.2 Replacement battery

Pull out the rubber plug at the end of the probe, unscrew the two screws, and then gently scrape the connection between the shell and the sound head with a thin blade to remove the glue, and then remove the shell of the wireless probe and then remove the battery Tape, remove the battery replacement.

6.3 Cleaning

CAUTIONS >>> >>>

1.The probe cannot be immersed in any conductive liquid, so as not to corrode the probe and sheath.

2. The depth of the probe immersed in water shall not exceed the mark of the probe immersion line, and check the probe shell for cracks to avoid damage to internal components by liquid immersion.

3. Before cleaning the probe, make sure that the probe is not powered.

STEPS >>> >>>

1. After each use of the probe, use a soft cloth dampened with isopropyl alcohol (or an appropriate hospital cleaning agent) to clean the probe.
2. Disconnect the probe from the mobile device.
3. Wipe the probe for one (1) minute and until visibly clean.
4. Change the wipes as necessary and repeat the above step until the probe is visibly clean.
5. Visually inspect the probe in a well-lit area to ensure all surfaces are clean. If the probe is not clean, repeat the cleaning steps above.

6.4 Disinfection

CAUTIONS >>> >>>

1.The liquid chemical disinfectant in should in accordance with local regulations.

2.It is forbidden to thermally disinfect the probe under any circumstances. If the temperature exceeds 66°C (150°F), the probe will be damaged.

3.When disinfecting and immersing the probe, it is forbidden to let the disinfectant pass the probe connection line.

STEPS >>> >>>

1. After the disinfection time is reached, remove the probe from the disinfectant.
2. Rinse the probe with flowing water, then wipe the probe and dry with a soft lint-free cloth.
3. Once clean and disinfected, visually inspect the probe for signs of damage or wear.

Disinfectant	Manufacturer	Ingredient	Concentration	Method	Time
Cidex	J&J	Glutaraldehyde	2.4%	Wipe/Soak	<20min
Resert XLHLD	STERIS	Hydrogen Peroxide	2.0%	Wipe/Soak	<8min
Glutaraldehyde	Huankai.Inc	Glutaraldehyde	2.0-2.2%	Wipe/Soak	<20min
T-spray II	Pharm.Inc	Quaternary Ammonium Salt	/	Spray/Wipe	<10min
T-spray	Pharm.Inc	Quaternary Ammonium Salt	/	Spray/Wipe	<10min

6.5 Waterproof protection

Probes in the wild and other harsh environments, please pay attention to the probe and intelligent terminal equipment waterproof protection.

6.6 Storage

When not using the probe, please place the probe in a suitable package to avoid the impact of violent impact on the probe. And to avoid contact with the probe too high temperature (suitable storage temperature: 0 ° ~40 °).