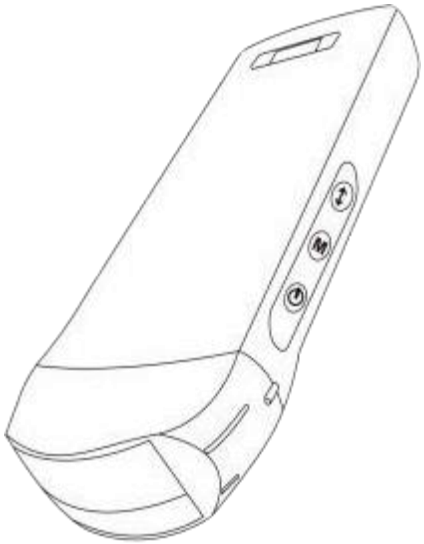
Three-in-One WiFi Pocket Ultrasound System

Instruction Manual

(V1.7)



IMPORTANT!

Read and understand this manual before operating the equipment. After reading, keep this manual in an easily accessible place.

Contents

Scan the QR code for User Manual EN/DE/IT/ES/FR

Contents

Production enterprise name: Beijing Konted Medical Technology Co., Ltd.

Registered address: Room 111,1F, Building 3, No. 27,Yongwang Road, Daxing Biological Pharmaceutical Industry

Production address: Room 111,1F, Building 3, No. 27,Yongwang Road, Daxing Biological Pharmaceutical Industry

Zip code:102629

Tel: 8610-60219113

Fax: 8610-60219213

Customer service: Shenzhen Viatom Technology Co., Ltd.

Add.: 901, Building West, Lepu Tower, No.66 Xingke Road, Xili Community, Xili Street, Nanshan District, Shenzhen, 518055, Guangdong, P.R. China

Web: www.viatomcare.com

Tel.:86-755-23729241

Email: marketing@viatomcare.com

Product: Pocket Ultrasound System

Model: C10

Authorized European Representative:
SUNGO Cert GmbH Harffstr.47,40591 Dusseldorf,Germany Tel:+31(0)103034500
CE certificate No. CN24/00006331

CE 1639

Introduction

This manual describes the operation of the ultrasonic diagnostic equipment. To ensure the safe operation of the system, please read and understand the contents of this manual before using the system.

This specification is formulated and explained by KONTED.

This manual was published in December 2018 and fourth revised in December 2024.

KONTED reserves the right to change the contents of this instruction manual without prior notice.

Important statement!

1. The part or all of the contents of this manual shall not be copied or copied prior to the written permission;
2. It is forbidden to modify the software or hardware of this product;
3. The utility model can provide the doctor with the image and data needed for clinical diagnosis, and the doctor is responsible for the diagnosis process;
4. Quality assurance does not include the following, even within the warranty period:

(1) Damage or loss caused by improper installation or environmental conditions that over the specs;

(2) Damage or loss caused by the supply voltage over the specs;

(3) Damage or loss of equipment or components purchased not from KONTED or its authorized distributor or agent;

(4) Damage caused by not using in accordance with the instructions;

(5) Damage or loss caused by maintenance of non-authorized personnel of the company;

(6) Damage or loss caused by force majeure such as fire, earthquake, flood or lightning;

(7) Damage or loss caused by misuse or rough handling;

(8) Failures caused by factors unrelated to the product itself.

Maintenance and Repair Service

The standard warranty period is 18 months from the date the product leaves the factory. During this period, the product is eligible for free customer service. However, please note that even within the warranty period, if maintenance is required due to issues listed on the "Important Statement" page, Viatom will charge for maintenance services, including the costs of repairs and spare parts.

Viatom can provide repair services after the warranty period. But please note that if you do not pay or delay paying the repair fee, Viatom will temporarily stop the repair service until payment is received.

We now declare that you must be familiar with the operating instructions before using and using the product strictly per the requirements and methods outlined in the manual. The company is not responsible for any abnormalities caused by failure to operate, use, maintain, and store following the requirements of this manual and is not responsible for safety, reliability, and performance guarantees.

Operational Taboos:

⚠ **Danger** ※ Do not modify this equipment, including components, software, cables, etc. User modifications may result in security problems or reduced system performance. All necessary changes must be completed by personnel approved by Viatom.

Intellectual Property Statement

1. Safety Precautions

1.1 Security Classification

- According to the type of anti-electric shock:
  Internal power supply, where the adapter is ClassII
- According to the degree of anti-electric shock:
  Type BF application part;
- According to the liquid ingress protection rating, the device is rated IPX5, while the probe head is rated IPX7.
- According to the degree of safety in the presence of flammable anesthetic gas mixed with air (or oxygen, nitrous oxide two);
- According to the working mode:
  Continuous working equipment.

1.2 Security Symbol

Security Symbol	Detailed Description
	**Type BF application part** **Description: all the ultrasonic probes are part of the BF application.**
	**"Caution" indicates what should be noted. Be sure to read the instructions carefully before using the system.**

1.3 Safety Warning Information

To ensure the safety of both the patient and the operator, the following safety rules must be strictly observed when using the wireless ultrasonic probe

WARNING:

1. Do not disassemble the ultrasonic probe, which may cause electric shock.
2. Please use the power cord that comes with the machine; only use the power supply provided by KONTED; using other dedicated power supplies (such as UPS, etc.) to power the ultrasonic probe may cause the risk of electric shock.
3. Use the probe carefully. If the probe's contact surface with the human body is scratched, stop using it immediately and contact a service representative. You may risk electric shock if you use a scratched probe.You must check the instrument for safety every time you use it.
4. Do not let the probe impact the damaged ultrasound probe, which may cause the patient to be shocked.
5. Inspect the instrument for safety before each use. Ensure that no one comes into contact with any damaged ultrasound probes, as this may lead to an electric shock to the patient.
6. During an ultrasound cavity examination, always wear a sterile probe cover on the transducer.
7. Do not immerse the Type-C USB interface of the ultrasonic probe or the area above it in water or disinfectant. The Type-C USB interface is not waterproof, and immersion may result in electric shock or cause the probe to malfunction.
8. Ensure that the ultrasound device functions normally before and after each inspection. A defective ultrasonic probe may result in an electric shock to the patient.

CAUTION:

1. Clinical Test Technology Precautions:

- **This equipment can only be operated by qualified medical personnel.**
- This manual does not introduce a clinical examination technique，Users must rely on their professional training and clinical experience to select the appropriate inspection techniques.

2. The duration of body examination should be minimized and limited to only the time necessary to make a diagnosis.

3. Do not use incompatible coupling agents, disinfectants, probe protective cover, probe or puncture rack.

4. Sterile gloves must be worn to prevent infection when using ultrasonic probes.

5. You must use sterile ultrasound gel following local regulations. In addition, the use of ultrasound gel must be managed to prevent it from becoming a source of infection.

6. The probe cover is made of natural rubber. People who are allergic to natural rubber should use it with caution.

7. For the in-vivo transducer under single-fault condition, the surface temperature rise shall not exceed 43°C.

CAUTION:

1. In order to prevent abnormal probe function, read the following safety precautions:

After each ultrasound examination, thoroughly clean the probe surface to remove the ultrasound gel promptly, as failure to do so may cause the gel to solidify and degrade image quality. Additionally, ensure the probe is cleaned and disinfected before and after each use.

2. Ambient environmental requirements:

Please use the ultrasonic probe in the specified environment:

- ambient temperature: 0°C ~ 35°C
- relative humidity: 30% ~ 85% (No condensation)
- Atmospheric pressure: 70kPa ~ 106kPa.

To prevent damage to the ultrasonic probe, do not expose the probe to the following environment:

- A place where the sun shines.
- A place where the temperature changes dramatically.
- A place filled with dust.
- A place easy to vibrate place
- A place near the heat source

3. Repeated disinfection may affect the safety and performance of the probe. Therefore, the performance of the probe should be regularly checked.

1.4 WARNING Labels

The system incorporates a range of warning indications to alert users to potential safety hazards.

The symbols displayed on the warning signs ⚠ provide essential information regarding system security precautions. It is imperative to thoroughly understand the significance of these warning signs by consulting the provided instructions.

Please read the instructions in detail before operating the system.

1.5 Ultrasound Benefits and Risks

Ultrasound is widely used because it provides many clinical benefits to the patient and has an excellent safety record. Ultrasound imaging has been used for over twenty years and there have been no known long-term negative side effects associated with this technology.

1.5.1 Ultrasound Benefits

- Portability
- Cost-effectiveness
- Multiple diagnostic uses
- Real-Time Images
- Safety record

1.5.2 Ultrasound Risks

Ultrasound waves inherently produce a mild heating effect, which is not harmful to tissues. The transducer may exhibit a warm sensation during the charging process, a condition that is considered normal. Upon completion of charging, it is advisable to allow the transducer to cool down before application. This practice is recommended to ensure optimal performance during scanning sessions. The system is designed to strictly regulate patient contact temperatures, ensuring that the scanner does not exceed 43°C (109°F). Therefore, allowing the transducer to reach a safe temperature prior to use will enhance the efficiency and safety of the scanning process.

2 Product Overview

2.1 Intended Use

It is designed to fulfill the following intended uses: Obstetrics, Gynecology, Abdominal and Small Parts (e.g., breast, thyroid, testicles), Cardiology, Peripheral Vascular, Musculoskeletal, Nerve, Urology, Orthopedics, Angiography, Physical Examinations, Digestive System, Pediatrics, and Paracentesis

2.2 Contraindications and Clinical Limitations

The product is not intended for use in examining gas-containing organs, such as the stomach and intestines. Additionally, if the product has been exposed to heat or if the surface has been burned or damaged, it must not be used on the affected area of the body.

2.3 Product Specifications

2.3.1 Imaging Modes

B mode

BM mode

C mode

PW mode

PDI mode

2.3.2 Power Specifications

External Power Adapter

Supply Voltage AC: 100 - 240V

Power Frequency: 50/60Hz

Output DC: 5V/2A

Built-in Battery

Voltage: 3.8V

Capacity: 2200~4200mAh

2.3.3 Environmental Conditions

Working Environment

Ambient Temperature	0°C ~ 35°C
Relative Humidity	30% ~ 85%
Atmospheric Pressure	70kPa ~ 106kPa

Storage and Transportation Environment

Ambient Temperature	0°C ~ 45°C
Relative Humidity	30% ~ 95% （No condensation）
Atmospheric Pressure	70kPa ~ 106kPa

WARNING:

Transportation:

Ensure that the system is operated and stored within the environmental conditions specified in the user manual. Using or storing the system outside these parameters may result in damage to the equipment or reduced performance.

Operation:

1. Ensure a secure grip on all equipment in use; failure to do so may result in equipment drop page, potentially causing injury to the patient.
2. To ensure the equipment remains in a dry environment, be aware that fluctuations in operational ambient temperature and humidity may cause condensation on the circuit board, posing a risk of electrical short circuits.
3. Do not operate the unit in an environment with flammable or explosive liquids, vapors or gases such as oxygen or hydrogen. A malfunction of the device or sparks from the fan motor could potentially ignite these substances through electronic ignition.
4. In the event of system malfunction, do not attempt to disassemble the device.Instead, contact the authorized service center or your designated sales representative for further assistance.

2.3.4 Probe Outline Dimensions and Weight

Probe Model	Probe Size	Weight
	GEN1 probe	
C10R	157(h)x70(w)x30(d) mm	239g
	GEN2 probe	
C10RL	123(h)x53(w)x22(d) mm	120g
	GEN3 probe	
C10RN	157(h)x70(w)x30(d) mm	235g
C10LN	157(h)x70(w)x30(d) mm	217g
C10SN	157(h)x70(w)x30(d) mm	210g
C10T	155(h)x67(w)x29(d) mm	227g
C10QT	346(h)x69(w)x28(d) mm	304g
	GEN4 probe	
C10CL	157(h)x70(w)x30(d) mm	221g
C10MB	150(h)x65(w)x25(d) mm	155g
	GEN4 Pro probe	
C10CX	157(h)x70(w)x30(d) mm	223g
C10CT	157(h)x70(w)x30(d) mm	240g

C10CS	157(h)x70(w)x30(d) mm	212g
C10RS	157(h)x70(w)x30(d) mm	221g
C10RL Pro	123(h)x56(w)x27(d) mm	170g
C10H	157(h)x70(w)x30(d) mm	229g
	GEN5 probe	
C10	157(h)x70(w)x30(d) mm	227g

2.4 System Configuration

The system is mainly composed of probe and application.

2.4.1 Standard Configuration

- Main unit probe: 1 set
- USB Cable: 1 set
- Wireless charger: 1 set
- Plug: American Standard or British Standard Plug
- Accessory: Operation manual
- Wrist Strap: 1 set

2.4.2 Components

Transducer Type

Transducer Model	Type of Transducer	Intended Use	Applicable Site	Mode
C10RN	3.5/5MHz Convex probe	Gynecology and obstetrics, abdominal kidney	Body surface	B, B+M
C10LN	7.5/10MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M
C10SN	10/12MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M
C10R	3.5-5MHz Convex probe	Gynecology and obstetrics, abdominal kidney	Body surface	B, B+M
C10CL	7.5/10MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M, C, PW, PDI
C10CX	7.5/10MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M, C, PW, PDI
C10CT	3.5/5MHz Convex probe	Gynecology and obstetrics, abdominal kidney	Body surface	B, B+M, C, PW, PDI
C10CS	10/14MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M, C, PW, PDI
C10RS	5/7MHz micro -convex probe	Gynecology and obstetrics, abdominal kidney	Body surface	B, B+M, C, PW, PDI
C10H	7.5/10MHz Linear probe	Small organ, carotid artery	Body surface	B, B+M, C, PW, PDI
C10T	3.5/5.0MHz, 7.5/10MHz, 2.5/5.0MHz	Ultrasound examination	Body surface	B, B+M, C, PW, PDI

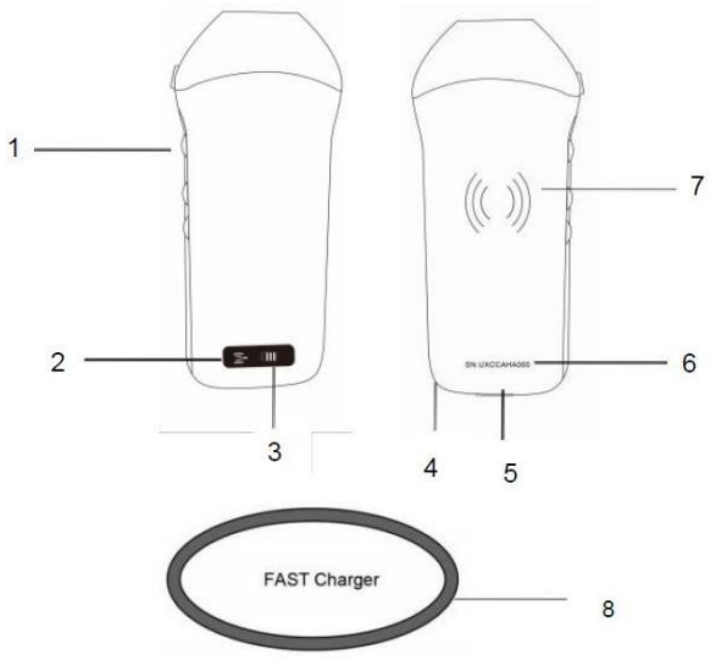
C10QT	3.5-5MHz, 6.5-8MHz, 2.5/5.0MHz	Ultrasound examination	Body surface	B, B+M, C, PW, PDI
C10MB	16-20MHz	Small organ, carotid artery	Body surface	B, B+M, C, PW, PDI
C10RL	3.5/5.0MHz, 7.5/10MHz, 2.5/5.0MHz	Ultrasound examination	Body surface	B, B+M, C, PW, PDI
C10RL Pro	3.5/5.0MHz, 7.5/10MHz, 2.5/5.0MHz	Ultrasound examination	Body surface	B, B+M, C, PW, PDI
C10	3 in 1 type	Gynecology and obstetrics, abdominal kidney, Small organ, carotid artery, Msk, Cardiac	Body surface	B, B+M, C, PW, PDI

2.5 Symbol Description

This device incorporates specific symbol identifications for user guidance. The following list delineates the meanings of these symbols.

Serial number	Symbol	Explain
1		Type BF application part explain: All ultrasonic probes are part of the BF application.
2		Please refer to the instruction manual for this symbol to avoid accidents
3	SN	Indicates the product serial number
4		Indicates the manufacture.
5	IPX7	The 7 indicates that the system is protected against the effects of immersion in water to depth between 15 cm and 1 meter.
6	CE 1639	Indicates that the product complies with the EU Medical Device Regulations(Regulation (EU) 2017/745)
7	MD	Medical device
8	UDI	Unique device identifier
9		Indicates the date of manufacture.
10		Indicates that the device must be collected separately for disposal. Follow proper disposal procedures.
11	EU REP	Authorized European Representative: SUNGO Cert GmbH Harffstr.47, 40591 Dusseldorf, Germany
12	REF	Indicates the reference or catalog number
13		Importer

2.6 System Components Overview



Number	Name	Function
1	Control buttons	Freeze/Menu/choosing
2	Wifi connecting status	Wifi connected
3	Battery status	Battery charge/remaining display
4	Wrist scrap hole	Wrist scrap hole
5	Charging port	Charging with USB cable
6	SN	Serial number=password of this probe's wifi
7	Wireless charging	Face to wireless charger
8	Fast Charger	The wireless charging pad

2.7 Operation of the Probe Mechanism

Control buttons	Button icon	Key name	Function
		Gain adjustment	Adjust the gain
		Menu button	Adjust the depth
		Power switch / freeze / thaw button	1) To activate the probe, press the designated button when the probe is powered-off 2) With the probe open, press the same button to close it. 3) During scanning operations, press the button to freeze the current screen image. 4) In the frozen image state, press the button again to release the freeze, allowing the probe to resume live scanning.

3 Basic Introduction

3.1 Software Installation Procedure

3.1.1 iPhone/iPad

Please download the iOS software from the App Store 

on your Apple iPhone or iPad. The app name is MY USG. Below are the requirements:

MY USG

App and Probe Updates:

The Apple App Store manages all associated application and probe firmware updates exclusively.

To ensure optimal performance and access to the latest features, it is essential to maintain the operating system of your smartphone or tablet device and the ultrasound application at their most current versions.

Apple Device Requirements:

- **iPhone/iPad**
  - Operating System: iOS 11.0 or later
- **Mac**
  - Not supported

Note:

- The MY USG App is designed for use on iOS devices. including iPhones and iPads, and is not supported on Mac computers. Ensure that you utilize the app on a mobile device that meets or exceeds the specified minimum system requirements. Failure to do so may impair the application's performance and image quality, potentially leading to diagnostic inaccuracies.

3.1.2 Android Device

Please download the Android software from the Google Play Store 

on your Smartphone/ Smart Tablet. The app name is MY USG. Below are the requirements:

MY USG

App and probe updates are managed through the Google Play platform.

Ensure that your mobile device's operating system and application are updated to ensure that you are utilizing the most current version.

Device Requirements

- **Smarthone/ Smart Tablet**
  - **RAM**: 2 GB or higher
  - **ROM**: 32 GB or higher
  - **Wi-Fi Compatibility**: 802.11n, 20 MHz channel width, 5 GHz frequency band
  - **USB Connector Type**: Type-C
  - **Operating System**: Android 8.0 or later

3.1.3 Windows Device

After receiving the probe, please contact us to obtain the Windows software installation package. The following section outlines the system requirements:

Windows Device Requirements

- **PC**
  - **Operating System**: Windows 10, 64-bit or newer
  - **RAM:** 4 GB or higher
  - **Wi-Fi Compatibility**: 802.11n, 20 MHz channel width, 5 GHz frequency band
  - **CPU**: 1 GHz or higher, up to 3.6 GHz, Intel i3/i5/i7 (Recommended Brands: Lenovo, HP, Dell, Acer, ASUS)
  - **Recommendation**: It is recommended to use laptops manufactured after 2017.
- **Smart Tablet**
  - **RAM**: 4 GB or higher
  - **ROM**: 16 GB or higher
  - **Wi-Fi Compatibility**: 802.11n, 20 MHz channel width, 5 GHz frequency band
  - **USB Connector Type**: Type-C

3.2 Turn on/off the Probe

Press the power button  to initiate the probe; the indicator will display the battery icon.

Following the ultrasound examination, press and hold the power button for 5 seconds to deactivate the probe, and a black screen on the indicator.

3.3 Probe and Terminal Connection

Wi-Fi Connection:

During the initial setup, enter the Wi-Fi password to establish a connection between the probe and the smart terminal device. Subsequent connections will be established automatically without the need to re-enter the password.

Probe SN: UXCCAHA000

Step1:

Turn on the ultrasound transducer and turn on the Wi-Fi on your iOS or Android device.

Step2:

Search the list of networks for the SSID with the suffix "UX-8C *****A000".

Step3:

Enter the Wi-Fi password, which corresponds to the serial number of the probe, ensuring to use lowercase letters, not capital.

Step4:

To open the MY USG App on your mobile device's home screen, when the probe is connect to your mobile device successfully, The " UX-8C ******A000" will be displayed on the App interface.

Note:

- If you connect the probe to your device successfully, but there is no image on the screen, please try to press the power button again.
- The password's letters must be input as small letters, not capital.
- When the probe is connected to mobile device A, if you want to change mobile device B to connect with the probe, please disconnect the probe from the mobile device A firstly. The probe only can be connected to one mobile device at the same time.

USB Connection:

Note:

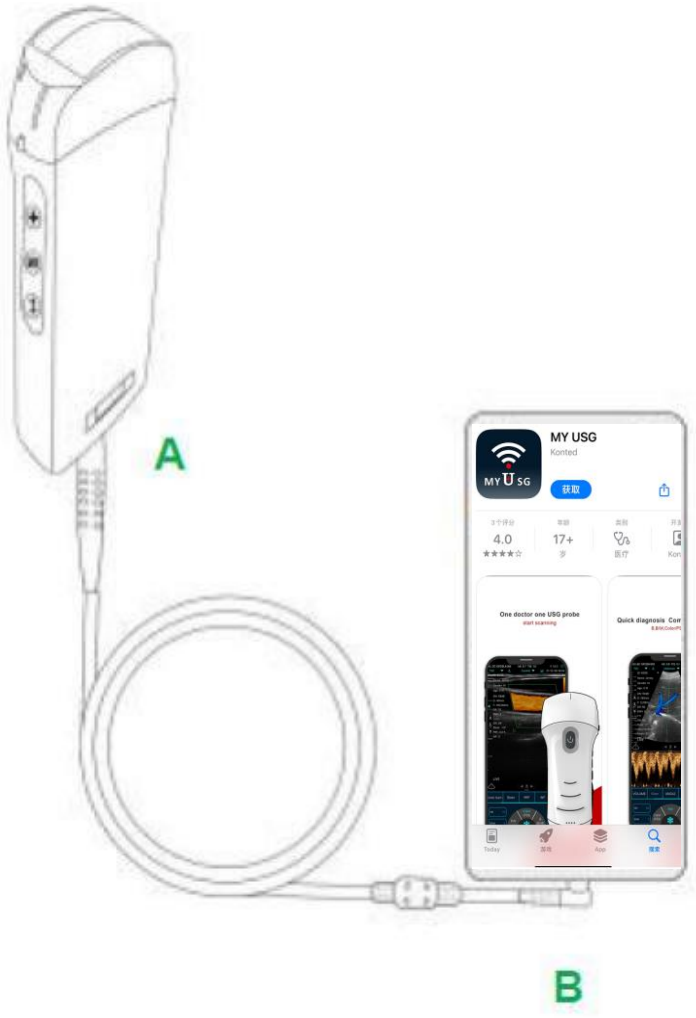
- Applicable only to custom-tailored probes that support a Type-C port.

Step1:

Pull out the rubber plug at the end of the probe.

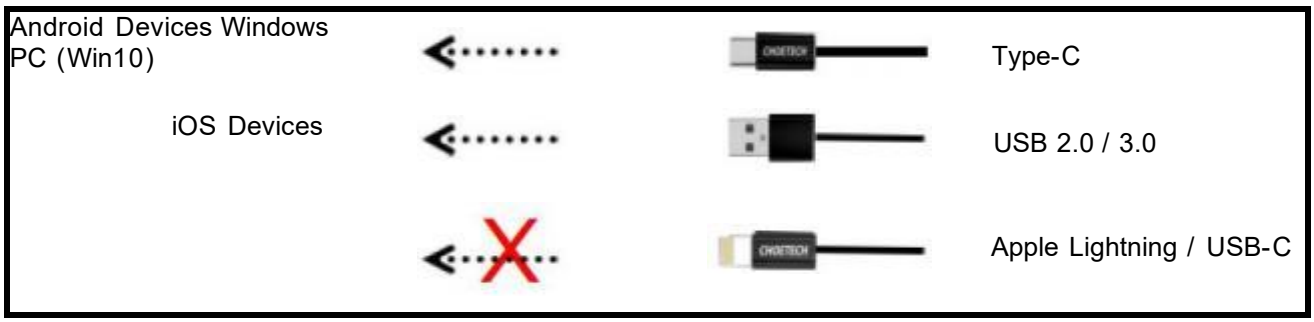
Step2:

1) Ensure that the Type-C cable is in good condition and free of any damage.
2) Align the Type-C cable with the corresponding ports on both the probe and the smart device.
3) Insert the A-end of the cable into the probe's port, ensuring that it is fully engaged without any resistance.
4) Proceed to insert the B-end of the cable into the smart device's port, ensuring complete insertion for a secure connection.
5) Verify that the cable is not reversed, as the A-end and B-end are designed for specific orientations.



Step3:

To open the MY USG App on your mobile device's home screen, when the probe is connects to your mobile device successfully, The" UX-8C ******A000" will be displayed on the App interface.



Note:

-In the event that the probe is successfully connected to your device but no image is displayed on the screen, please attempt to press the power button once more to initiate the display.

-Upon successful connection of the probe to the device, the charging indicator will automatically begin to flash and charge the probe.

-The probe is compatible for connection with Android and Windows devices via a Type-C cable. For iPad and iPhone devices, connection is facilitated exclusively through Wi-Fi and does not support Type-C cable connections.

-It is important to note that the ability to use the probe while it is charging is a feature exclusive to custom-tailored probes that support a Type-C port.

3.4 Basic Software Interface

Convex array + Phased array mode:

Linear array mode:

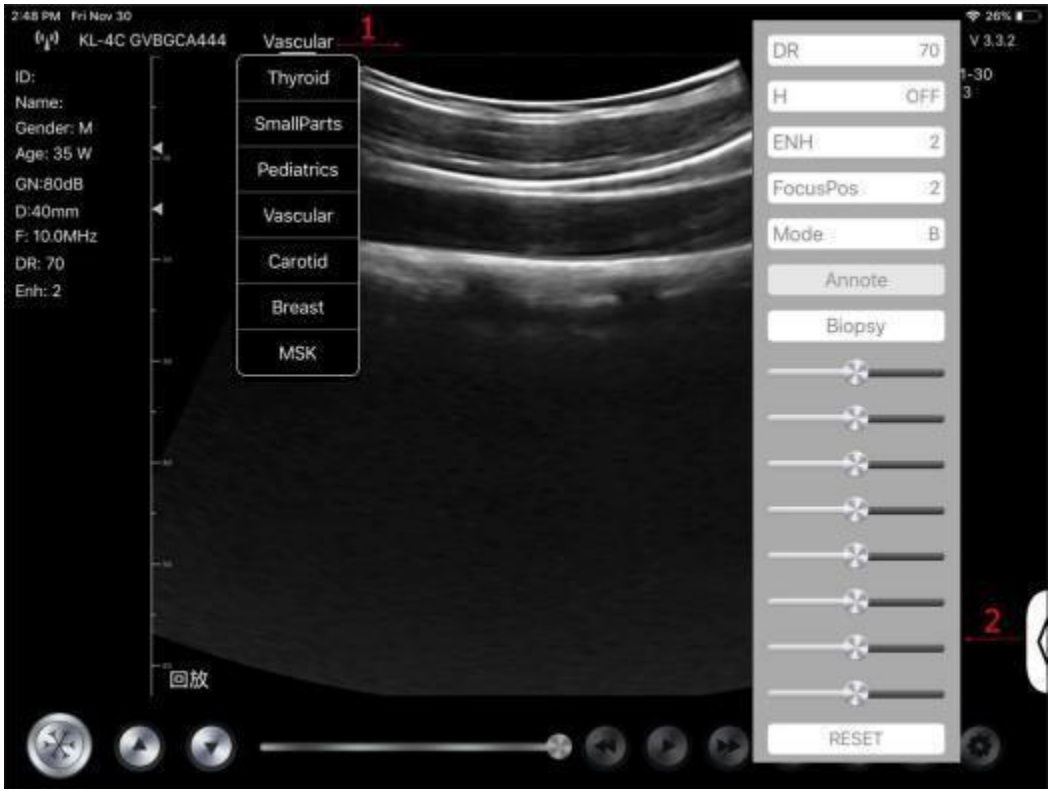
4 Detailed Operation Introduction

4.1 Introduction to All Menu Levels

The menu system is organized into multiple levels: the first level and the second level.

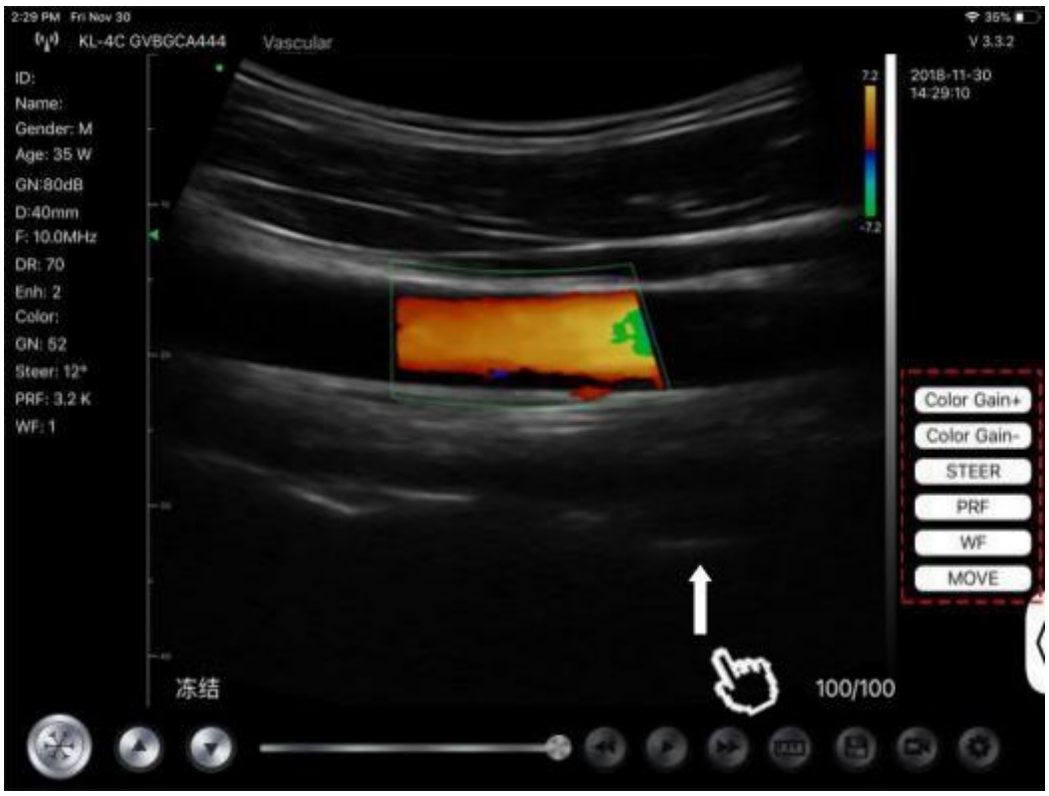
4.1.1 First Level Menu

1. Preset button
2. Hidden menu for parameters



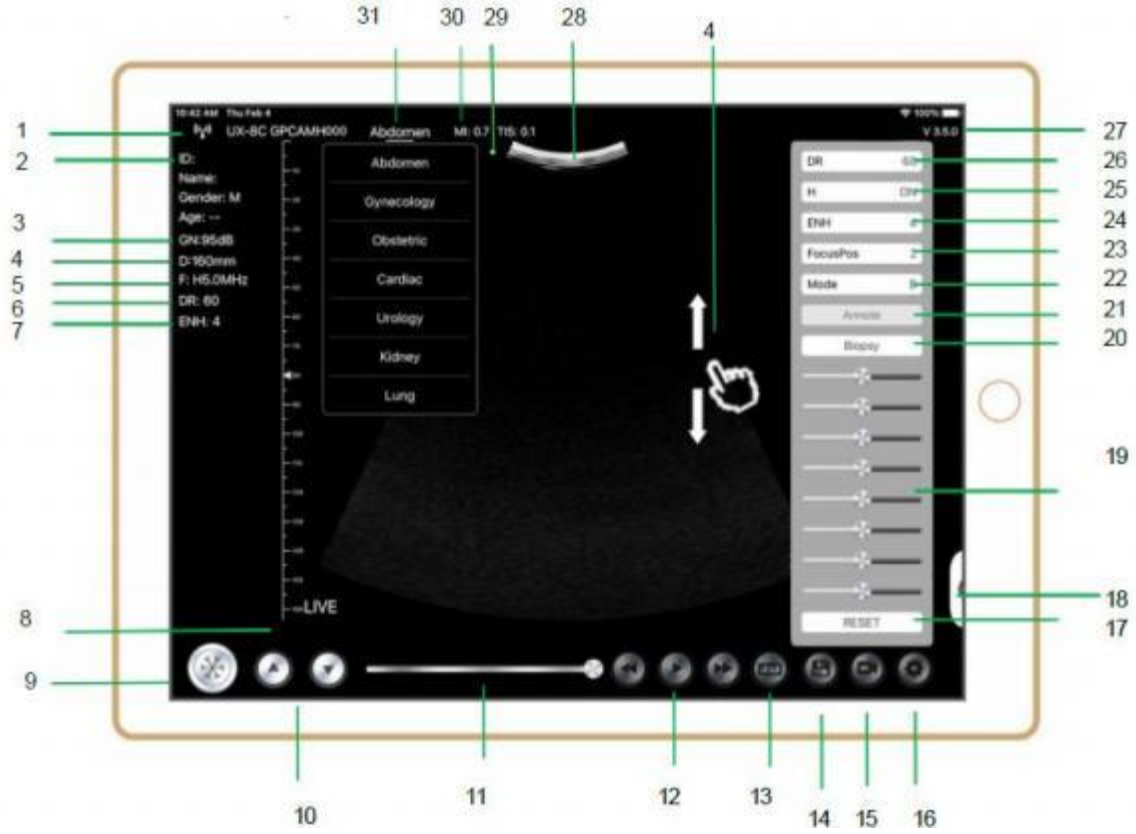
4.1.2 Second Level Menu

The 2 level menu is controlled by clicking on the corresponding item of the 1 menu. This is the 2 level menu in Color mode.



4.2 Operation Introduction

4.2.1 B Mode



NO	Item	Description	Effects
1		Wi-Fi connection status	If the probe's serial number showed, connected successfully.
2	ID	ID/Name/Gender/Age	Entering Patient Data.
3	GN	Gain	Gain display.
4	D	Depth	Depth display. While scanning, adjust the depth by swiping the screen with your finger.
5	F	Frequency	Frequency display.
6	DR	Dynamic Range	Dynamic Range display.
7	ENH	Enhance	Enhance display.
8	Live	Live/Freeze status	Live/Freeze display.
9		Live/Freeze button	After powering on and connecting the probe, if the display is frozen, press the button again to revert the status to a real-time image.
10		Gain adjust button	Increasing the gain enhances image brightness and signal visibility. Be advised that this may also increase background noise.
11		Manual cine review	Manual cine review.
12		Manual cine review	Auto Review.
13		Measurements	distance/area/obstetric measurement (Length, Angle, Trace, Area, Circumference, GA (CRL, BPD, GS, FL, HC, A C), EFW (BPD, FL).
14		Save an image	Review the image in your mobile device album.
15		Save a video	Review the video in your mobile device album.
16		Setting	WIFI channel setting, Cine frames setting.
17	Reset	Reset 8 TGC	
18		Hidden button	Hidden menu for parameters.
19		8 TGC	Adjust the depth-specific gain to achieve a balanced image by optimizing signal enhancement in targeted areas.
20	Biopsy	Enter/Exit Needle Guide	In-plane, Out-plane.
		Invert /Rotation	To invert the image horizontally or vertically. U/D flip, R/L flip.
21	An note	Adding Annotations	You can add annotations on any frozen image.
22	Mode	change the imaging mode.	B, B/M, color, PW, PDI
23	Focus Pos	Focus Position (only available for color Doppler probe)	Click the Focus Position and tap it to get a clear image.
24	ENH	Enhance	Enhance the shape of the image to get a clear boundary.

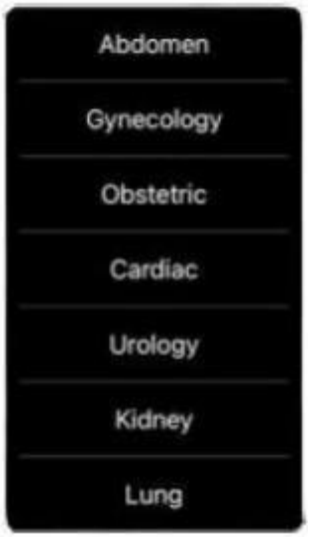
25	H	THI	To toggle the THI setting on or off and adjust the scan frequency, click the button.

NO	Item	Description	Effects
26	DR	Dynamic Range	This function is used to adjust the B image resolution to compress or expand the gray display range. The more the dynamic range, the more specific the information, and the lower the contrast with more noise.
27	V.3.5.0	The app version number	
28		Image display area	
29		Probe orientation marker	
30	MI. TIS		The Thermal Index (TI), Mechanical Index (MI), and Hz values
31	Present	Present selection	Tap it to change the present

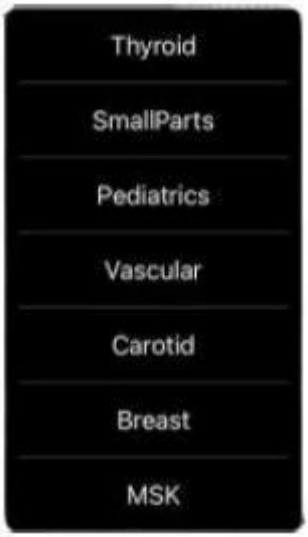
Selecting Exam Present

Tap **No.31 (Abdomen)** to select the present: Convex probe:

Convex probe:



Linear probe:



Switching Between Imaging Modes

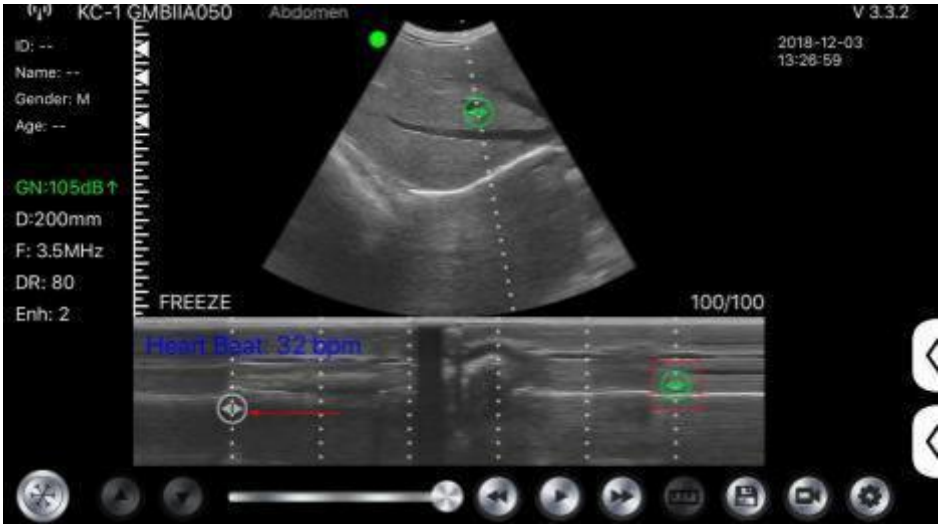
Tap **No.22 (Mode)** to select the imaging modes:

Image Adjustment

Requirement	Available Operations
To modify the brightness	Adjust **No.10 Gain** Adjust **No.19 8TGC**
To modify gray scale image effect	Adjust **No.23 Focus Pos** Adjust **No.24 ENH** Adjust **No.25 H** Adjust **No.26 DR**
Zoom	Adjust **No.4 Depth**

4.2.2 BM Mode

In BM mode, double-click the cursor to turn it green. You can then reposition the M-line sampling line by dragging the following markers with your finger.

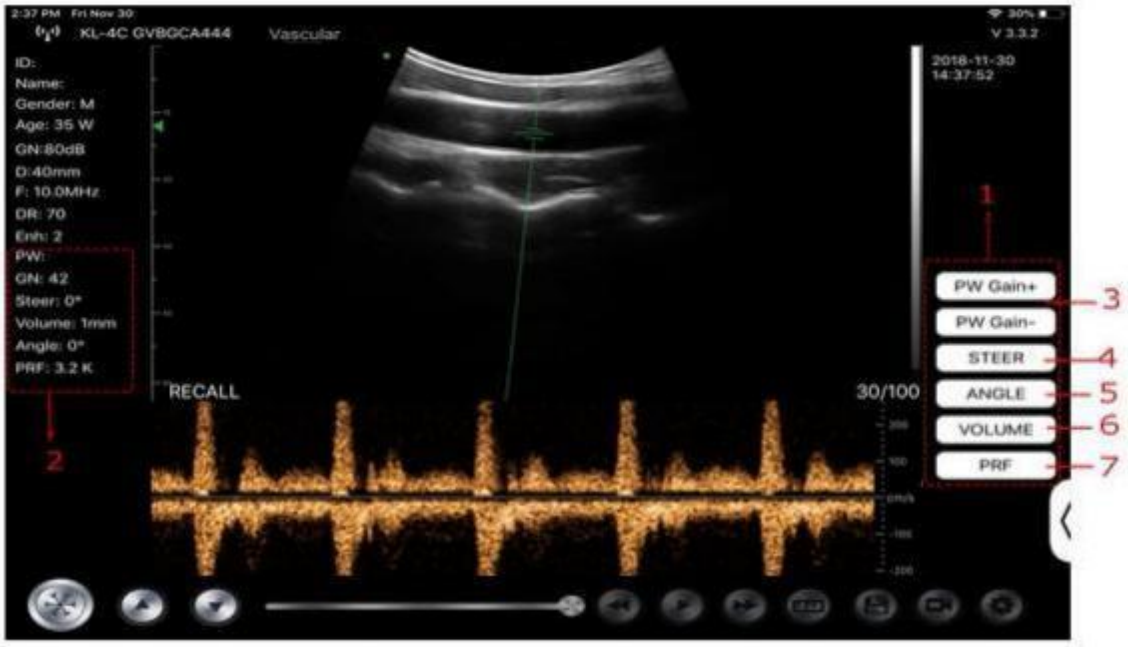


4.2.3 C mode (only available for color Doppler probe)

1) Second menu in color mode, click the buttons, the parameter will be changed.
2) Parameters display area in color mode.
3) Click this button, this button will be changed to button named “size”, the***can be adjust the size in this status as below.
4) Increase +or reduce - the color gain.
5) Steer: afterglow adjustment.
6) PRF: Adjust color pulse repetition frequency.
7) WF: adjusting the filtering frequency of a pulse wave or continuous wave Doppler low frequency signal.

4.2.4 PW Mode (Only Available for Color Doppler Probe)

1. Second menu in PW mode, click the buttons, the parameter will be changed
2. Parameters display area in PW mode
3. PW gain: Increase+ or reduce - the pulse gain
4. Steer: afterglow adjustment
5. Angle: real-time scanning state, used to change the spectrum sampling line angle
6. Sampling volume: change the size of the sampling volume
7. PRF: Adjust color pulse repetition frequency



4.3 Measurements

General measurements refer to general measurements on images of B/C/PDI mode, M mode, PW mode.

To perform a measurement:

1. Tap  to freeze the image.
2. Tap  to access the measurement tools.

Mode	Measurement Tools	Available Operations
B/C/PDI	Length	Measures the length between two points of interest.
	Angle	The angle between two intersected planes
	Area/Circumference	Measures the distance between two points of interest.
	Trace	Measures the length of a curve on the image
	Distance	Measures the distance between two points of interest.
	GA (CRL, BPD, GS, FL, HC, AC) EFW (BPD, FL)	**Only for present: Obstetric**
M	Heart Rate (5)	Measures the time of two cardiac cycles and calculates the heartrate in M mode image.
	Time	The time interval between any two points.
	Distance	The vertical distance between two points.
PW	Velocity	Calculate the velocity of the point in Doppler spectrum wave.
	Heart Rate (2)	Measures the time of two cardiac cycles and calculates the heart rate.

Mode	Measurement Tools	Available Operations

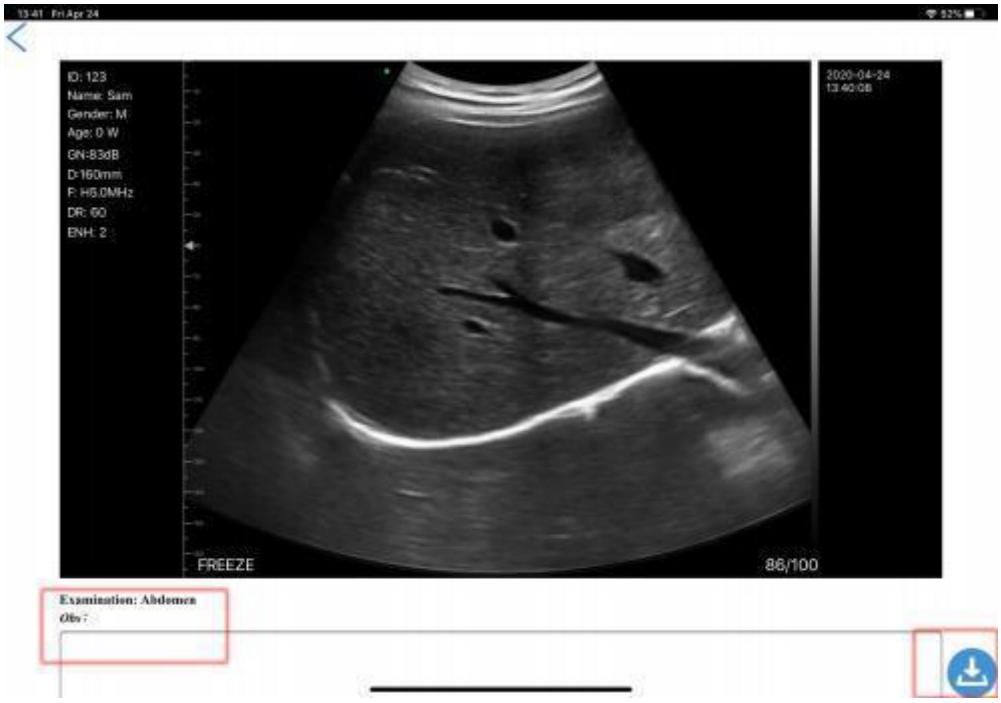
	S/D	Calculate the PE/SD and RI
	Distance	The vertical distance between two points.

3. To delete a result, tap the result, then tap the **X** next to the corresponding numeric measurement display, and then tap Delete Line to confirm.

4.4 Patient's Information and Report

1. Click " ID" on the patient information enter the patient data input box.

2. After editing the report, click to save the report to the mobile device album.



5 Maintenance and Inspection

5.1 Charging the Probe

Charge the probe when the battery **is** low. During charging, the battery indicator will flash to show the current charge level. Konted recommends charging the probe when only one cell is displayed on the battery indicator. Once all four cells of the battery indicator are lit and the indicator stops blinking, the battery is fully charged.

Charging By USB Cable:

1. Pull out the rubber plug at the end of the probe.
2. Connect the probe to the wall adapter (or another USB power source, such as a portable charger) using the charging cable, as illustrated.
3. Plug the wall adapter into a power outlet.

Micro USB

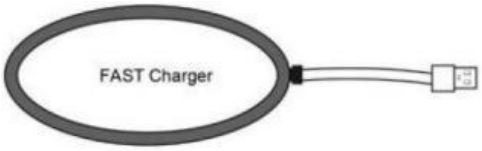
Note:

- You can not perform imaging while the probe is charging.

Charging By Wireless Charging Pad:

The probe supports wireless charging.

1. Disconnect the probe from your mobile device.
2. Connect the Micro USB cable to the wireless charging pad.
3. Connect the USB end of the cable to the wall adapter.
4. Plug the wall adapter into a power outlet.
5. Place the probe onto the white wireless charging pad.



FAST Charger

Wall Adapter → Power outlet

Portable Charger/Power Bank

Computer

Note:

You can not perform imaging while the probe is charging by wireless charging pad. Ensure the following for proper charging:

- Place the probe flat on the charging pad, which should also be on a flat surface. Avoid hanging the charging pad or the probe.
- Confirm that the probe is correctly positioned on the pad to initiate the battery indicator's flash and the charger indicator light to turn blue.

CAUTION

1. If the probe does not power on after charging, this may indicate a battery failure. Contact Support for assistance.
2. Use a non-medical grade power supply at least 1.5 meters away from the patient when outside the patient environment.
3. Charge the probe battery at least monthly to maintain its functionality.
4. It is normal for the probe to feel warm during charging. Allow it to cool down before use to optimize scan time performance. The system will not scan at or above 43°C (109°F) to limit patient contact temperature.
5. A low battery charge (25% or less) may prevent performing a study until recharged. Keep the battery fully charged whenever possible.

5.2 Replace the Battery

The battery of USB & Wi-Fi probe can't be replaced. If the probe cannot be charged or the probe cannot be turned on, please contact us at marketing@viatomcare.com.

5.3 Cleaning and Disinfecting the Probe

Cleaning the Probe

1. After each ultrasound examination, close the system and clean and disinfect the probe to prevent cross-infection, as it is in direct contact with patients.

2. For cleaning, adhere to the manual's guidelines:

   a) Wear bacteria-resistant gloves to prevent infection.

   b) Clean the probe with water to remove stains, using a Polyurethane Sponge and suds. Avoid brushes to prevent damage.

   c) After cleaning, dry the probe with a sterilization cloth or gauze. Do not use a heat source (such as oven) for drying.

Caution:

1. Clean the probe thoroughly after each use to maintain hygiene and functionality.
2. Avoid using a surgical brush on the probe. Even soft brushes may cause damage. Instead, use a soft cloth for cleaning.
3. Inspect the probe before and after cleaning, disinfection, or use. Examine the lens face, cable, housing, seams, and connector for any signs of damage, such as cracks, chips, abrasions, or leaks. To avoid the risk of electrical hazards, do not use the probe if there is any sign of damage.

WARNING:

1. Avoid immersing the probe's plug in liquids, including water and disinfectant solutions, to prevent electric shock or equipment damage.
2. Ensure the coupling agent is removed after each examination to prevent freezing, which can impair the probe's image quality.
3. Refrain from exposing the probe to high temperatures (over 55°C) during cleaning and disinfection, as this may cause irreversible damage.

Disinfecting the Probe

1. Perform high disinfection in accordance with the manual's guidelines:

   a) Wear bacteria-resistant gloves to prevent infection.

   b) Ensure the probe is clean before proceeding with disinfection. Use the following recommended disinfectant solutions.

Chemical Name	Handing
0.6% Sodium Hypochlorite	Please follow introductions provided by manufacturer to do it.
Germicidal Disposable Wipes Alcohol-based disinfectant wipes containing	
22% of hydrogen peroxide	

Note:

- Adhere to the manufacturer's guidelines for disinfection solutions, including dilution, enrichment, methods, and usage processes."

- Avoid submerging the probe's plug or tail end in any liquid, including water and anti-viral solutions."

-Ensure the probe is immersed in the disinfectant for the minimum time recommended by the manufacturer (e.g., a minimum of 12 minutes in Cidex as specified by the manufacturer)."

- Comply with local regulations when selecting and using disinfectants."

- Rinse the probe with ample sterile water (approximately 7.75 liters) for at least one minute to remove chemical residues, or follow the manufacturer's method for cleaning the probe."

-After cleaning, dry the probe with a sterilization cloth or gauze. Do not use a heat source for drying."

-Inspect the protective sleeve for any signs of damage

5.4 Storage

When the probe is not in use, store it in appropriate packaging to protect against damage from impact. Additionally, avoid exposing the probe to high temperatures; the recommended storage temperature is between 0°C and 40°C.

5.5 Inspection

Regularly inspect the probe's cable for any signs of damage or breakage. If any issues are found, discontinue use immediately and replace or repair as necessary.

Routinely check the socket and acoustic window for damage or bubbles. If any defects are detected, cease use and replace or repair without delay.

After each cleaning and disinfection (sterilization) process, conduct a thorough inspection of the probe's body and head. Should any of the aforementioned issues be observed, stop using the probe immediately and arrange for its replacement or repair.

⚠ **WARNING**: **Equipment failure, Users are not allowed to repair without authorization. Product must be sent back to the company.**

5.6 Life Expectancy

Based on the manufacturer's design, production, and related documentation, the typical service life of this product is 5 years, though with infrequent use it may last 6-8 years. The materials constituting the product will naturally age over time. Prolonged use beyond the recommended lifespan may result in performance degradation and an increased risk of failure.

⚠ **WARNING: The manufacturer shall not be liable for any risks incurred from the continued use of the product beyond its expected service life.**

5.7 Troubleshooting

Here lists the troubleshooting issues and resolutions.

If you are unable to resolve an issue using Table-1, please note the issue and report it to Support for assistance.

Table-1 Troubleshooting	
Connection issues	
Incorrect Password Displayed	1. The Serial Number(SN) of the probe serves as the Wi-Fi password. When re-entering the password, ensure all letters are in lowercase, not captical. 2. Type-C to connect to the probe with Type-C cable.
The probe can not be connected to Mobile phone/tablet, but can work with laptop	1. Use your laptop to change the Wi-Fi channel. 2. Try to connect the probe to your mobile phone again.
The probe can work by Wi-Fi, but can not work with Type-C	1. Do not reverse the cable ends. The A-end must be securely plugged into the probe, and the B-end must be firmly connected to the smart device. 2. If the initial connection fails, try using the opposite side of the Type-C A port interface to connect the probe.
Probe issues	
Probe can not be charged by cable	1. Insert the A-end of the cable fully into the probe and ensure the B-end is securely connected to the smart device. 2. Charge the probe for a minimum of 1 hour using the wireless charging system. 3. If it doesn't work, please contact technical support without delay.
Unable to turn on the probe	1. Charge the probe for 30 minutes firstly. 2. Try to Turn on the probe again. 3. If the probe still does not turn on, please contact support for further assistance.
Unable to turn off the probe	1. Press and hold the probe's power Button for 15 -20 seconds. 2. Charge the probe.
App issues	
App Won't Launch App crashes	1. **Uninstall and Reinstall the app**. 2. **Update the app to the latest version**. 3. **Install the app on a different Mobile Device**
App opens but will not scan images	1. Make sure the probe is connected successfully 2. Try to press the probe power button 3. Reinstall and update the app 4. Charge the probe
Black screen or screen no longer updates	1. Close the app and restart the app. 2. Unplug the probe from the mobile platform (mobile device) and reconnect.

Imaging issues	
Image degradation or occurrence of image artifacts	1. Ensure that the correct preset is selected and the scanning depth is adjusted appropriately for the anatomy being examined.
Image quality degraded	1. Ensure that an adequate amount of approved ultrasound gel is applied. If image quality does not improve, contact technical support for further assistance.
Image is not clear	1. Adjust the image parameters follow the page- 24 2. Use enough ultrasound Gel.