Youkey Operating Guide

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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

		15 Setup - SonoiQ	
Setup - SonoiQ		Select Additional Tasks Which additional tasks should be performed?	
Where should SonoiQ be installed Setup will install SonoiQ i To continue, click Next. If you wo D:\SonoiQ	error of the following folder. A like to select a different folder, click Browse. Browse	Select the additional tasks you would like Setup to perform while insta click Next. Additional shortcuts:	ling SonoiQ, then
At least 299.5 MB of free disk spa 평 Setup - SonoiQ	nce is required.	< Back Next	
Com Wiza Setup h appicat shortcu Cick Fin ♥ Lau	as finished installing SonoiQ on your computer. The ion may be launched by selecting the installed ts. iish to exit Setup. unch SonoiQ	Ready to Install Setup is now ready to begin installing SonoiQ on your computer. Click Install to continue with the installation, or click Back if you want to change any settings. Destination location: D:\SonoiQ Additional tasks: Additional tasks: Create a Quick Launch shortcut	o review or
	Finish	< 	Cancel

Connection





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 root 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

Settings Wi-Fi Image: Provide and the set of the set	
 ➢ Airplane Mode ⓒ Wi-Fi *D188* ※ Bluetooth Off CHOOSE A NETWORK 	
Wi-Fi Bluetooth Off Wi-Fi * D188* CHOOSE A NETWORK	
Bluetooth Off CHOOSE A NETWORK	\bigcirc
CHOOSE A NETWORK	i
Notifications Kiy_400	i
Control Center MERCURY_A1BE	i
C Do Not Disturb TP-LINK_404	i
YK_MT Provide the second secon	i
General 1 Other	
A Display & Brightness	
Wallpaper Ask to Join Networks	D
Sounds Known networks will be joined automatically. If no known networks are available, you will to manually select a network.	have
Siri & Search	
Passcode	
Battery	
Privacy	

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.
- 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
- Oppler Mode / Update, B / M Mode, Color / Power Doppler Mode.
- 7 More Parameters Adjustment.
- 8 Depth Adjustment, Gain Adjustment.



Scan Screen

(2) Windows



- Probe Model, Exam Mode, System Time, Scanner Battery.
 WiFi Signal, USB Connection, Manuel, System Setting, Task Manager.
 Thumbnails, Minimize / Exit.
 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





Parameters-M

• M Speed:

1- Fast speed

2- Middle speed

3- Low speed











• C Gain:

Adjust the sensitivity of the blood flow.

Proper

Too high









• C Vel

Adjust the highest velocity that the probe can detect.









• Steer:

See blood flow in a better way with linear probe.





Parameters-Power Doppler

)
	2.0	0
~		
P Vel	73.3)
P Gain	55 55)
P Persister	nce 2)
P WF	5 5	
P Steer	0	

745		



Parameters-PW Doppler



^	
PW Steer 0	
PW AutoCalc Off	
PW AutoCalcParam	64.6
PW BaseLine 0	0.0
PW Invert Off	
	- 80. (





Software-Parameters Preset

				Preset						
System Preset	Exam Type	Cardiology	/							
Image Preset	B&THI		М		С	olor		Power		PW
Even Dreest	Cardiology <al< th=""><th colspan="9"></th></al<>									
Exam Preset	BaseLine	0	-	Speed		2	▼	🔲 Invert		
System Upgrade	Audio	60	•	DR		48	-	Angle	0	-
DICOM Local	Probe		C5_2F	S	•					
DICOM Server	Cardiology <c< th=""><th>5_2Fs></th><th>_</th><th></th><th>_</th><th></th><th>_</th><th></th><th></th><th></th></c<>	5_2Fs>	_		_		_			
DICOM Service	Steer		0		▼	Freq		2.	.0	-
Exit	Vel		81.3ci	m/s	▼	Gain		61	0	-
	WF		2		▼	SV Size		4.	.0mm	•
	Import	Import	from	Exp	oort	Expoi	rt to	Load Fac	tory	Apply



Software-DICOM

		Preset			
System Preset	Storage Service	Work List			
Image Preset	Device	•	Service		Add
Exam Preset			Name		Cancel
System Upgrade	AE Title		Port	104	Update
DICOM Local	No. Device	Service Name	AE Title	Port	Default
DICOM Server					
DICOM Service					
Exit					
	Delete	Default		Verify	Verify Undo!



Software-Exam List

Exa	Exam List									
Free	Free storage:156 GB/245 GB(63%) Last 1 month Limit 50 Q									
No.	Patient Id	Name	Gender	Age	Exam Doctor	Image	Exam Type	Exam Date/ Time	Exam State	Desel ect
6	2020923190	test1,test2	Female	23Years		3	ABD	23/09/2020 19:44:37	Active	
	Patient Info	D	Delete		Review		Report		Exit	



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



