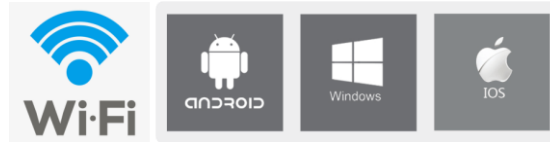


Youkey

P50 Pocket Ultrasound System

Technical Specifications



Design of the innovation

- Wireless connection between ultrasound probe and display
Any conventional tablets can transform into an ultrasound machine (Supports IOS, Android and windows). Images can be shared within one click.
- An ultrasound machine with only 160g light weight, Convenient for hand-carry to anywhere.
- Patented detachable probe head and main unit
More cost effective and convenient to meet the needs of different clinical applications. Freeze, unplug, plug, 3 steps to detach probe lens for different applications.



general specifications

Net weight:	About 160g
Size:	150mm*40mm*25mm
Battery time:	About 4 hours
Waterproof level:	Ipx4
WIF coverage distance:	≥ 6m
Platform:	Android, Windows, IOS
Connection Type:	2.4G/5G 802.11b/g/a WiFi &USB
Supporting devices:	Android tablet or smart phone, Windows PC, iPhone and IPAD.
Probe heads:	All types of detachable transducers supported.
Modes:	B, M, 2B, THI, Color, Power, PW (only color Doppler version have Color, Power, PW)
Gray level:	256
Transducer Frequency:	2-11MHz
Max scanning Depth:	310mm
Dynamic range:	30-120
Digital Technology:	Wide-angle imaging Panoramic focusing technology Frequency compounding Space compounding Rolling M technology Real-time Dynamic Aperture Tissue Harmonic Imaging Tissue Specific Imaging



Controls:

Gain	TGC	Depth	C Scale/Vel
Frequency			C Gain
Focus	Position		C Frequency
Dynamic	Range		C Steer
Frame	Correlation/Persistence		
TSI			PW Steer
Enhance			PW SV Size
Gray	Map		PW BaseLine
Acoustic	Power		Time Mark(Only Windows)
Qbeam/CrossBeam			PW Speed
Expand	mode		PW Auto Calculation
Biopsy	Guideline		PW Auto Calculation Parameters
Left/Right	Flip		
Up/Down	Flip		

Function

Cine-loop:	400 frames movie playback stored
Zoom:	Max 10 times
Qopt:	One-key optimization
Language:	Chinese, English, (All systems) Russian, Spanish, Italian, Czech, German (Windows&Android)
DICOM:	DICOM 3.0
Other function:	Patient information Management

Measurement and calculation

B mode:	Distance, angle, area, volume, trace length, distance ratio, area ratio, histogram
M mode:	Distance, time, slope, heart rate

CALCULATION PACKAGES:

Ob/Gyn: Measurements: Distance/Ellipse/Trace/Volume, GS, CRL, BPD, HC, AC, FL, AFI, Cervix Length,

Calculations: Estimated Fetal Weight, Estimated Due Date

Cardiac:



Measurements: Distance/Ellipse/Trace/Area, RVWd, RVDd, IVSd, LVDd, LVPWd, RVWs, RVDs, IVSs, LVPWs, MVA, AVA

Calculations: Ejection Fraction, Fractional Shortening, Volume Area, Stroke Volume, LA/Ao, CI, SI
(Above items are for Windows APP. For Android and IOS APP, the measurements include Distance, Angle, Area, Time, Heart Rate, Speed)

Full measurement packages, report and patient list support only for Windows

Application package:

Abdomen, Small parts, Vascular, Obstetrics,

Gynecology, Cardiology, Kidney,

Urology, Orthopedics, Carotid, MSK, Nerve

Software Compatibility

iOS: iOS version 10.0 or newer

Suggested Mobile devices: iPhone 5S (or newer), iPod Touch (5th gen or newer)

Apple iPhone 6s, 6s Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS Max and XR

Suggested Tablet device:

iPad (3rd gen or newer), iPad Air (1st gen or newer), iPad Mini (1st gen or newer),

iPad 5th gen, 6th gen, iPad Pro

Android: Android device 7.0 or newer

Suggested Mobile devices: HUAWEI mate 8, mate 9, mate 20, mate 30, P10, P20, P30, Honor..

Suggested Tablet device: HUAWEI MediaPad M6, Matepad, Matepad Pro,

Samsung Galaxy Tab S5e, S6, S7+, Samsung Galaxy Tab A(2019), Samsung Galaxy Tab A7 ...

Baaske e-medical tablet, Tegar TMT-4391-08

Windows:

Windows XP, Win7, Win8, Win10 PC (At least i5 CPU and 4GB memory)

Suggested Windows device: Huawei MateBook 13, MateBook 14, MateBook X Pro,

Microsoft Surface GO 2, Microsoft Surface GO 3, Microsoft Surface Pro.

Working Power Supply

AC Adaptor output: Voltage 5V, Output current 2A

Battery: Lithium-Ion Battery Pack: 7.4V, 1300mAh

Recharge time: About 2 hours(for full recharge)

Scan time: About 4 hours continuous scanning time

System Bootup: Less than 5 seconds



Working Environment

Ambient Temperature: 0°C-32°C

Relative Humidity: 30%-85%

Atmospheric Pressure: 700hPa-1060hPa

Multiple frequency probes

Probe Image	Probe type	Model	Freq(MHZ)	Bandwidth(MHZ)	Radius/Footprint	Application
	Convex& Cardiac	C5-2Fs	3.5	2-5	R50	Emergency Cardiac, Abdomen, OB/GYN, Urology, Lung
	Convex	C5-2Ks	3.5	2.5-5	R60	Abdomen, OB/GYN, Urology, Lung
	Linear	L11-4Ks	7.5	6-11	L40	Vascular, Small Parts, Breast, MSK, Nerve, Anesthesia
	Small Linear	L11-4Gs	8.0	6-11	L25	Nerve, Anesthesia, Vascular, Small Parts, Breast, MSK
	Micro-convex	C8-5Ks	6.5	5-8	R15	Neonatal Abdominal, Small Parts, Neonatal Cardiac
	Transvaginal	E10-4Ks	6.5	5-8.5	R10	Obstetrics/Gynecology, Urology, IVF, Pelvic

Standard Configurations

Wireless system main unit

One Probe head

APP software

Power Adapter

Type-C cable

carrying case

24 months warranty since ex-factory date for main unit

12 months warranty since ex-factory date for probe heads

Contact US :

WuHan Youkey Bio-Medical Electronics Co., Ltd.

E-mail: arvinleung@youkeymedical.com

Web: www.youkeymedical.com