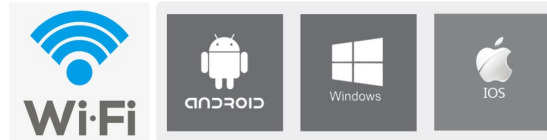


# Youkey

## 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.

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## general specifications

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

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## 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

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

## Measurement and calculation

<b>B mode:</b>	Distance, angle, area, volume, trace length, distance ratio, area ratio, histogram
<b>M mode:</b>	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:

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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-medic 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

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## 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

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