Handheld wireless mini B & color doppler ultrasound scanner

The National Key Technology R&D Program Award Project

Convex ✓
Linear ✓
Micro-convex ✓
Transvaginal ✓
Built-in screen ✓
Double heads ✓
4D bladder ✓

Speediness, preliminary examine, interventional diagnosis and treatment visualization guidance
Product introduction

How it works

“Wireless ultrasound probe” is a mini ultrasound scanner that without screen. We made the main unit condensed into a small circuit board built-in the probe, and showing image in smart phone/tablet through Wifi transferring. Rotate built-in screen probe is a wireless ultrasound probe add screen, image can both show in screen and tablet. Image transferring through internal wifi from probe, no need external Wifi signal.

Product advantage

- Small and Compact size, easy to carry
- Wireless type without probe cable, working freely
- Waterproof design, convenient for sterilization
- Remote diagnosis convenience, capable for images transfer to doctors

Ultrasonic diagnosis equipment miniaturization, intelligent development:

Trolley >> Portable >> Palm >> Pocket >> Wireless Pocket

Only a probe! Just connect smart phone/tablet by internal wifi can become B & Color Doppler ultrasound scanner
Gray head: low configuration B/W ultrasound scanner; Light blue head: high configuration B/W ultrasound scanner; Purplish blue head: Color Doppler; Batch order can provide color customization.

**Convex series**
Wide and deep scanning scope, suitable for abdomen, obstetrics, gynecology and Cardiology exam.

**Mini-Ultrasound Scanner**
With built-in screen, option for synchronous display on smart phone or tablet.

**Linear series**
Parallel imaging, high frequency, detection range is small and shallow but with high definition, suitable for small parts, superficial tissue examination.

**Transvaginal series**
It is used for follicular detection, uterine examination and visualization guidance in obstetrics and gynecology.

**Double heads series**
With any two kinds of probes, just one probe can meet the needs of multiple clinical tests, more convenient and lower overall cost.

**4D bladder probe**
Real-time three dimensional scanning for urinary bladder volume measurement.
Specifications

- Scanning mode: Electronic array
- Frequency: Convex/micro-convex probe 3.5/5.0MHz, Linear probe 7.5 MHz/10.0MHz or 10/14MHz, Transvaginal Probe 6.5MHz, 4D bladder probe 3.5MHz
- Depth: convex 100mm~280mm, micro-convex 100mm~200mm, linear 20mm~55mm, transvaginal 50mm~100mm, adjustable
- Radius of curvature and Angle of scanning: Convex R60/60°, Micro-convex R20/88°, Transvaginal R10/149°
- Scan width: Linear 7.5MHz is 40mm, 10MHz is 25mm
- Screen size of built-in screen probe: 3.5 inches
- Display mode: B, B/M, color, PW, PDI
- Image adjustable: Gain, focus, anti-phase pulse harmonics, noise reduction, DYN
- Puncture assist function: the function of in-plane puncture guide line, external puncture guidance and automatic blood vessel measurement function, and the enhancement function of needle point development.
- Battery working time: 3 hours
- Charging mode: USB charging or wireless charging.
- Measure: Distance, area, circumference, angle, heart rate, obstetrics.
- 4D bladder probe automatic measurement for volume: range 10ml~2000ml, error < 5%, speed 2s.
- Size: Convex/linear: 156mm×60mm×20mm, transvaginal: 296mm×60mm×20mm, 4D bladder probe: 180mm×60mm×60mm
- Weight: Convex/linear Micro-convex 278g, 4D bladder probe 420g, Transvaginal 300g
- Image frame rate: 20fps
- Connection type: probe connect to smart phone/tablet by built-in wifi
- Wifi type: 802.11n/2.4G-5G/450Mbps
- Consultation function: remote internet consultation through smart phone and tablet, as well as multi-cell phone/tablet for consultation.
- Working system: Apple iOS and Android, Windows
Usage

1. For iPhone/iPad, please search "WirelessUSG" in Appstore and download; for Android, please download from our website or copy from another smartphone/tablet.

2. Press the probe button to start up, then open the Wi-Fi of the smartphone/tablet, select the Wi-Fi from the probe, and enter the password as the probe serial number with lower case letter (e.g. SN: ABCDEFG, the password is abcdefg, don’t input "SN").

3. Open the installed software and start to use.
Remind: probe button long press will be shutdown, short press will be freeze.

Install software
Scan QR code, or search "WirelessUSG" in Appstore and download

Smart phone became ultrasound scanner

Accessories & software

Accessories

Wireless charger
Puncture needle guide
Wrist strap belt clip
Android tablet/iPad
Smart glasses
Trolley cart
Disposable probe cover
guide pin bracket
Tablet bracket
Clinical application

Clinical value
As a visual precision medical tool, first aid quick examination, basic examination, wireless ultrasound probe is not only help the medical workers to improve working efficiency, reduce labor intensity and working pressure, but also conducive to improving the diagnosis level, to realize the visualization and precision of all kinds of diagnosis and treatment. So as to minimize the diagnosis and treatment errors, complications and sequelae, and minimize the medical accidents and medical disputes.

Application directions
1. Visualization tools: invasive intervention Guide, operation guide and therapeutic guidance
2. Emergency inspection: Emergency Clinical, ICU, Wild First Aid, Battlefield Rescue
3. Preliminary examination: Ward Inspection, Primary clinic/examination medical examination, health screening, home care, family planning and other health scanning;
4. Remote diagnosis, consultation, training: Working on smart phone or tablet, easy to implement applications by telecommunication.

Applicable Department
Anaesthesia, Painless ICU, urology, nephrology, Cardiology, rehabilitation, orthopedics, gynecology, reproductive, obstetrics, neonatology, pneumology, Gastroenterology, hepatological surgery, general surgery, vascular surgery, thyroid surgery, skull surgery, neurology, transplantation, Ophthalmology, dermatology, Emergency, nursing, inpatient, physical examination, and emergency center/ambulance, basic medical institution, family planning centers, family contract doctor, home care, the nursing home, confined center, plastic surgery, small needle knife/acupuncture treatment clinic, sports medical team, battlefield ambulance, disaster ambulance, etc.

Example of usages
Emergency inspection: internal bleeding, Pleural effusion, pneumothorax, Atelectasis of lung, Temporal / posterior auricular fistula, pericardiac effusion.
Daily inspection: Thyroid, Breast, Liver cirrhosis, Fatty liver, Prostate / pelvic, Stroke screening, Eye retinal artery, Uterus and accessory, Ovarian follicular monitoring, Fetus scanning, Musculoskeletal, plantapedis, Fracture judgment, varicose veins, Spleen, Bladder / urinary function, urine volume measurement.

Support to connect various internal and remote information system, convenient to the realization of consultation.

high praise from customers
Hello Mr. Zhang,
I wish you a happy new year. Thank you for the nice feedback. The probe is very good. I will work with it first and then start with the customer advertisement. I look forward to a good cooperation. Best regards
Karl Heinz Wilbert

Dear Col,
First of all, I would like to say Congratulations about the new color doppler. Good image !!!! Good features
GOOD ON!

Realize accurate, timely diagnosis and treatment, reduce medical malpractice, misdiagnosis missed diagnosis.
WirelessProbeEC2018/CO

- **Development goal**
  to become a world-class technology company

- **Performance/honor**
  - Leading launched 2D & 4D wireless ultrasound probe, pioneer at home and abroad
  - Innovative enterprises, technical level, new product research and development speed industry leading.
  - The state recognizes high-tech enterprises, and the national science and technology department focuses on research and development plans, innovation funds and industry-university-research projects.

- **Company culture**
  - Pursues innovation and differentiation
  - Focus on efficiency, efficient operation.
  - Create value, benefit mankind and achieve ego.
  - Only to do win-win cooperation, does not hurts interests.

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