



WF100

Ultrasonic Doppler Fetal Heartbeat Detector



1 Intended Use

The Ultrasonic Doppler fetal heartbeat detector is intended to be used for detecting fetal heart beats.

2 Accessories

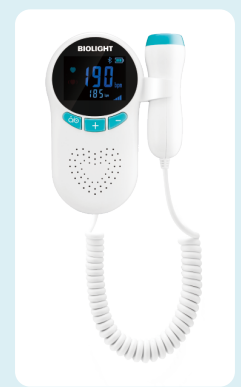
No.	Items	Quantity
1	Ultrasonic Doppler Probe	1
2	USB cable	1
3	Coupling gel	1

3 Features

- Compact and portable design.
- Built-in speaker and Interface of earphone.
- Large display, a better view.
- Accurate FHR detection with high-fidelity sound.
- Average and the real time FHR value.
- With Bluetooth and smart APP.
- Full charge for 6-hour continual use.

4 Packaging information

Carton Size: 280*200*50mm
G/W (Machine & carton) : 0.5KG



5 Specifications

Safety Specifications		Environmental Specifications	
Classification of protection against electric shock	Internally powered equipment.	Operating temperature	5°C to 40°C
Degree of protection against electric shock	Type BF applied part, without defibrillation protected.	Operating humidity	≤90% (non condensing)
Degree of protection against ingress of liquid	IP22	Operating atmospheric pressure	70kPa~106kPa
Degree of protection against hazards of explosion	Not suitable	Transportation and storage temperature	-20°C to +55°C
Mode of operation	Continuous	Transportation and storage humidity	≤93% (non condensing)
EMC	Group 1, class B	Transportation and storage atmospheric pressure	50kPa~106kPa

Physical Specifications		Battery Specifications	
Size(W×H×D)	138 mm(L) x111 mm(W) x 34 mm(H)	Battery type	3.7V 1500mAh lithium battery or 1.5V alkaline AA batteries
Weight	<500g		

Technical Specifications			
FHR measurement and display range	50~210 bpm	Accuracy	±2 bpm
Working Mode	Continuous wave Doppler	Ultrasonic working frequency fw	3.0MHz, the tolerance should less than ±10%
Ultrasonic output power	<10mW	Effective Radiating Area of Transducer	157 mm ² ± 15%
Sound output parameters	P _r < 1 MPa, I _{ob} < 20mW/cm ² , I _{spta} < 100mW/cm ² TI < 1.0, MI < 1.0	Overall sensitivity	≥90dB, 50mm:98dB\ 75mm: 99dB\ 100mm: 100dB\ 200mm: 98dB (Doppler frequency: 333Hz Target velocity:12.5cm/s)
Continuous working time	Consecutive 2 hours once it has full capacitance		

6 Overview

- Model WF100 is a low-cost and high performance fetal heart beat detector. It can detect real-time FHR(Fetal Heart Beat) and average FHR
- It is applicable for the private obstetrician's office, antepartum clinic, obstetrical department of hospital and remote monitoring situations, or using at home.
- It has a large screen display the FHR, and an audio output port connected with earphone or recorder with audio input.
- It uses 3.7V battery continual used for 6 hours.