

Product Specifications

1. Safety Specifications

1.1 Product Classification

Product name	Doppler Fetal Heart Rate Detector	
Safety Standard	EN 60601-1, IEC 60601-2-37	
Classification		
Electric shock resistance type	Internally powered equipment	
Electric shock resistance grade	Type B applied part	
Function	Ultrasonic Doppler fetal heart rate detector with the function of	
	fetal heart rate detecting	
The type of ultrasonic Doppler sensor	Continuous ultrasonic Doppler fetal heart rate detector	
Hazardous liquid immerging	Main unit is IDVO while probe is IDV1	
resistance grade	Main unit is IPX0 while probe is IPX1	
Safety grade when used in the condition	An aquipment can not used in the condition with mixed are a	
with mixed gas of flammable anesthetic	An equipment can not used in the condition with mixed gas of	
gas with air or/with Nitrous oxide	flammable anesthetic gas with air or/with Nitrous oxide	
Work type	Continuous work	
Electromagnetic compatibility	Group I, Class B	

1.2 Environment Specifications

Item	Temperature	Humidity (Non-Condensing)	Atmospheric Pressure
Operating	5℃-40℃	30%~85%	70kPa-106kPa
Storage & Transport	- 20 ℃-+55℃	≤93%	70kPa-106kPa

2. Physical Specifications

Dimensions	130mm×89mm×34mm	
Weight	405g (Including battery)	
Power specifications	DC	2 x 1.5V Alkaline Battery
	Power	500mW

3. Hardware Specifications

Battery		
Туре	Alkaline Battery (AA) (non-rechargeable)	
Storage temperature	-10°C~+40°C	
Rated voltage	2 x 1.5V	
Length of Power Supply	>5h	

4. Technical specifications

Probe		
Work mode	Continuous ultrasonic Doppler	
Ultrasonic work frequency	2MHz or 3MHz, tolerance: ±5%;	
Synthetical sensibility(At position 200mm far from the probe surface)	≥90dB (Measured in the state with rated work frequency of 2 MHz and reflecting target speed of 140bpm); (3MHz is optional, error: ± 5%);	
Maximum ultrasonic power output	<18mW	
Peak sound pressure at space peak and time peak	≤0.2MPa	
Output beam intensity	I_{ob} < 20 mW/cm ²	
Peak-negative acoustic pressure	P.≤1MPa	
Spatial-peak temporal-average derived intensity	I _{spta} <100mW/cm ²	
Effective ultrasonic emitting area	3.14cm ² ±10%	
Fetal heart rate (FHR)		
Measuring range of fetal heart rate	50bpm \sim 240bpm	
Resolution	1bpm	
Precision	±2bpm	
Display	LCD(Can be turned on and off the backlight)	
Fetal heart rate alarm limit	adjustable	
	Adjustable lower limit range: 50bpm \sim 120bpm	
	Adjustable upper limit range: 160bpm \sim 240bpm	
Alarm triggering time	<3s	
Audio output	$0.5W/8\Omega speaker$ can be connected with headphone, and the volume is adjustable	
Automatic power-off	it will automatically power off in case of no signal for 2 minutes	





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