

# SD3 Series

Ultrasonic Pocket Doppler  
Version 1.0

## Data Sheet



Physical Specifications	Main Unit	Dimensions(D×W×H) 168mm×31mm×67mm Weight 350g approx. (including the battery)		
	Probe	Dimensions(obstetrical probe) 39mm×140mm Dimensions(vascular probe) 25 mm×115mm Weight <100g Cable Length 2m		
		Charge Stand	Dimensions(D×W×H) 96mm×93mm×100mm Weight <200g	
	Display	0.96 inch OLED Double Color Screen		
Power Supply (SD3 Vascular /SD3 Lite)	3 AA alkaline battery LR6	Normal working time ≥10hours		
	3 AA rechargeable NI-MH battery R6	Normal working time ≥10hours Charge mode rechargeable NI-MH battery charger Charge time about 5 hours		
Power Supply (SD3 Plus /SD3 Pro)	Nominal Capacity	2600mAh		
	Nominal Voltage	3.7V		
	Normal working time	≥16hours		
	Charge time	≤6hours		
	Work Temperature	Charging Temperature	0°C ~ +45°C (+32°F ~ +113°F)	
		Discharging Temperature	-20°C ~ +60°C (-4°F ~ +140°F)	
	Storage Temperature	Within 1Month	0°C ~ +45°C (+32°F ~ +113°F)	
1 ~ 3Month		0°C ~ +35°C (+32°F ~ +95°F)		
3 ~ 12Month		0°C ~ +25°C (+32°F ~ +77°F)		
Audio Output	Output Power	2W		
FHR	Operating Mode	CW		
	Working Frequency	(2±10%)MHz/(3±10%)MHz		
	Nominal Frequency	2MHz/3MHz		
	2MHz/3MHz Obstetrical Probe	p-	<1MPa	
		I <sub>ob</sub>	<20mW/cm <sup>2</sup>	
		I <sub>spta</sub>	<100mW/cm <sup>2</sup>	
	Effective Radiating Area of Transducer	(245±15%)mm <sup>2</sup>		
	FHR Measurement Range	50bpm ~ 240bpm		
	Resolution	1bpm		
Accuracy	±2bpm			
Sensitivity	9 Weeks Gestation (3MHz)			
Vascular	Operating Mode	CW		
	Working Frequency	(4±10%)MHz/(5±10%)MHz/(8±10%)MHz		
	Nominal Frequency	4MHz/5MHz/8MHz		
	4MHz/5MHz/8MHz Vascular Probe	p-	<1MPa	
		I <sub>ob</sub>	<25mW/cm <sup>2</sup>	
	I <sub>spta</sub>	<100mW/cm <sup>2</sup>		
Effective Radiating Area of Transducer	4MHz/5MHz	(32±15%)mm <sup>2</sup>		
	8MHz	(14±15%)mm <sup>2</sup>		

<b>Recording and Playing</b>	Audio Sampling Frequency	4 kHz
	Recording Length	240 seconds
<b>Auto Power-off</b>	1 minute after no signal or operation, auto shut down.	
	Probe replacement, auto shut down.	
<b>Coupling Gel</b>	pH	5.5 ~ 8.0
	Acoustic Impedance	1.5x10 <sup>6</sup> Pa.s/m ~ 1.7x10 <sup>6</sup> Pa.s/m (35°C/95°F)
<b>Safety Specifications</b>	Standards Compliance	IEC 60601-1:2005, EN 60601-1:2006, IEC 60601-1-2:2014, EN 60601-1-2:2015, IEC/EN 61266:1994, EN 60601-2-37: 2008, IEC 60601-2-37:2007
	Anti-electric Shock Type	Internally powered equipment
	Anti-electric Shock Degree	Type B equipment
	Degree of Protection against Harmful Ingress of Water	Main Unit Ordinary Equipment (Sealed equipment without liquid proof) Probes IPX8
	Degree of Safety in Presence of Flammable Gases	Equipment not suitable for use in presence of flammable gases
	EMC	CISPR11 Group 1 Class B
	Working System	Continuous Operation
<b>Environmental Specifications</b>	Temperature	Working +5°C ~ +40°C (+41°F ~ +104°F) Transport and Storage -20°C ~ +55°C (-4°F ~ +131°F)
	Relative Humidity	Working 25% ~ 80% (non-condensing) Transport and Storage 25% ~ 93% (non-condensing)
	Atmospheric Pressure	Working 86kPa ~ 106kPa Transport and Storage 70kPa ~ 106kPa



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