



SonoTrax Series

Ultrasonic Pocket Doppler

Version 1.2

Technical Specifications

Physical Specifications

Main Unit	Dimensions(D* W* H): (34±1) mm x (89±1) mm x (141±1) mm Weight: < 300 g (including the battery)
Probe	Dimensions: 112 mm x 32 mm Weight: 100 g Cable Length: 2.5 m
Display	LCD Display: 45 mm x 25 mm Two Brightness Adjustable: OFF,ON

Power Supply (Sono Trax Vascular/Lite/Basic/Basic A/Pro)

Alkaline battery (AA LR6 1.5V)	Stand-by Time 9 hours
Rechargeable NI-MH battery (AA R6 1.2V)	Stand-by Time 8 hours

Power Supply (Sono Trax II/II Pro)

Nominal Capacity	1800 mAh
Nominal Voltage	2.4 VDC
Normal working time	≥ 8 hours
Charge time	≤ 4 hours

Audio Output

Output Power	1W
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FHR

Operating Mode	CW
Working Frequency	(2 ±10%) MHz / (3 ±10%) MHz
Nominal Frequency	2 MHz / 3 MHz
Obstetrical Probe	p- <1 MPa I _{ob} <10 mW/cm ² I _{spta} <100 mW/cm ²
Effective Radiating Area of Transducer	(245 ±15%) mm ²
FHR Measurement Range	50 bpm ~ 210 bpm
Resolution	1 bpm
Accuracy	±3 bpm
Sensitivity	10 Weeks Gestation(3 MHz)

Vascular

Operating Mode	CW
Working Frequency	(4 ± 10%) MHz / (5 ± 10%) MHz / (8 ± 10%) MHz
Nominal Frequency	4 MHz / 5 MHz / 8 MHz
4MHz / 5MHz / 8MHz Vascular Probe	p- <1 MPa I _{ob} <10 mW/cm ² I _{spta} <100 mW/cm ²
Effective Radiating Area of Transducer	4 MHz / 5 MHz: (32 ±15%) mm ² 8 MHz: (14 ±15%) mm ²

Recording and Playing

Audio Sampling Frequency	4 kHz
Recording Length	240 seconds

Auto Power-off

1 minute after no signal or operation, auto shut down.

Ultrasonic Gel

Acoustic Impedance	1.5 × 10 ⁶ Pa • s/m ~ 1.7 × 10 ⁶ Pa • s/m(35 °C /95 °F)
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pH 5.5 ~ 8.0

Safety Specifications

Standards Compliance	IEC 60601-1:2005+A1:2012, EN 60601-1:2006+A1:2013, IEC 60601-1-2:2014, EN 60601-1-2:2015, IEC/EN 61266, IEC/EN 60601-2-37
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

Environmental Specifications

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: 86 kPa ~ 106 kPa Transport and Storage: 70 kPa ~ 106 kPa

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