

SONOTRAX Series

Ultrasonic Pocket Doppler

Version 1.0

Data Sheet



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Physical Specifications	Main Unit	Dimensions(D×W×H) (34±1)mm×(89±1)mm×(141±1)mm Weight <300g (including the battery)
	Probe	Dimensions 88mm×35mm Weight 100g Cable Length 2.5m (SD5)
	Display	45mm×25mm LCD Display Two Brightness Adjustable
Power Supply (SonoTrax Vascular/ Lite/ Basic/ Basic A/ Pro)	Alkaline battery (AA LR6 1.5 V)	Stand-by Time 9hours
	Rechargeable NI-MH battery (AA R6 1.2 V)	Stand-by Time 8hours
Power Supply (SonoTrax II/ II Pro)	Nominal Capacity	1800mAh
	Nominal Voltage	2.4V
	Normal working time	≥8hours
	Charge time	≤4hours
Audio Output	Output Power	1W
FHR	Operating Mode	CW
	Working Frequency	(2±10%)MHz/(3±10%)MHz
	Nominal Frequency	2MHz/3MHz
	2MHz/3MHz Obstetrical Probe	p- <1MPa I _{ob} <10mW/cm ² I _{spta} <100mW/cm ²
	Effective Radiating Area of Transducer	(245±15%)mm ²
	FHR Measurement Range	50bpm ~ 210bpm
	Resolution	1bpm
	Accuracy	±3bpm
	Sensitivity	10 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 _{ob} <10mW/cm ² I _{spta} <100mW/cm ²
	Effective Radiating Area of Transducer	4MHz/5MHz (32±15%)mm ² 8MHz (14±15%)mm ²
Recording and Playing	Audio Sampling Frequency	4kHz
	Recording Length	240seconds
Auto Power-off	1 minute after no signal or operation, auto shut down.	
Coupling Gel	pH	5.5 ~ 8.0
	Acoustic Impedance	1.5×10 ⁶ Pa.s/m ~ 1.7×10 ⁶ Pa.s/m (35°C/95°F)

Safety Specifications	Standards Compliance	IEC 60601-1:2005, EN 60601-1:2006, IEC 60601-1-2:2007, EN 60601-1-2:2007, 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 86kPa ~ 106kPa Transport and Storage 70kPa ~ 106kPa



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