## **Chapter 5 Product Specifications**

Product Name: Ultrasonic Pocket Doppler

Model No.: SONOTRAX Lite, SONOTRAX Basic, SONOTRAX Pro

Safety

Complies with: EN 60601-1/1990

Classification:

Anti-electric Shock Type: Internally powered equipment

Anti-electric Shock Degree: Type B equipment

Degree of Protection against Harmful Ingress of Water:

Main Unit: Non-protected

2.0MHz Waterproof Monitoring Probe, 2.0MHz Waterproof Probe, 3.0MHz Waterproof Probe: IP68 level, protected against the effects of continuous immersion in water with 1 m depth for 24 hours

Degree of Safety in Presence of Flammable Gases: Equipment not suitable for use in presence of flammable gases

Working System: Continuous running equipment

EMC: Group I Class B

**Physical Characteristic** 

Size: 32 (Depth) x 85 (Width) x 138 (Height) mm

Weight: 290±5g (including one battery)

**Environment** 

Working: Temperature:  $+5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ 

Humidity: ≤80%

Atmospheric Pressure: 86kPa ~ 106kPa

Transport and Storage: Temperature:  $-10^{\circ}$ C  $\sim$  + 55  $^{\circ}$ C

Humidity: ≤93%

Atmospheric Pressure: 86kPa ~106kPa

**Display**: 45\*25mm LCD display

**FHR Performance** 

FHR Measuring Range: 50BPM~210BPM

Resolution: 1BPM

Accuracy: ±3BPM

**Recording and Playing** 

Audio Sampling Frequency: 4KHz/8KHz

Recording Length: 480s/240s Recording can be played

## White Back Light

Two Brightness Adjustable: OFF, ON

**Audio Output Power: 0.5W** 

Auto Shut-off: After 1 minute no signal, auto power off

Battery Type Recommended: 9 volt DC alkaline battery.

IEC Type No. 6LR61/6LF22 or equivalent.

Battery life (6LR61) exceeds 250 examinations (It is a typical figure based on the number of one minute examinations - will

vary depending on use)

## **Rechargeable Battery**

Normal Charge Temperature: 0°C~45°C

Storage Temperature: -5°C~35°C

Normal Charge: ≥4h (normal temperature), 160mA

Cycle Life≥300 times

## Ultrasound

Nominal Frequency (2.0MHz Waterproof Monitoring Probe/ 2.0MHz Waterproof Probe/ 3.0MHz Waterproof Probe): 2.0MHz/ 2.0MHz/ 3.0MHz

Working Frequency (2.0MHz Waterproof Monitoring Probe/ 2.0MHz Waterproof Probe/ 3.0MHz Waterproof Probe): 2.0MHz±10%/ 2.0MHz±10%/ 3.0MHz±10%/

P-: <1MPa

 $I_{\rm ob}$ <20 mW/cm<sup>2</sup>

Ispta: <100mW/cm<sup>2</sup>

Working Mode: Continuous wave Doppler

Effective Radiating Area of Transducer (2.0MHz Waterproof Monitoring Probe/ 2.0MHz Waterproof Probe/ 3.0MHz Waterproof Probe): 113 mm<sup>2</sup>±15%/ 245mm<sup>2</sup>±15%/