

CE 0123

FDA 510(k)

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Heal Force

## Prince-200A Fetal Doppler

## User Manual



## 4 Technical Parameters

### 1. FHR

FHR measuring range: 50~210bpm

FHR resolution: 1bpm

FHR accuracy:  $\pm 1\text{bpm}$  or 1%, whichever is greater.

### 2. Doppler probe

Working mode: Pulse wave Doppler

Ultrasonic working frequency: 1MHz; accuracy:  $\pm 2\%$

### 3. Acoustic Output

According to the requirement of standard IEC 1157:1992 and IEC 61266:1994, the parameters of acoustic output for PC-860B should be declared in the following by the manufacturer:

Nominal acoustic working frequency: 1.0MHz;

Overall sensitivity:  $\geq 90\text{dB}$  (measured at the distance of 200mm away from the surface of probe with Doppler shift frequency of 333Hz and the velocity of target at 12.5cm/s)

Maximal peak negative pressure ( $P_{\text{max}}$ ):  $< 1\text{MPa}$

Output intensity of acoustic beam ( $I_{\text{ob}}$ ):  $< 20\text{mW/cm}^2$

Spatial-peak time-average acoustic intensity ( $I_{\text{spta}}$ ):  $< 100\text{mW/cm}^2$

Effective area of the ultrasonic transducer active element:  $\geq 400\text{mm}^2$

### 4. Power Supply Requirement

Power supply: 3 x AA size batteries

Supply voltage range: 3.6VDC~4.8VDC

Operating current:  $< 150\text{mA}$

### 5. Loudspeaker output power: 1W

### 6. Auto Power-off Function: Power off automatically if no FHR signal is detected for longer than 1 minute.

### 7. Classification

**The type of protection against electric shock:**

Internally powered equipment

**The degree of protection against electric shock:**

With Type BF applied part

**The degree of protection against harmful ingress of liquid:**

Ordinary equipment without protection against ingress of water.

**Electro-Magnetic Compatibility:** Group I, Class B

### 8. Environmental

Operating Temperature:  $5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$

Relative Humidity: 20% to 85% non-condensing

Atmospheric Pressure: 70~106kPa