

**PULSE OXIMETERS**

**SEPTEMBER - 2008**



**MEDICAL CONSUMER PRODUCTS**

**PULSE OXIMETER**

**Quality System Standard applied: ISO 9001, ISO 13485**

**CE Certification. 1011**

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The Company is a high-tech enterprise for manufacturing medical equipment in China. The company was founded in January 2000. Since its foundation Supplier has been working hard on the research, development, manufacture and sales of electronic medical equipment, especially patient monitors and homecare devices.

The Company has established its quality management system according to ISO 9001 & ISO 13485 standards. With a strict control of quality management, most of its products have been CE marked and some products have been approved by FDA 510(K) Premarket Notification.

Its current products include Pulse Oximeter (such as Finger Oximeter, Handheld Pulse Oximeter and Wrist Oximeter), Easy ECG monitor, Patient Monitors, Obstetric/Fetal Monitors, Fetal Doppler, and Central Monitoring System etc.

Together with its partners, The Company is trying its best to provide products of good quality in affordable price for the healthcare of more people.

## FETAL MONITOR PC-800

**Product description :**

6\_LCD display for FHR, FM, and waveforms of FHR and TOCO  
 FM marking function can be set automatically or manually  
 Built-in 110mm thermal printer  
 Portable type in a compact design  
 All the operations are controlled by computer  
 Applicable in hospitals and patient's home  
 Networking capability

**Ultrasonic**

Working theory Pulse Doppler system  
 Ultrasonic working frequency 1MHz  
 Ultrasonic output intensity ISATA 2.5mW/cm<sup>2</sup>  
 Sampling rate 1KHz  
 FHR Measuring range 35bpm~220bpm  
 FHR accuracy 1bpm (65-210bpm)  
 FHR volume 1~14 grades adjustable, default: 7  
 FHR alarm High and low limits setting, automatic memory

**TOCO**

TOCO transducer External pressure transducer  
 TOCO measuring range 100g~400g  
 TOCO pressure display 0~100

TOCO alarming range High limit: 1~100%, default: 100%  
Low limit: 0~99%, default: 0%  
Zero setting mode Manual

### FM

FM working mode Automatic and manual FM marking function

A solid triangle mark emerges Only one time will be counted within at the top of FHR waveform five minutes even if the key is pressed for many times

### Other Specifications

Main structure Integrative and portable

Screen 6\_LCD display

Waveforms FHR and TOCO waveforms display,

FM marking function

Interface English

### Operating Environment

Ambient temperature 5~40\_

Relative humidity \_85%

Atmospheric pressure 86kPa~106kPa

### Power supply

Power supply 220 VAC, 50 Hz and 100-250VAC 50/60Hz selectable

Power consumption \_ 50 VA

Review time 3 hours

Safety standard EN IEC60601-1 (GB9706.1)

Quality system

ORKI 13485:2003

CE EN ISO 13485:2003

### Printer

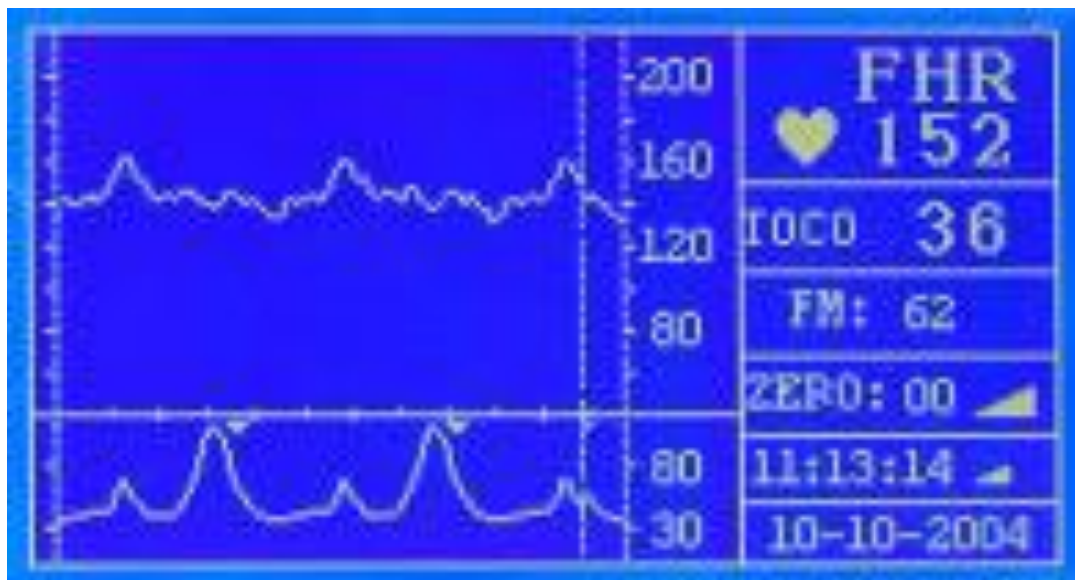
Printer type Built-in 110mm thermal printer

Print mode Real-time or event triggered recording of waveforms and texts

### Configuration

Standard configuration Ultrasonic transducer, TOCO transducer,

FM marker, build-in 110mm thermal printer



## FCETAL DOPPLER PC-860B

**Product description :** This Foetal Doppler is a handheld carry-home Foetus/Mother monitor.



The **Foetal (Heartbeat) Doppler** is used to monitor and display the **Foetal Heart Rate (FHR)**, which can be used to analyze the healthy condition of foetus for pregnant women. As a result, the **Foetal Doppler** can provide doctors with useful references for diagnosis.

The **PC-860B Foetal Doppler** has following features:

LCD display, and with EL backlight

With two display modes: Numerical Display of FHR and Curve Display of FHR variety

The calculation of FHR is precise and credible because of using the same DSP (digital signal processing) technology and FHR arithmetic as clinical **Foetal** monitor;

Supersonic working frequency is 1 MHz, which is much lower than **Foetal** monitoring requirement (refer to international standard), so it's safer;

Embedded speaker and audio output port;

With Alarm function, and the alarm limits can be set.

3xAA batteries are used and with battery state indication;

Power off automatically if no FHR signal can be detected lasting for more than 1 minute

Friendly user interface and easy operation;

**The Fetal (Heartbeat) Doppler is applicable to use for pregnant women in maternity department of hospitals, in clinics, or home healthcare.**

### Comparison of PC-860A and PC-860B

	LCD Display	Working mode and frequency
PC-860A	Numerical Display	Continuous Wave, 2.5MHz
PC-860B	Wave Display	Pulse, 1MHz

## HEALTH CARE

### PULSE OXIMETER



There are 3 models of **Fingertip Oximeter**, which are **PC-60A**, **PC-60** and **PC-60C**. Their differences are described as following tables

Products Name	Display	Measuring Parameters	Power Supply management	Alarm Indication
PC-60A fingertip Oximeter	Black & White LCD	SpO <sub>2</sub> , Pulse Rate, and Pulse Intensity	Automatic power-off	No
PC-60B fingertip Oximeter	Black & White LCD with backlight	SpO <sub>2</sub> , Pulse Rate, Perfusion Index, and Pulse Intensity	Automatic power-on and power-off	Yes
PC-60C fingertip Oximeter	Colour OLED Screen	SpO <sub>2</sub> , Pulse Rate, Perfusion Index, and Pulse Intensity; And also with plethysmograph display.	Automatic power-on and power-off	Yes

### TECHNICAL SPECIFICATION

#### Measuring range :

Pulse: 30 bpm – 240 bpm

SpO<sub>2</sub> : 35% - 99%

PI: 0.2% - 2.0%

Accuracy:

SpO<sub>2</sub>: +/- 2% (During 75% - 99%)

+/- 3% (During 50% - 75%)

Pulse rate: +/- 2 bpm or +/- 2% whichever is greater

PI: +/- 0.1% (During 0.2% - 2.0%)

+/- 1% (During 2.0% - 10%)

#### Resolution:

SpO<sub>2</sub>: 1%

Pulse rate: 1 bpm

PI: 0.1%

#### Alarm range:

SpO<sub>2</sub> alarm: low limit 90%

Pulse rate alarm: High limit 120 bpm  
Low limit 50 bpm

**Power supply requirement:** 1.5 V (AAA size) alkaline battery x 2

**Battery voltage:** 2.7 V – 3.3 V

**Resistance to surrounding light:**

The difference between the values measured in the conditions of indoor natural light and that of darkroom is less than +/- 1%

Resistance to interference of man-made light:

Values of SpO2 and Pulse Rate can be accurately measured by pulse oxygen simulator.

**Photosensitive components:**

Red light (wavelength: 660 nm) and infrared (wavelength: 940nm)

**Dimensions:**

66 mm (L) x 36 mm (W) x 33 mm (H)

**Net weight:** 60 g (including batteries)

**Classification**

**The type of protection against electric shocks:** Internally powered equipment

**The degree of protection against electric shocks:** Type BF equipment

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

**Accessories:**

- 1 hanging cord
- 2 AAA batteries
- 1 pouch
- 1 user manual

**Optional accessories**

**Carry Case -**

**Handheld Oximeter PC-66B**



**Product description :** The Handheld Pulse Oximeter can monitor SpO2, Pulse Rate (PR), Pulse Intensity and Perfusion Index; it can store SpO2 and PR data, which can be uploaded to PC for further review and analysis. As a result, it can be reviewed the SpO2 trend curves. This pulse oximeter is applicable to home, hospital, and clinic.



## Wrist Oximeter PC-68



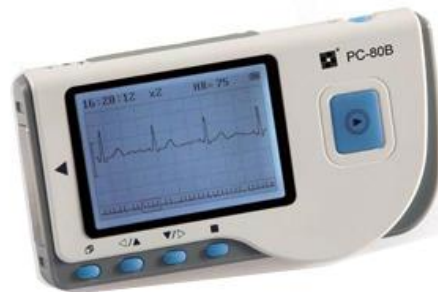
**Product description :** The PC-68B Wrist Oximeter is small, lightweight and available for home use as well as clinics in long-term and comfortable monitoring. It can be simply worn on the patient's wrist as the watch to start the monitoring devices, and can be used in sports to measures SpO2 and pulse rate etc.

## EASY ECG MONITORS

**PC-80A**



**PC-80B**



PC-80A => Easy ECG Monitor is designed for home use with the purpose of health care, and is suitable for users who may suffer from cardiovascular disease, such as hypertension, diabetes, coronary heart disease etc. It can be used to check their heart conditions regularly, and the stored ECG records can be used as a reference for clinical ECG examination.

PC-80B => ECG waveform and analysis results are displayed on high resolution LCD. Automatic Power-off without signal for 35 seconds. 500 times measurement can be taken with two batteries. Data can be stored in an inserted SD card.