



Baby Sock

User Manual



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Shanghai Chi Miao Med Tech Co., Ltd.

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Product Introduction

1.1 How the Smart Baby Sock Works

The Smart Baby Sock is a general wellness product specially designed for infants and toddlers. It utilizes AI algorithms to detect abnormal behaviors such as crying and kicking off blankets while the baby sleeps or when caregivers are temporarily unavailable. The device simultaneously measures physiological metrics including blood oxygen saturation, pulse rate, and body surface temperature, and sends instant alerts to guardians to help parents monitor their babies with greater peace of mind.

1.2 Applicable Baby Age & Weight

Suitable for healthy infants aged 1–18 months, available in two fabric sock sizes based on weight:

- Size S Fabric Sock: For babies under 5.4 kg
- Size M Fabric Sock: For babies weighing 5.4 kg to 13.5 kg

This product fits healthy infants aged 1–18 months. Babies aged 18–24 months may also wear it comfortably as long as their weight does not exceed 13.5 kg. If you have questions, contact our customer service with your baby's weight, age and foot size for consultation.

1.3 Package Contents

- 1 × Sock Sensor Module
- 1 × Smart Wrist Receiver (supports multi-mode alerts: vibration, buzzer sound, screen display)
- 2 × Size S Fabric Socks
- 2 × Size M Fabric Socks
- 1 × Type-C Charging Cable
- Quick Start Guide

The mobile APP must be downloaded and installed separately.

1.4 Product Functions

Sock Sensor Module Functions

- Measure blood oxygen saturation (SpO₂) and pulse rate (PR)
- Measure body surface temperature and ambient surface temperature
- Detect baby crying signals
- Detect body movement signals

Wrist Receiver & Mobile APP Shared Functions

- Receive real-time readings of SpO₂, pulse rate and temperature
- Vital sign abnormality alerts: notifications when SpO₂ or pulse rate falls outside safe thresholds
- Cry alert: triggers notification when continuous baby crying is detected
- Blanket kick-off alert: triggers notification when the baby kicks off bedding

Pre-Use Preparation

2.1 Unboxing Inspection

After opening the package, verify all items below are complete and undamaged:

- 1 × Sock Sensor Module
- 1 × Smart Wrist Receiver
- 2 × Size S Fabric Socks
- 2 × Size M Fabric Socks
- 1 × Charging Cable
- 1 × Quick Start Guide

Contact customer service immediately if any item is missing or damaged.

2.2 Charging Preparation

Fully charge the sock sensor before first use:

1. Connect the sock sensor to a power adapter (sold separately) via the charging cable.
2. The indicator light will show red breathing light during charging.
3. The light will flash green once fully charged.

To ensure full-night continuous monitoring, fully charge the device before use. The wrist receiver will send a low-battery alert when the sock sensor power drops below 30%.

2.3 Assembling the Sensor Sock Module

Select the appropriate sock size (S or M) according to your baby's weight. Align the positioning hook-and-loop fastener on the sock sensor with the hook surface on the inner fabric sock, and press firmly to secure a tight fit.



Operation & Setup Guide

3.1 How to Use the Smart Baby Sock

3.1.1 Power On the Sock Sensor

Shake the sock sensor back and forth for 5 seconds. A flashing green indicator light means the device has entered working mode.

Note: The sensor must be plugged in to activate for first-time use. It will automatically shut down if left unused for long periods with low battery; plug in and charge to reactivate before reuse.

3.1.2 Wear the Sock & Read Vital Data

1. Put the assembled sock on the baby's left foot.
2. Place the side with the sensor casing facing upward on the instep.
3. Align the sensor optical window with the outer side of the baby's foot (the junction of instep and sole).
4. Fasten the sole hook-and-loop strap to secure the sock flat without wrinkles.
5. Wrap the ankle strap and adjust to a comfortable tightness.

Note: The sock should stay stable without sliding, but do not fasten too tightly to avoid restricting blood circulation. Readjust the position of the sensor window every 2 hours during use.

3.1.3 Finish Using the Smart Sock

Remove the sock from the baby's foot after use and store it in a safe place. The sock sensor will power off automatically if no activity is detected within 5 minutes.



3.2 Wrist Receiver Operation Guide

3.2.1 Power On

Press and hold the side button of the wrist receiver for approximately 3 seconds to power on. No data will display if the sock sensor is not activated.



3.2.2 Confirm Successful Connection with Sock Sensor

Ensure the sock is properly worn on the baby's foot and the sock sensor shows a flashing green light. Once connected successfully, the main screen of the wrist receiver displays:



- Blood oxygen saturation reading
- Pulse rate reading
- Body surface temperature and ambient surface temperature readings
- A green smiley icon when all vitals are normal

3.2.3 Abnormal Alert Notifications on Wrist Receiver

When continuous crying, blanket kicking, or out-of-range SpO₂/pulse rate values are detected, the wrist receiver activates vibration + buzzer alerts and displays a red warning icon on screen. Parents should check the baby's condition promptly.

Short-press the wrist receiver button to pause vibration and buzzer alerts; alerts will resume after 5 minutes.

Low Battery Alert: A low-power icon will appear in the top-left corner of the wrist receiver screen when the sock sensor battery falls below 30%.



3.2.4 Dual Baby Mode

When two sock sensors are activated simultaneously, the wrist receiver automatically switches between the two babies' vital data every 5 seconds.



3.3 Mobile APP Operation Guide

3.3.1 APP Download & Installation

Scan the QR code printed on the product box, or visit the link <https://web.berry-med.com/#/app> to download the APP.

System Requirements: iOS 15.5 or above / Android 10 or above.

3.3.2 Account Registration & Device Binding

Launch the APP, complete registration/login with your mobile phone number, enable Bluetooth permissions on your phone, and tap the "Smart Baby Sock" icon to view real-time vital data. As shown in Figure 1.



Figure 1



Figure 2

3.3.3 Confirm Successful Connection with Sock Sensor. As shown in Figure 2.

Ensure the sock is properly worn on the baby's foot and the sock sensor shows a flashing green light. Upon successful connection, the APP interface displays:

- Blood oxygen saturation reading
- Pulse rate reading
- Body surface temperature and ambient surface temperature readings
- A green smiley icon when all vitals are normal

3.3.4 APP Abnormal Alert Notifications

When continuous crying, blanket kicking, or out-of-range SpO₂/pulse rate values are detected, the APP triggers vibration + audio alerts and displays a red warning icon on screen. Parents should check the baby's condition promptly. As shown in Figure 3. Tap the icon in the top-right corner of the screen to temporarily mute vibration and sound alerts. The APP displays real-time battery level of the sock sensor at all times.

3.3.5 APP Settings

Tap the Settings icon to adjust the following configurations:

- Temperature unit switch: Celsius / Fahrenheit (Fahrenheit set as default)
- Adjustable alert thresholds (default values pre-configured, customizable as needed)

It is recommended to enable notification permissions and background running access for the Berry Health APP in your phone system settings to guarantee timely alert push notifications. As shown in Figure 4.



Figure 3



Figure 4

Product Introduction

4.1 Wearing Precautions

- Secure the sock sensor firmly without sliding, align the optical window closely against the outer foot, but avoid over-tightening the fabric sock to prevent blood circulation obstruction.
- Frequently inspect the baby's foot skin; remove the sock immediately if red indentations appear.
- If unsure of sizing, test the smaller size first.

4.2 Operating Environment Requirements

- Recommended operating ambient temperature: 15°C ~ 30°C
- Keep the device away from high temperature, high humidity and strong magnetic field environments
- Maximum effective communication distance between wrist receiver and sock sensor: 10 meters

4.3 Charging Safety Instructions

- Keep all charging components away from infants during charging to avoid choking hazards from small parts.
- Charging voltage: DC 5V; full charging time: approximately 2 hours
- Do not monitor the baby with the device while charging.

Power Adapter Requirements (Sold Separately)

1. Safety Standard: Must pass NRTL certification (e.g. UL), comply with UL 1310 Class 2 power supply standards.
2. EMC Compliance: Must meet FCC Part 15 Class B emission limits.

Troubleshooting

The following are common problems encountered during the usage process and their solutions:

Issue	Solution
Sock sensor fails to activate	Check if the battery is fully drained; charge for 15 minutes then retry. If the indicator light remains unlit, contact customer service.
Wrist receiver receives no alerts	Confirm the distance between wrist receiver and sock sensor is within 10 meters; verify the sock sensor is powered on normally.
Abnormal vital data readings	Check if the sock is worn correctly and the optical window aligns with the outer foot; confirm the sock is neither too loose nor too tight.
Wrist receiver cannot power on	Charge for 15 minutes then retry; contact customer service if it still fails to start.
No charging indicator light on sock sensor	Check secure connection of the charging cable; replace the power adapter and test again.

Product Specifications

6.1 Sock Sensor Module Specifications

Item	Specification
Sensor Dimensions	L:98mm × W:35mm × H:12mm
Size S Fabric Sock Dimensions	L: 180mm × W: 60mm × H: 2mm
Size M Fabric Sock Dimensions	L: 205mm × W: 63mm × H: 2mm
Fabric Material	Inner layer: Polyester + Spandex; Outer layer: Nylon + Spandex
Net Weight	13.5g (Size S sock + sensor module)
Waterproof Rating	IP22
Battery	Rechargeable lithium battery, 80mAh, nominal 3.7V
Battery Life	Up to 24 hours on full charge
Charging Interface	Type-C; charging time ~2 hours, charging voltage DC 5V
Communication Protocol	Bluetooth Low Energy BLE 5.0
Indicator Light	Displays battery level, charging status, working status and Bluetooth connection status
Auto Power-Off	Shuts down if no data detected within 5 minutes

6.2 Wrist Receiver Specifications

Item	Specification
Dimensions	Approx. L:56mm × W:57mm × H:14mm
Net Weight	Approx. 34g
Waterproof Rating	IP22
Battery	Rechargeable lithium battery, 330mAh, nominal 3.7V
Battery Life	Up to 20 hours on full charge
Charging Interface	Type-C; charging voltage DC 5V ±5%
Display Screen	1.83-inch LCD screen
Alert Triggers	Baby crying, blanket kick-off, SpO ₂ & pulse rate out of threshold range
Dual Baby Mode	Switches vital data of two babies every 5 seconds
Alert Modes	Vibration motor + buzzer sound
Screen Sleep	Screen dims after 30 seconds of inactivity with no active alerts
Auto Power-Off	Shuts down if no data received from sensor for 2 consecutive hours

6.3 Mobile APP Specifications

Item	Specification
Supported OS	iOS 15.5 and above / Android 10 and above.
Alert Triggers	Baby crying, blanket kick-off, SpO ₂ & pulse rate out of threshold range
Dual Baby Mode	Simultaneous display of two babies' data on one page
Temperature Unit	Default °F, switchable to °C
Alert Thresholds	Pre-set default values, fully customizable
Bluetooth Requirement	Bluetooth 4.2 or higher

Maintenance & Care

7.1 Daily Cleaning

- Hand wash fabric socks in cold water with mild detergent only.
- Wipe the surface of the sock sensor gently with a slightly damp soft cloth; do not submerge the sensor in water or machine wash it.
- Ensure all components are fully dry before next use.

7.2 Charging & Storage

- Keep the sensor connected to charging cable when not in use to maintain full battery.
- Fully charge the device before long-term storage, and top up the battery every 3 months.
- Store in a cool, dry location; avoid high temperature and humid environments.

7.3 Replacement Fabric Socks

Prepare multiple fabric socks for rotation to keep them clean and dry. Visit our official store to purchase extra replacement socks if needed.

Transportation Conditions

Observe the following storage and transportation requirements:

- Ambient temperature: -20°C ~ +55°C
- Relative humidity: ≤85% (non-condensing)
- Avoid severe vibration, heavy stacking, rain exposure and chemical corrosion
- Maximum stacking layers: No more than 5 cartons
- Keep original packaging intact during transit

After-Sales Service Provider

Company: Shanghai Chimiao Med Co., Ltd.

Email: sales@pepultech.com

Maintenance & Care

10.1 FCC Warning Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference;
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE 2: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

10.2 General Wellness Product Statement

This device is a General Wellness Product. It helps parents track infants' abnormal behaviors during sleep or temporary unattendance. As part of healthy lifestyle, it alerts abnormal activity to promote effective sleep management for babies.

It uses AI algorithms to identify and track sleep trends of infants, including crying and blanket-kicking. The device will estimate and output sleep physiological metrics (SpO₂, pulse rate, surface temperature) and send instant guardian alerts for full infant sleep supervision.

- Are non-invasive and not-implanted;
- Do not involve an intervention or technology that may pose a risk to the safety of users or other persons if specific regulatory controls are not applied;
- Are not intended for the diagnosis, cure, mitigation, prevention, or treatment of a disease or condition;
- Are not intended to substitute for an FDA-authorized, cleared, or approved device;
- Do not include claims, functionality, or outputs that prompt or guide specific clinical

action or medical management;

- Are not include values that mimic those used clinically