

Product Introduction

Positioning and Core Technology

Shenmou Technology's Carnation Smart Monitor integrates sensor technology, AI algorithms, and a health database to provide 24/7 accurate monitoring of heart rate and respiration without contact or radiation, achieving seamless health protection.

Core Functions and Health Management

Based on LSTM neural network analysis of HRV and sleep quality, it provides early warnings of sleep apnea and arrhythmia risks, generates weekly/monthly reports, and offers health recommendations. It models the baseline period (1-30 days), dynamic period (31-90 days), and intervention period (91+ days) to construct a closed loop of monitoring, early warning, intervention, and tracking.

Application scenarios and differentiating advantages

For home-based elderly care, post-operative rehabilitation, and sub-healthy individuals, high precision and privacy are ensured through multi-terminal synchronization; invisible monitoring is integrated into daily scenarios, practicing "invisible technology, visible health," and reshaping the standards of intelligent health monitoring.

Parameters

Model: SMKJ-I

Input: 5V/2A

IP: IPX0

Operating temperature: 0~40°C

Operating humidity: 10%~90%RH

Function Introduction

1.Real-time vital signs monitoring

Type	Function	Value
Dynamic heart rate	Continuous heart rate	Reflecting dynamic changes in the cardiovascular system
Heart health	HRV	Quantifying autonomic nervous system regulation capabilities
Respiratory function test	OSA/Breath analysis	Warning signs of obstructive sleep problems
Sleep quality analysis	Multistage sleep stages	Constructing a sleep structure map

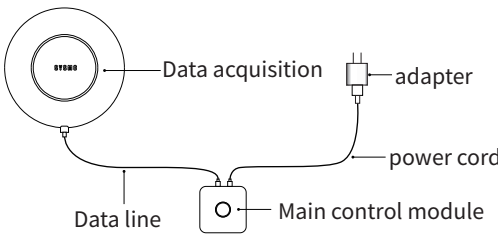
2.Risk warning and assessment

Type	Index	Warning content
Cardiovascular risk warning	HRV Nonlinear Analysis Model	Predicting the risk of cardiac arrhythmia
Sleep Disorder Assessment	AHI Classification Index	OSA Analysis Report
Psychological state assessment	Physiological signal quantification analysis	Stress Health Report and Guidance
Autonomic nervous system assessment	Sympathetic-vagal balance assessment	Generate autonomic nervous system reports

Equipment installation

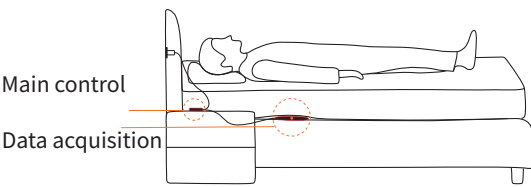
1.Connecting devices

Please connect the device according to the hardware connection diagram.



2.Install

Please install the device according to the installation diagram. Place the data acquisition module under the mattress at the chest and abdomen position (if there are multiple mattresses, place it under the mattress closest to your body). Place the main control module at the head of the bed or stick it to the wall after binding the device. The device will automatically activate after being plugged in.



Device binding

Scan the QR code with your phone to access the Deepwise Healthcare Platform and download the SYSMO Smart Treasure APP, or search for the "sysmo" APP in your mobile app store to download and install it. Follow the prompts to complete the binding process.

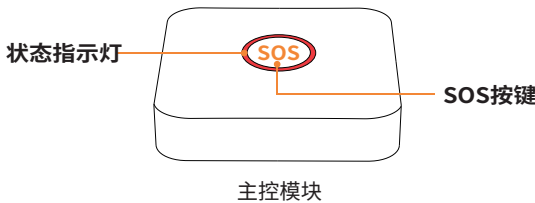


Equipment use

1.Report Acquisition:One hour after waking up each day, your sleep health assessment from the previous night will be automatically sent to our WeChat official account.

2.Data View:Open the app to view the latest and historical reports, including: total cardiac energy, heart rate variability analysis, heart rate analysis, respiratory rate analysis, OSA analysis, sleep quality analysis, and real-time data viewing.

3.SOS Help:Press and hold the SOS button for 3 seconds. The status indicator light will flash red, indicating that the alarm has been successfully triggered (you need to bind an emergency contact in the mini-program or APP).



Safety Usage Guide

Software Copyright Notice

The products described in this manual include software copyrighted by Beijing Shenmou Technology Co., Ltd. and its licensors. Any unauthorized copying, distribution, modification, or excerpting of the software is considered an infringement of software copyright unless expressly permitted by the relevant rights holder or otherwise stipulated by applicable law.

Data and privacy security

Upgrading your device's firmware and system using unauthorized third-party software may cause your device to malfunction or leak your personal information, posing a security risk. To understand how we protect your personal information, please carefully read the Carnation User Agreement.

Precautions

1. Do not use this device in medical settings where wireless devices are prohibited (such as ICUs and operating rooms).
2. This device is not waterproof; do not wash or allow it to come into contact with liquids.
3. The device and accessories contain small parts; keep them out of reach of children.
4. Children must be supervised by an adult at all times while using the device to prevent accidental swallowing of parts or damage.
5. Use only the officially certified power adapter. Do not use incompatible accessories to prevent short circuits or fires.
6. Avoid placing the device in high-temperature, humid, direct sunlight, or strong vibration environments.
7. Do not disassemble the device yourself. Contact official customer service for assistance in case of malfunction.

Frequently Asked Questions

Question	Reason	Solution
No report	The power cord or data transmission cable is loose or has come loose.	Check that all parts of the product are properly connected.
	The device was not placed below the chest and abdomen; the user was outside the effective measurement range of the data acquisition module.	During placement, confirm that the data module is located in the lower part of the chest and abdomen.
Data missing in report	Sensor not connected	Confirm sensor connection is intact
Real-time anomaly detection	The system is currently disconnected from the bed and has not been installed in the designated location.	Install the equipment in the designated position, keeping it below the chest and abdomen.
	No data uploaded. Reasons include: device not started, network not connected.	Confirm that the device has started normally and that the network connection is normal. If necessary, please restart the device.

FCC Compliance 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.

FCC Warning Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

FCC Radiation Exposure Statement
The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.



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