

Magicare Sleep Monitor

User Manual

Magicare Smart Elderly Inc.

Summary

1. Magicare Vital Sign Monitoring Pad

The product employs high-sensitivity multi-sensor monitoring technology, enabling real-time, rapid, and precise measurement of heart rate, respiratory rate, body movements, and bed exit actions without physical contact. By utilizing the long-term data collected from the monitoring pad, clients can accurately analyze health data such as abnormal heart rates, abnormal respiratory patterns, distribution of deep and light sleep states, sleep habits, and frequency of turns during sleep.

2. Application Areas

Based on the precise monitoring capabilities and non-contact nature of the monitoring pad, it can be widely applied in various scenarios where individuals are lying down. These applications include continuous vital sign monitoring and alert systems, sleep analysis, APNEA monitoring, centralized nursing monitoring, remote health care, and ongoing mental stress analysis. This technology meets diverse non-contact physiological monitoring needs.

Product Features

Real-time Monitoring: Continuous 24-hour monitoring of the user's heart rate, respiratory rate, body movement status, and bed/exit status to ensure data continuity and accuracy.

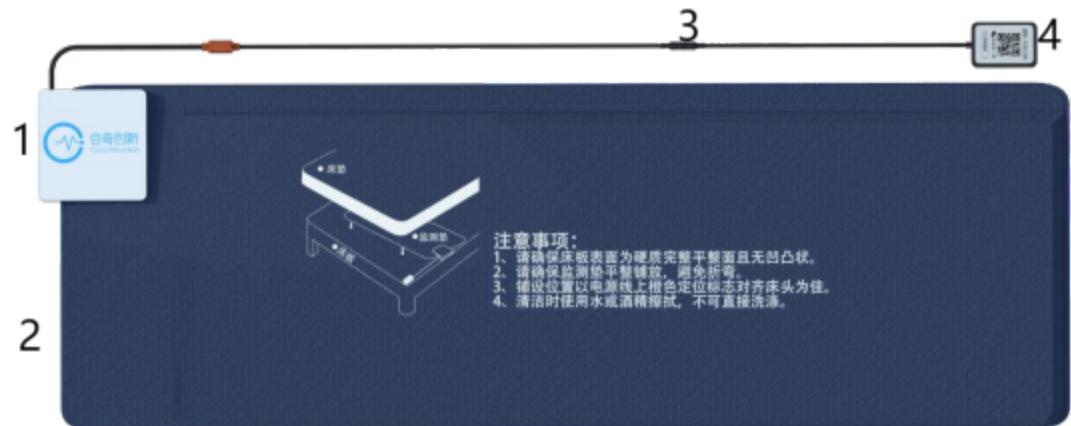
Precise Alerts: Based on a preset alert mechanism, the device will automatically issue an alarm signal when the user's vital sign data exceeds normal ranges, prompting caregivers to take timely action.

Data Analysis: The device can upload monitoring data in real time to a cloud system, generating detailed sleep quality reports and vital sign analysis reports to help users understand their health status.

Non-contact Monitoring: Utilizing non-contact monitoring technology, users can achieve comprehensive monitoring without the need to wear any devices, thereby enhancing user comfort.

Easy Installation: The device is compact and lightweight, making it easy to install and move. It can be flexibly placed above or below a regular mattress as needed.

Package Includes

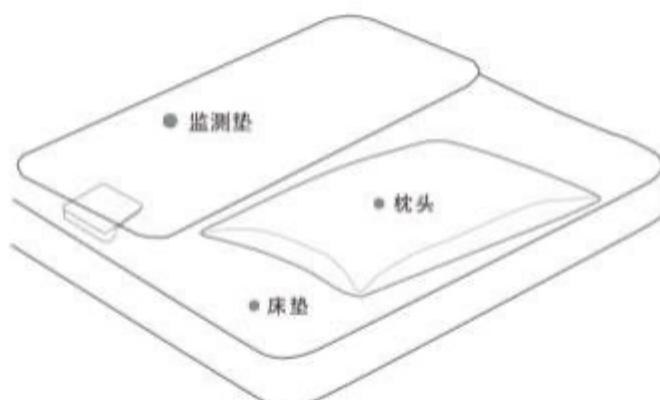


1 Control Box 3 Cable Connector

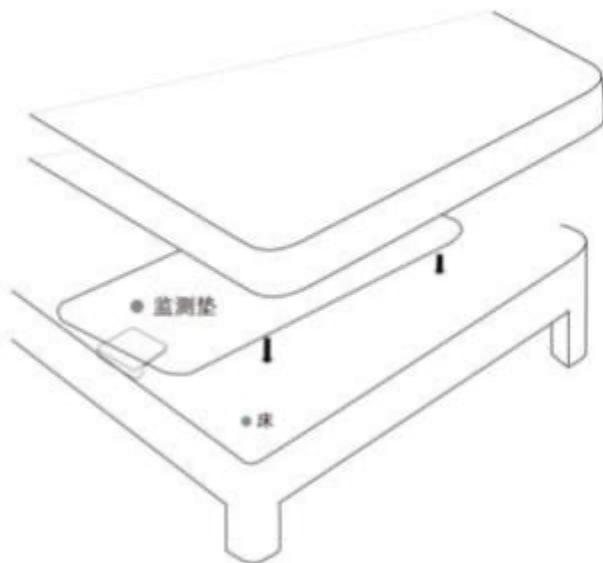
2 Fiber Optic Sensor 4 AC Adaptor

Product Installation

Place the monitoring pad under the bed sheet and on top of the mattress. When the person lies down, ensure that it is positioned beneath the chest.



If the mattress thickness is less than 15 cm, the monitoring pad can also be placed under the mattress. Ensure that when the person lies down, it is positioned beneath the chest.



Product Settings

- **Position the Monitoring Pad:** Place the monitoring pad flat on top of or underneath the mattress, ensuring that the top edge of the pad aligns with the bottom edge of the pillow. Ideally, it should be positioned directly beneath the user's chest as much as possible.
- **Connect Power and Network:** Plug the cable connector into the power adapter and then connect the adapter to a power outlet. Press the network button on the monitoring pad 3 times to enter Point-to-Point AP mode, and then switch to network mode, waiting for the device to connect to the WiFi network.



- **Start Monitoring:** Once the user lies on the monitoring pad, the device will automatically begin monitoring vital sign data and upload this information in real time to the cloud system.
- **Initiate Monitoring:** When the user lies on the monitoring pad, it will automatically start working, collecting and transmitting vital sign data to the cloud system in real time.
- **View Data:** In the system, you can view real-time monitoring data, historical data reports, and health analysis reports. If any abnormal data is detected, the system will automatically send a notification alert.

Product Specifications

Model	MSMW2401
Size	850mm * 300mm * 3mm
Operating Temperature	0°C~60°C
Storage Temperature	-15°C~60°C
Materials	ABS + PC Plastic
Cover	Cotton
Maximum Weight Capacity	100KG
Wireless Mode	Wi-Fi
Operating Current	Continuous Transmission: Peak \approx 300 mA Normal Mode: Average \approx 170 mA, Peak 300 mA Standby: $< 200 \mu\text{A}$
Power Status Indicators	Powered On (Default): Green Light Fault: Red Light After 3 minutes on the bed: Light turns off

Storage and Maintenance

- Regular Checks:** Periodically check the power cord and network connections of the monitoring pad to ensure the device is functioning properly.
- Data Storage:** The cloud system will store the user's monitoring data long-term, allowing users to log in to view historical data and reports.
- Cleaning:** Wipe the surface of the monitoring pad with a soft cloth and avoid using corrosive cleaning agents.
- Storage:** When not in use, store the monitoring pad in a dry, well-ventilated area, away from direct sunlight.
- Troubleshooting:** If the device malfunctions, please contact customer service and do not attempt to disassemble or repair it yourself.

Warm Tips

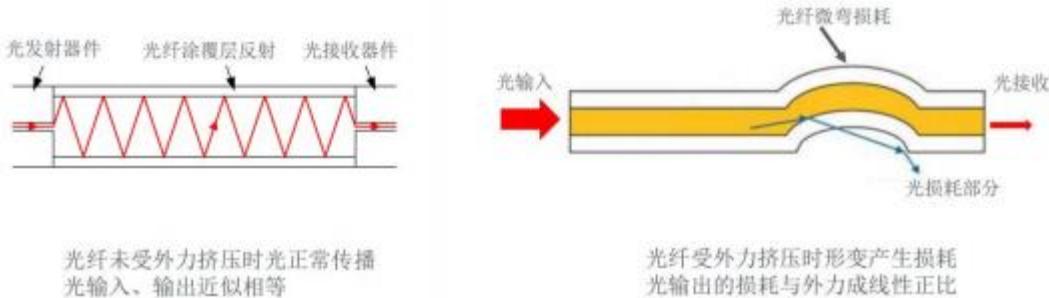
Dear Valued Customer,

The Intelligent Vital Sign Monitoring Pad Series employs exclusive multi-sensor monitoring technology, utilizing a mix of fiber optic sensors and various other sensors to monitor users' physiological information. Coupled with next-generation information technologies such as the Internet of Things (IoT), cloud computing, and big data, it overcomes the limitations of traditional services in terms of time and space, providing real-time, fast, efficient, low-cost, IoT-enabled, and intelligent non-contact vital sign monitoring services.

Precautions:

1. Please keep the smart mattress powered on 24 hours a day to ensure normal use.
2. The internal sensing pad of the vital sign monitoring pad is wrapped in molded materials that enclose the fiber optic sensors. It is essential to avoid heavy pressure when bending the monitoring pad and to refrain from scratching the surface with sharp objects or applying strong friction.
3. When the device is placed on top of the mattress, avoid small area high-pressure actions (such as jumping on the sensor), as this may lead to fiber optic breakage.
4. To view the data from this product, it must be paired with the software or system provided by Guqi Innovation or its partners for data access and viewing; please consult your sales service provider for details.
5. If the product becomes unusable, please promptly contact the product seller or leasing service provider for troubleshooting.
6. The vital sign monitoring data output by the smart monitoring pad is intended for daily care assistance only and should not be used as clinical medical reference.

Working Principle



Contact

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FCC Caution:

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC Caution:

- English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada ' s licence-exempt RSS(s). Operation is subject to the following two conditions:

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

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

RF exposure statement:

The equipment complies with IC Radiation exposure limit set forth for uncontrolled environment.

- French:

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences.
- (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

Tout changement ou modification non expressément approuvé par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à utiliser l'équipement.

Déclaration d'exposition RF:

L'équipement est conforme à la limite d'exposition aux rayonnements IC établie pour un environnement non contrôlé