

Security & Relief given by the cutting-edge technology

最先端の  
安心・安全

Non-contact-type **Vital monitoring sensor**

Microwave device makes your daily 24hours-life secure.



**MIO CORPORATION**  
SUNSHOW CORP. Head Office(LA)

\*Since this is not medical appliance, please do not apply this product for a medical activity.

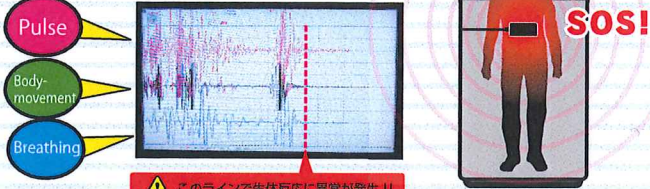
## Vital Sensor

### It quickly detects unusual event of one's body on bed.

This product is based on the vital-sensing-system which checks person's pulse, breathing and movement all the time, using micro-wave. In case these vital activities exceed threshold, this product immediately notifies you the alert.

\*Threshold is different from one to another, so you can set threshold by yourself.

Internal computer immediately distinguishes user's situation from physical data read by micro-wave!



※イメージ図

\*The system could only see pulse and breathing as "presence or absence"

## BED sensor

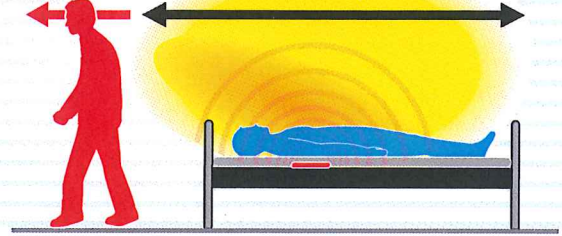
### The system transmits the alert to you if the care-receiver leaves from designated area

Dedicated software designs "supporting-area".

The system transmits the alert to you if the care-receiver leaves from the area. The detection is done high-accurately due to micro-wave which checks biometric.

"Outside the area" means the alert will be sent to you.

You can set the area freely. "Inside the area"



● This product does not include a bed. It does not apply for such bed as waterbed.

## Notifications are automatically sent to cell phones or computers.

It confirms these situations that the care-receiver wakes up, or gets back home.

Prevention of roaming.



Any change of condition

Record of data.

This is the brand new system that observes the care-receiver safely, focusing on his/her sleeping area. It is the cutting-edge caring system which could observe the situation of the care-receiver for 24-hours with using his/her vital information coming from micro-wave, and could notify you if the care-receiver's vital records get out of threshold.

\*This system requires the internet-surrounding in order to transmit notifications.

## Various media-options to transmit/receive-alert media.

Wire-less transmittance enables the product to transmit emails and PC's data. In addition, cable LAN realizes direct-connection to observers' server, and can expand alert-unit.

- Bluetooth (LS-101)
- ZigBee (LS-102)
- 9.20M 特定小電力無線 (LS-103)
- Wifi (LS-106)

電子メール送信



インターネット  
経由

パソコン  
タブレット端末へ  
のデータ転送



ナースコール  
ジャックへの接続



※インターネット接続にかかる費用はお客様のご負担となります。

※コネクタ形状の違いがあるためオプション受注生産となります。

## OPTION

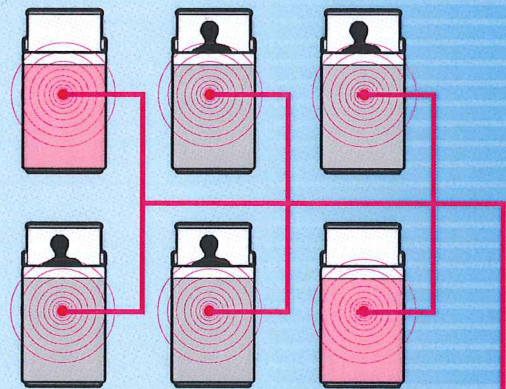
### LS-105 Alert Unit A (additional purchase is required)

- Alarm-transmittance of light and buzzer by the method of light-emitting and buzzer.
- Water-proof structure realizes the outside-utility.
- 100V specification.
- \*How to set this unit is to be discussed.
- Made in Japan



## Unitary integrated administrating system is applied.

Newly developed software enables multiple rooms to be unitary-administrated. Effective administration system with fewer people could be achievable. Set-up is done easily, by installing attached software into your laptop or tablet.



電子メール送信

インターネット  
経由

# Non-contact-type Vital Sensor

This product could make your life for 24hours everyday secure.

Micro-wave, controlled by MIO,  
recognizes biometric in order to see the care-receiver's activities correctly.



● Made in Japan



## The health-sensor series

This product enables you to transmit emails to your laptop or tablet.



## Health-sensor terminal set

The combo of sensor and tablet which setup-software is installed.



\*画面はイメージです

- Setup is already done, so those who are not used to computer could use it easily.
- Only email-setting enables you to start using this.

## ● Setup could be done regarding using-surroundings.

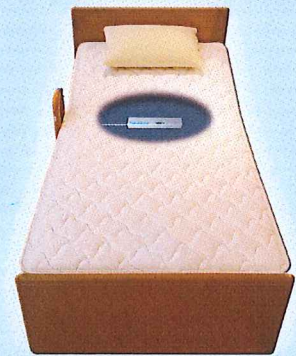
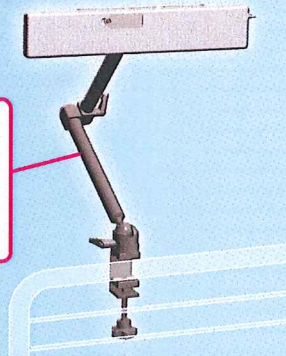
Sensor itself is thin-designed so that it could be placed beneath bed's mattress; besides, we could offer mounting-stand option.

● 専用スタンドでの設置

● マットレスの下側への設置

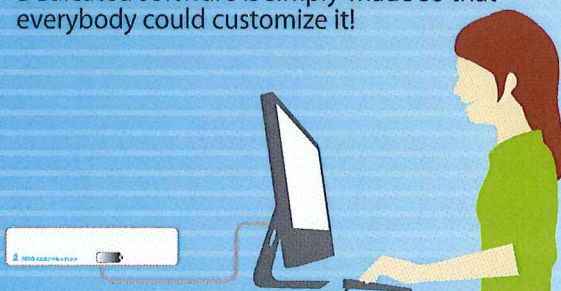
### OPTION Stand for bed (separate purchase is needed)

- Could be mounted to fence-part of bed
- Mounting is flexible not to prevent reclining or replacement of furniture.



## ● Easy setup to tablet or laptop

By connecting to your tablet or computer, basic setting or adjustment could be done easily. Dedicated software is simply-made so that everybody could customize it!



## ● Broad applications are expected.

Non-contact type Vital Sensor could grasp physical condition of those who are apart from you, not only people but also animals. Your idea for new applications could be realized!

\* Contact to us if you would like to apply our system to new application.

Proceeding system-application is as below;

- Occupancy
- Record of sleep
- Out of Bed
- Pet's post-surgery recovery
- Whereabouts
- Intruders

# Specification

## ● The healthy sensor series

- LS-101 : Bluetooth
  - LS-102 : ZigBee
  - LS-103 : 920M
  - LS-104 : USB Cable
  - LS-105 : Contact signal
  - LS-106 : Wifi
- Specific power-saving radio



Product specification (LS-10 series)	
Article name	Specification
Sensor	I use microwave Doppler method sensor - two.
Center frequency	typ.24.125 (GHz)
Antenna	4 element *2 Plane type antenna
Power supply	DC Jack It is with a connection cable
Supply voltage	5(V) ± 10%
Consumption current	typ.180(mA)
External form	W=34.0mm, H=6.4mm, D=1.8mm
External interface	Bluetooth Version 2.1 EDR 準拠 (LS-101) ZigBee (LS-102) 920M Specific power-saving radio (LS-103) USB connection (LS-104) The no voltage A point of contact (LS-105) Wifi connection (LS-106)
Weight	380g
Bluetooth	使用 Profile : Serial Port Profile
The volume for detection adjustment	I have a switch for detection adjustment built-in.
Installation site	Bed mat, the lower part of the mattress
Special report	After power supply injection, it is necessary for approximately 30 seconds until movement is stable.
Movement input voltage range	90Vac - 264Vac
Standard input voltage range	100Vac - 240Vac
Frequency	50/60Hz
Output voltage	4.75V ≤ Vout ≤ 5.25V
The output voltage in no load	4.75V ≤ Vout ≤ 5.5V
Rating output electric current	1000mA

## ●LS-101SET Healthy sensor terminal set



Specifications of the tablet terminal (Nexus7)	
Article name	Specification
OS Type	Android 4.2
CPU	Tegra 3 1.3GHz コア数 4
Memory	1GB
Memory capacity	16GB
Battery performance	Lithium polymer 4325mAh
Standby	スタンバイ : 300 hours
Liquid crystalline size	7 inches
Liquid crystalline type	IPS
Screen resolution	1280x800
Network	Wi-Fi(無線LAN) IEEE802.11b IEEE802.11g IEEE802.11n Bluetooth Bluetooth3.0+EDR
Size	Width X height X depth 198.5x10.45x120 mm
Weight	340 g