AI non-Contact Monitoring System
" Best Shape " Care

Please read the user manual and follow the instructions to operate this product.
" This product involves the collection, processing and use of personal data.
Please comply with the Personal Data Protection Act."

■ Model : BS02WF

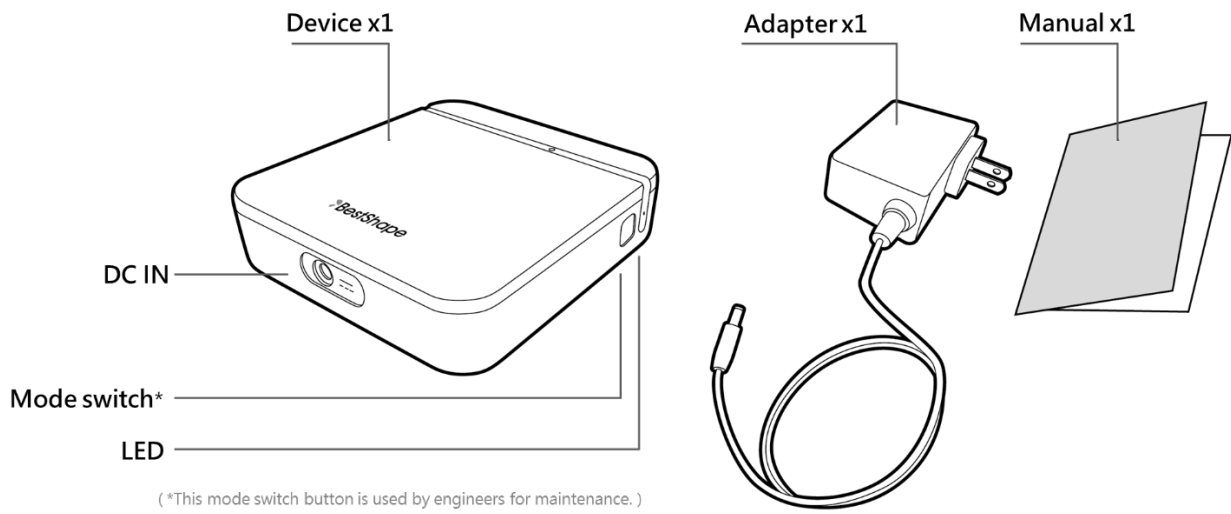--

■ Introduction

This product is a non-contact monitoring device for indoor that monitors personnel behavior and outputs information. It will send notifications in case of an emergency.

■ Product Appearance

■ Overview

Device x1

Adapter x1

Manual x1

DC IN

Mode switch*

LED

(*This mode switch button is used by engineers for maintenance.)

■ Product Features

This product monitors the behavior pattern of people in the space by non-contact method. The results are not the basis for direct diagnosis.

Feature	Detection range	5.5 meters x 5.5 meters (including below)
	detect people in space	Presence/Absence
setting interface	Use a web browser (Chrome) to configure	

■ Product Description

【Sensor Specifications】

hardware specification	
RF frequency	60-64GHz
Antenna FOV	120 x 80 degree (Wall Mount)
	100 x 100 degree (corner Wall Mount)
power supply	
power supply	12V/2A DC Adapter
arithmetic unit	
processor	Quad-core ARM Cortex-A55
WIFI Module	2.4 GHz WIFI / IEEE 802.11 b, g, n
Environmental requirements	
Temperature range	0°C - 40°C
Humidity range	95%
IP ratings	IP54
Device Specifications	
Dimension	115.5 x 124.1 x 31mm
Weight	< 360g

【Data transmission specification】

This product uses the MQTT communication protocol for data transmission and supports device-to-cloud and cloud-to-device message transmission.

JSON format for sensor data transmission:
Human Presence and Event Notification
{"dt":1682054029.666,
" sn ": TEST_DEVICE_ID,
" target_number ": 1, (0: means there is no person in the space ; 1: means there is person in the space)
"classifier_output": 1, (1: means the sensing object is a person ; 0 : means the detection of non-human body)
" fall_score ": 1 (fall event occurred)
}

■ LED

The status of the sensor LED is defined in the below table. If the connection status of the sensor does not improve, and the problem cannot be solved, please take a picture of the status of the sensor LED and contact customer service.

LED Status	significance	processing method
Yellow	WIFI is trying to connect	Step 1: Confirm that the network settings are correct. Step 2: If not resolved, please notify customer service
Yellow blinking 5 times and then stop for 3 seconds (cycle)	Can not connect to internet.	Step 1: Confirm that the network settings are correct. Step 2: If it is not resolved, please notify the network administrator
Red blinking 5 times and then stop for 3 seconds (cycle)	Data cannot upload. (MQTT fail)	Please notify customer service
blue	data uploading	normal connection
White blinking three times	AP mode connection	Manually setting up the network, please complete the network setting
Blue blinking	software update	Step 1: Please wait for 2-3 minutes. Step 2: If the blue light is still flashing, please restart (reconnect the power cord) Step 3: If the blue light is still blinking, please notify customer service

■ Cleaning and Maintenance
1. Please unplug the power plug before cleaning this product to prevent electric shock or fire.
2. Please use a dry oil-free cloth to clean the plastic parts of the device.
3. When cleaning the device, do not use aggressive or irritating organic solvents to wipe the surface.

■ Warning

Please use original accessories and consumables to achieve the best product

performance. In order to ensure the correct operation of the product, before you use this product, please read this "User Manual" carefully, check whether the parts are complete, and pay special attention to the following safety and precautions to prevent potential dangers and damages in advance.

【Installation Related】

1. Please refer to the installation manual and install it at the best sensing position.
2. This product is for indoor use only, please do not use it in humid environment or outdoors.
3. Do not place this product near heat sources.
4. Do not hang any items or cover this product, otherwise it will affect the sensing effect.
5. Do not use liquids, spray cleaners or wet clothes for cleaning.
6. Do not spill water or other liquids on this product.

【Usage Related】

1. When the product is immersed in water, please stop using this product.
2. Do not move this product while it is in operation.
3. Do not hang anything on or cover this product.
4. Except for the agent or our company's maintenance personnel, please do not disassemble the case or repair it by yourself, otherwise your warranty rights will be affected.

■ FCC Regulations

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.

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.

RF Exposure Information (MPE)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

■ IC Regulations

Industry Canada ICES-003Compliance: CAN ICES-3(B)/NMB-3(B)

- 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.

RF Exposure Information (MPE)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

- French:

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations d'exposition RF (MPE)

Cet appareil a été testé et répond aux limites applicables en matière d'exposition aux

radiofréquences (RF).

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

- CE Compliance

  Hereby, Wistron Medical Technology Corp. declares that the radio equipment type Wireless Motion Sensor is in compliance with Directive 2014/53/EU.

- SAR Compliance

  This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

- Output power:

Frequency band	maximum power
Wi-Fi 2.4GHz	20 dBm
60GHz	13.76 dBm

Waste Electrical and Electronic Equipment (WEEE)

This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.

- Customer service information

  Manufacturer: Wistron Medical Technology Co., Ltd.

  Manufacturer Address: 5th Floor, No. 5, Xin'an Road, East District, Hsinchu City, Hsinchu Science Park

  Phone: 886-2-6616-9999 # 10130

  E-mail : BestShape_VS@wistron.com

  Official website: https://www.best-shape.com/

  After-sales service unit: Wistron Medical Technology Co., Ltd.

【 Accessories】

■ Accessories list:

1. wall mount		
2. wall bracket		
3. Expansion screw		
4. Power Supplier		
5. Device		

■ Product Installation: