

BSM330E



**BSM330E USER'S MANUAL / BMI measuring device**

Thank you for purchasing the BSM330E automatic BMI measuring stadiometer.  
Please read manual prior to use and operate with care. Keep for future reference.



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Biospace reserves the right to modify the dimensions or exterior of the BSM330E to improve the quality of the product, without consent of the customer.

## Introducing the BSM330E

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Thank you for purchasing this Biospace BSM series device. BSM series is a sophisticated product line developed by Biospace Co., Ltd.

This product measures personal weight and height, and calculates BMI. And it helps to improve the health comparing with a degree of BMI standards. Therefore, it is to pursue personal health and fitness by understanding the degree of BMI through regular check-ups. It can be used in healthy and acute or chronically ill populations, and can be used to assist in the assessment of BMI. The results may be of value to health care professionals in the management of diseases or conditions in which the disease, condition, or the treatment thereof, can affect the relative balance and levels of BMI measuring. It is important in preventive medicine by providing the basis of appropriate physical activity and dietary formulas for improving personal daily routine. It can be also usefully applied to follow-up studies of patients treated for various diseases.

With a dedication to the production of quality product and research and development, Biospace remains a reliable medical equipment provider.

Kichul Cha, CEO

A handwritten signature in black ink, appearing to read 'Kichul Cha', is positioned below the printed name.

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## How to use this manual

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This user's manual explains the functions of the BSM330E.

Follow the instructions below for effective use.

1. Please read this manual thoroughly prior to BSM330E operation.
2. Take a few moments to review the manual of this product in order to understand configuration.
3. If you have clinical issues while using the BSM330E, please contact Biospace customer service.

E-mail : [info@biospace.co.kr](mailto:info@biospace.co.kr) TEL: 82-2-501-3939

4. Read symbols carefully. The followings are representations of these symbols.



Important information to warn of situations which might cause major injury and/or damage to property if instructions are not carefully followed.



Important information to warn of situations which might cause minor injury and/or damage to property if instructions are not carefully followed.




Important and helpful information for operation.

## Safety Information

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1. This product should always be placed on the ground and plugged into a secure electrical outlet.
- 
2. Physically disabled persons or children should receive assistance when measuring on the BSM330E in order to obtain accurate results and avoid injury.
  3. Do not insert or remove the power cord with wet hands.
  4. Do not jump or apply severe shock to the foot plate, this may cause incorrect measurement or malfunction
  5. To prevent damage, please use a socket connected to appropriate power supply (100~240VAC). If the socket has several terminals, a socket or extension cable with enough electric capacity should be used.
  6. To avoid electric shock, be sure to avoid contact between this product and other devices.
  7. Use caution when raising or folding the stand of the equipment to avoid injury. When the stand is raised, do not touch the joint or any other moving part of the stand. Moving parts may cause injury if care is not applied.
  8. Do not dismantle the equipment or open the back cover. Internal parts are not for customer use. If the equipment is dismantled, the warranty is void, and service costs will be charged. If service is required, contact Biospace or the supplying agency.

9. Follow local governing ordinances and recycling plans regarding the disposal or recycling of device components.



### **1. Cross contamination**

Individuals with any kind of contagious disease or infection must not use or come in contact with the foot plate or this product. Please be sure to clean the foot plate with appropriate disinfectant after each use. Never pour any liquid directly on the foot plate, as it may cause internal damage. Use a soft cloth and appropriate ethyl alcohol to wipe off the foot plate. Do not wipe the foot plate with strong chemicals.

### **2. Test result interpretation and prescription**

Do not start weight control or exercise therapy without physician's prescription or expert's advice. Misguided self-diagnosis may harm your health. If you are pregnant, please consult with undertaking physician or expert before use.

### **3. Other equipment**

Please block electromagnetic interferences from other equipments. It may lead to inaccurate test result or error.

4. This product must be installed on a flat and stable floor. If the floor is not level, may cause harm or incorrect measurement.

5. Make sure you use the AC adapter provided by Biospace. Using other AC adapter may cause the malfunction of product.

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6. Be careful not to spill or drop any residue(food or beverage) on this product. It may cause serious damage to the electronic components.

7. Do not move during measurement for accurate test result.

8. Be careful not to hurt your fingers on the edge of the foot plate when handling the screws.



1. Wrong installation contrary to manual guidelines, or other equipment interference, may cause error or inaccurate test results. To solve the interference problem, you should

- Separate power supply from the equipment that is causing interference.

- Isolate the equipment.

- Use a power supply committed only to device.

- Please contact Biospace if the problem continues.

2. Excessively high or low temperatures, humidity and pressure may affect the equipment operation and may cause error. Please use the equipment within the suggested specification range for equipment's use.

3. While moving, installing, or using this product, be sure to protect against any physical shock or damage. Always use the packing material and the original shipping box when moving or transporting this product.

4. Repair and examination should be conducted only by Biospace's professional A/S staff. Please contact Biospace if needed.















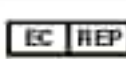
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5. The BSM330E fulfills the Standards of IEC60601-1(EN60601-1), Safety of Electric Medical Equipment. In addition, the BSM330E complies not only with Level A for Noise Immunity, but also with Level A for Noise Emission by the Standard IEC60601-1-2(EN60601-1-2), Electromagnetic Compatibility Requirements.

6. The BSM330E has been designed, manufactured, and inspected under the full quality assurance system of Biospace. Biospace fulfills the international standardization system, ISO 90001 and ISO 13485.

## Indicators & Safety Symbols

### Symbols

	Dangerous High Voltage		Power On
	Attention, See User's manual		Power Off
	<b>CAUTION</b> Keep this equipment away from liquid		9 pin Serial Port, Female (RS-232C)
	BF Type Equipment		Manufacture
	Alternating current		Date of manufacture
	Direct current	<b>SN</b>	<b>Serial Number</b>
	Adapter DC Power Jack		Authorised Representative In The European Community

### Care Symbols on the Box

	Move the equipment parallel to the ground		Keep dry
	CE mark		Fragile-handle with care
	This way up		No Hooks
	Stack up to 4 boxes		



#### Disposal of old Electrical & Electronic Equipment

(Application in the European Union and other European countries with separate collection system) This symbol indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling this product, please refer to local governing ordinances and recycling plans.



Follow local government ordinances and recycling instructions regarding disposal or recycling of device components, including batteries.

## Workplace Requirements

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### □ Operation Environment

Temperature range	10 ~ 40 °C (50°F ~ 104°F)
Relative humidity	30 ~ 75 %
Atmospheric pressure range	70 ~ 106 kPa

### □ Transport and Storage Environment

Temperature range	-20 ~ 70 °C (-4°F ~ 158°F)
Relative humidity	10 ~ 95 % (No condensation)
Atmospheric pressure range	50 ~ 106 kPa

### □ Adapter

Power Input	AC 100 - 240V, 50/60Hz, 1.2A
Power Output	DC 12V, 3.4A

## **Chapter 1. Installation and Maintenance**

1. Contents of the Box
2. Package
3. Exterior & Functions
4. Installation Instructions
5. Transportation
6. Repacking
7. Maintenance

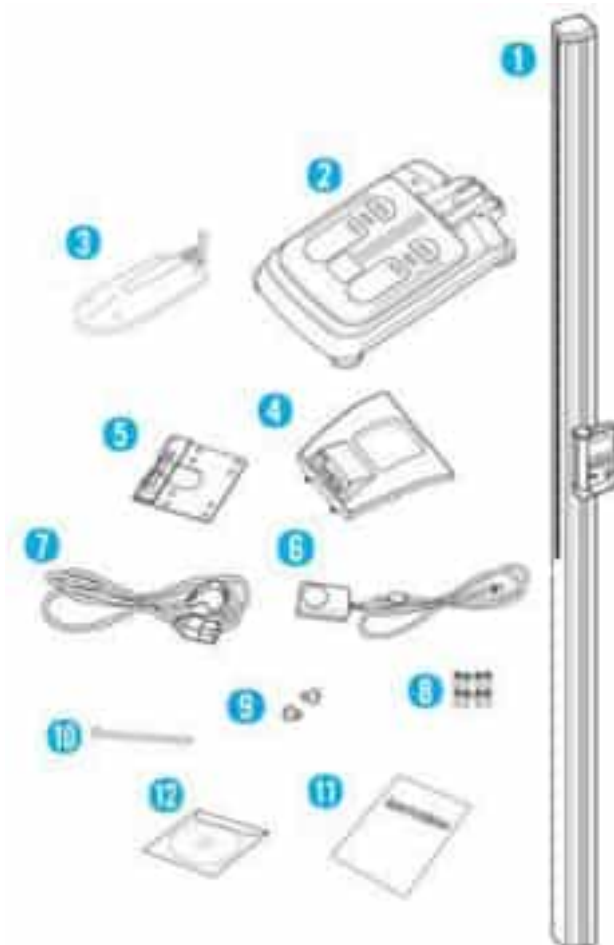
## 1. Contents of the Box

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When opening the box, make sure all of the following items included.

### A. Included Items

- ① Stand
- ② Lower
- ③ Head bar
- ④ Joint cover
- ⑤ Stand holding plate
- ⑥ Power Adapter 1EA
- ⑦ Power Cord 1EA
- ⑧ Screw (M8x20) 8EA
- ⑨ Screw (M4x8) 2EA
- ⑩ Hexagonal wrench (6mm) 1EA
- ⑪ Quick Installation Guide
- ⑫ User's manual CD 1EA



## 2. Package

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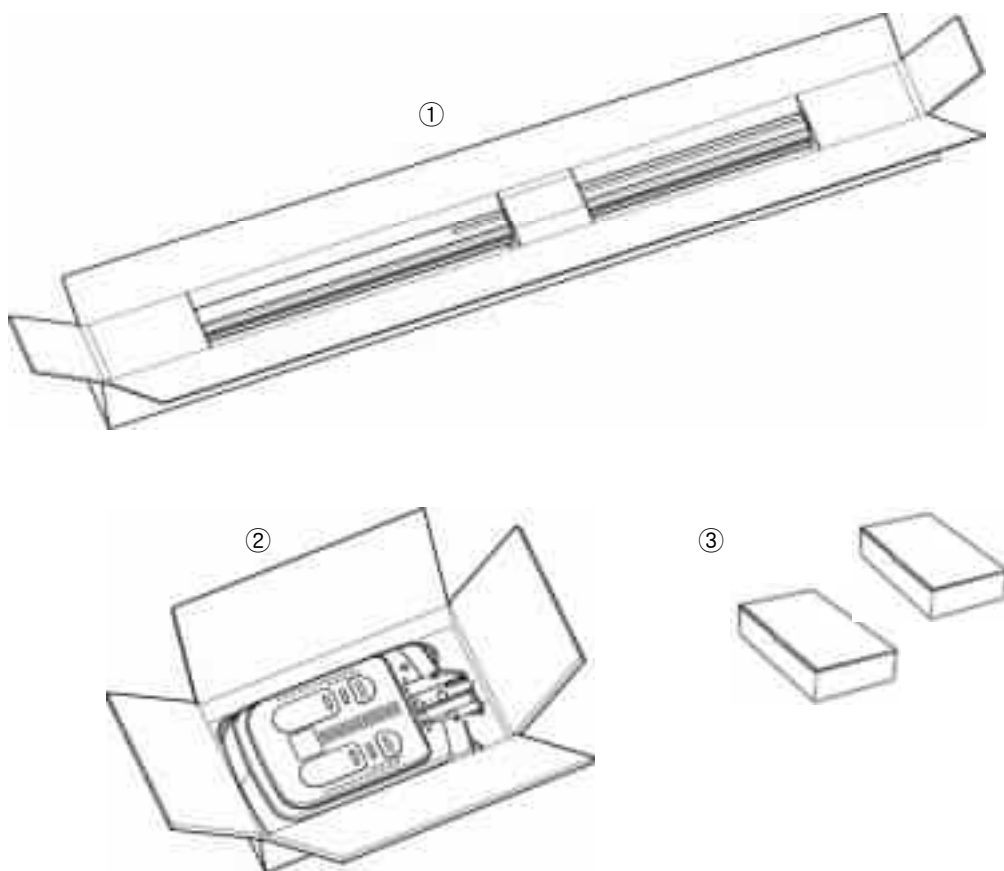
- ① Stand Box (2250\*130\*130; mm ; L\*W\*H)

-Bottom pads 3units

-Top pads 3units

- ② Lower Box (610\*390\*135; mm ; L\*W\*H)

- ③ Accessory Box 2EA



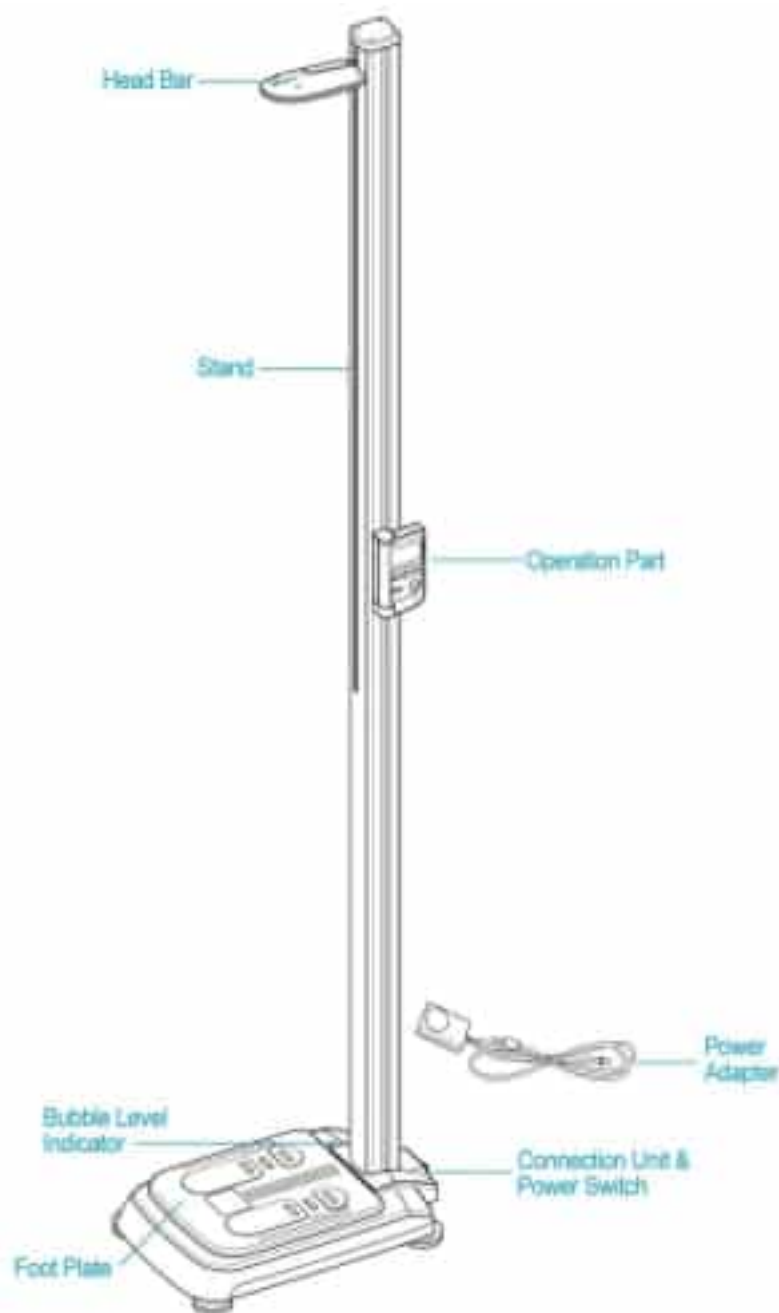
To reduce the physical impact on the equipment use the wrapping material provided by Biospace during shipment or transit. For information on how to relocate the equipment, refer to “Chapter 1 Section 5. Transportation”.

### 3. Exterior & Functions

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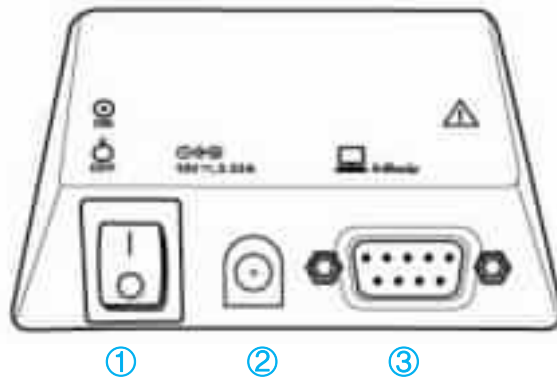
Individual part identification and functions with schematic sketches are provided below.

Please inspect each component of the BSM330E for damage prior to installation.



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## Connection Unit & Power Switch



### ① Power Switch

Power the BSM330E on/off.

### ② Power Input Port

Use to connect the power adapter.

### ③ 9pin Serial Port, Female (RS-232C)

Using the BSM330E connected with the InBody series.



Do not dismantle the BSM330E. Internal parts are not for customer use and may cause electric shock. If the BSM330E is dismantled, the warranty is void, and service costs will be charged.



Do not drop any food or liquid on the BSM330E. It may affect the electrical parts in the BSM330E or cause damage.



Use only the power cord provided by Biospace to connect to the power port.



When using the adapter cable, insert the adapter cable tightly into the BSM330E.



## 4. Installation Instructions

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### A. Workplace requirements

- (1) Location: Indoor only. Any outdoor area where the BSM330E is to be located should meet all the conditions below.
- (2) Operation environment: 10 ~ 40℃ (50 ~ 104 °F), 30 ~ 75%RH, 70 ~ 106kPa
- (3) Adapter: Power Input 100-240V, 50/60Hz, 1.2A    Power Output DC 12V, 3.4A

### B. Note on Unpacking & Assembling

Be sure to read these instructions carefully before assembling.

- (1) Place the BSM330E on level ground.
- (2) Do not move by holding the head bar or operation part with LCD.

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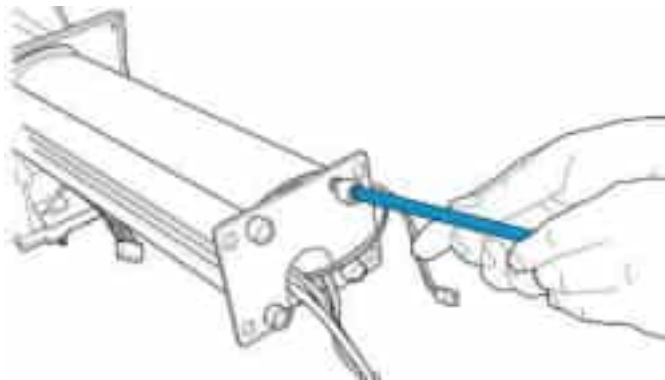
### C. Unpacking & Assembling

(1) When opening the box, check to make sure all the items are included. Take out the head bar, connecting screw, power adapter and cable from the accessory box.

(2) Tuck the joint cover into the foot plate of the stand, leaning the other side of the stand in the box, as shown below.

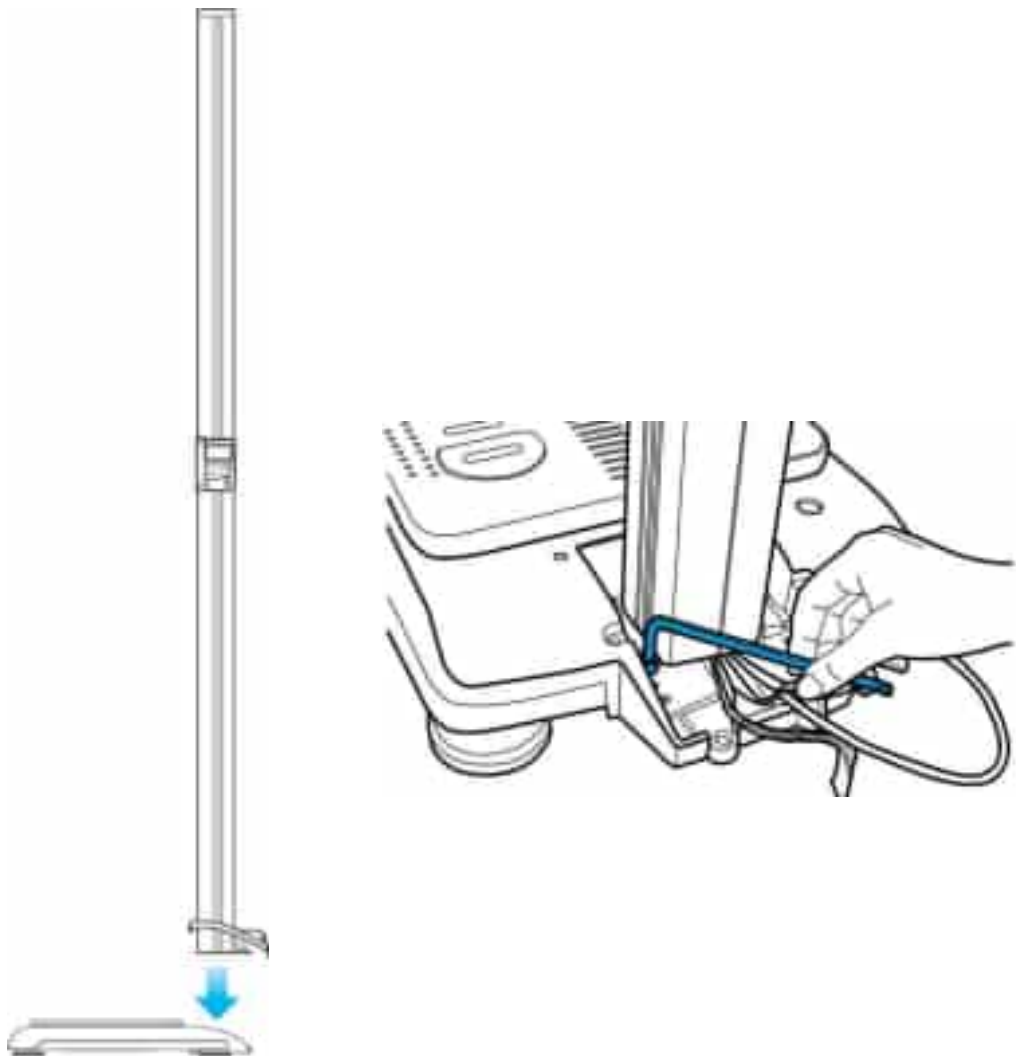


(3) Attached the stand holding plate to the bottom of stand. Tighten the holder screws (M8X20) using a hexagonal wrench which is in the accessory box.



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(4) Lift up the stand in the foot plate. Tightening the screws using a hexagonal wrench.

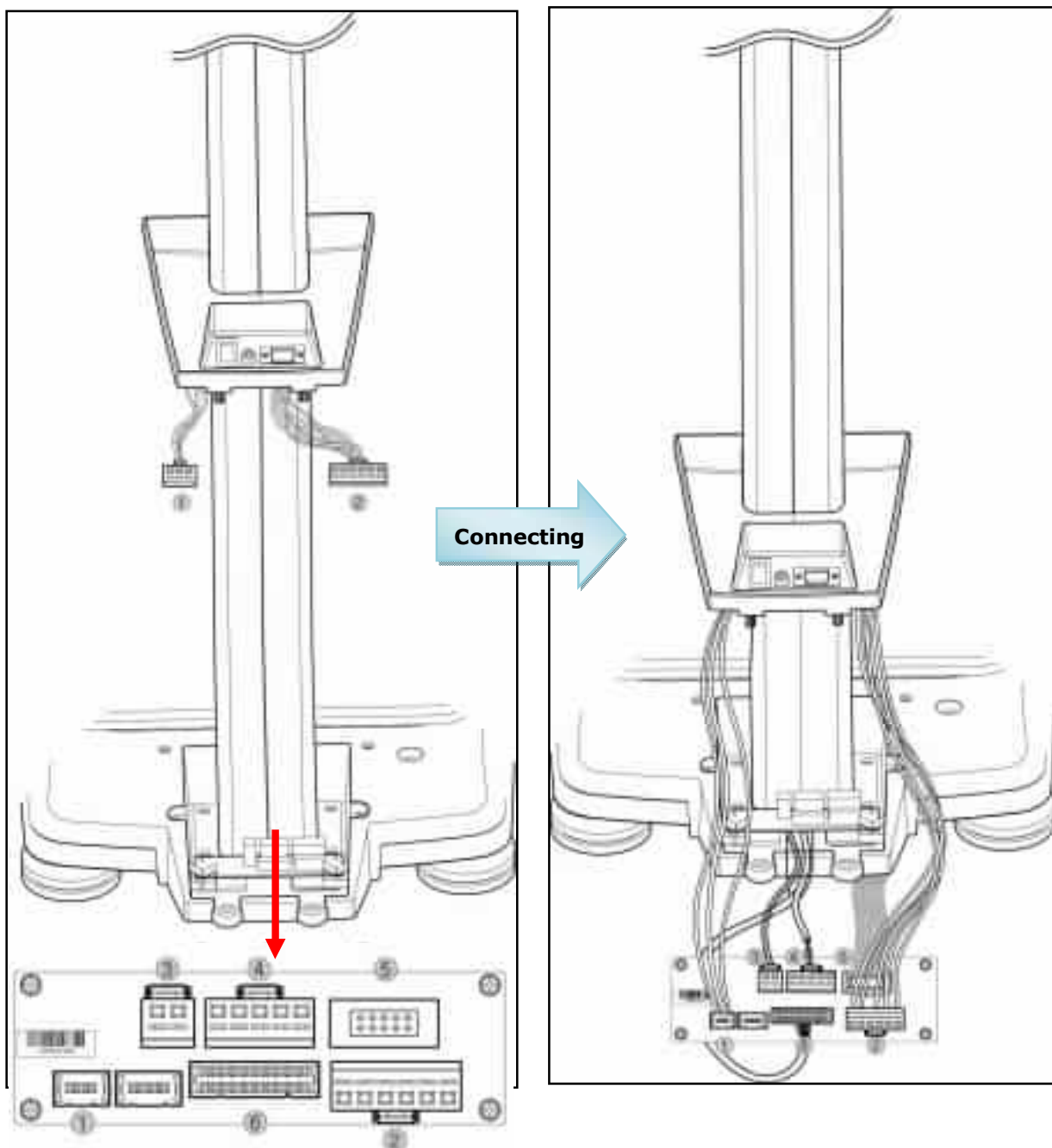


In case of a loose conjunction between the stand and the foot plate, measurement process cannot be performed properly.

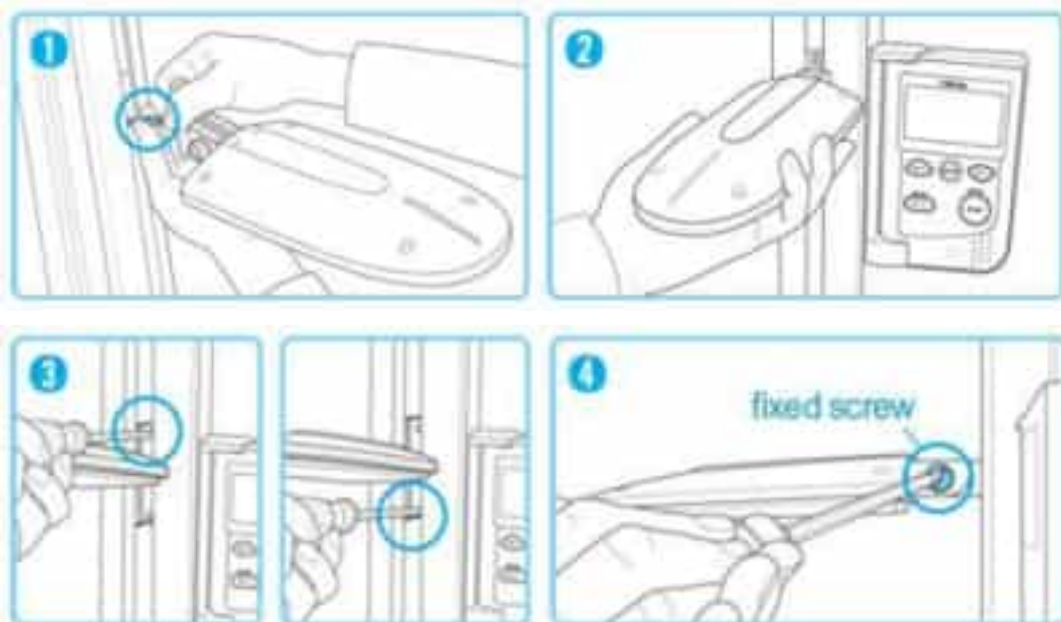


The product should be installed on the flat floor.

(5) Connect the each cable with joint cover connection as below pictures.

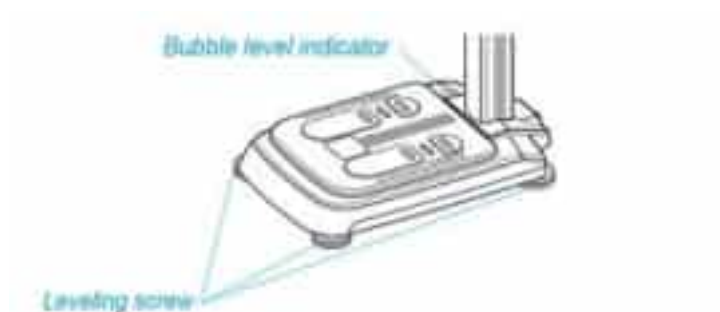


(6) Connect the cable from the head bar to the cable connector found in the stand. Fix the head bar into the stand. Tighten the screw (M4×8) firmly using a Philips-head screwdriver. Tighten the fixed screw located on the side of the head bar using a flathead screwdriver.



You will find the bracket that fixes the head bar in the groove on the side of the stand. Align the head bar with the bracket carefully before fastening the screws.

(7) Use the bubble level indicator on the BSM330E to check it is leveled. Use the leveling screw underneath the foot plate of the BSM330E if it is not leveled.



<Unleveled state>



<Leveled state>



<Raise>



<Lower>



CAUTION

It must be installed on a flat floor. If the floor is not even, it will affect the stability when making measurements and cause errors.



NOTE

If the equipment is not horizontally leveled, adjust the leveling screw on the opposite side of the bubble to place it at the center of the level indicator.

## 5. Transportation

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It is not recommended to move the BSM330E once it is installed. If relocation of BSM330E is necessary, follow the safety requirements.

- (1) Turn the power off and remove the power adapter before moving the BSM330E.
- (2) Be careful not to damage the operation part.
- (3) Adjust the leveling screws on the foot plate to keep the BSM330E level.

### A. Environmental Requirements

Transport and Storage Environment : -20 ~ 70°C (-4°F ~ 158°F), 10 ~ 95%RH  
50 ~ 106kPa (No condensation)

### B. Transporting Before Installation

Before installation, the BSM330E is in a packing box provided by Biospace. Use a carrier to move the box or have two people from both sides for safe transportation.



A strong impact or large shock during moving of the BSM330E may cause inaccurate measurements.

### C. Transporting After Installation

It is not recommended to move the BSM330E once properly installed. If relocation of the BSM330E is necessary, repack the BSM330E with original packing material, to keep the BSM330E from being damaged during transportation.



After moving the BSM330E, adjust the level of the BSM330E using the bubble level indicator and legs of the BSM330E. The level of the BSM330E is crucial to accurate testing.

## 6. Repacking

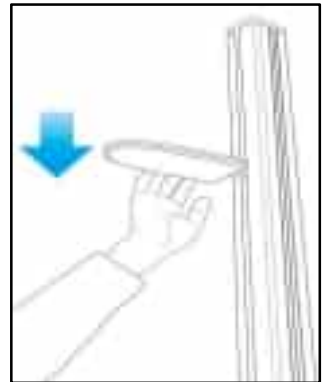
Always turn the power off and repack the equipment. Be careful not to damage any parts for foot electrodes while repacking BSM330E.

(1) Be sure to turn the switch off and remove the power adapter.

(2) Lower the head bar slowly with your hand.



Never apply force to the head bar unless in special situations like repacking. It may cause serious damage.



(3) Separate the head bar from the stand with a screwdriver.



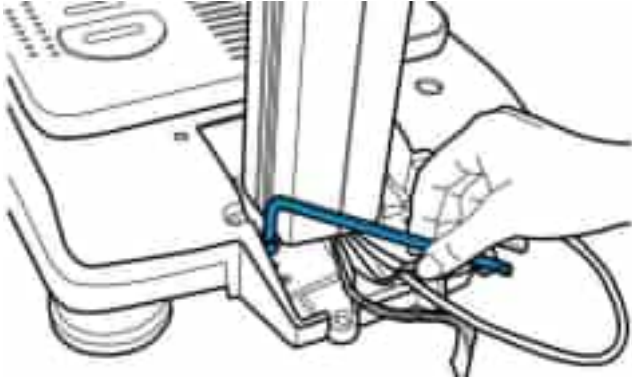
(4) Lift the external device connection, and then disconnect the cables.



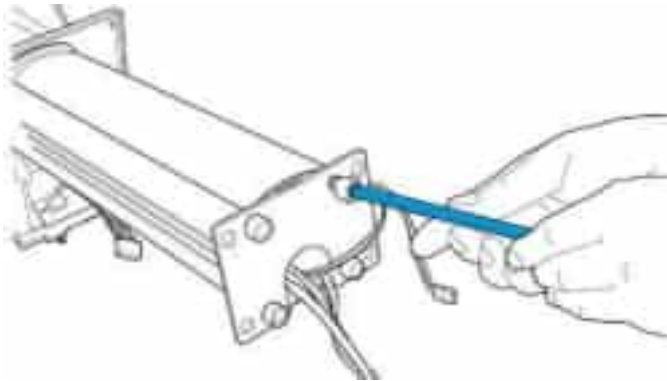


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(5) Unscrew the holder screws on the foot plate connected with stand.



(6) Separate the stand holding plate from stand using hexagonal wrench.



(7) Put the power adapter, cable, head bar, cable, connecting screws, etc. in the accessory box.

(8) Put the foot plate, stand, accessory box with the foot plate pad in the foot plate box.

(9) Seal the box with tape.

## 7. Maintenance

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(1) Do not dismantle the BSM330E or open the back cover. Internal parts are not for customer use. If the BSM330E is dismantled, the warranty is void, and service costs will be charged. If service is required, contact Biospace or the supplying agency.

(2) Do not place anything on the foot plate or apply any pressure onto it when the BSM330E is not in use.

(3) When the BSM330E is not in use for a period longer than one day, unplug the adapter.

(4) Do not move or relocate the BSM330E while the power is on.

(5) Do not drop any food or liquid on the BSM330E. It may affect the electrical parts in the BSM330E or cause damage.

(6) Once a week, wipe the exterior sides of the BSM330E with a dry towel. In particular, clean the LCD monitor, using gentle not to scratch the surface.

(7) Follow local governing ordinances and recycling plans regarding the disposal or recycling of device components.

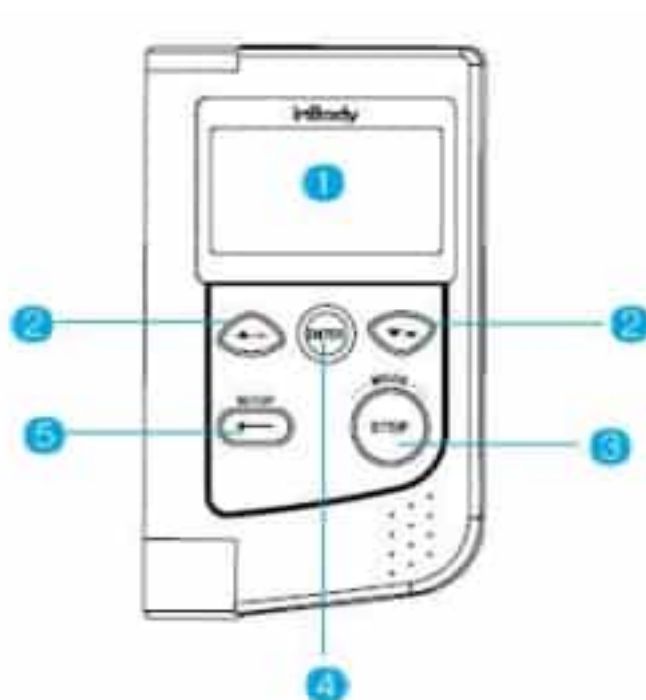
## **Chapter 2. Management & Results Description**

1. Function of Keypad
2. Power Connection & Getting Started
3. Proper Posture
4. Measurement Mode
5. Results
6. Connection

## 1. Function of Keypad

---

The BSM330E can be comfortably operated on the equipment.



① LCD Monitor(2.5 inch LCD)

The monitor displays message or test results.

② ▲(+), ▼(-) Direction Button

Used to navigate in the Setup menu. The 2 direction movements are available.

③ STOP/MODE Button

Press this button to erases the result data on LCD right after test completion.

④ ENTER Button

This button is used when go to the next input item or to store modified values at Setup menu.

⑤ SETUP/← Button

Use the SETUP button when setting up the BSM330E.

## 2. Power Connection and Getting Started

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(1) Connect the BSM330E power adapter behind the foot plate.



Make sure you use the power adapter provided by Biospace, and the power cable provided by Biospace.



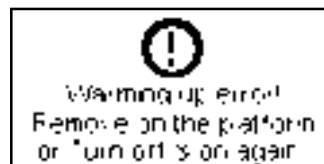
When connecting the power adapter, insert the adapter cable completely into the power jack.

(2) Use the power switch next to the power jack to turn the equipment on. The logo will show on the LCD screen and you will hear a signal sound.

(3) The screen will look like the picture and it will start an automatic warm-up. During the 10-seconds warm-up, the BSM330E will conduct a self diagnosis, weight calibration, and modulate internal circuits.



Be careful not to put any weight on the foot plate. If you step on the foot plate or place a heavy object on the foot plate, it will disrupt calibration and measurements will not be accurate.



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(4) After the warm-up is over, you will be able to see the standby screen and measurements can then be made.



When you will be turn on the external device connected with the BSM330E, turn the external device on first. When you're turning off, turn off the BSM330E first and then turn off the external device. The power should be on and off in this sequence in order to minimize the electric shock upon the equipment and use it safely.

### 3. Proper Posture

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Observing the following methodology is essential to achieve reliable results and accuracy. Keep the following instructions in mind during testing.

As you can see in the picture below, the proper posture for measurement is standing straight and having your arms and legs spread naturally. Remove health clothing and accessories in order to achieve an accurate weight measurement.

- (1) Step on the foot plate and position your back towards the stand.
- (2) Stand up straight and do not lean on the stand.
- (3) Maintain an erect posture until measurement is complete and results are obtained.



Physically disabled persons or children should not attempt to take measurements alone, but instead should get help by having manager or guardian hold them from the side or the back not to slip or to measure incorrectly.



Fingers can get caught or inserted in the groove of the stand where the head bar moves. It may cause an injury.



Leaning on the stand will incorrectly distribute weight and results may be inaccurate. Do not lean on the stand during measurement.



## 4. Measurement Mode

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### A. Weight Measurement

When the examinee steps on the foot plate, the screen shows the weight. After the weight value is stabilized, the signal sound rings, and the weight measurement is finished.



### B. Height measurement

There are two modes in height measuring, 'AUTO' and 'MANUAL'.

If the mode is set to 'AUTO' in the setup, the height is automatically measured.

If the mode is set to 'MANUAL', you can measure height by pressing the 'ENTER' button.

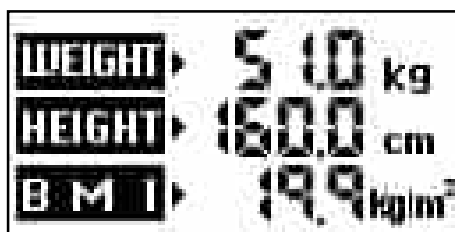


### C. Weight and Height measurement

After weight and height are measured, the screen will show the measured height, weight, and the calculated BMI.

If the mode is set to 'AUTO' in the setup, when the examinee steps on the foot plate the weight and height are automatically measured.

If the mode is set to 'MANUAL', when the examinee steps on the foot plate the weight is automatically measured. You can measure height by pressing the 'ENTER' button.





## 5. Results

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After weight and height are measured, the screen will show the measured height, weight, and the calculated BMI.



If the mode is set to 'H' (Measure only height), the screen will only show the height, and if the mode is set to 'W' (Measure only weight), the screen will only show the weight.

NOTE

## A. Output items

### (1) BMI (Body Mass Index, kg/m<sup>2</sup>)

Body Mass Index is a convenient way of assessing the degree of obesity. BMI is determined using only weight and height.

Formula **BMI = weight (kg) / height<sup>2</sup> (m<sup>2</sup>)**

#### Determination 1) WHO Standard

European weight classification based on the BMI method (WHO, 1998)

BMI(kg/m <sup>2</sup> )	Classification		Diagnosis
<18.5	Underweight	Under	Infectious disease, malnutrition related disease
18.5~24.9	Normal	Standard	Least risk at most disease
25.0~29.9	Overweight	Over	May cause health problem
30.0~34.9	Obese1		Increase of the risk of cardiac disease, high blood pressure, diabetes, etc
35.0~39.9	Obese2		
>40		Severely Obese	

Ref. WHO and the National Heart, Lung, and Blood Institute : clinical guidelines on the identification, evaluation, and treatment of over weight and obesity in adults, the evidence report. June 1998, xiv

#### Determination 2) Asian-Pacific Standard

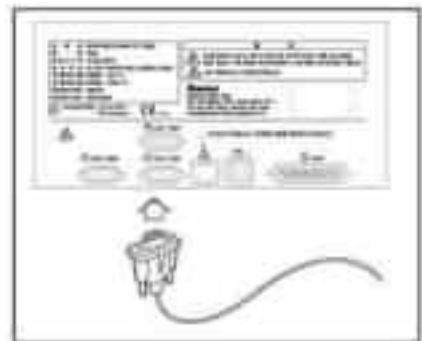
BMI(kg/m <sup>2</sup> )	Classification	Diagnosis
<18.5	Underweight	Low (high risk of other clinical disease)
18.5~22.9	Normal	Average
>23	Overweight	
23.0~24.9	Risky Overweight	Increased
25.0~29.9	Obese step1	Moderate
>30	Obese step2	Severe

Ref. Korean Society for the Study of Obesity, chapter 2. Redefining and Evaluation, The Asian-Pacific perspective: Redefining Obesity and its Treatment: 1st edition, Korean Society for the Study of Obesity, 2001, p10.

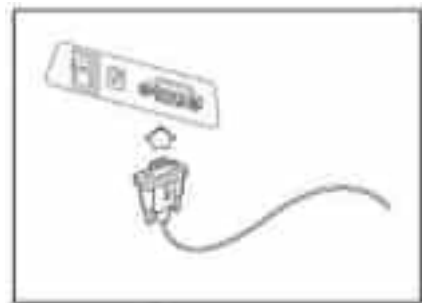
## 6. Connection

Using the BSM330E connected with the InBody series.

(1) Connect the BSM330E and the InBody using the serial cable.



<InBody720>



<BSM330E>



WARNING

Do not touch signal input, signal output or other connectors, and the patient simultaneously.



WARNING

External equipment intended for connection to signal input, signal output or other connectors, shall comply with relevant IEC Standard(e.g., IEC60950 for IT equipment and IEC60601-1 series for medical electrical equipment). In addition, all such combination-system shall comply with the standard IEC60601-1 and/or IEC60601-1-1 harmonized national standard or the combination. If, in doubt, contact qualified technician or your local representative.



Be sure to turn off the InBody and the BSM330E before you connect the two devices. If you connect the two devices while the power is on, a momentary change of electric current can arise and cause fatal damage to the BSM330E and the InBody.



Always use the serial cable provided by Biospace to ensure proper communication with the InBody.

(2) After measuring height on the BSM330E and after you step on the InBody and finish measuring weight, the measured height is automatically transferred to the InBody.

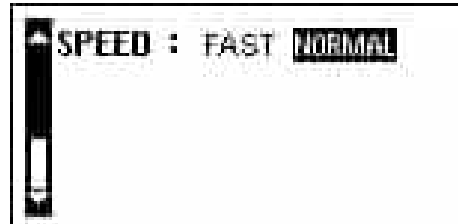
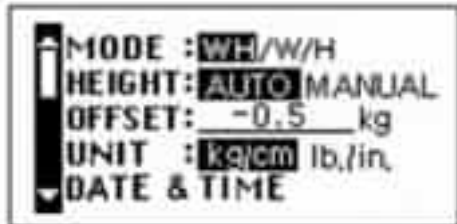
## **Chapter 3. Setup Establishment**

1. How to Setup
2. Setup Menu
3. Modification Example

## 1. How to Setup

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Press the 'SETUP/←' button bring up the following screen. The cursor appears as the underline of each item.



- (1) Press the direction button (▲▼) to choose between MODE, HEIGHT, OFFSET, UNIT, DATE & TIME, SPEED. Pressing the 'ENTER' button will show you the details of the selected item.
- (2) Use the direction buttons (▲▼) again to choose the detail item you want and press the 'ENTER' button.
- (3) If there is an additional item you wish to modify, use the 'SETUP/←' button and the direction buttons (▲▼) to select and press the 'ENTER' button. When you are finished with the modification, press the 'SETUP/←' button to move to the initial screen.

## 2. Setup Menu

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(1) MODE : You can choose a MODE for measuring only height or only weight.

- ① WH: This is used when measuring weight and height together.
- ② W: This is used when measuring only weight.
- ③ H: This is used when measuring only height.

(2) HEIGHT

- ① AUTO: automatically measures height after measuring weight.
- ② MANUAL: press the 'ENTER' button after measuring weight to measure height.



The default factory mode is 'WH' and 'AUTO'

(3) OFFSET

Modifies the weight offset value. When you need to adjust weight due to clothes and accessories, you can set a weight value to compensate and the value will be reflected in the result.

(4) UNIT

Select units to be used. (kg/cm, lb./in.)

(5) DATE & TIME

- Format : Select the date display mode. (yy/mm/dd, mm/dd/yy, dd/mm/yy)
- Date : Set the current date.
- Time : Set the current time in the order of OO(hour)/OO(min)/OO(sec)

(6) SPEED

- FAST : Weight measurement complete in four second regardless of user's movement.
- NORMAL : Weight measurement complete when a user stay still in stable position.

### 3. Modification Example

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When you wish to subtract 0.5 kg to compensate the weight of clothes,

- (1) Press the 'SETUP/←' button.
- (2) Use the direction button (▼) until it shows 'OFFSET' and press the 'ENTER' button.
- (3) Use the direction button (▼) until it shows '-0.5 kg' and press the 'ENTER' button.
- (4) When you are finished, press the 'SETUP/←' button to move to the initial screen and press the 'SETUP/←' button to save the changed setup. From now on, the results will show a weight 0.5 kg less than the measurement.



## **Appendix**

1. Manufacturer Warranty
2. Troubleshooting
3. Specification
4. Classification
5. Customer Service Information

## 1. Manufacturer Warranty

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Product:

Serial Number:

Purchase Date:

Institute Name:



**Biospace Co., Ltd.**

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1. Biospace guarantees that the product has been approved through qualified test procedures under severe conditions.
2. The one year manufactures warranty begins on the date of purchase.
3. During the one year warranty period, Biospace remedies any original defect in material or workmanship.
4. The following defects or malfunctions will not be covered under the one year warranty:
  - Any defect caused by user's fault.
  - Any defect or damage caused by not following the instructions described in the user's manual
  - Any defect or damage caused by natural disasters (storm, flood, earthquake, etc.)
  - Any defect or damage caused by disassembly of BSM330E or by modifying internal parts or program by unauthorized personnel.
5. An extended warranty may be purchased by executing an extended warranty contract after the initial warranty period.
6. No return is allowed after a product is opened. The proof of purchase must be accompanied before requesting service.
7. Please contact authorized personnel for any service calls.

## 2. Troubleshooting

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If you still experience the problem after taking the following steps, contact the local distributor or Biospace. E-mail : [info@biospace.co.kr](mailto:info@biospace.co.kr) TEL: 82-2-501-3939

### A. The BSM330E does not seem to run, even after the power is on.

(In a normal situation, a signal sounds and the LCD is turned on.)

**Cause 1** The plug is not pushed all the way into the electrical outlet.

**Action1** Push the plug all the way into the electrical outlet.

**Cause 2** Extension is not turned on (when using a surge protector) or the power does not flow into extension.

**Action 2** Check if the power flows into the extension and the electrical outlet where the extension is connected.

**Cause 3** When an adapter not provided by Biospace is used.

**Action 3** Only use the adapter provided by Biospace.

**Cause 4** Adapter is not tightly inserted into the BSM330E.

**Action 4** Insert the adapter into the power input port tightly.

### B. The measured weight value seems very low, or shows a negative value.

**Cause 1** The weight sensor (loadcell) calibration was performed wrong during the self-calibration.

**Action 1** Turn off the power of the BSM330E, then turn it on again. Allow the unit to perform the self-calibration process again with no weight on the foot plate. The loadcell will be set to 0 kg during self-calibration. Keep in mind, even a small amount of weight affects the calibration negatively.

### 3. Specifications

Adapter	<p>The following adapter must be used</p> <ul style="list-style-type: none"> <li>- Manufacturer : BridgePower Corp.</li> <li>- Model : JMW140 Series</li> <li>- Input Voltage : AC 100-240V, 50-60Hz, 1.2A</li> <li>- Output Voltage : DC 12V, 3.4A</li> </ul>
Display Type	128 X 64 Dots graphic LCD
External Interface	RS-232C Female 1EA
Outputs	Height, Weight, BMI
Height Range	950 ~ 2050 mm / 3ft. 1.4in. - 6ft. 8.7in.
Weight Range	10 ~ 250 kg / 22 ~ 551 lb.
Age Range	3 ~ 99 years
Measurement Duration	<p>Height Measurement : 5 seconds</p> <p>Weight Measurement : 2 seconds</p>
Machine Weight	18 kg(39.7lb.)
Dimensions	<p>360(W) X 570(L) X 2235(H) : mm</p> <p>14.2(W) X 22.4(L) X 88.0(H) : inch</p>
Operation Environment	10 ~ 40 °C, 30 ~ 75 % RH, 70-106 kPa
Transport and Storage Environment	-20 ~ 70 °C, 10 ~ 95 % RH, 50-106 kPa (No condensation)

\* Specifications are subject to changed without prior notice.

## 4. Classification

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This product received classification in the following:

Type of protection against electric shock: Class I equipment

Degree of protection against electric shock: Type BF applied parts.

Degree of protection against the ingress of water: Ordinary equipment: IPX0

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

Mode of operation: Continuous operation



Any changes or modifications in construction of this device which are 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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## 5. Customer Service Information

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