

# BWA 2.0

## User's Manual

### **BWA2.0 User's Manual for Measurement Guide and Setup**

Thank you for purchasing the BWA2.0. This User's Manual describes all the features of the BWA2.0.

Please read before use and keep it in a safe place. By following the instructions in the manual, you will be able to use the BWA2.0 more safely and effectively.

## Intended use and medical indication

BWA2.0 is mainly used for healthy and acute or chronically ill populations in hospitals, medical practices and inpatient care facilities in accordance with national regulations. It can be used to assist in the assessment of nutritional status, obesity and muscle balance. Body composition analysis is important in changing the daily life style habits of a subject since it provides the basis of appropriate physical activity and dietary habits for improving personal daily routine. It can be also usefully applied to follow-up studies of patients who have been treated for various diseases.

- Medical checkups: Body composition analysis enables health checkups by identifying the risk of diseases closely related to body composition imbalances such as obesity, malnutrition, body water imbalance, and osteoporosis.
  - Obesity: Percent body fat is considered to be more appropriate rather parameter than BMI to ensure proper weight loss and improvements in long-term health, tracking changes for adjusting/developing customized treatments.
  - Pediatric obesity: Body composition analysis is an essential part of health assessments for children and adolescents. Percent body fat could be a useful parameter than just weight to verify health condition in children and adolescents.
  - Sarcopenia: InBody Test is a quick and easy way to provide the Skeletal Muscle mass Index (SMI), which is the sum of the skeletal muscle mass of the limbs divided by the height square. This parameter is useful for identifying muscle loss or low muscle that increase risks of falls, disability, poor quality of life, and premature death.
  - Diabetes & Endocrinology: Diabetes is often associated with excess fat, however having insufficient muscle mass is just as detrimental and increases diabetes risk. Visceral fat also plays a key role in the development of metabolic and cardiovascular disease.
  - Edema: The ECW Ratio (ECW/TBW) is associated with residual renal failure, inflammation, malnutrition, and hypertension, which are common in dialysis patients. Monitoring the ECW Ratio (ECW/TBW) allows the assessment of body water accumulation in the extracellular water due to impaired cardiovascular function. Even in cirrhosis, patients with high ECW Ratio can be used to recognize the risk of ascites, and have a high prognosis in critically ill or surgical patients.
  - Segmental ECW Ratio: InBody directly & separately measures each segment of the body and provides each segmental ECW Ratio and it can be used to detect body water imbalances resulting from the development or progression of lymphedema.
  - Nutrition: ABCD method in nutrition is a mnemonic of four primary components of nutritional assessment. “A” stands for anthropometric measurements including stature, body weight, BMI, and body composition. Body composition analysis can reveal changes in body composition (body water, protein, minerals, and body fat) that cannot be known by changes in body weight.
  - Fitness: Strength training stimulates muscle growth, exercise burn the calories strengthens cardiorespiratory capacity, which reduce the risk of diabetes, heart disease, and other health concerns and result in the various changes in body composition. Body composition analysis shows skeletal muscle mass and segmental muscle mass, and it helps to focus on building more muscle with symmetrical or lateral balance.
- \* The BWA2.0 is not a diagnostic device. To make an accurate diagnosis, a physician must go through a thorough examinations and take their results into account in addition to the results of the BWA2.0.
- \* The BWA2.0 is not used in home healthcare environment.

## Please refer to the important information below before reading this manual.

### **Warning**

Failure to comply with safety warnings and regulations can cause serious injury or death.

### **Caution**

Failure to comply with safety cautions and regulations can cause injury or property damage.

### **Note**

Referring to notes can help improve the use of device.

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Visit our website (inbody.com) to view and download additional information about the BWA2.0. InBody Co., Ltd. reserves the right to modify the appearance, specifications, etc. of this device to improve its quality, without prior notice.

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# BWA 2.0

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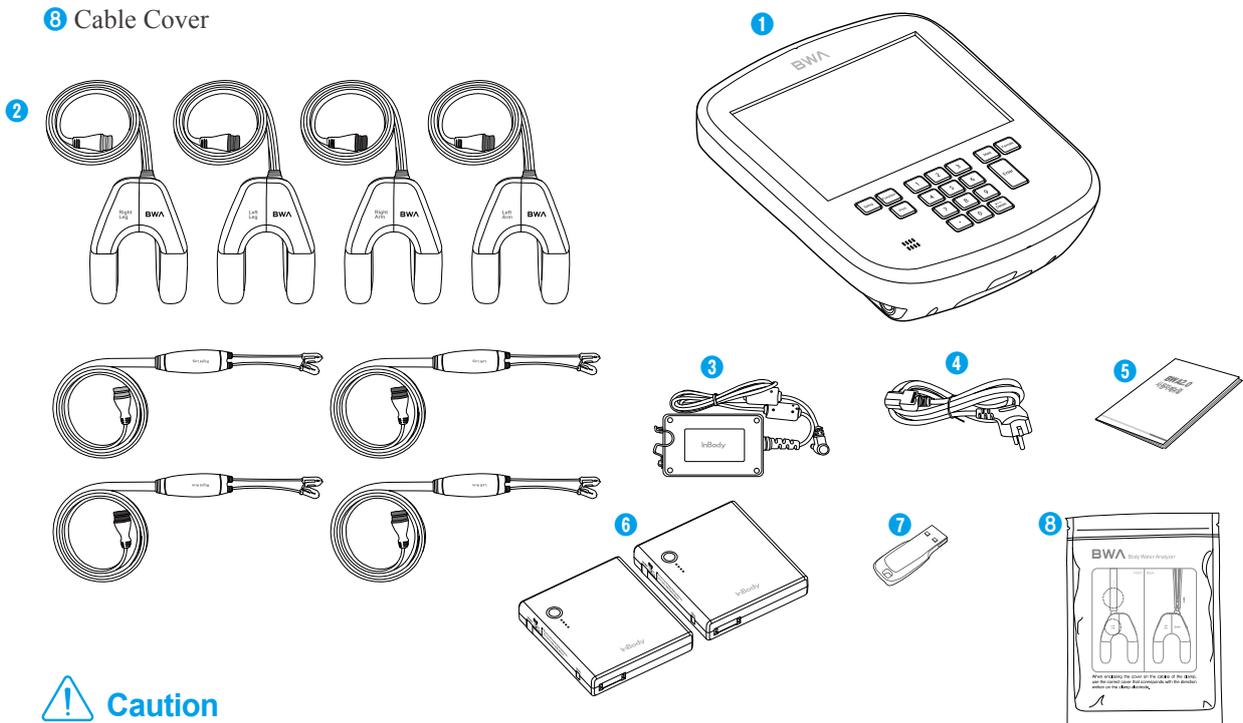
# I. BWA2.0 Installation

## A. Product Components

The BWA2.0 consists of the following components. Make sure all of the following components are present.

\* Please check if the BWA2.0 has any damage prior to installation.

- 1 BWA2.0 Main Unit
- 2 Four Clamp Electrodes or Adhesive Electrodes
- 3 Power Adapter
- 4 Power Cable
- 5 User's Manual
- 6 Two Batteries (IB Battery 220)
- 7 InBody USB
- 8 Cable Cover

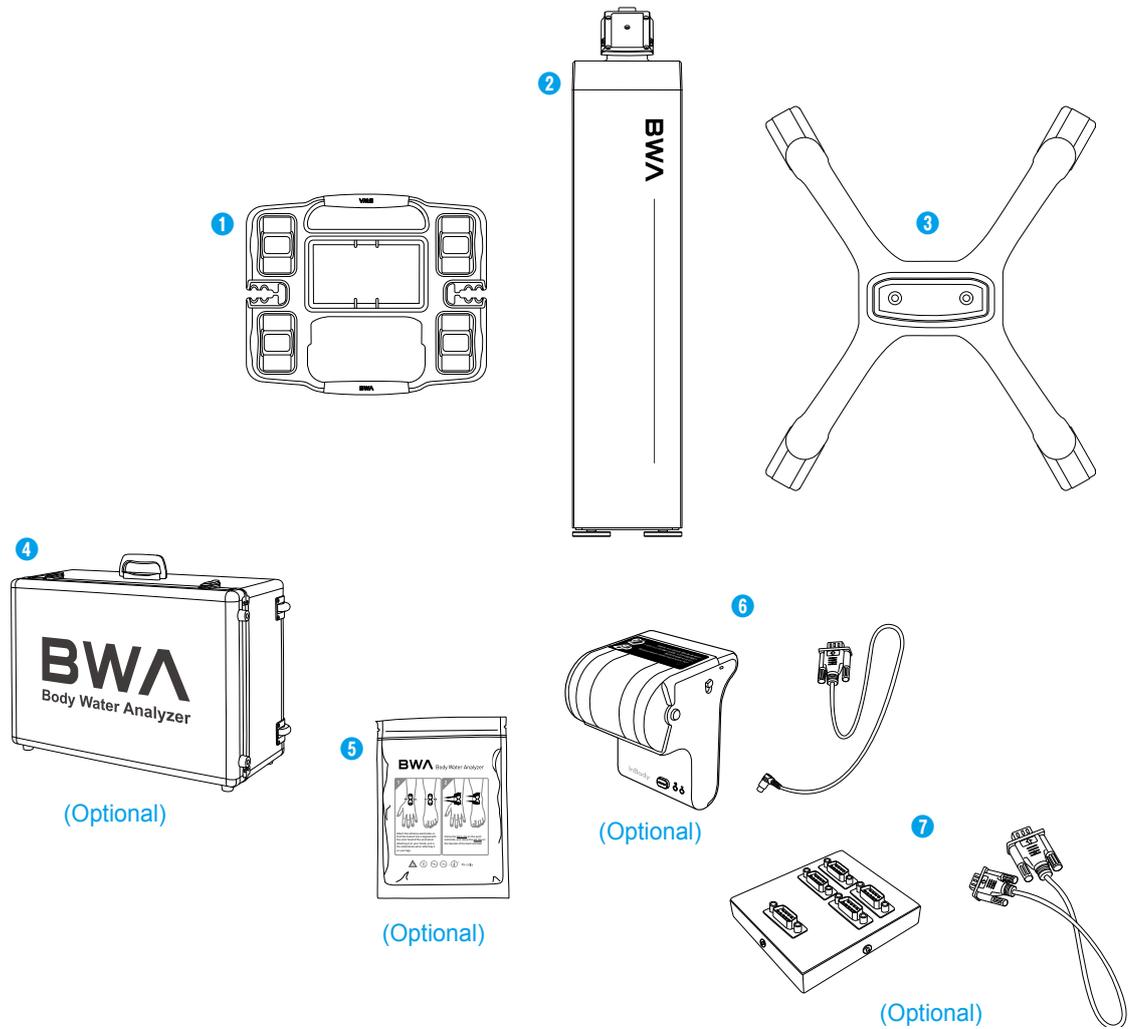


### ⚠ Caution

- For BWA2.0 Electrodes, you can purchase and use either a Clamp or Adhesive Electrodes type. (Clamp Electrodes type is default)
- The optional disposable electrode (BWA-ES100) is available when purchasing the Adhesive Electrodes.
- The battery (IB Battery 220) is designed to connect to the BWA2.0.
- Do not use the battery for purposes other than connecting it to the BWA2.0.
- The BWA2.0 is supplied with two batteries.
- One battery can be used with the main unit while the other battery is charged or stored separately.
- The battery should be stored under the following conditions:
  - a. Please store in a pack or box in a cool state where it is not exposed to direct sunlight.
  - b. Long-term storage may accelerate the self-discharge of the battery and degrade battery performance.  
Please charge the battery at least every six months to prevent the performance degradation due to solution leakage or self-discharge.
  - c. For long-term storage, please store in a dry place where it is low in humidity and temperature range of -20°C to +30°C.
  - d. The capacity may be reduced when it is used again after the long-term storage. Please charge and discharge the battery fully several times to restore the original performance.

## B. Accessories

- 1 BWA Cart Basket
- 2 BWA Cart Stand
- 3 Cart Lower Body Part
- 4 BWA Portable Case (Optional)
- 5 Disposable Electrode (BWA-ES100) (Optional)
- 6 Thermal Printer (TP100) (Optional)
- 7 Serial Distributor (SD400) (Optional)



### Note

- The BWA2.0 can be installed in the BWA Cart or Portable Case, both are available for purchase.

## C. Installation Environment

Check the environment before installing the BWA2.0. This device is suitable for indoor use.

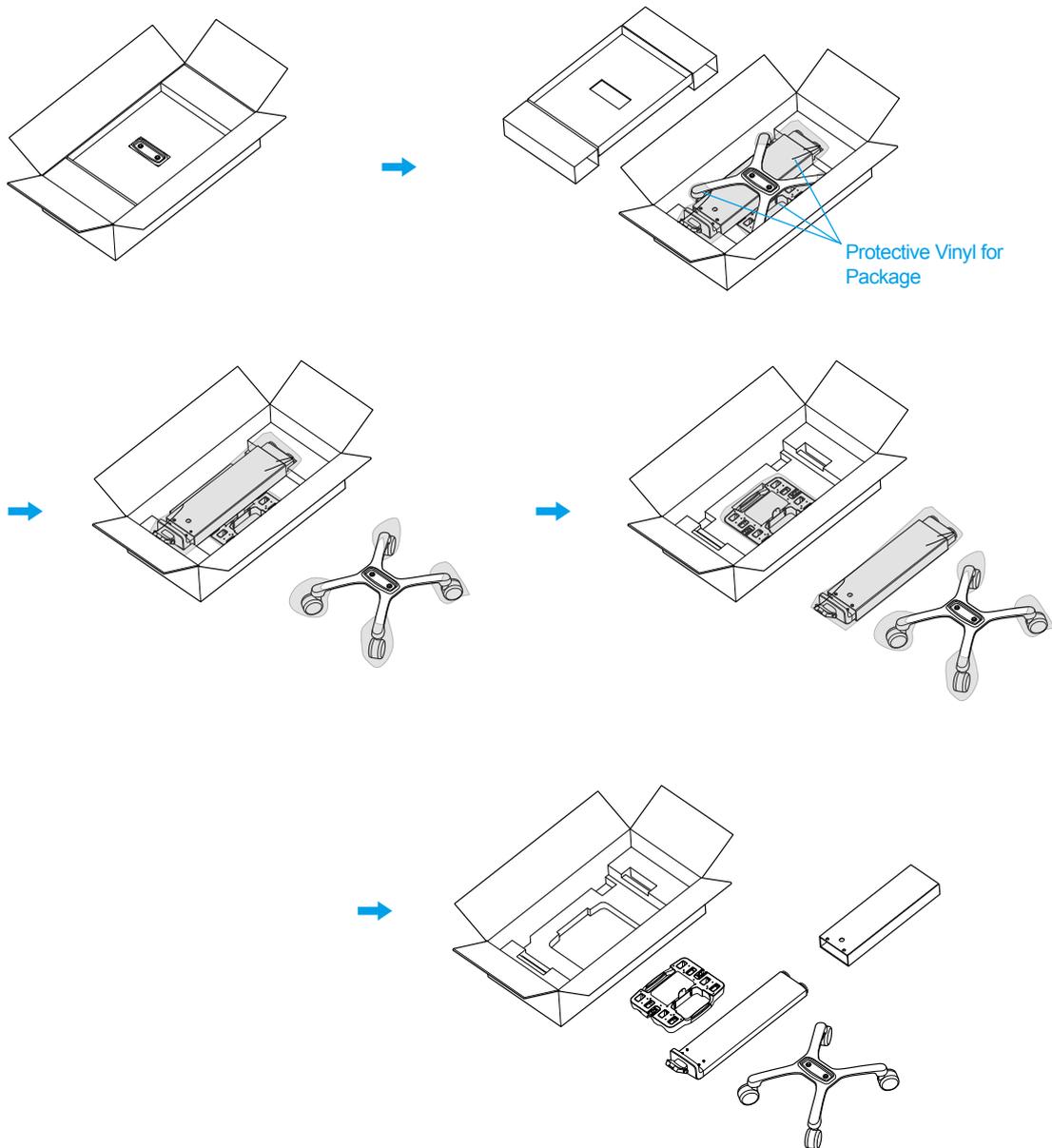
If installing the device outdoors, the following requirements must be fulfilled.

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

## D. Installation Instructions

### 1. Installation for cart user

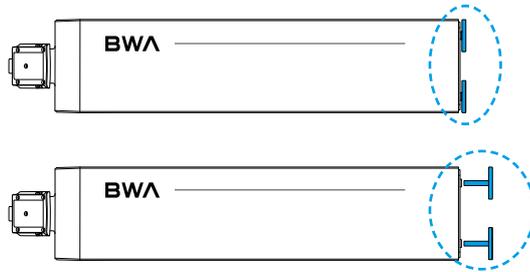
1. Open the packing box of the Cart and remove the inner material. In this order, take out the lower body part, stand, and basket from the box.



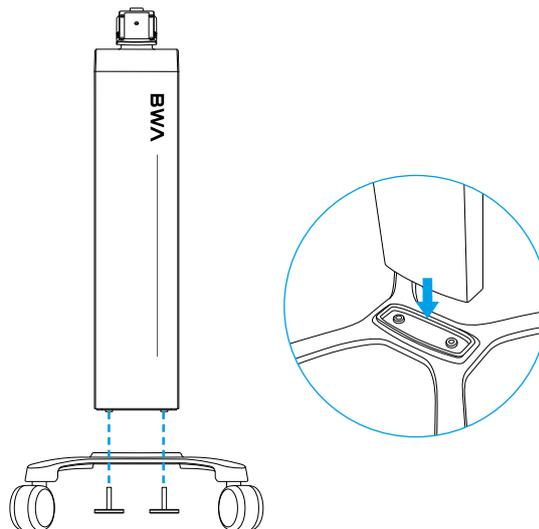
 **Caution**

- For repackaging the BWA2.0 at a later time, the supplied packing materials should be kept. Other wastes should be disposed according to relevant local laws and regulations.
- Be careful not to get your hands or feet caught by the packing box.
- Be careful for children not to enter the packing box.
- Do not put packing box vinyls on your face.

2. Turn the two knobs on the bottom of the stand counterclockwise to remove them.



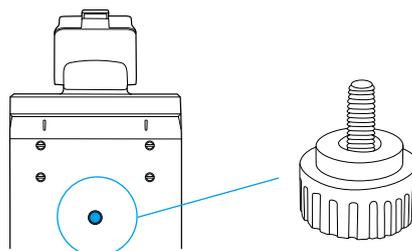
3. After aligning the two bolt positions of the stand and the lower body part, turn the knob clockwise to fix them. When aligning the stand on the lower body part, pay attention to the direction of the stand so the stand properly fits into the shape of the lower part.



 **Caution**

- When turning the knob bolt, be careful not to get your hands or other body parts caught.
- One person of a team of two people should hold the upper side of the stand while the other person removes the knobs at the lower side.

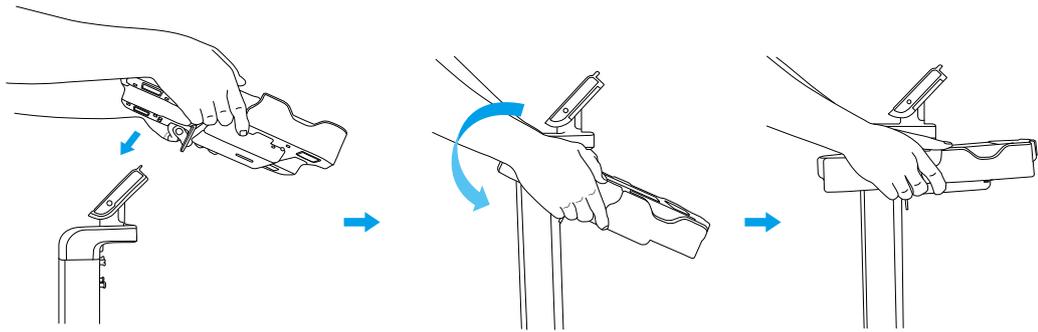
4. Turn the knob counterclockwise on the back of the stand to remove it.



 **Note**

- When removing the knob, keep it well, so as not to lose it.

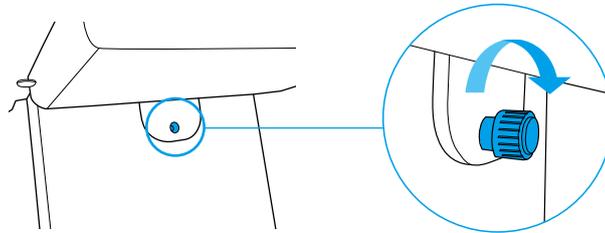
5. Tilt the basket to insert it into the top of the stand as shown below. Hang it by aligning the four grooves with the four knob positions on the back of the stand.



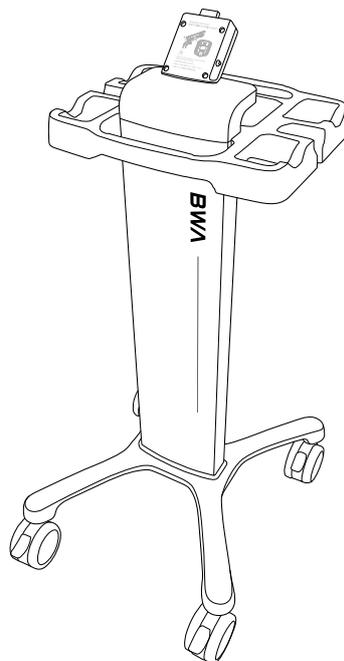
 **Caution**

- When hanging the basket on the top of the stand, be careful not to get your hands or other body parts caught.

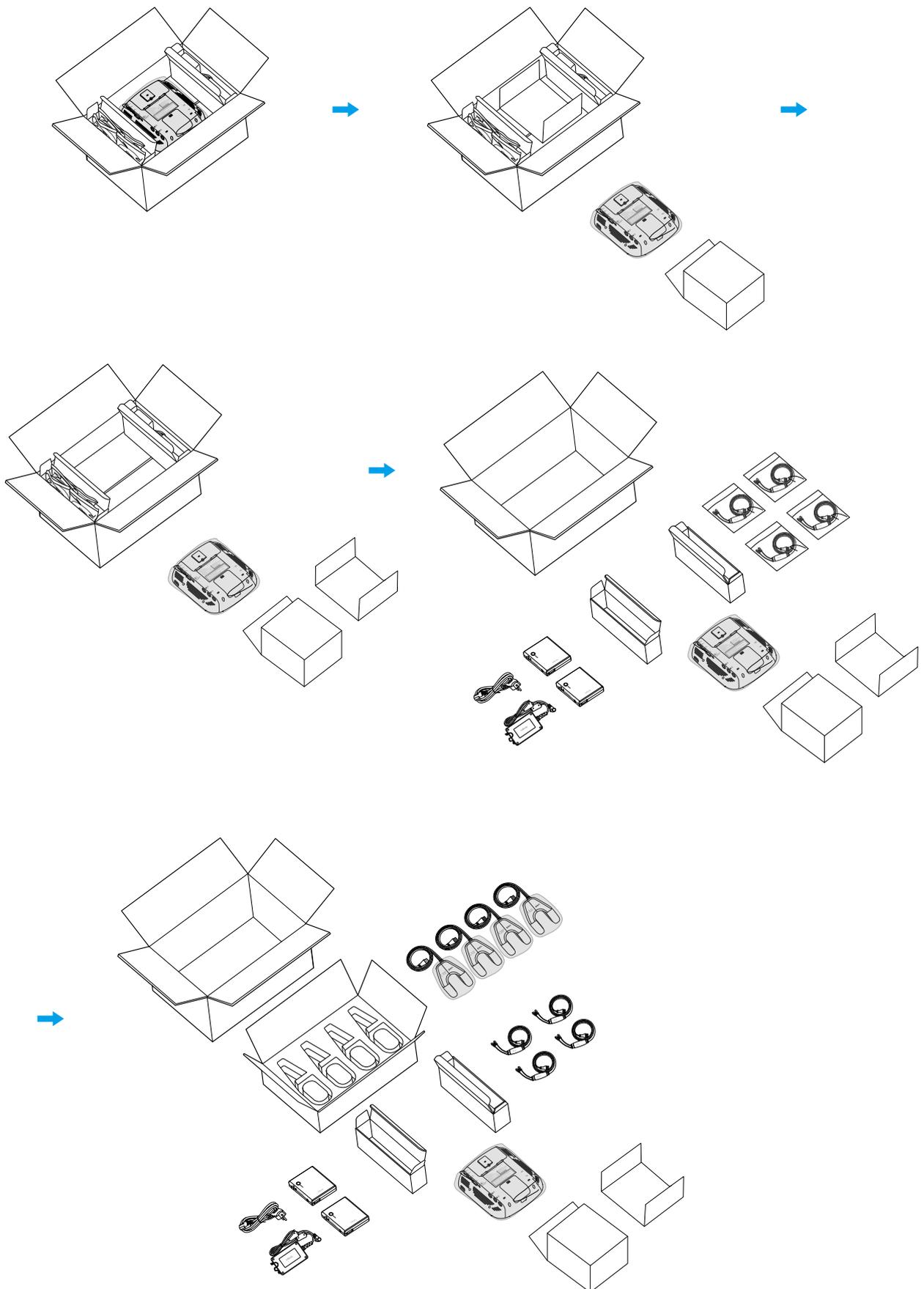
6. Align the knob removed in Step 4 with the position, then turn it clockwise to fix it.



7. Refer to the figure below after completing the assembly of the BWA Cart.

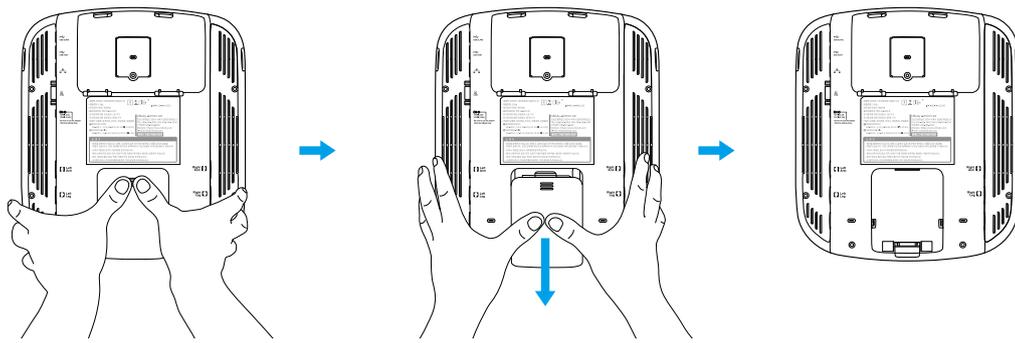


8. Open the packing box of the main unit and remove the packing pad. Take out the BWA2.0 main body, clamp electrodes(or adhesive electrodes) and batteries from the box. Then remove the protective packaging material from the main unit and the electrodes.

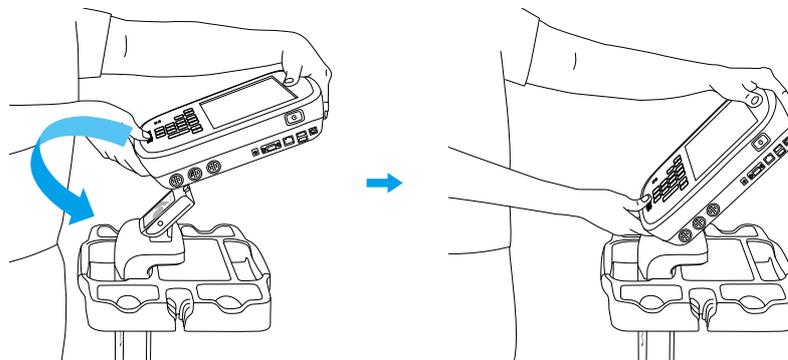


9. Press the cover located on the back of the main unit and pull it down to remove the cover.

(Store the cover separately.)



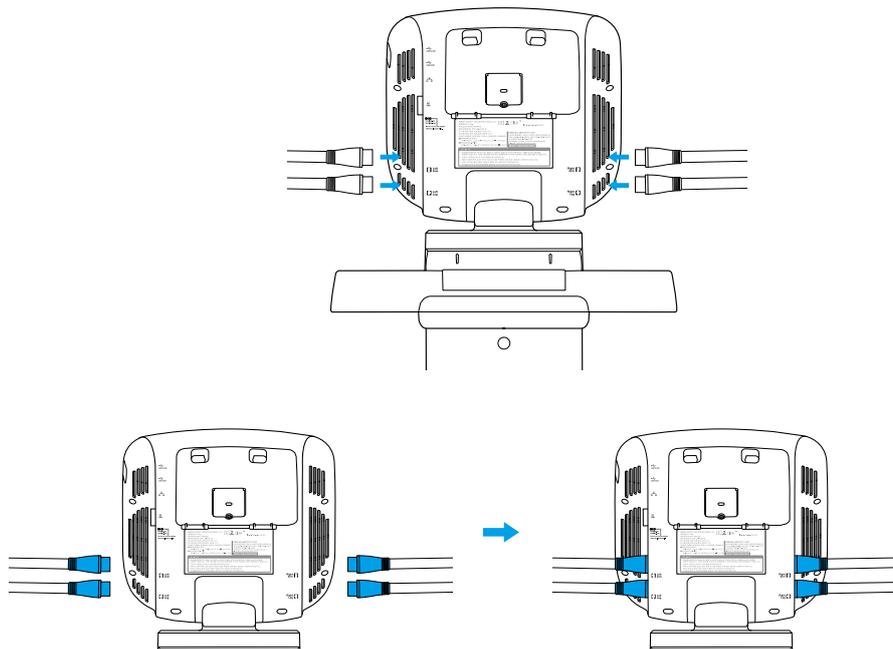
10. Align the main unit into the mounting part of the cart, and then lower the main body downward to insert it.

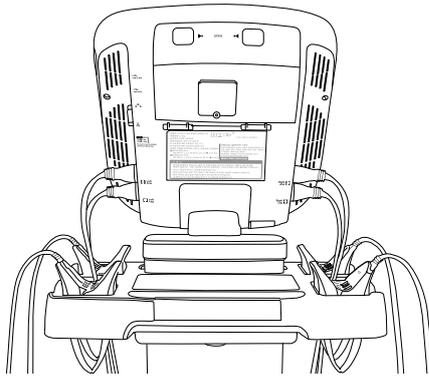


 **Caution**

- When inserting the main unit to the mounting part of the cart, be careful not to get your hands or other body parts caught.

11. Connect the electrode cables to the main unit. Connect the electrode cables labelled Right Arm (black), Left Arm (red), Right Leg (yellow), and Left Leg (blue) to each position of the main unit according to the color.

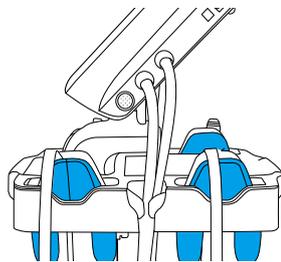




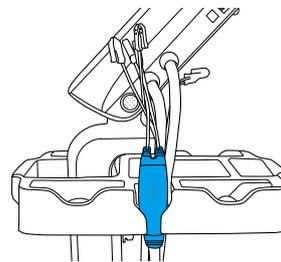
 **Caution**

- When connecting or disconnecting the cable, grasp the connector part and not the cable. Otherwise, the cable may be damaged.

12. Mount the electrodes to the cart basket electrode mounting groove as shown below.



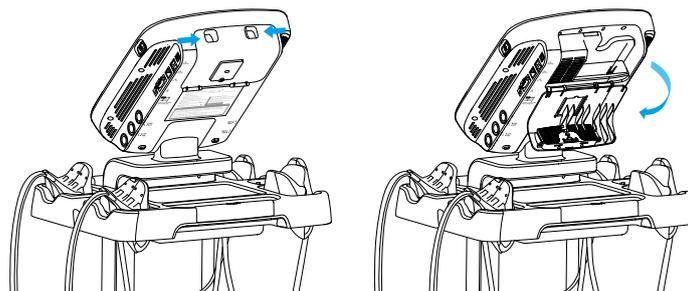
When mounting Clamp Electrodes



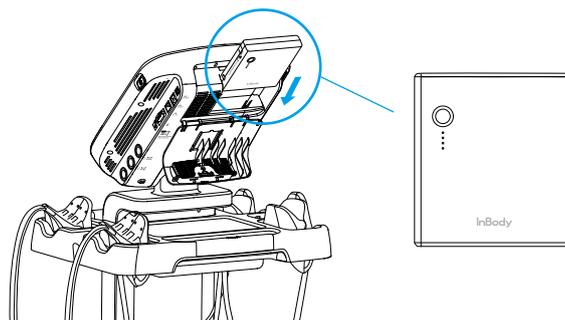
When mounting Adhesive Electrodes

13. Insert battery

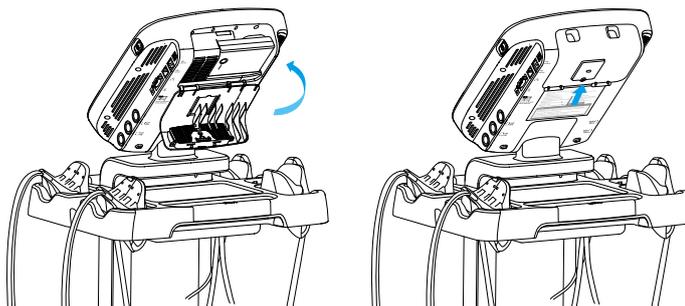
- 1 Place your fingers on both sides of the OPEN mark on the rear of the main unit. Press the buttons in the direction of the arrows and then pull the cover down to open.



- 2 With the battery button visible, push the battery into the main unit until it clicks.



- 3 Lift the cover up and press the cover inward until it clicks. If the cover does not close, make sure that the battery is inserted properly.



### **Warning**

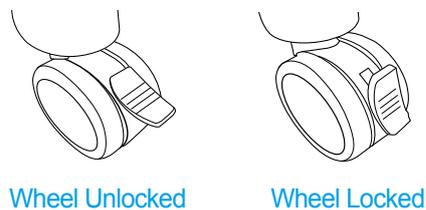
- Read carefully the following items. Improper usage of the components may lead to battery leakage, explosion, or combustion.
  - a. Do not drop or throw batteries into water.
  - b. Do not use or store the battery nearby a heat source(e.g. fire or heater, above 60°C).
  - c. When charging, please use the adapter provided by InBody.
  - d. Do not connect the battery directly to a wall outlet or socket in a vehicle.
  - e. Do not burn or heat up the batteries.
  - f. Do not short-circuit the terminals of the battery with conductors or other metallic objects, and do not carry or store the batteries along with other metallic objects such as necklaces.
  - g. Do not apply shock or mechanical vibration to the battery.
  - h. Do not crush or hammer the battery.
  - i. Do not touch fingernails or other sharp objects to batteries, and avoid tapping or hitting it with a hammer.
  - j. Do not weld the battery terminals directly.
  - k. Do not attempt to disassemble the battery in any way.
  - l. Do not charge the battery in a fire or extremely high temperatures.
  - m. Do not place batteries in microwave ovens.
  - n. Do not use the batteries when they smell, heat up, deform, discolor or have other abnormalities.  
Take batteries out of the device or charger to stop using them if they are in use or charging.
  - o. Keep the batteries away from children.
  - p. Remove the battery from the machine immediately if there is a leakage or foreign smell.
  - q. A fire or explosion may occur from a leaked electrolyte.
  - r. Do not rub your eyes if the leaked electrolyte gets into your eyes. Immediately wash them with running water.  
Then consult a physician immediately. The eyes may be further damaged if not properly treated.

### **Caution**

- Do not install batteries with wet hands.
- Do not use the batteries for other purposes except the BWA2.0 operation.
- Remove the batteries from the battery compartment when not in use for a long period.
- Do not touch any leakage. If it gets on your skin or clothes, wash it off with running water.

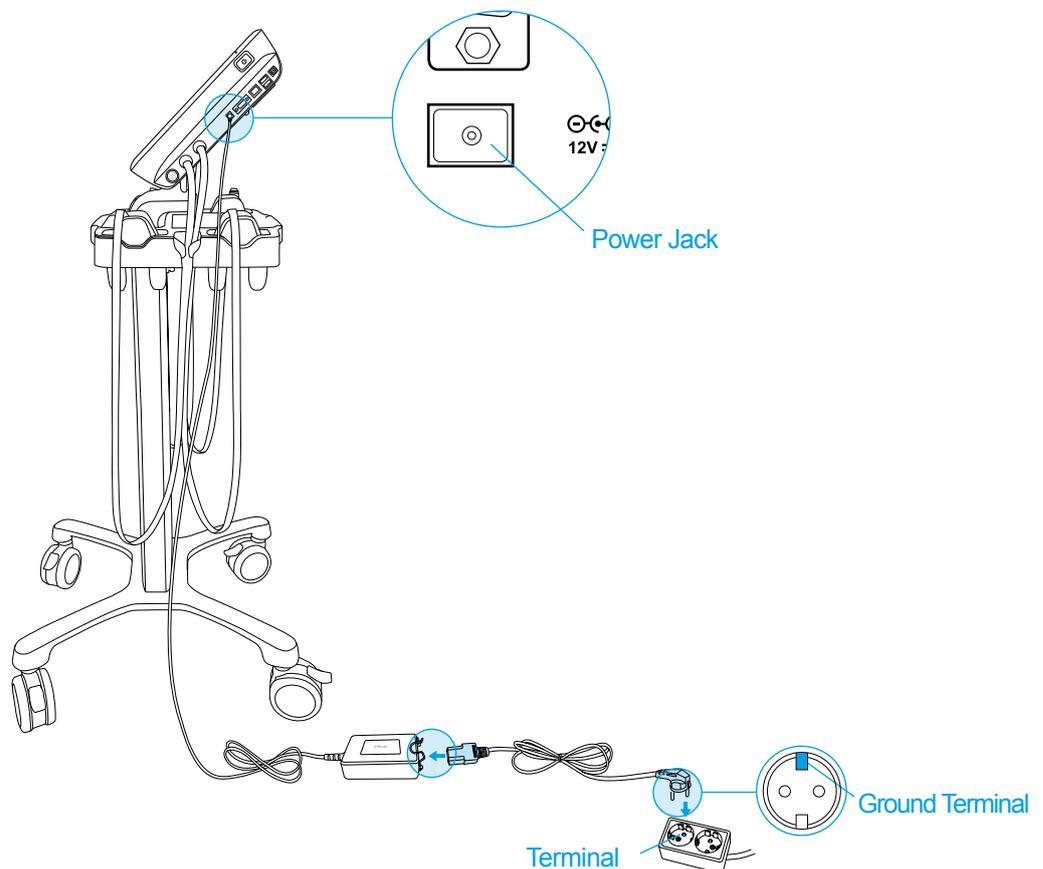
- Do not connect the battery terminals to metal wires, necklaces, chains, etc.
- To avoid damage or malfunction, do not drop the battery.
- Do not disassemble the battery.
- If the terminals of the battery get dirty, clean the battery before using it. Otherwise, power loss or charging failure may occur by a loose battery contact.
- Do not use the battery if there are any abnormalities such as smell, deformation, discoloration, etc.
- If the battery goes underwater, it may malfunction. Do not use that battery.
- Do not place the battery over heated materials (Over 60°C).
- Dispose the batteries according to local regulations and guidelines.
- Improper use of batteries may cause the performance degradation of the BWA2.0 or a fire which may damage the BWA2.0.

14. The cart has wheels for easy transport. The wheels can be locked/unlocked as shown below.



15. Connect the power adapter to the power inlet on the right-side port of the BWA2.0. Connect the power cable to the power adapter. Plug in the power cable to a 3-terminal outlet with a ground terminal.

\* The BWA2.0 can be connected to optional devices such as stadiometer and blood pressure monitor and PC program, LookinBody120. For details to connect, please refer to "F. Connecting Compatible Device" in "I. BWA2.0 Installation".



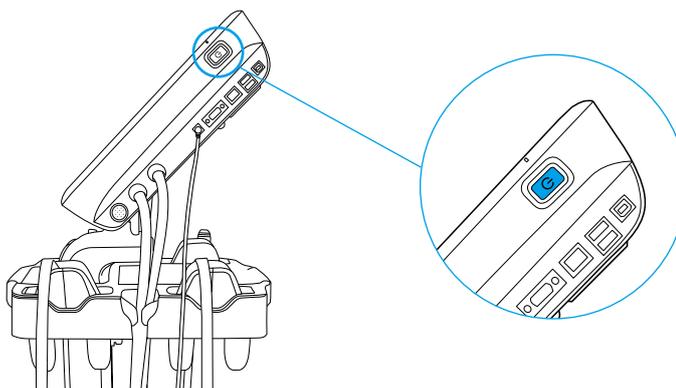
## Warning

- Do not pull the power cord violently.
- Do not plug or disconnect the power cable with wet hands. Otherwise, it may cause an electric shock.
- Always use an outlet supplied to the right power supply (AC 100-240 V). Otherwise, it may cause a fire or malfunction.
- When using a power surge protector, make sure that the outlet or the extension cable has adequate power capacity.
- Do not disassemble the device. This may cause electric shock or injury, product malfunction, and inaccurate results, and it will not be covered by the manufacturer's warranty.
- Do not directly connect the BWA2.0 with any other electronic devices when the BWA2.0 is on. This may cause an electric shock.
- If you are not using the BWA2.0 for a long time, unplug the power code.

## Caution

- Using the BWA2.0 in a dry environment or on a carpet may result in static electricity and damage to the device. Use an antistatic mat if you need to install it in such an environment.
- Install the BWA2.0 on a floor that is flat and vibration-free. If the device is installed where the floor is not flat, the test results may be inaccurate.
- Do not clean the electrodes with detergent. If a liquid cleaner touches the electrode, it may cause corrosion and device failure. For cleaning, use an InBody Tissue (wet tissue).
- The device may be damaged by electrical shock and malfunction if it is plugged into an ungrounded outlet. The test results may also be inaccurate.
- If the BWA2.0 is subjected to electrical interference, the test results may be inaccurate. Do not install the BWA2.0 in proximity with fluorescent lights, an equipment with large AC motor such as treadmills, vibrating platform, refrigerators, air conditioners, compressors, high-frequency heat treatment devices, and heating devices that cause electrical interference. Unplug and plug them into different power outlets when the BWA2.0 and a device that causes electrical interference are connected to the same power outlet.
- If you are connecting the BWA2.0 to other devices, then turn on the other devices first. When turning off the power, turn off the power of the BWA2.0 first, and then turn off the power of the other devices. This can minimize the electric shock to the BWA2.0.
- Use the adapter provided by InBody. The BWA2.0 may malfunction when using other adapters.
- Do not use the BWA2.0 near heat sources such as heating appliances. It may cause deformation, breakdown, or a fire.
- Use the BWA2.0 in a location where it is not exposed to direct sunlight. It may cause discoloration or damage to device.

16. Press the power button on the right-side of the BWA2.0 to turn it on.



### \* How to turn the Power On/Off

Power On: Press the Power button briefly if the BWA2.0 has been turned off.

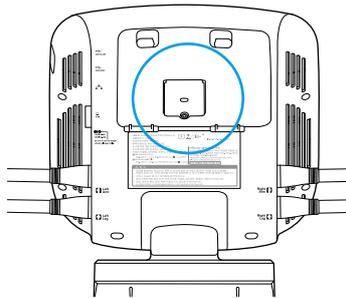
Power Off: Press and hold the Power button for about three seconds if the BWA2.0 has been turned on.

### \* Operation status according to the LED color of the Power Button

LED Indication	Operation status
Blue	BWA2.0 is turning on.
Red	The battery is plugged into the BWA2.0 with the power turned off, and the battery is being charged with the adapter connected.
Green	The battery is plugged into the BWA2.0 with the power turned off, and the battery is completely charged with the adapter connected.

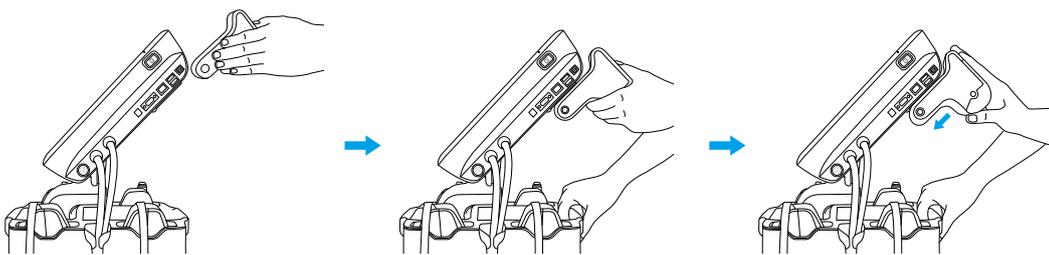
### \* 2. How to install the Thermal Printer

1. There is a part to connect the thermal printer on the rear of the BWA2.0.



2. Insert the thermal printer into the groove on the rear of the BWA2.0 and slide it down.

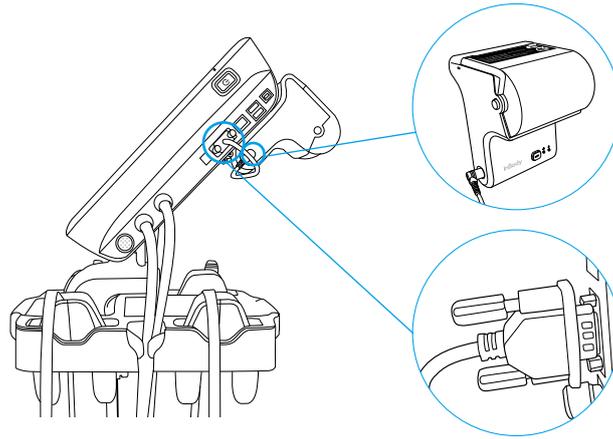
Hold the cart with one hand and push the thermal printer into the part to be fixed.



### Caution

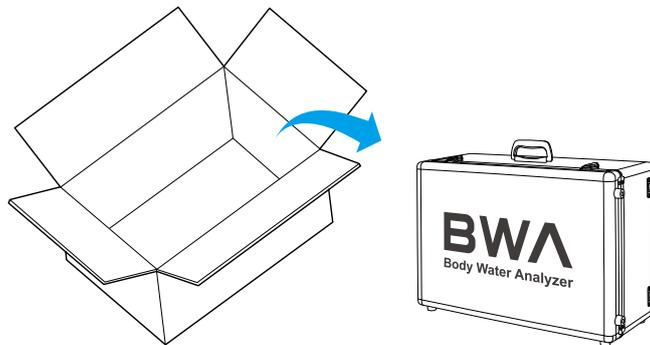
- When you insert the thermal printer to the BWA2.0, do not place your hands or other body parts on the main unit and the thermal printer fastening area. There is a risk of getting the hand or other body parts caught.

3. Connect the BWA2.0 to the thermal printer with a thermal printer cable.

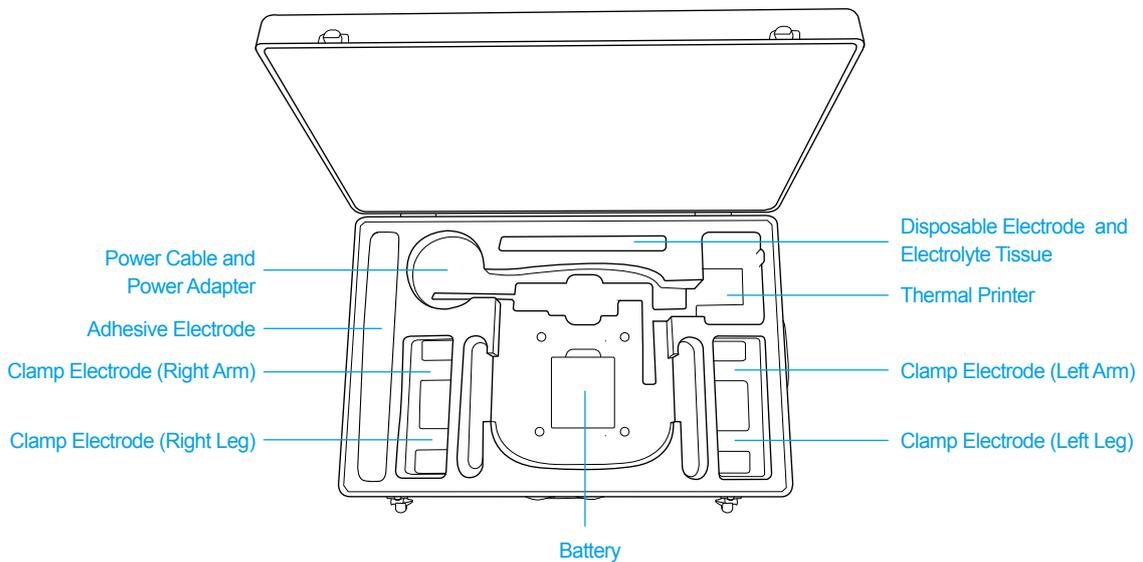


### 3. How to Install the BWA Portable Case

1. Open the box and take out the case.



2. Put the BWA2.0, four clamp (or adhesive) electrodes, two batteries, power cable, power adapter, thermal printer, disposable electrode, and electrolyte tissue into the BWA Portable Case.



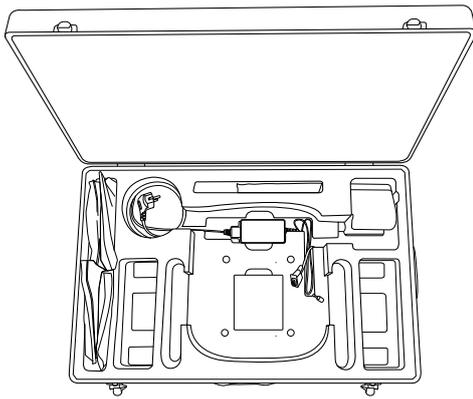


Figure of storage without the main unit and clamp electrodes

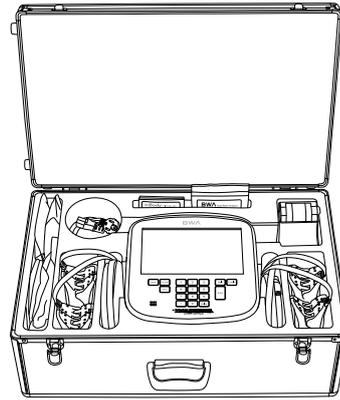
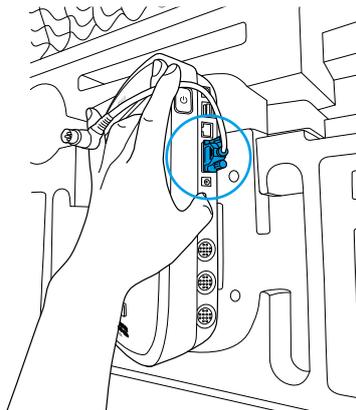
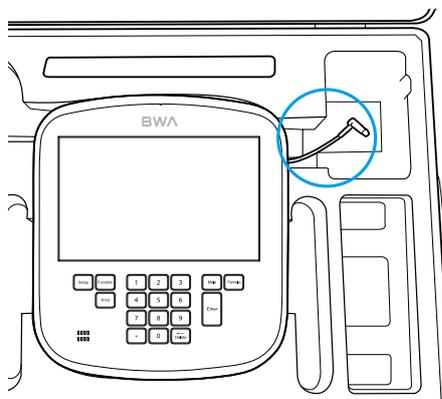


Figure of all components storage

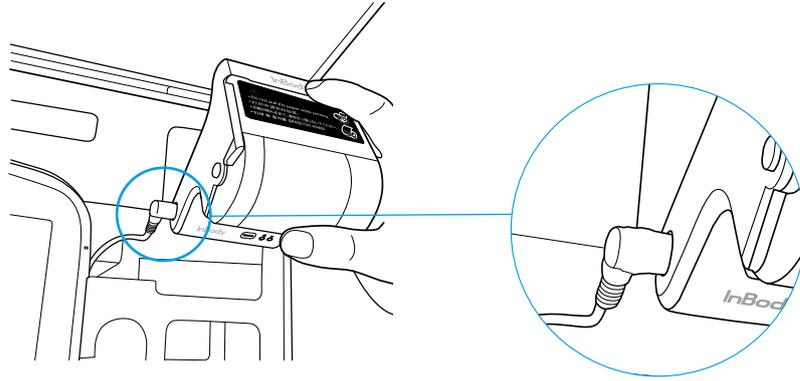
3. Connect the clamp (or adhesive) electrode to the cable and the BWA2.0.  
Connect the electrode cables labeled Right Arm (black), Left Arm (red), Right Leg (yellow), and Left Leg (blue) to the BWA2.0 according to the cable color marked on the sides of the BWA2.0. Make sure the cables are plugged firmly into each location.
4. Connect the thermal printer to the COM port on the BWA2.0 using the thermal printer cable.  
Gently lift the side of the BWA 2.0 and connect the thermal printer cable to the COM port on the BWA 2.0 first.



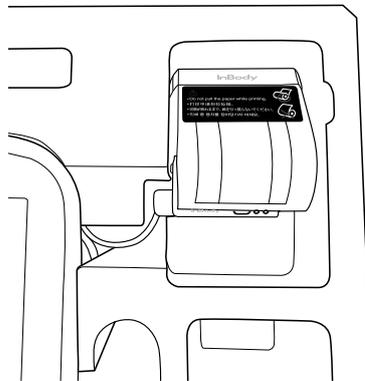
- Place the BWA2.0 in the original position and put the cable into the cable groove.



- Connect the thermal printer cable to the thermal printer.



- Make sure the 'InBody' logo of the thermal printer is visible from above and that the thermal printer cable fits into the groove.

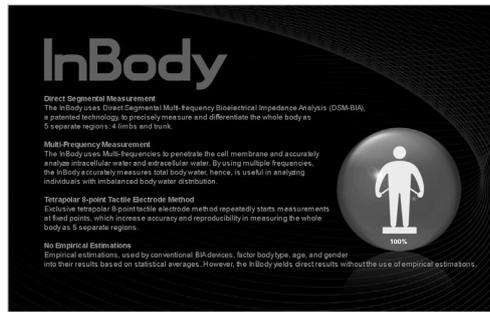


 **Note**

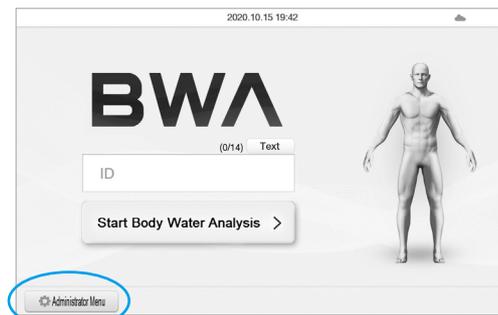
- The thermal printer is an optional item.

## E. Initial Setup

1. The BWA2.0 automatically starts booting when it is turned on.

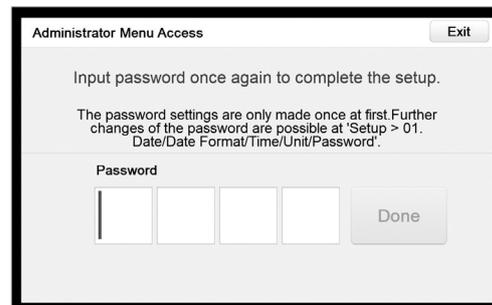
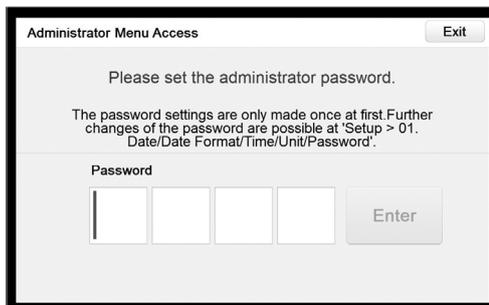


2. Press the [Administrator Menu] on the test standby screen.



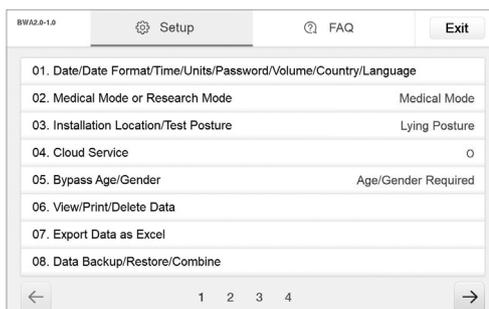
Administrator Menu Button

3. Enter the administrator password to set the password. This screen will appear only once for the initial password setup.

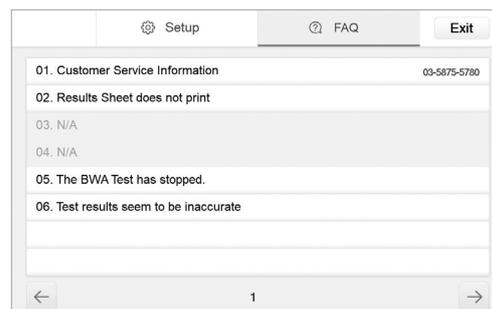


\* Be careful not to forget the password you set. If you have forgotten your password, please contact InBody Customer Service.

4. You will see 'Setup' and 'FAQ' when you enter Administrator Menu.



Setup



FAQ

- 1) Setup: Configure settings and manage data according to the test environment.
  01. Date/Date Format/Time/Units/Password/Volume/Country/Language  
: Change or modify the BWA2.0's basic settings.
  02. Medical Mode or Research Mode  
: This option allows switching between the Medical Mode, which is the basic test mode of the BWA2.0, and Research Mode, which provides additional impedance.  
(You can check additional impedance by setting the Research mode when using clamp electrode.)
  03. Installation Location/Test Posture  
: This option allows selecting and saving the location where the BWA2.0 is installed. The data shown on the results screen varies depending on the installation location selected after completing the test.
    - Nephrology: Body Water Result screen
    - Intensive care unit: Impedance Result screen
    - Rehabilitation Medicine: Muscle, Fat Result screen
    - Others: Body Water Result screenDepending on the measurement environment, you can select the test posture (lying posture, seated posture, and standing posture).
  04. Cloud Service  
: This is a service that can be used after agreeing to the privacy policy and allows to send the results to the cloud so that members can check and manage the BWA results themselves.  
\* Cloud service is a paid service.
  05. Bypass Age/Gender  
: The subject can bypass inputting their age or gender if the test environment is designed for testing only a specific age group or gender.
  06. View/Print/Delete Data  
: This option allows checking, printing or deleting the test result saved in the BWA2.0.
  07. Export Data as Excel  
: This option allows copying the test result saved in the BWA to InBody USB as an Excel file format.
  08. Data Backup/Restore/Combine  
: This option allows saving the test results to InBody USB for backup or restores the test results backed up to the BWA. If you are using multiple products, the data can be merged together.
  09. Printer Setup  
: This option allows setting the printer to connect to the BWA2.0. Connect the printer to the BWA2.0 to print your result sheet.
  10. Result Sheet Types  
: This option allows setting and selecting the Result Sheet to print among Result Sheets (Body Water Result Sheet, Body Composition Result Sheet, Body Composition Result Sheet for Children, Evaluation Result Sheet, Research Result Sheet, and Comparison Result Sheet) which the BWA2.0 offers.
  11. Automatic Printing Options  
: This option allows setting the Result Sheet to be printed automatically after completing the test. You can print up to two Result Sheets per each Result Sheet type at one time.

12. Paper Types
  - : Select the paper type for printed Result Sheet. Options include blank A4 paper or pre-printed BWA Result Sheets provided by InBody.
13. Outputs/Interpretations for Result Sheet
  - : This option allows setting the parameters or explanations that appear on the right side of Body Composition Result Sheet, Body Composition Result Sheet for Children, and Body Water Result Sheet, and Thermal Result Sheet.
14. Result Sheet Custom Logo
  - : You can preview the logo printed on the upper right of the Result Sheet.
    - \* For inserting and changing the logo, Please contact Customer Service for help with uploading or modifying a logo.
15. Printing Alignment
  - : Adjust the alignment of where the results will be printed on the result sheets.
16. Connect to the Internet
  - : Connect the BWA2.0 to the Internet via Wi-Fi or wired LAN. Once the BWA2.0 is connected to the Internet, the BWA2.0 test results can be sent to the cloud, or the LookinBody120, that can be connected remotely.
17. Bluetooth
  - : This option allows setting up the Bluetooth so that the BWA2.0 can connect to LookinBody120, or to other compatible devices such as BSM Stadiometer series, BPBIO Blood Pressure Monitor series.
    - \* For details to connect Bluetooth, please refer to "F. Connecting Compatible Devices" in "I. BWA2.0 Installation" in this User's Manual.
18. N/A
19. N/A
20. Normal Range
  - : Set the normal range for BMI, Percent Body Fat, and Waist-Hip Ratio.
    - \* The ideal value of BMI may also be set.
21. N/A
22. Standard Child Growth Curve
  - : Set the type of standard child growth curve to use on the Body Composition Result Sheet for Children.
23. Touchscreen Alignment
  - : Adjust the alignment of the touchscreen.
24. Customer Service Information
  - : Save the Customer Service contact information. Please refer to the customer service information if you have any inquiries regarding the BWA Test, or problems that cannot be resolved through the 'FAQ' menu.
25. Auto-Lock
  - : This option allows setting the time before the screen is locked and the corresponding password to restrict using the BWA2.0.
26. Serial Connect
  - : This function allows setting for the BWA2.0 to connect to the LookinBody120, data management program or other devices through a serial connection.

2) FAQ: See additional information on how to use the BWA2.0. Refer to FAQ checklist when there are problems that occur while using the BWA2.0.

01. Customer Service Information

: See the customer service contact information in "Setup 24. Customer Service Information. Please contact the customer service if your problem cannot be resolved through the 'FAQ' or if you need further inquiries regarding the BWA Test.

02. Result sheet does not print

: View the FAQ checklist when the result sheet does not print.

03. N/A

04. N/A

05. The BWA Test has stopped

: View the FAQ checklist when the BWA Test has stopped.

06. Test results seem to be inaccurate

: View the FAQ checklist when the test results seem to be inaccurate.

## F. Connecting Compatible Device

To connect an compatible device to the BWA2.0, check the communication method of the compatible device. There are two ways of communication: wired connection such as USB or RS-232C (9-pin serial terminal, Female), and wireless connection (Bluetooth).

### 1. Wired connection

#### 1) Printer

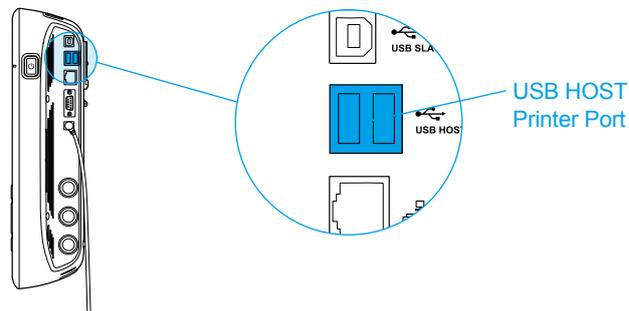
The Result Sheet can be printed when the printer is connected to the BWA2.0.

\* Please visit the following website to find out the compatible printers for BWA2.0 : <https://www.inbodyservice.com>.

**1** Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, the printer might not properly connect.

**2** Connect the USB cable supplied with the printer to the USB HOST printer terminal on the right-side port of the BWA2.0. Connect the other end of the USB cable to the USB connection terminal of the printer.



**3** Turn on the printer.

**4** Connect the printer according to the instructions on "09. Printer Setup" on Setup in Administrator Menu.

**5** You can set the result sheet related settings from "10. Result Sheet Types" to "15. Printing Alignment" in the Administrator Menu.

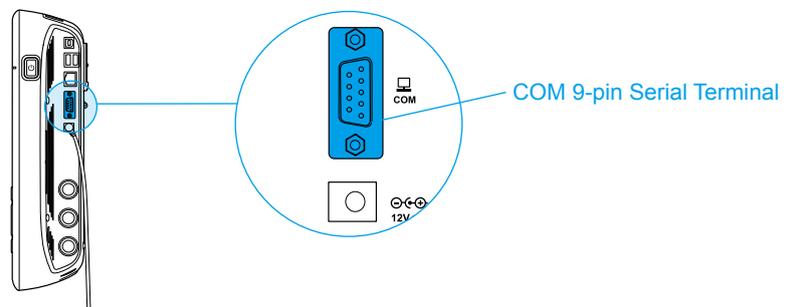
#### 2) Thermal printer

The Thermal Result Sheet can be printed when the thermal printer is connected to the BWA2.0.

**1** Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, the thermal printer might not properly connect.

**2** Connect the thermal printer cable supplied with the thermal printer to the COM 9-pin serial terminal on the right-side port of the BWA2.0. Connect the other end of the cable to the serial terminal of the thermal printer.



**3** Turn on the thermal printer.

**4** Turn on the BWA2.0. Set up the thermal printer at "26. Serial Connect" on Setup in Administrator Menu.

**5** You can set the result sheet related settings from "10. Result Sheet Types" to "15. Printing Alignment" in the Administrator Menu.

### 3) Stadiometer

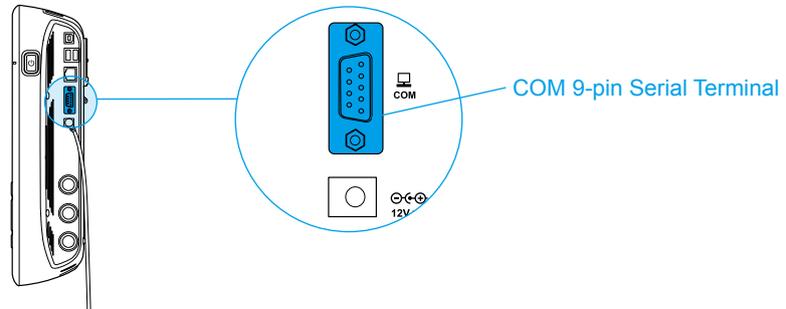
The height values measured by the stadiometer are sent to the BWA2.0 when it is connected to the BWA2.0.

\* Please make sure to connect only the BSM Stadiometer series from InBody.

- 1 Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, the stadiometer might not properly connect.

- 2 Connect the serial cable supplied with the stadiometer to the COM 9-pin serial terminal on the right-side port of the BWA2.0. Connect the other end of the cable to the serial terminal of the stadiometer.



- 3 Turn on the stadiometer.

- 4 Turn on the BWA2.0. When the stadiometer is connected, the  (Stadiometer) icon will be displayed in the upper left of the test standby screen.

### 4) Blood Pressure Monitor

The blood pressure values measured by the blood pressure monitor are sent to the BWA2.0 when it is connected to the BWA2.0.

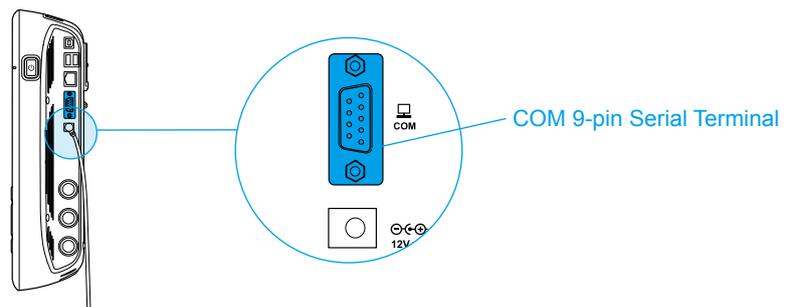
\* Please make sure to connect only the BPBIO Blood Pressure Monitor series from InBody.

\* If you select the type of Results Sheet at "13. Outputs/Interpretations for Result Sheet" on Setup in Administrator Menu and select blood pressure in the sub-options, then you can print the blood pressure value on the BWA Result Sheet.

- 1 Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, the blood pressure monitor might not properly connect.

- 2 Connect the serial cable supplied with the blood pressure monitor to the COM 9-pin serial terminal on the right-side port of the BWA2.0. Connect the other end of the cable to the serial terminal of the blood pressure monitor.



- 3 Turn on the blood pressure monitor.

- 4 Turn on the BWA2.0. When the blood pressure monitor is connected,  (the blood pressure monitor) icon will be displayed in the upper left of the test standby screen.

## 5) Barcode Reader

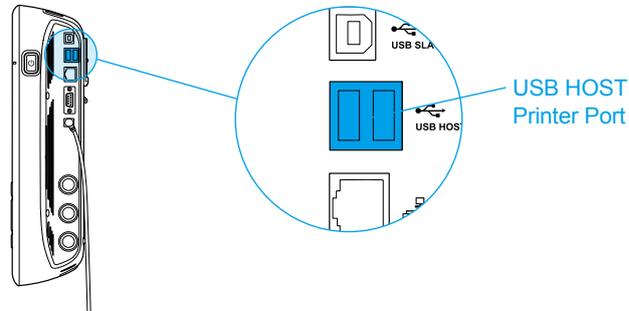
The ID will be inputted automatically, if a barcode reader is connected to the BWA2.0.

\* If the barcode reader is not recognized, please contact InBody Customer Service.

### 1 Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, the barcode reader might not properly connect.

### 2 Connect the USB cable of the barcode reader to the USB HOST port on the right-side port of the BWA2.0.



### 3 Turn on the BWA2.0. When the barcode reader is connected, (the barcode reader) icon will be displayed in the upper left of the test standby screen.

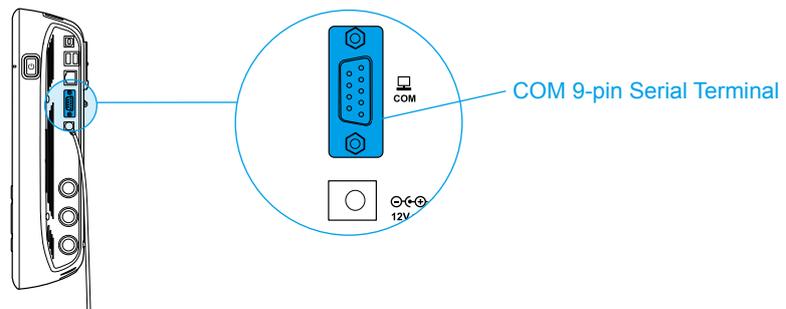
## 6) Serial distributor (SD400)

You can connect a Stadiometer and a Blood Pressure Monitor at the same time if you connect a serial distributor to the BWA2.0.

### 1 Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, Stadiometer and Blood Pressure Monitor might not properly connect.

### 2 Connect the serial cable supplied with SD400 to the COM 9-pin serial terminal on the right-side port of the BWA2.0. Connect the other end of the cable to the serial terminal of the SD400.



### 3 Connect each device (Stadiometer and Blood Pressure Monitor) via serial cable to each port of SD400 and turn on each device.

### 4 Turn on the BWA2.0. Set the SD400 at "26. Serial Connect" on Setup in Administrator Menu, and set the device connected to each port of the SD400. When each device is connected, the device icon



will be displayed in the upper left of the test standby screen.

## 7) LookinBody120

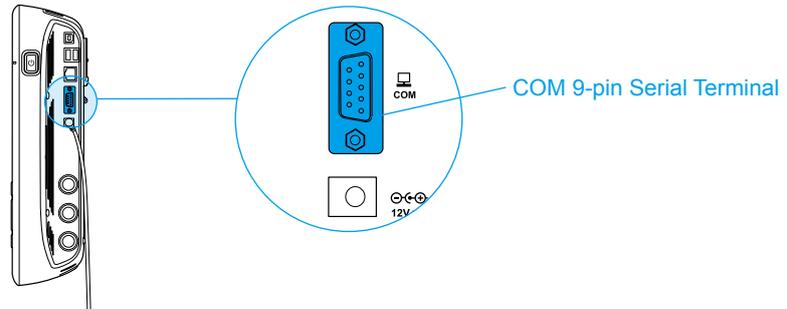
By connecting LookinBody120 to the BWA2.0, you can manage your BWA data.

\* If LookinBody120 is not recognized, please contact InBody Customer Service.

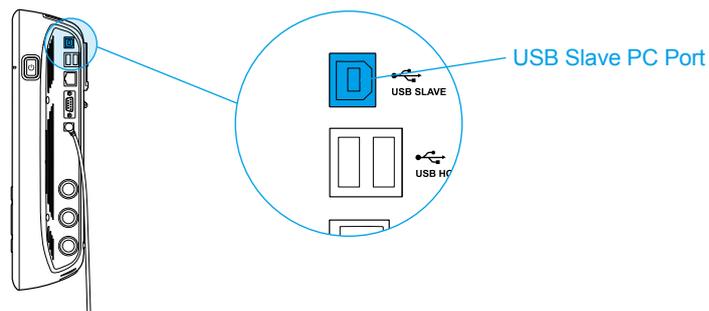
### 1 Turn off the BWA2.0.

\* When the BWA2.0 is already turned on, LookinBody120 might not properly connect.

### 2 If your PC has a serial port, connect the serial cable provided with LookinBody120 to the COM 9-pin serial terminal on the right-side port of the BWA2.0, and connect the other end of the serial cable to your PC.



If there is no serial port on your PC, you can connect a normal USB-AB type cable to the USB SLAVE port on the right-side port of the BWA2.0 instead. Connect the other end of the USB cable to the USB port of the PC.



### 3 Turn on the BWA2.0. Then launch LookinBody120 installed on your PC and follow its instructions to connect to the BWA2.0.

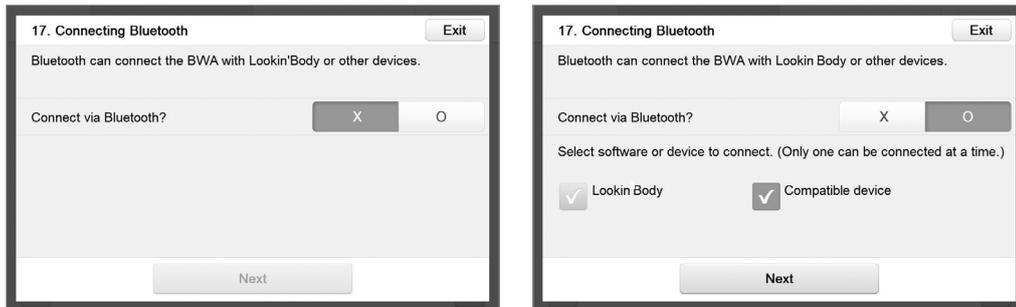
## Caution

- When you are connecting the cable to the device be careful not to move or pull the device.
- Avoid laying cables connecting to compatible devices where people frequently pass. This may cause individuals to trip over or become injured.
- Do not connect compatible devices that are not specified from InBody to the BWA2.0. Otherwise, it may cause malfunction.

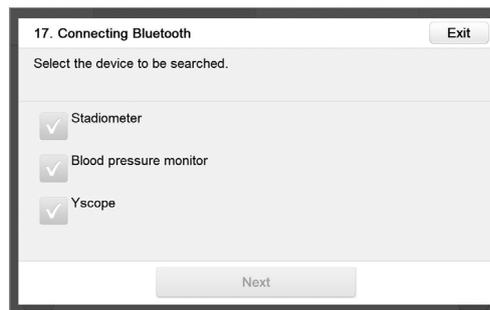
## 2. Connecting Bluetooth

- 1) Press the [Administrator Menu] on the test standby screen.
- 2) Go to the password to enter the Administrator Menu.
- 3) Enter the "17. Connecting Bluetooth" in Setup.
- 4) If "O" is selected on "Connect via Bluetooth?", you can select "LookinBody" or "Compatible device". Then, please select the "Compatible device" for device connection.

\* While BWA2.0 and LookinBody120 are already connected via Bluetooth, and if you are trying to connect other compatible devices via Bluetooth, the original connect between BWA2.0 and LookinBody120 will stop.

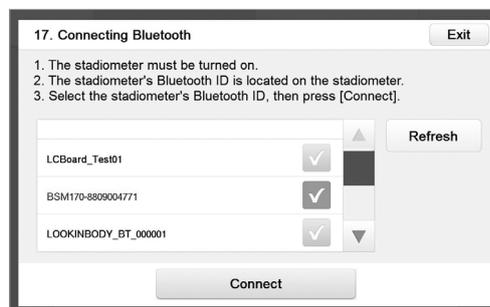


- 5) Turn on one of the InBody recommended compatible device and check the product name and serial number on the name plate attached to the compatible device.
- 6) Choose the compatible device to be connected and then press [Next].

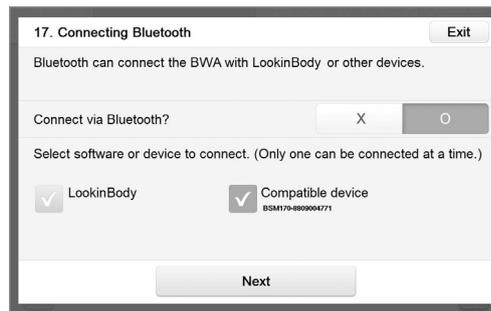


- 7) The compatible device's Bluetooth ID consists of "Product Name-Serial Number", and select the Bluetooth ID of the device to be paired and press [Connect].

\* If the Bluetooth ID does not appear or the connection is not stable, please contact InBody Customer Service.

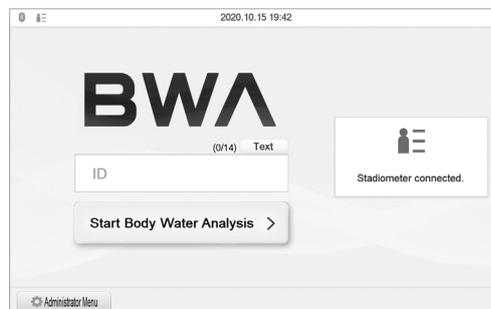


8) If the compatible device is paired properly, the Bluetooth ID of the device connected to the BWA2.0 will appear as shown below.



9) Press [Exit] to return to the test standby screen, and the Bluetooth icon  and the corresponding device icon will be displayed in the upper left corner after a while.

\* The screen below shows the stadiometer connected.



### 3. Connecting Internet

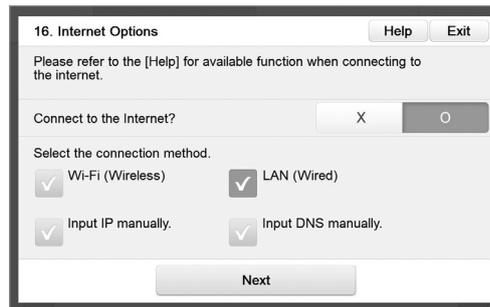
Once the BWA2.0 is connected to the Internet, you can use the Cloud Service or LookinBody Web.

\* If the Cloud Service does not work or if LookinBody Web is not recognized, please contact InBody Customer Service.

#### 1) Connecting LAN

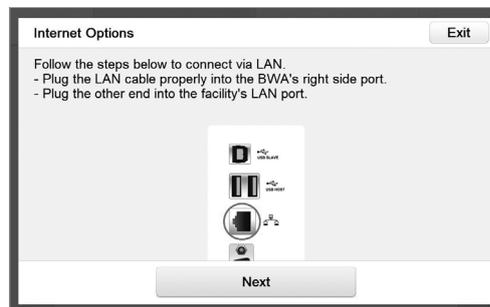
- 1 Press the [Administrator Menu] on the test standby screen.
- 2 Enter the password to enter the Administrator Menu.
- 3 Go to "16. Internet Options" in Setup.
- 4 Press LAN and then press [Next].

\* You may need to enter the IP address or DNS address manually depending on the service area. In this case, press the corresponding button to enter manually.

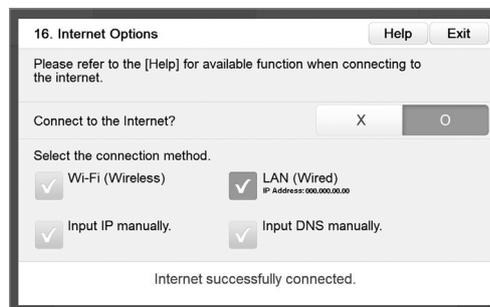


- 5 Connect the LAN cable to  the shape port on the right-side port of the BWA2.0.

\* LAN cable should be connected to a device terminal with internet service or to a connector on the wall.



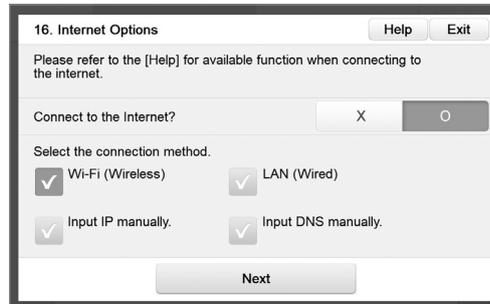
- 6 You can connect to LookinBody Web or use the Cloud Service through LAN after completing an internet connection.



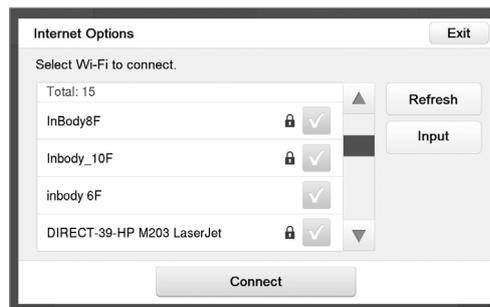
## 2) Connecting Wi-Fi

- 1 Press the [Administrator Menu] on the test standby screen.
- 2 Enter the password to enter the Administrator Menu.
- 3 Go to "16. Internet Options" in Setup.
- 4 Press Wi-Fi and press the [Next].

\* Depending on the service area, you may need to enter the IP address or DNS address manually.



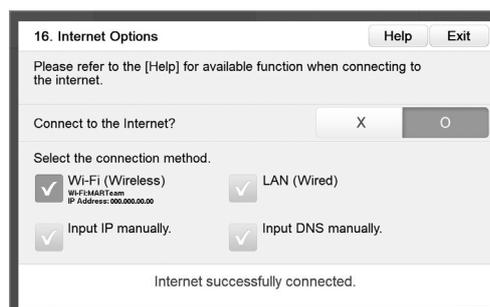
- 5 Select the Wi-Fi to connect.



- 6 Enter the Wi-Fi password if needed.



- 7 You can connect to LookinBody Web or use the Cloud Service through Wi-Fi after completing an internet connection.



## G. Precautions for Maintenance

### **Caution**

- Be careful not to pull the electrode cable by force.
- Always be careful not to drop or drag the electrode cable on the floor.
- Do not apply excessive force to the device.
- Be careful not to get injured by your feet caught in the wheels of the device.
- Turn off the device if you are not using it for a day or longer.
- For long term storage, unplug the power cable from the wall outlet.
- When moving the device with the power on, be careful not to damage the device.
- Do not allow any liquid substances to contact the device directly. Keep food and drinks away from the device. Substances getting inside the device can cause critical damage to the electronic components.
- Clean the exterior of the device gently with a lint-free cloth once a week.

Be especially careful not to scratch the LCD screen while cleaning the device.

- Packing material and other wastes should be disposed of according to the relevant laws and regulations.
- Turn off the BWA2.0 first. Then turn off other devices. It can minimize electric shock to the device.
- Be careful not to drop the clamp (or adhesive) electrode on the floor. This can cause serious damage to electronic components inside the electrode.
- Do not clean the clamp (or adhesive) electrode with detergent.

If liquid cleaner runs into the electrode, it may cause corrosion and device failure. Wipe the electrode gently with an InBody Tissue containing alcohol or saline solution.

- If you have an infectious disease or open cut, do not touch or use the device.

## II. BWA2.0 Test

### A. Precautions for Measurement

#### **Warning**

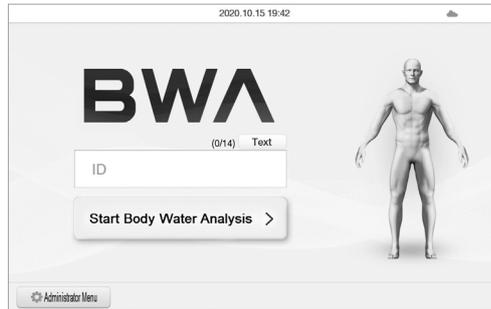
- Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this device. Safe, micro alternative currents will flow through the body during the test, but this may cause malfunctioning of the device or endanger lives.
- The Bioelectrical Impedance Analysis (BIA) method does not harm the human body because it uses micro alternative current. However, if you are pregnant, please consult your doctor or specialist.
- Children or people with restricted mobility should be tested with the help of an instructor or assistant.
- If you have an infectious disease or open cut, do not touch or use the device.

#### **Caution**

- Stay at least 10-15 minutes in the posture you want to measure before measuring.  
Body fluid can shift during the BWA test and affect the results if you stand, lie down, or sit for a long time.
- Test on an empty stomach. Food intake affects your weight and is considered part of the body composition, which may affect your test results.
- Test after using the bathroom. Food in your stomach affects your weight and is considered part of the body composition, which may affect your test results.
- Test before exercising. Even light exercise can temporarily change body composition.
- Avoid using the sauna or bath before measuring.
- Make sure that no conductive objects such as steel structures touch your body while measuring.
- Measure at room temperature (20°C -25°C). The human body remains stable at room temperature, but the body composition may change temporarily in cold or hot conditions.
- Test in the morning if possible. In the afternoon, body water tends to be driven to your lower body, which can affect your test results.
- If your wrists and ankles are dry or if you have a lot of dead skin cells, the test may not work well, due to poor electrical contact between the electrode and the body.  
Wipe your wrist and ankles with an InBody Tissue (wet tissue) before measuring.

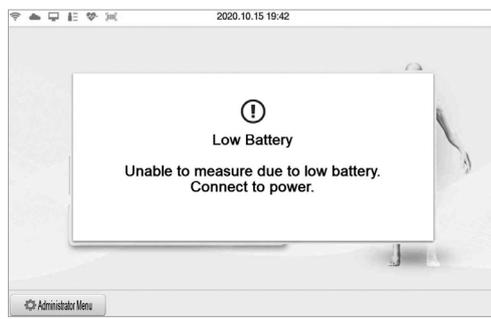
## B. Test Instructions

1. Make sure that the battery is sufficiently charged in the main unit. At least 20% or more should be charged for measurement.
2. Stay at least 10-15 minutes in the posture you want to measure before measuring so that the body fluid distribution can be stable.

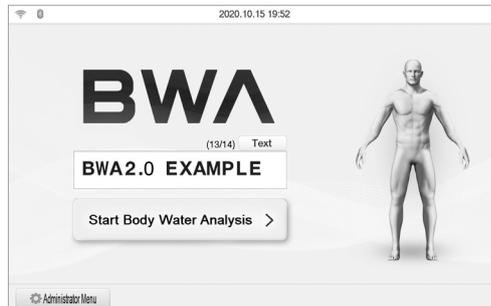


If the following error screen appears, the measurement will not proceed.

Replace the battery with a charged one, or charge using the dedicated AC adapter.



3. Enter your ID for measurement.



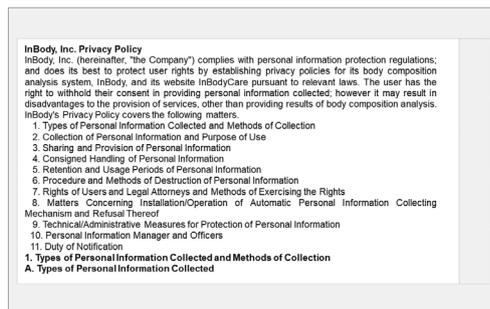
4. Enter your age weight and height, and select a gender.

A screenshot of the 'Personal profile' form in the BWA app. The form is titled 'BWA' and has an 'Exit' button in the top right. The 'ID' field contains 'BWA2.0 EXAMPLE'. Below it, the 'Mobile no.' field contains '01234567890' with a checkmark for 'I agree to the Privacy Policy'. The 'Weight' field is '64 kg' and the 'Height' field is '173 cm'. The 'Age' field is '41' and the 'M/F' gender selection has 'M' selected. On the right side, there is a 'Clinical notes >' section with fields for 'Underlying Condition', 'Hemodialysis', 'Lymphedema', 'Location of Paralysis', and 'Location of Amputation', each with a 'None' option. An 'Enter' button is at the bottom center.

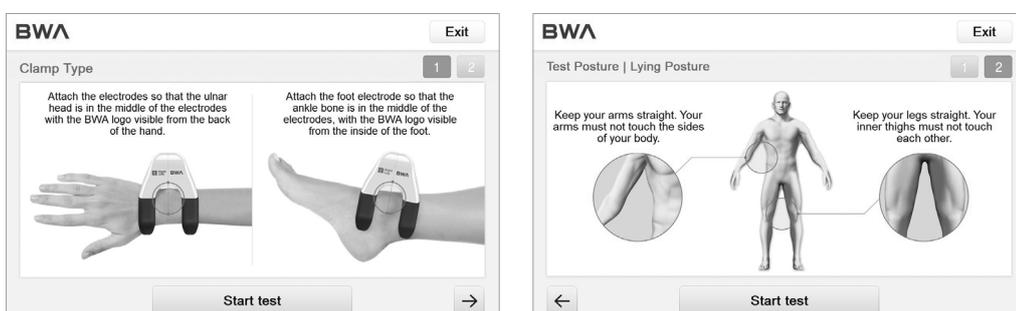
5. Press the [Clinical notes] to select information for underlying disease, such as hemodialysis, lymphedema, paralysis region, and amputation status.



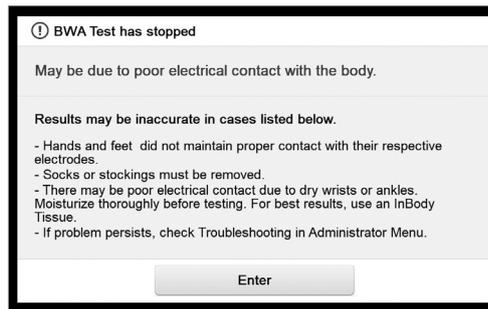
6. Press the [Accept Privacy Policy] section, and then the "Privacy Policy" screen will appear as shown below. Read the contents of the Privacy Policy of InBody.



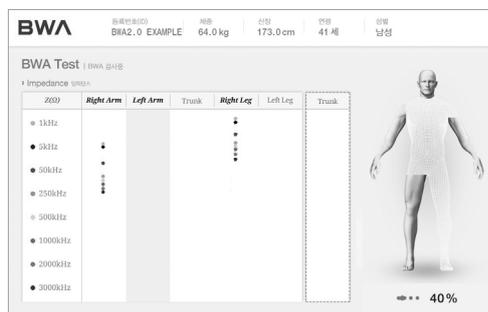
7. Make sure that the electrodes are properly attached in the correct positions after entering the personal information. The guide screen for the electrode attachment position and measurement posture appears as shown below. When you are ready for measuring, press the [Start] as shown below to start the BWA test.



If the measurement cannot be proceeded due to dry skin, an error screen will appear as shown below. Wipe the contact surface of the electrode well with the electrolyte tissue provided by InBody and press the [Enter] to re-measure.

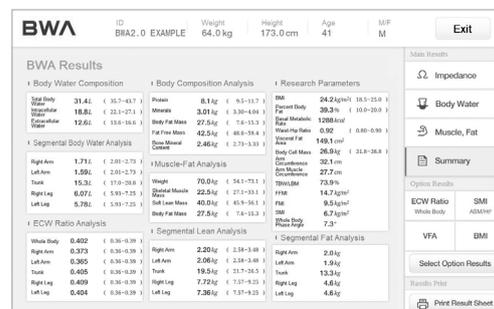


8. The BWA testing screen appears as follows when the test starts.



9. The measurement result screen appears as shown below after the BWA test is completed. If a printer is connected to the BWA2.0, you can check the result according to the selected type of result sheet.

\* You can set the result sheet related settings from "10. Result Sheet Types" to "15. Printing Alignment" in the Administrator Menu.



## C. Electrode Connection Method

### 1. Clamp Electrodes

#### 1) Wrist

Place the Left Arm Clamp onto the left wrist and place the Right Arm Clamp onto the right wrist.

Insert the electrode to the center of the wrist so that the side marked 'BWA' in red faces the back of the hand and the unmarked side faces the palm.

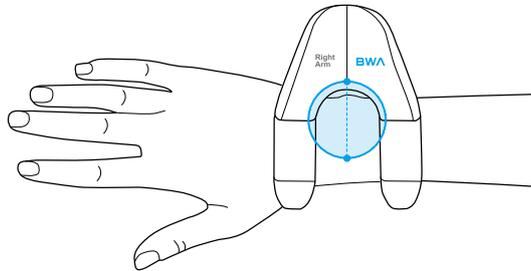


Figure of a wrist with electrode attached

#### 2) Ankle

Place the Left Leg Clamp to the left ankle and place the Right Leg Clamp to the right ankle.

Clamp the foot electrode so that the ankle bone is positioned in the center of the electrode, and that the electrode touches the wide area of ankle as much as possible.

Position the side marked 'BWA' in red so that it faces inwards from the ankle, and the unmarked side faces outwards from the ankle.

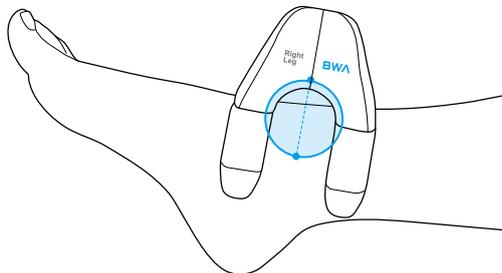


Figure of the ankle with electrode attached

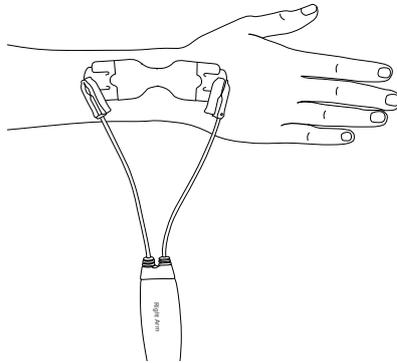
### Note

- Make sure that the side marked 'BWA' in red is facing inside the ankle.
- It may be difficult to attach the clamp electrode to the ankle due to anatomical structures, so please be careful to properly attach the foot electrode.
- If you have a dry skin, you may not be able to measure well, or the test may not be accurate.  
Wipe the electrode contact area with an electrolyte tissue and then measure.

## 2. Adhesive Electrodes

### 1) Wrist

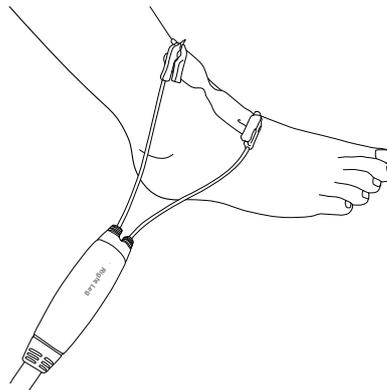
Attach the disposable electrode (BWA-ES100) so that the wrist bone is centered as shown in the picture below. Connect the electrodes with the black electrode toward your hand.



### 2) Ankle

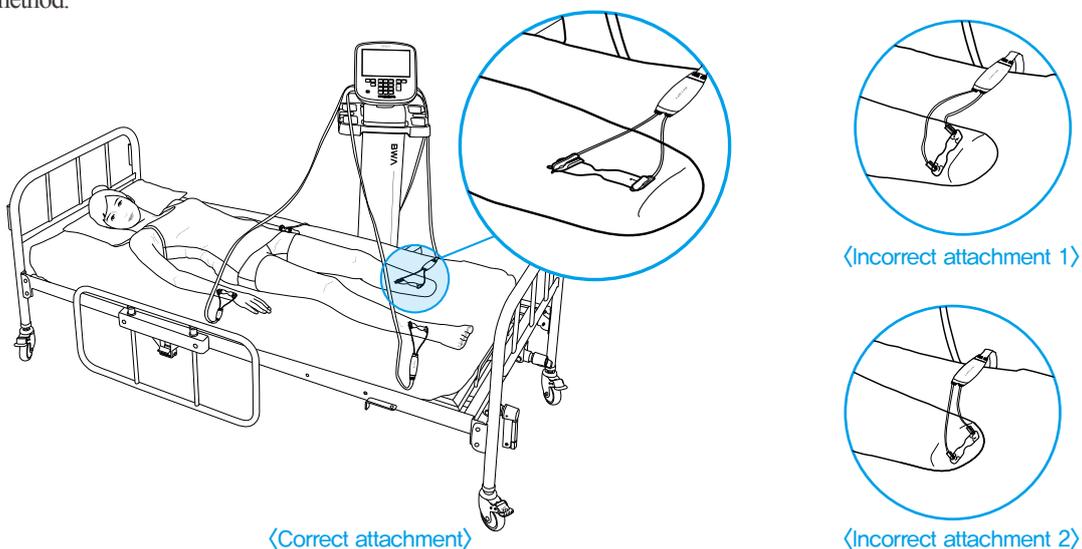
Attach the disposable electrode (BWA-ES100) so that the ankle bone is centered as shown in the picture below. Connect the electrodes with the black electrode toward your foot.

Use a disposable electrode (BWA-ES100) only.



### Note

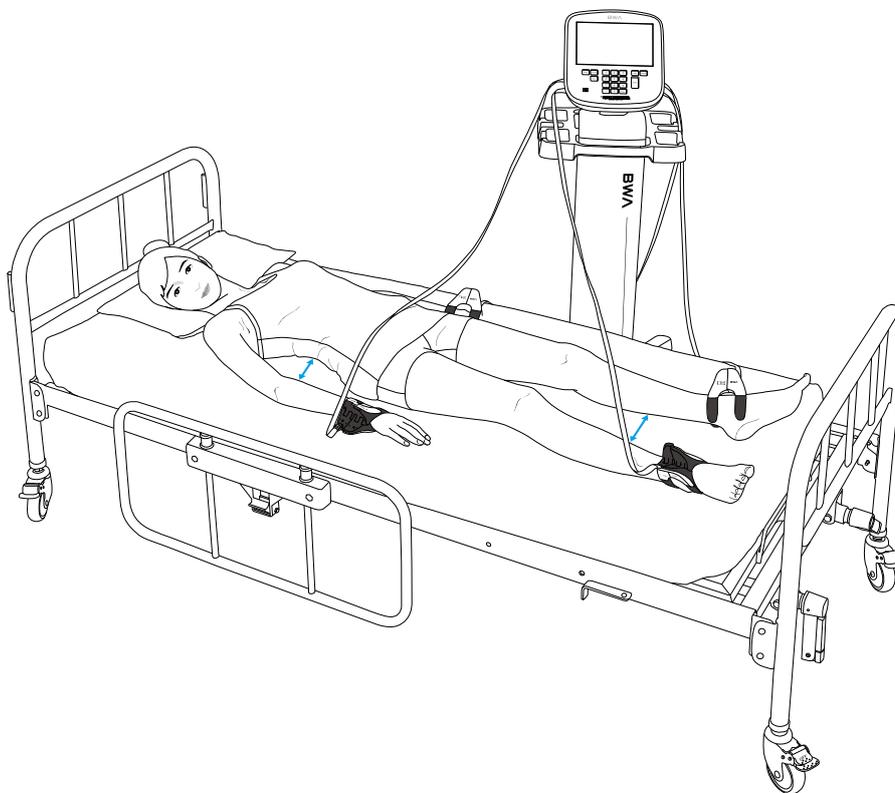
- Four electrodes of the same type must be connected to proceed with the test.
- When attaching electrodes to the amputated area, attach the electrodes to the end as much as possible.
- However, a certain distance is required between the two electrodes, so refer to the image below for the correct attachment method.



## D. Test Posture

In order to use the BWA2.0 correctly, it is necessary to understand the correct measuring posture. Maintain consistent measurement posture for high reproducibility and reliable results.

### 1) Lying Posture



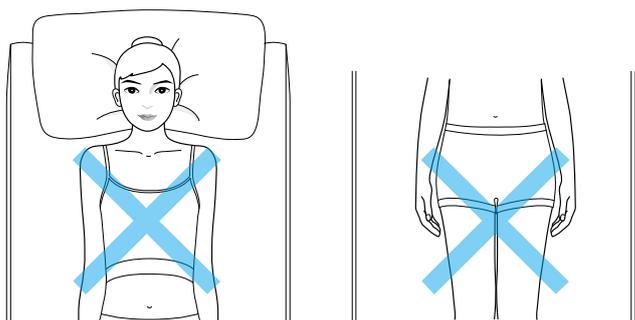
Accurate Posture

### Measurement Posture

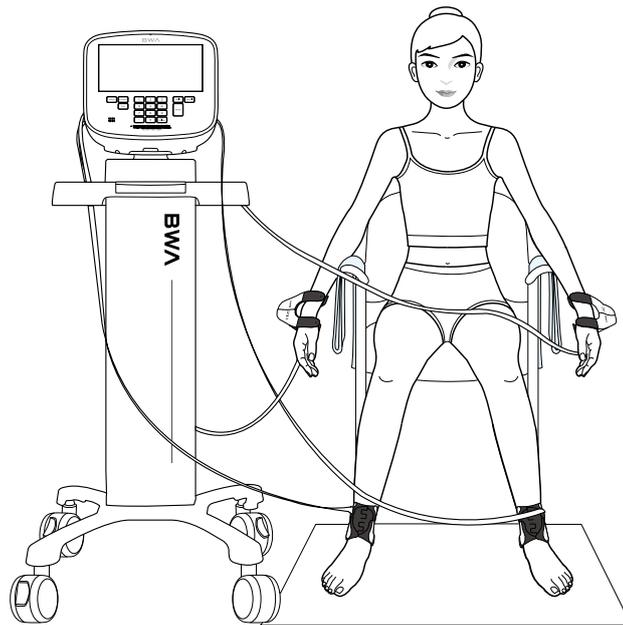
- The BWA2.0 must be located next to the patient's knee as shown above.
- Slightly open your arms about 15 degrees or more to keep your arms and trunk from touching each other.
- Keep your legs slightly open to shoulder width to prevent thighs from touching.
- Lay down for at least 10-15 minutes and start your measurement.

### Note

- Be careful not to touch the electrode cable and body parts with the frame when measuring on an iron bed frame.
- If there is a heating mat (electric blanket) on the floor or mat, make sure to turn them off and unplug the power cable if possible.
- Disposable electrode (BWA-ES100) may come off due to the weight of the electrode cable.



## 2) Seated Posture



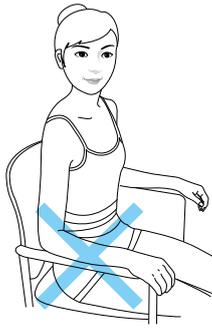
Accurate Posture

### Measurement Posture

- Sit on a chair with your back straight against the backrest.
- Put a cushion behind your back.
- Relax your arms naturally as if standing.
- Spread your legs wide enough to keep your thighs from touching each other.
- Do not set your legs up at right angles but spread slightly as the illustration.

### Note

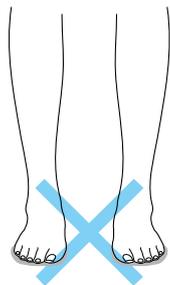
- Hold the sitting position for at least 10-15 minutes before measuring.
- Test after checking the seated posture correctly.
- Do not measure with the chair set directly on the floor. The measurement value may be inaccurate if your bare feet touch the floor directly. Therefore place a mat (at least 3 cm) on the floor.
- When measurement is taken on a chair or a wheelchair with any conductive materials on frame, any exposed frame should be covered by an insulating materials such as blankets.
- Do not allow bare feet to touch the floor or the steel structure of the chair.
- Disposable electrode (BWA-ES100) may come off due to the weight of the electrode cable.



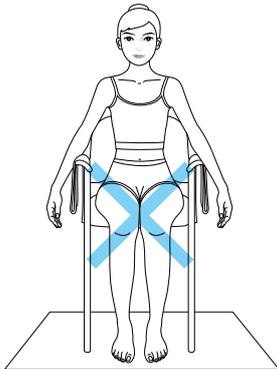
Do not put your arm on the armrest.



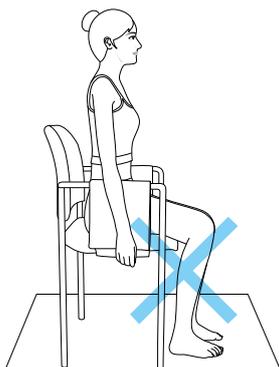
Do not bend your waist.



Do not measure directly on the floor barefoot.  
Measure on a mat where the current does not flow.

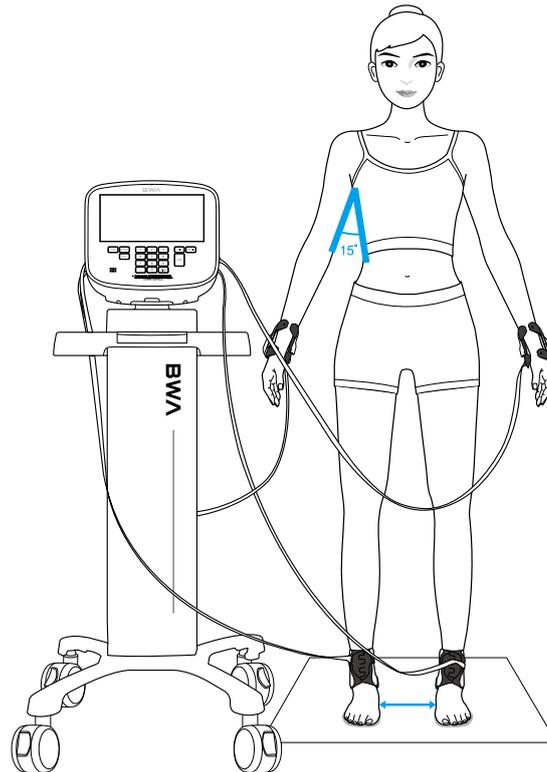


Keep thighs from touching each other.



Spread legs forward as possible rather than bending them at right angles.

### 3) Standing Posture



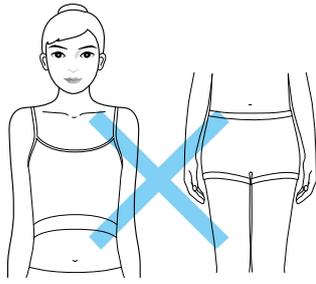
Accurate Posture

#### Measurement Posture

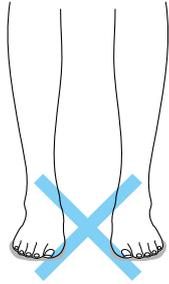
- Measure after standing for at least 10-15 minutes.
- Stand up facing the back side of the device.
- Step up on a mat where the current does not flow out of your bare feet onto the floor.
- Relax your arms and open them beyond 15 degrees to keep your arms and trunk from touching.
- Keep your legs slightly open to shoulder width to prevent thighs from touching.

#### Note

- Do not measure with the chair set directly on the floor. The measurement value may be inaccurate if your bare feet touch the floor directly. Therefore place a mat on the floor.
- When you are using a clamp electrode, please note that the electrode may be difficult to attach because the malleolus is raised or ankle is too thin.
- If you have a dry skin, you may not be able to measure well, or the test may not be accurate.  
Wipe the electrode contact area with an electrolyte tissue and measure.
- A disposable electrode may detach due to the weight of electrode cable.
- Make sure that the electrode cables do not touch the floor when you are connecting the electrodes.  
Hang the cables on the cart basket.



Keep the arms and trunk from touching and keep the thighs from touching to each other.



Do not measure directly on the floor barefoot.  
Measure on a mat where the current does not flow.

### III. Transportation and Storage

#### A. Cautions during Transportation

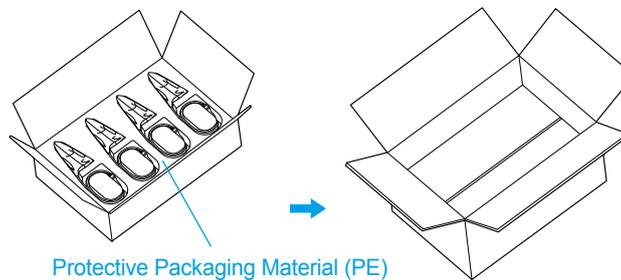
To transport the BWA2.0 safely, two people should keep the device horizontal as follows.



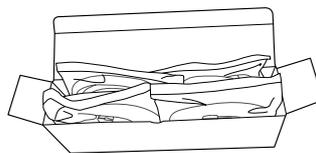
#### B. Repacking Instructions

Once the BWA2.0 is installed, avoid transporting the device. If it must be transported, repack it in the following sequence.

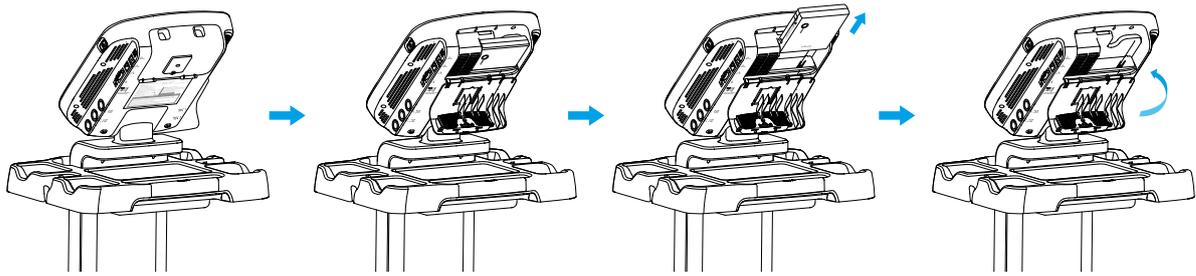
1. Turn off the BWA2.0.
2. Remove the electrode cable connected.
  - For clamp electrodes, put them in the packing box and place it at the bottom of the main unit packing box.
  - For the adhesive electrode, put the empty box with PE foam on the bottom of the main unit box.



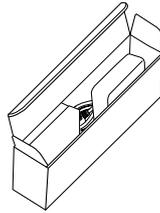
- For adhesive electrode, roll up the cable and put it in the vinyl package and then place it in the accessory box.  
(For clamp electrode, put the empty box in the main unit box.)



3. Remove the power adapter and battery.

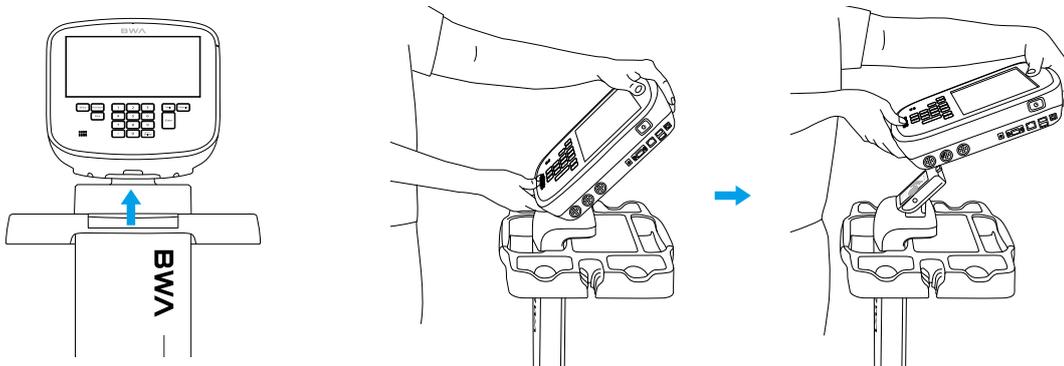


- Put the removed power adapter, power cable, and batteries in the accessory box.



4. With one hand grasping the 'BWA' logo on the top of the BWA2.0 head, tilt the main unit slightly back by pressing the button on the bottom of the main unit and lift it up. (Please see illustration).

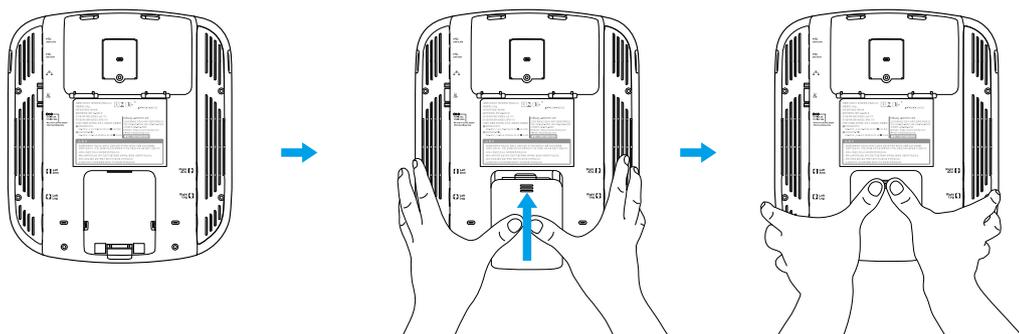
- Be careful not to drop the main unit when you are tilting it slightly.



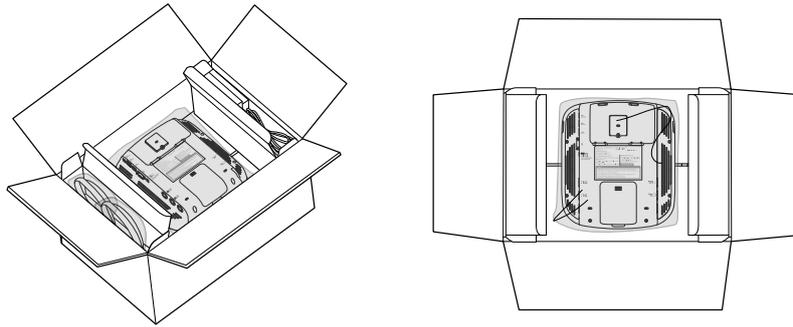
 **Caution**

- Be careful not to get your hands or other body parts caught when you are removing the main unit from the cart mount.

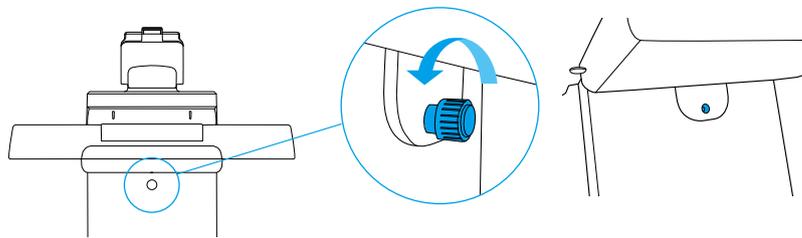
5. Place the separately stored cover on the cart connection part and slide it up to close it.



6. Wrap the BWA2.0 in protective vinyl and place it along with the two accessory boxes over the box containing the clamp electrodes after placing it in the air cell, and seal them as shown below.

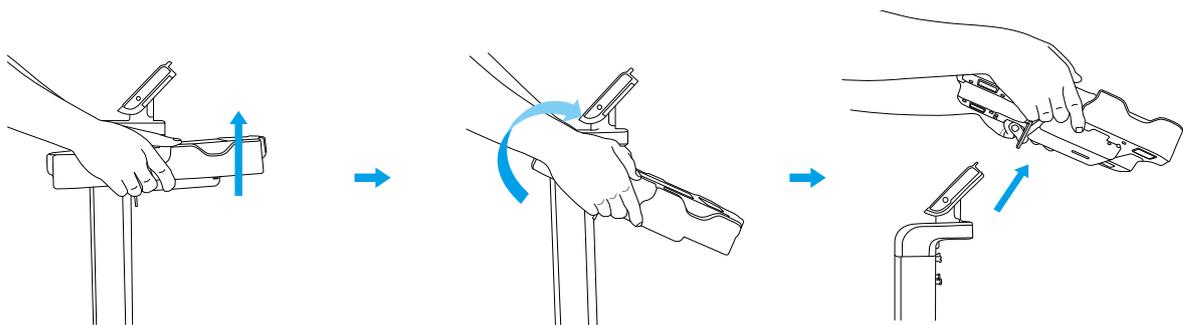


7. Turn the knob on the lower part of the BWA cart basket counterclockwise to remove it.



8. Hold the basket with both hands as shown below, lift the basket about 20 mm in the vertical direction of the floor, and tilt it backward to remove so that it does not hit the top of the stand.

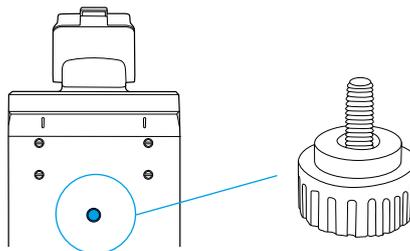
- The removed basket should be wrapped in the protective vinyl.



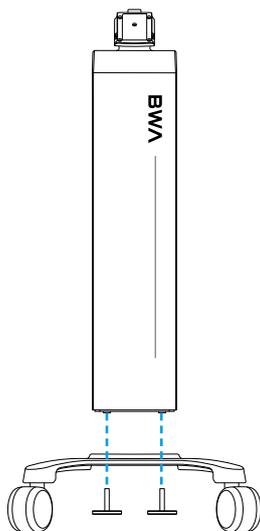
**!** **Caution**

- Be careful not to get your hands or other body parts caught when you are removing the basket from the cart upper part.

9. Tighten the knob that has been removed from the lower part of the cart basket by turning it clockwise on the back of the stand to keep it safe.



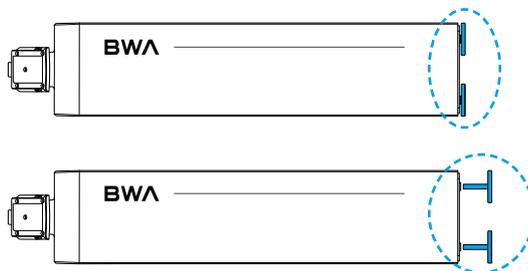
10. Turn the two knobs counterclockwise to remove it from the lower body part.



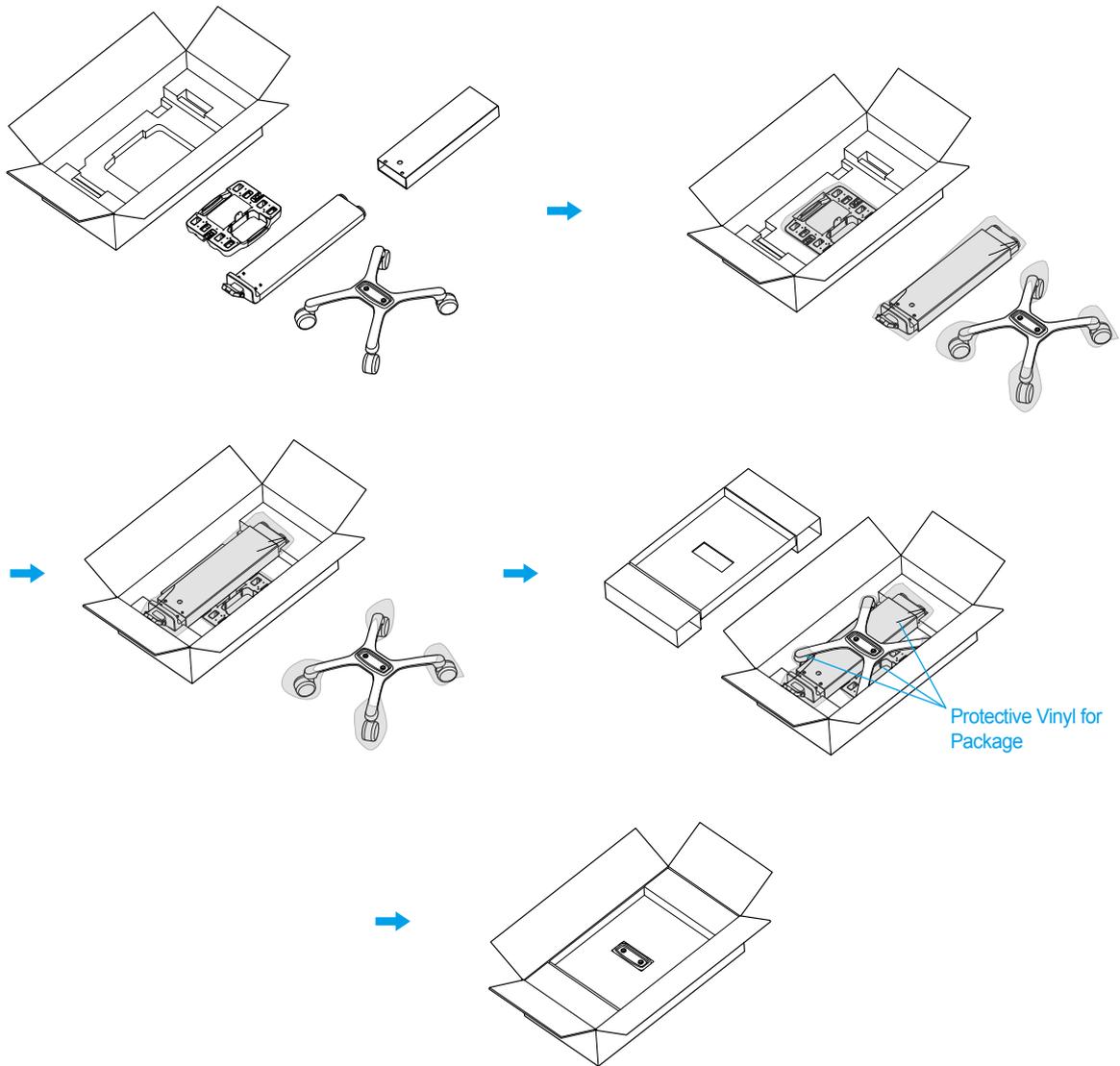
 **Caution**

- Be careful not to get your hands or other body parts caught when you are removing the knobs.
- One person should hold the upper side of the stand while the other person removes the knobs at the lower side.

11. Tighten the two knobs that have fastened at the bottom of the lower body part by turning them clockwise to keep it safe.
- The stand and lower body parts should be wrapped in the protective vinyl.



12. Put the removed lower body part, stand, and basket in the packaging box as shown below.



### **Caution**

- When repacking the device, the protective packing materials provided by InBody must be used.

## C. Transportation and Storage Environment

The BWA2.0 should be transported or stored under the following conditions.

Temperature	-10 ~ 70°C (14 ~ 158°F)
Relative humidity	10 ~ 80% RH (No Condensation)
Atmospheric pressure	50 ~ 106kPa

## IV. Frequently Asked Question. (FAQ)

This section includes frequently asked questions and answers for the BWA2.0. If a problem persists even after checking below, please contact the Customer Service. For contact information, please check "01. Customer Service Information" at "FAQ" in the Administrator Menu of the BWA2.0.

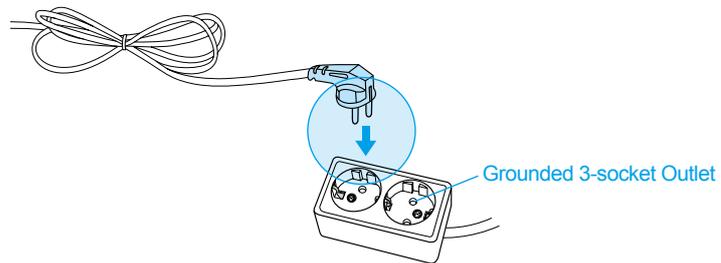
### A. Regarding the Device

If a problem arises with the BWA, you may first attempt to check the 'FAQ' in the Administrator Menu. The BWA can help you diagnose and solve some problems. If your problem cannot be resolved through the 'FAQ', please refer to the possible solutions below.

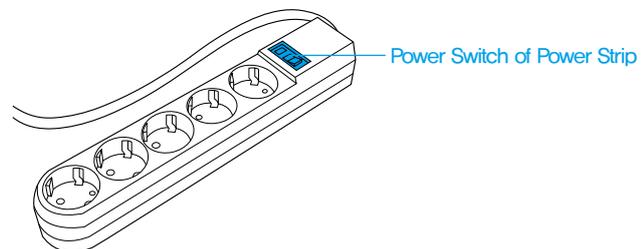
Question	Answer
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- Power does not turn on.

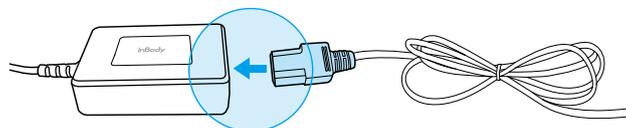
- Insert the power plug completely into a grounded 3-socket outlet.



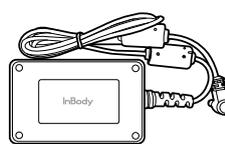
- When using a power strip, the power will not turn on when the power switch of the power strip is turned off. Check the power strip with the power cable connected.



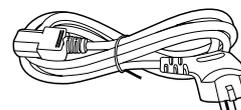
- The problem may occur if the power cord is not completely plugged into the adapter. Insert the power cord completely into the adapter.



- The problem may occur if you are using the power adapter that is not provided by InBody. Always connect a power adapter (DC 12V, 3.4A/3.34A) provided by InBody.



Power Adapter



Power Cable

Question	Answer
<ul style="list-style-type: none"><li>• The touch screen does not work well.</li></ul>	<ul style="list-style-type: none"><li>• Calibrate the touchscreen under Settings of the Administrator Menu '23. Touchscreen Alignment.'</li><li>• Press firmly to optimize touchscreen response.</li></ul>
<ul style="list-style-type: none"><li>• How to connect with the compatible devices.</li></ul>	<ul style="list-style-type: none"><li>• Please refer "F. Connecting Compatible Device" in "I. BWA2.0 Installation" in this User's Manual.</li></ul>

## B. Regarding the BWA Test

The question and answers regarding the BWA Test are as follows.

Question	Answer
<ul style="list-style-type: none"> <li>Do I have to remove my socks or stockings?</li> </ul>	<ul style="list-style-type: none"> <li>If the test is carried out while wearing socks or stockings, the current will not flow smoothly, and the test may not be performed correctly. The skin must be in direct contact with the electrode for testing.</li> </ul>
<ul style="list-style-type: none"> <li>Is it OK to test, wearing accessories or metallic materials?</li> </ul>	<ul style="list-style-type: none"> <li>If accessories or metallic objects do not touch the electrodes, they will not have a significant effect on the test result. However, it is not recommended to wear it for accurate test results.</li> </ul>
<ul style="list-style-type: none"> <li>Is there any case where I must not take a BWA Test?</li> </ul>	<ul style="list-style-type: none"> <li>A person who is equipped with a medical device that is essential for life support, such as pacemakers or patient monitoring devices, must not take the BWA Test. Electronic medical devices may malfunction due to the current flowing through the human body during the test.</li> </ul>
<ul style="list-style-type: none"> <li>Can a person with metal implants in the body take the BWA Test?</li> </ul>	<ul style="list-style-type: none"> <li>A person who has a metallic material inserted in the body may have different conductivity that may affect the results of the test.</li> </ul>
<ul style="list-style-type: none"> <li>Do I have to use electrolyte tissue? Can't I use a normal wet towel?</li> </ul>	<ul style="list-style-type: none"> <li>The electrolyte tissue provided with the BWA2.0 is specially designed for optimal measurement, unlike general wipes. Use electrolyte tissue for accurate measurements.</li> </ul>
<ul style="list-style-type: none"> <li>Is the current flowing in the test harmless to the human body?</li> </ul>	<ul style="list-style-type: none"> <li>The BWA2.0 does not harm the human body because it uses micro alternative electric current. The safety of the BWA2.0 has been proven and is being used by many medical institutions because the BWA2.0 has already obtained the national and European medical certificate.</li> </ul>
<ul style="list-style-type: none"> <li>How often should I have a BWA Test?</li> </ul>	<ul style="list-style-type: none"> <li>Testing every other week or once a month can effectively track BWA test results for exercise prescriptions, hormonal prescriptions, obesity, and rehabilitation.</li> <li>It's good to check up often, but it's also important to keep track of your body's changes over time through steady tests.</li> <li>* Body composition changes can be seen on the BWA result screen and the BWA Result Sheet.</li> </ul>
<ul style="list-style-type: none"> <li>What are the precautionary steps to ensure accuracy of the BWA Test?</li> </ul>	<ul style="list-style-type: none"> <li>Please refer to 'A. Precautions for Measurement' in section 'II. BWA2.0 Test' in this User's Manual.</li> </ul>

## V. Others

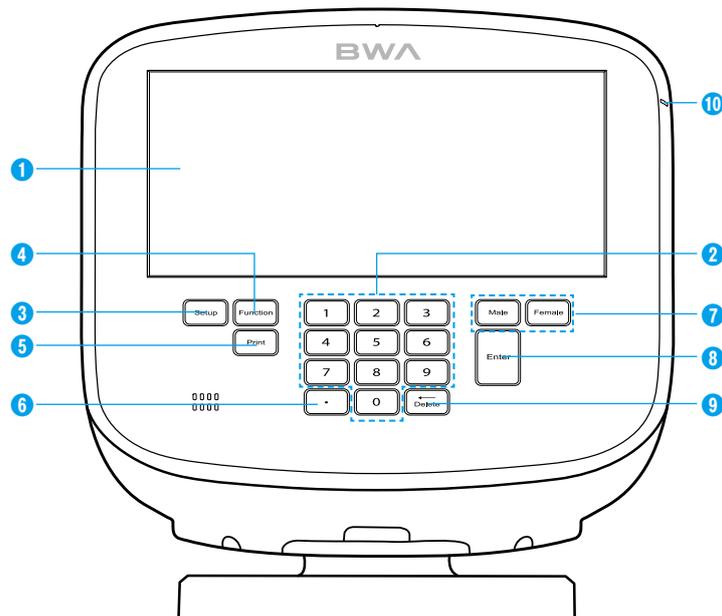
### A. Exterior and Functions

The names and functions of each part of the BWA2.0 are as follows.

\* Please check each component for damage prior to installation.

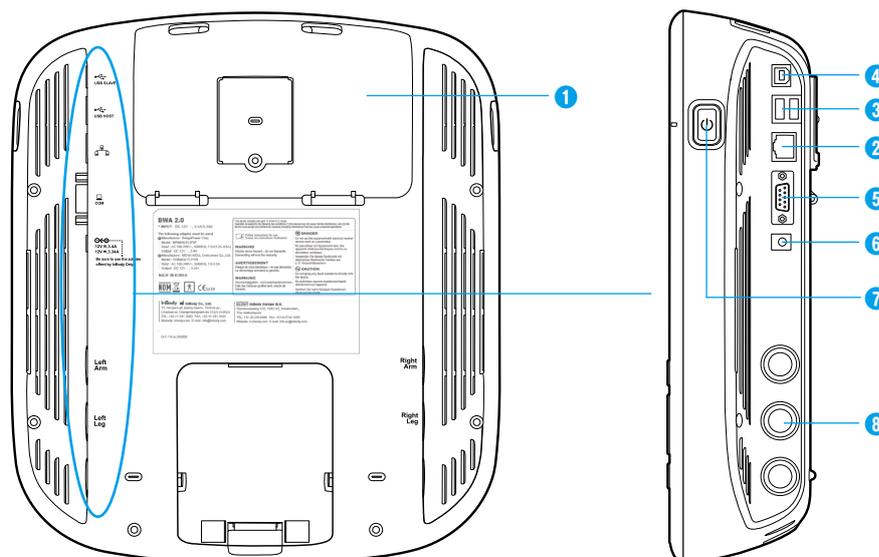
#### 1. Front view

- ❶ Display: It displays each step of the test, guide, and test result. It enables entering the data required for the test, setting the test environment, and checking the test results by touching the screen.
- ❷ Number Button: Enter numeric data such as age and height.
- ❸ Setup Button: Enter the "Setup" in Administrator Menu from the test standby screen.
- ❹ Function Button: Enter the "FAQ" screen directly from the test standby screen.
- ❺ Print Button: Reprint test results.
- ❻ Decimal Point Button: Enter the decimal point in ID, height, age, and weight.
- ❼ Gender Button: Select the gender. (Male:Man, Female:Woman)
- ❽ Enter Button: Used when input is completed, or changes are saved in the Administrator Menu.
- ❾ Delete Button: Delete the entered data.
- ❿ Power LED: LED to indicate power on/off status.



## 2. Rear view

- 1 **Battery Cover:** Used when replacing the batteries.
- 2 **LAN Port (10/100T-Base):** Connect the BWA2.0 to the Internet or LookinBody120 installed on the PC via a wired connection.
  - \* You can connect the BWA2.0 to LookinBody120 installed on the PC even if only one of 2, 4, 5 ports is connected.
- 3 **USB HOST Port:** Connect printer, InBody USB and barcode reader.
- 4 **USB SLAVE Port:** Connect the BWA2.0 to LookinBody120 installed on PC.
  - \* You can connect the BWA2.0 to LookinBody120 installed on the PC even if only one of 2, 4, 5 ports is connected.
- 5 **9-pin Serial Terminal (Female, RS-232C):** You can set the port according to "26. Serial Connect" in the Administrator Menu.
  - COM: Used to connect the BWA2.0 to a stadiometer, blood pressure monitor, or LookinBody120 installed on the PC.
  - \* Make sure to connect only to the Stadiometer and Blood Pressure Monitor of InBody.
  - \* You can connect the BWA2.0 to LookinBody120 installed on the PC even if only one of 2, 4, 5 ports is connected.
- 6 **Power Jack:** Connect a power adapter.
  - \* Use the adapter provided by only InBody.
- 7 **Power Button:** Turn the device on and off.
- 8 **Electrode Cable Inlet:** Connect the electrode cable to the circuit inside the main unit.



### **Caution**

- Be careful not to let foreign objects such as food, drinks or liquid cleaners into the control and connections. Any foreign objects that enter the device can cause serious damage to electronic components.
- Be sure to connect the power adapter provided by InBody to the power jack.

### **Note**

- When you are connecting the power adapter cable to the main unit, insert the power adapter cable firmly into the power jack.
- Peripheral devices including accessories connected to the BWA2.0 must be provided by InBody.

## B. Using and Charging the Battery

The battery (IB Battery 220) is designed to connect the BWA 2.0. Do not use the battery for purposes other than connecting it to the BWA2.0.

If you are connecting the battery between the BWA2.0. and the adapter, the BWA2.0 will not be turned off even if the power cable is disconnected.

### Caution

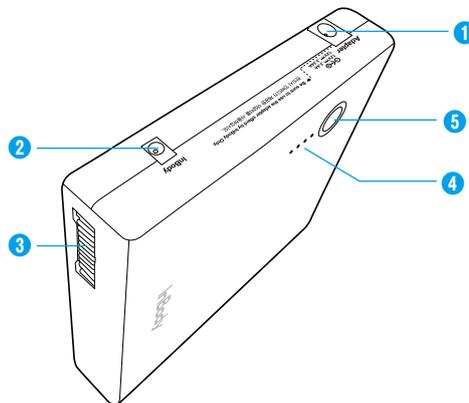
- It is recommended to use the battery at room temperature that is not too humid because the battery lifespan is affected by the environment.

#### 1. Battery configuration

##### 1) Function of Parts

- ❶ Power adapter connection socket: This socket is used to connect the adapter when the battery is charged alone.
- ❷ BWA2.0 external connection socket: This socket is used to connect the BWA2.0 to the battery with an external cable.
- ❸ BWA2.0 connector: Used to directly connect the BWA2.0 to the battery.
- ❹ Battery level indicator LED: This LED shows the remaining level in the battery.
- ❺ Battery level check button: Press and hold the button on the battery until it sounds "Beep".

"Beep" sounds and the 4 LEDs display the remaining level after about 3 seconds.



#### 2. Battery operation

##### 1) On first use

Check the battery level. Press and hold the Battery level check button until it produces a "Beep" sound.

"Beep" sounds, and the 4 LEDs display remaining level after about 3 seconds.

##### 2) While charging

The battery level indicator LED blinks while the adapter is connected and is charging.

If all four LEDs light up and stop flashing, charging is complete.

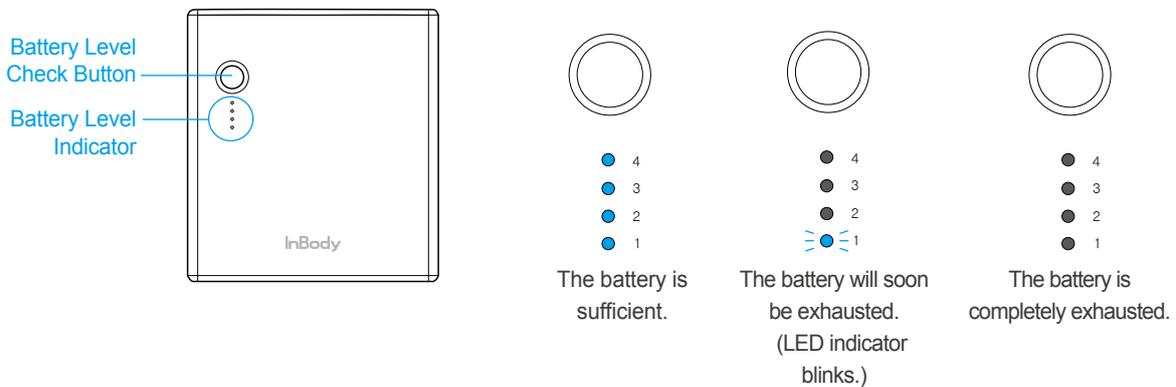
### 3) When to charge

The percentage value and battery level are displayed on the upper right when you are charging the battery by connecting it to the BWA2.0 main unit. If the following error screen appears or if the battery level drops below 20%, please charge it again.



### 4) Checking the battery level

Press and hold the button on the battery until it produces a "Beep" sound. "Beep" sounds, and remaining battery level is displayed through four LEDs after about 3 seconds. Before the battery runs out, the last remaining LED level indicator blinks and it sounds alarm. If you hear the alarm sound, please charge the battery.

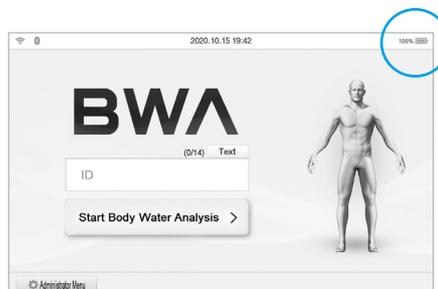
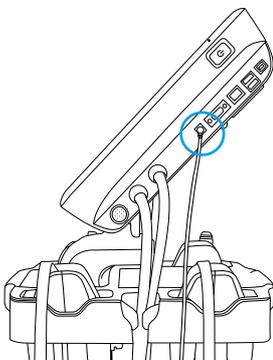


### 3. How to charge the battery

The charging method of the battery can be selected. There are two ways of charging the BWA2.0 battery. While the battery is inserted inside the main unit, or charging the battery alone.

#### 1) The battery is inserted inside the main unit:

On the right upper corner of the screen, the % and remaining battery is displayed.



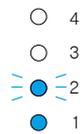
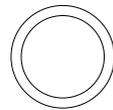
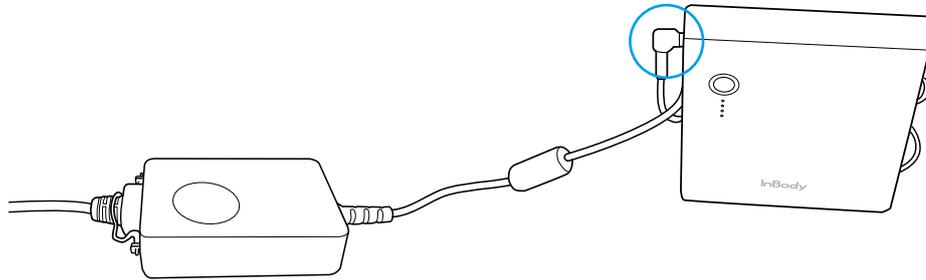
: The battery is sufficient.

: The battery will soon be exhausted.

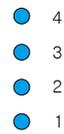
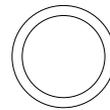
: The battery is completely exhausted. Charge the battery.

## 2) Charging the battery alone. (Fast Charging)

The battery may be charged with BWA adapter provided by InBody. The state of charge(charge level) can be checked by the LED light; the LED blinks while charging.



The battery is charging.



The battery is completely charged.

### **Caution**

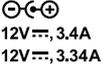
- Be sure to use the BWA adapter provided by InBody to charge it.

## C. Safety Information

### Marks

	9-pin serial terminal (Female, RS-232C)
	LAN port (10/100T-Base)
	USB port

### Safety Symbols

	High Voltage
	Warning / Caution
	BF Type Equipment
	Adapter

### Etc. Symbols

	Manufacturer		Serial Number
	Authorized representative in the EUROPEAN COMMUNITY		Alternating Current
	European Conformity		Operating Instructions

### Caution

- This device is a Class IIa electromagnetic wave compatible device and can be used in all areas.
- There is a possibility of radio interference during operation of the radio equipment and may not be used in areas where safety is of concern.
- Bluetooth uses the same frequency band as many electronic devices, which can cause radio interference between the devices.
- The user should be responsible for illegal use or data transmission problem caused by using Bluetooth.

## D. Classifications

Classifications	Body Composition Analyzer of Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method	
	Types of protection against electric shock	Class I
	Type of the applied parts	BF Type
	EMC Immunity / EMC Emission	Level A, CLASS A
	Degree of protection against ingress of water	IPX0

## E. Specifications

Bioelectric Impedance Analysis (BIA) Measurement Item	Bioelectrical Impedance(Z)	40 Impedance Measurements by Using 8 Different Frequencies (1kHz, 5kHz, 50kHz, 250kHz, 500kHz, 1MHz, 2MHz, 3MHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg and Left Leg)
	Phase Angle	15 Phase Angle Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 250kHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, and Left Leg)
Electrode Method	16-Point Clamp Electrodes	
Measurement Method	Direct Segmental Multi-Frequency Bioelectrical Impedance Analysis (DSM-BIA) Simultaneous Multi-Frequency Bioelectrical Impedance Analysis (SMF-BIA)	
Body Composition Calculation Method	No Empirical Estimation (Age and Gender does not affect the result)	
Body Water Result Sheet	<p>Result parameters and Result interpretation</p> <ul style="list-style-type: none"> <li>• Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water)</li> <li>• ECW Ratio Analysis</li> <li>• Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Segmental ECW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Body Water Composition History (Weight, Total Body, Intracellular Water, Extracellular Water, Extracellular Water Ratio)</li> <li>• Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass)</li> <li>• Obesity Evaluation (BMI, Percent Body Fat)</li> <li>• Research Parameters (Fat Free Mass, Basal Metabolic Rate, Waist-Hip Ratio, Visceral Fat Area, Obesity Degree, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, TBW/FFM, FMI, FFMI, SMI)</li> <li>• Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P)</li> <li>• Result Interpretation QR Code</li> <li>• QR Code</li> <li>• Segmental Body Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Whole Body Phase Angle (50kHz)</li> <li>• Impedance Graph (Each segment and each frequency)</li> </ul>	
Body Composition Result Sheet	<p>Result parameters and Result interpretation</p> <ul style="list-style-type: none"> <li>• Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Fat Free Mass, Soft Lean Mass, Weight)</li> <li>• Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)</li> <li>• Obesity Analysis (Body Mass Index, Percent Body Fat)</li> <li>• Segmental Lean Analysis</li> <li>• Segmental Fat Analysis</li> <li>• Segmental ICW Analysis</li> <li>• Segmental ECW Analysis</li> <li>• ECW Ratio Analysis (ECW Ratio)</li> <li>• Body Composition History (Weight, Skeletal Muscle Mass, Percent Body Fat, ECW Ratio)</li> <li>• InBody Score</li> <li>• Visceral Fat Area (Graph)</li> <li>• Weight Control (Target Weight, Weight Control, Fat Control, Muscle Control)</li> <li>• Body Type (Graph)</li> </ul>	

	<ul style="list-style-type: none"> <li>• Nutrition Evaluation (Protein, Minerals, Fat Mass)</li> <li>• Obesity Evaluation (BMI, Percent Body Fat)</li> <li>• Body Balance Evaluation (Upper, Lower, Upper-Lower)</li> <li>• Percent Abdominal Fat (Graph)</li> <li>• Visceral Fat Level (Graph)</li> <li>• Research Parameters (Extracellular Water, Intracellular Water, Skeletal Muscle Mass, Fat Free Mass, Basal Metabolic Rate, Waist Circumference, Visceral Fat Level, Visceral Fat Area, Obesity Degree, Bone Mineral Content, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, FMI, FFMI, SMI, Recommended Calorie Intake, Calorie Expenditure of Exercise, InBody Score)</li> <li>• Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P)</li> <li>• Result Interpretation QR Code</li> <li>• QR Code</li> <li>• Segmental Body Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Whole Body Phase Angle (50kHz)</li> <li>• Impedance Graph (Each segment and each frequency)</li> </ul>
Evaluation Result Sheet	<ul style="list-style-type: none"> <li>• Whole Body ECW Ratio (ECW/TBW): (T-Score, Z-score)</li> <li>• Visceral Fat Area (VFA,cm<sup>2</sup>): (T-Score, Z-score)</li> <li>• Body Mass Index (BMI,kg/m<sup>2</sup>): (T-Score, Z-score)</li> <li>• Bioelectrical Impedance Vector Analysis (BIVA)</li> <li>• Whole Body Phase Angle _50kHz (PhA,°): (T-Score, Z-score)</li> <li>• ECW Ratio (ECW/TBW) Balance (Right Arm, Left Arm, Trunk, Right Leg, Left Leg): Evaluation</li> <li>• Percent Body Fat (PBF,%): (T-Score, Z-score)</li> <li>• Skeletal Muscle mass Index (SMI,m<sup>2</sup>): (T-Score, Z-score)</li> <li>• Fat Mass Index (FMI,kg/m<sup>2</sup>): (T-Score, Z-score)</li> <li>• Fat Free Mass Index (FFMI,kg/m<sup>2</sup>): (T-Score, Z-score)</li> <li>• Lean Mass (LM) Balance(Right Arm, Left Arm, Trunk, Right Leg, Left Leg): Amount, Evaluation</li> <li>• Skeletal Muscle Mass and ECW Ratio (SMM,% &amp; ECW/TBW)</li> <li>• Skeletal Muscle mass Index and ECW Ratio (SMI,kg/m<sup>2</sup> &amp; ECW/TBW)</li> <li>• Waist Hip Ratio (WHR): (T-Score, Z-score)</li> <li>• Body Cell Mass (BCM,kg): (T-Score, Z-score)</li> <li>• Outer Circumference(cm)</li> <li>• Weight (kg): (T-Score, Z-score)</li> <li>• Skeletal Muscle Mass/WT,</li> <li>• Extracellular Mass/Body Cell Mass (ECM/BCM): (T-Score, Z-Score)</li> <li>• Total Body Water/Weight (%): (T-Score, Z-Score)</li> </ul>
Research Result Sheet	<ul style="list-style-type: none"> <li>• Body Composition Summary (Fat Free Mass, Body Fat Mass, Intracellular Water, Extracellular Water, Body Water, ECW Ratio, Weight)</li> <li>• Body Composition Analysis (Lean Mass, ICW, ECW, Fat Mass, ECW/TBW): Whole Body, Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Research Parameters (BMI, Percent Body Fat, Percent Abdominal Fat, Visceral Fat Area, Obesity Degree, Waist Circumference, FMI, Skeletal Muscle Mass, FFMI, SMI, Protein, Body Cell Mass, Mineral, Bone Mineral Content, Basal Metabolic Rate, Arm Circumference, Arm Muscle Circumference, TBW/FFM)</li> <li>• Segmental Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Whole Body Phase Angle (50kHz)</li> <li>• Impedance Graph (Each segment and each frequency)</li> </ul>
Comparison Result Sheet	<ul style="list-style-type: none"> <li>• Weight, Skeletal Muscle Mass, Body Fat Mass, ECW Ratio, Phase Angle: Whole Body (Current Result, Previous Result, Current-Previous Result difference)</li> <li>• Lean Mass, ECW Ratio, Phase Angle: Right Arm, Left Arm, Trunk, Right Leg, Left Leg (Current Result, Previous Result, Current-Previous Result difference)</li> <li>• Cole-Cole Plot (Today, Recent, Standard Median Curve)</li> </ul>

<p>Body Composition Result Sheet for Children</p>	<p>Result parameters and Result interpretation</p> <ul style="list-style-type: none"> <li>• Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Weight)</li> <li>• Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)</li> <li>• Obesity Analysis (Body Mass Index, Percent Body Fat)</li> <li>• Growth Graph (Height, Weight, BMI)</li> <li>• Growth Score</li> <li>• Body Composition History (Height, Weight, Skeletal Muscle Mass, Percent Body Fat)</li> <li>• Nutrition Evaluation (Protein, Minerals, Fat Mass)</li> <li>• Obesity Evaluation (BMI, Percent Body Fat)</li> <li>• Body Balance (Upper, Lower, Upper-Lower)</li> <li>• Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Research Parameters (Intracellular Water, Extracellular Water, Basal Metabolic Rate, Child Obesity Degree, Bone Mineral Content, Body Cell Mass, FFMI, FMI)</li> <li>• Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P)</li> <li>• Result Interpretation QR Code</li> <li>• QR Code</li> <li>• Segmental Body Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Whole Body Phase Angle (50kHz)</li> <li>• Impedance Graph (Each segment and each frequency)</li> </ul>
<p>Thermal Result Sheet</p>	<ul style="list-style-type: none"> <li>• Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass)</li> <li>• Obesity Evaluation (BMI, Percent Body Fat)</li> <li>• Segmental Lean Analysis</li> <li>• Segmental ECW Ratio Analysis</li> <li>• Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water)</li> <li>• Body Composition Analysis (Protein, Minerals, Body Fat Mass, Fat Free Mass, Bone Mineral Content)</li> <li>• Segmental Body Water Analysis</li> <li>• Segmental Fat Analysis</li> <li>• Segmental Lean Analysis (human shaped graph)</li> <li>• Segmental ECW Ratio Analysis (human shaped graph)</li> <li>• Research Parameters (Extracellular Water, Intracellular Water, ECW Ratio, Skeletal Muscle Mass, Protein, Minerals, Bone Mineral Content, Body Cell Mass, Percent Abdominal Fat, Waist Circumference, Visceral Fat Area, Obesity Degree, Basal Metabolic Rate, Arm Circumference, Arm Muscle Circumference, FMI, FFMI, SMI, TBW/FFM)</li> <li>• Whole Body Phase Angle (50kHz: Right side of the body)</li> <li>• Segmental Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> <li>• Impedance (Each segment and each frequency)</li> </ul>

## F. Functional Specifications

Optional Items	Thermal Printer (TP100), BWA Portable Case, BWA Adhesive Electrodes and Tape and BWA Battery Pack
Logo Display	Name, Address and Content Information can be shown on Result Sheet
Digital Results	LCD Screen, LookinBody Web, LookinBody120
Type of Result Sheets	Body Water Result Sheet, Body Composition Result Sheet, Evaluation Result Sheet, Research Result Sheet, Comparison Result Sheet, Body Composition Result Sheet for Children, and Thermal Result Sheet
Voice Guidance	Audible guidance for test in progress and test complete
Data Storage	Saves up to 100,000 measurements (When ID is entered)
Administrator Menu	Setup: Configure settings and manage data Troubleshooting: Additional information to help use the BWA2.0
InBody USB	Copy, backup, or restore the LookinBody test data (data can be viewed on Excel or LookinBody120)
Barcode Reader	Member ID will be automatically inputted when the Barcode is scanned
InBodyBAND Series Recognition Function	Recognizes the InBodyBAND series of the subject and automatically inputs personal information to the BWA2.0
Fingerprint Recognition Function	Recognizes the fingerprint of the measurer and automatically inputs personal information to the BWA2.0
Backup Data	Backup data form BWA2.0 with an InBody USB
QR Code	See your result on the InBody mobile App

## G. Other Specifications

Applied Rating Current	1kHz : 70uA (+-10uA), Over 5kHz : 300uA (+-30uA)		
Adapter	Bridegepower (BPM04S12F07)	Power Input	AC 100-240V, 50/60Hz, 1.2A(1.2A-0.6A)
		Power Output	DC 12V $\pm$ 5%, 3.4A
	Mean Well (GSM40A12)	Power Input	AC 100-240V, 50/60Hz, 1.0-0.5A
		Power Output	DC 12V $\pm$ 5%, 3.34A
Display Type	1280 x 800 10.1inch Color TFT LCD		
Internal Interface	Touchscreen, Keypad		
External Interface	RS-232C 4EA, USB Host 2EA, USB Slave 1EA, LAN(10/100T) 1EA, Bluetooth 1EA, Wi-Fi 1EA		
Compatible Printer	BWA compatible printers available at <a href="http://www.inbodyservice.com">www.inbodyservice.com</a>		
Dimensions	322(W) x 282(L) x 81.5(H): mm		
Equipment Weight	3.3kg (7.27lb, BWA only)		
Test Duration	About 90 seconds for Medical Mode, about 180 seconds for Research Mode		
Operation Environment	10 ~ 40°C (50 ~ 104°F), 30 ~ 75% RH, 70 ~ 106 kPa		
Storage Environment	-10 ~ 70°C (14 ~ 158°F), 10~80% RH, 50~106kPa(No Condensation)		
Weight Range	10 ~ 250kg		

Age Range	3 ~ 99 years
Height Range	95 ~ 220cm (3ft 1.40 in ~ 7ft 2.6 in)

\* Specifications are subject to be changed without prior notice.

\* This product is a medical device. Please read the WARNINGS and PRECAUTIONS before you use it.

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