

Bello

USER MANUAL

- **Model name:** AD715-BWTW

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Copyright Rights

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The products and their associated rights referred to in this document are protected by various intellectual property rights, including the Industrial Property Rights Act and copyright, and unauthorized reproduction or use shall be prohibited without the written consent of the company's Olive Healthcare.

Intellectual property

Bello and related intellectual property rights referred to in this document include patents and trademarks in all countries applied to the world, including Korea, and all rights to them are protected by such intellectual property rights.

The products mentioned in this document are subject to the protection of our intellectual property rights, including the patent rights below, the family patents and trademarks, and thus we inform that unauthorized use of these products can be punished in civil and criminal cases as they constitute a violation of our intellectual property rights

Patent application in Korea

Trademark registered in Korea

Design application in Korea

International application patent

Notification

Measurements obtained using the device cannot substitute for the care of a medical professional and cannot be used to diagnose. However, it is intended to provide patients with continuous information on abdominal fat so that can manage changes and maintain their abdominal fat rate independently, and to help with diagnosis and treat during consultation with a physical. The equipment can be used at home or in a professional medical institution

FCC Statement

FCC Part 15.19

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Part 15.21

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Part 15.105

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications, However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void your authority to operate the equipment under FCC rules.

Purpose of use

Bello is a product that monitors the size of a passed light signal by projecting the near-infrared light on the abdomen and performs health care by measuring the body fat of the abdomen.



Alert

This device measures abdominal fat quantitatively by using noninvasive method using LED. Prior to using this product, you should fully understand this manual. Misuse of the device may result in damage to the device or personal injury, but the company is not liable for any damages.

Reason of use prohibition

Do not use Bello for users with the following symptoms:

- * Children
- * Open-up wound
- * Sensitive skin
- * If there is a metal stent in the area of use
- * In case of bioabsorbable implants
- * Those who mount implantable medical devices (those who mount medical devices that affect electromagnetic waves, such as artificial pacemakers, implantable defibrillator, Implantable medical electric stimulator, implantable electronic dysuria suppressor, etc.)
- * In case there is a systemic/local skin disease that can affect the healing process of the wound

Precautions

- * Do not look at LED light sources directly with the naked eye.
- * Do not use in the place with children or areas prone to shock.
- * Keep out of reach of children.
- * Do not use with flammable substances.

If you notice potential safety issues or abnormalities during use, you should immediately stop using them and inform Olive Healthcare Customer Service (CEO number 0000-000000).



Alert

Prior to using Bello system, all the users should fully understand the manual provided.

Contact us














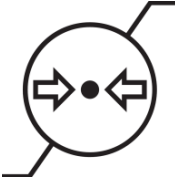
- * Olive Healthcare Inc. / 505, 283, Gangnamdae-ro, Seocho-gu, Seoul, Republic of Korea.
Tel) 000-000-0000
- * US Agent : Jennifer Hadfield / Adress ----- / E-mail : -----
Tel) 000-000-0000

Customer service of Bello

Customer support center 000- 0000 homepage: www.olive-hc.com

Labelling notation

The following symbols are indicated in the configuration and the supplies and package that are supplied with system

Indication	Description	Indication	Description
 Warning	Warning	 Alert	Alert
 NOTE	Note		This electronic device shall be disposed in a special way.
	This waste cell must be disposed of in a special way		
	Serial number		This indicates the (IEC 60417-5333) type BF mounting part in the protection regulations against electrical shock
	Manufacturer		Date of Manufacturing
	Obtain the FCC registration.		See the Manual
	Temperature limit - The minimum temperature at the lower left and the maximum at the upper right.		Humidity limitation - The minimum humidity at the lower left and the maximum at the upper right.
	Atmospheric pressure limitation - The minimum Atmospheric pressure at the lower left and the maximum at the upper right.		

※ We recommend to use after fully understanding the description of symbols and indication displayed in the screen.

User document

The Bello System User's Manual provides detailed information on components, how to use equipment, troubleshooting, cleaning, and maintenance of system.

Bello provides documentation for the main unit and app.

The user manual provides the latest information on safety and use. Bello has the right to change the contents of the User document at any time.

Before using system components, always obtain the latest user documents, fully understand before use.



NOTE

All images included in the Bello User document are sample images.

The hardware and information of the system you actually use might not be the same as that shown in the documentation.

1. About product and its parts

1.1. About product

Bello is a device that measures abdominal fat quantitatively by analyzing the bio-signals using multi-wave LEDs and calculating the fat rate.

1.1.1. Overview of Bello

1.1.1.1 Electrical specification

- a) Type of protection against electric shock: Class II
- b) Degree of protection against electric shock: Type BF applied part
- c) Degree of protection against harmful ingress of water or particulate matter: IP22
- d) Rated voltage and power consumption:
 - 3.7 Vdc, 1050 mAh (for battery operation)
 - 0.52 A, 5 Vdc (for charging)
- e) Technical specifications
 - Battery: 3.7V, 1050mA
- f) Safety device

If anomaly occurs during use, the instrument will not operate. Detected anomalies include following:

 - Power switch: If the power switch is turned off in an emergency, the instrument will not operate.
 - Measurements are not made when the abdomen and equipment are exposed to normal light without contact.
 - The device will not operate during charging.
- g) Firmware
 - Version : 1.0.x
- h) Bluetooth
 - Version: 4.1
 - Profile: GATT
 - Frequency: 400 MHz to 2483.5 MHz
 - Bandwidth: 83.5 MHz
 - Power class: 2 (+4 dBm)
 - Modulation: GFSK
 - Support range: 10m
- i) LED specification
 - LED 1: 688/795/830/860 nm wavelength
 - LED 2: 808/915/976/1064 nm wavelength

1.1.1.2. Mechanical specification

- a) Dimension [W×D×H]: 80.4 x 91.4x 23mm
- b) Weight: 114 g

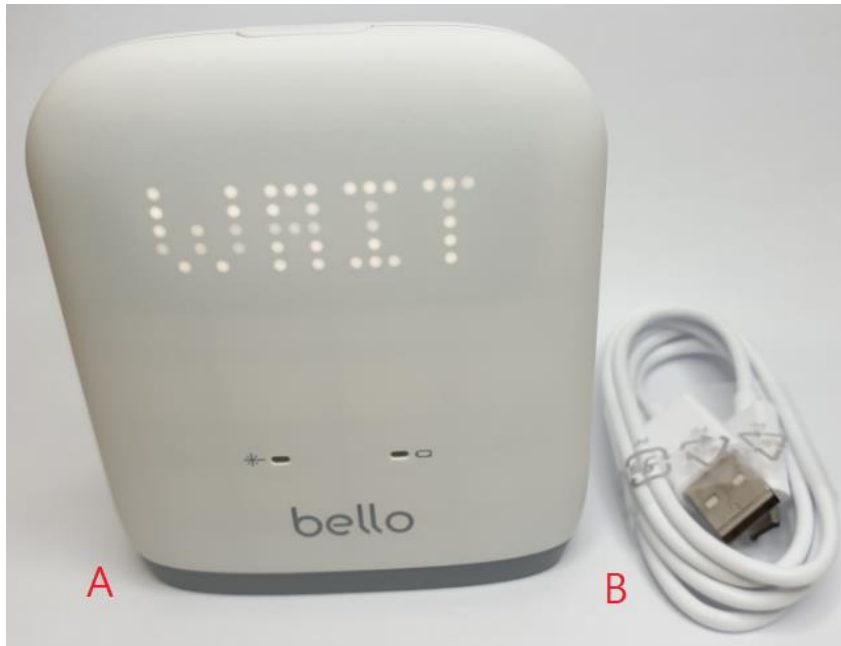
1.1.1.3. Application specification

- a) Applicable smartphone and OS version: IOS x.x or more
- b) The Application is continually updated with the latest intelligence.

1.2 Composition and function of the product

1.2.1 Composition of product

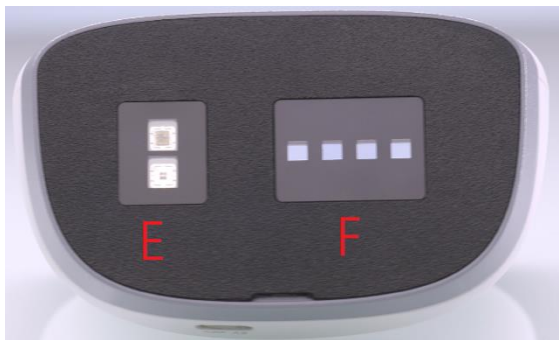
Bello consists of:



NO	Composition	Quantity	Remark
A	Main unit	1EA	
B	USB Cable	1EA	
C	Manual	1EA	

1.2.2 Name and function of components

1.2.2.1 Main unit



NO	NAME	CSNTENT
A	Display LED	LED that displays data measured in the device
B	Measurement LED	LED that flashes when the light sources are operated during measurement
C	Charger LED	LED that is on during charge
D	ON/OFF & Measurement Button	Button that ON/OFF the power of device for operation
E	LED Source (Applied part)	Multi wave length light source that measures fat in the abdomen
F	PD Sensor (Applied part)	Sensor that receives the multi wave length light signal delivered to the abdomen
G	Charging PORT	Port for charging of built-in battery

2. Preparation for use

2.1. Matters to be checked before use

2.1.1 When using the product for the first time, please check the following

- The user has full control device.
- Be sure to fully understand and use the manual before using it.
- It is recommended that you carefully read the instructions provided before using them and check the area of use to use them.
- Download the Bello app from your smartphone and proceed with the device and Bluetooth activation before using it
- iOS 10.3 version or higher
- When using the product for the first time, please charge it completely before using it.
- Do not connect to the main unit if the cable is damaged. It might cause product failure.
- For the adaptor, please use the following specifications. (Purchases separately)
 - IEC/EN 60950-1 Certified Products
 - Class II products
 - Rated input: 100-240 V
 - Rated output: 5 Vdc, 2 A or more
 - Micro 5 PIN USB cable length: 1 m
- If possible, please avoid direct exposure to direct sunlight.
- Be sure that the cables are connected correctly when charging, and be careful not to shock the product by connecting it with a wet hand.

**Alert**

Be cautious to minimize the shock to the product in use.

3. How to use

3.1. How to use product

3.1.1 Preparation before using system

- Verify that you have all the quantities per package.
- Check the battery remaining LED and charge it sufficiently before using.
- It is recommended that you carefully read the instructions provided before use, check the area of use, and do not use it in any areas other than the suggested area.
- To be more accurate, please fully understand the Quick Guide provided other than the manual and the tutorial provided by the app.

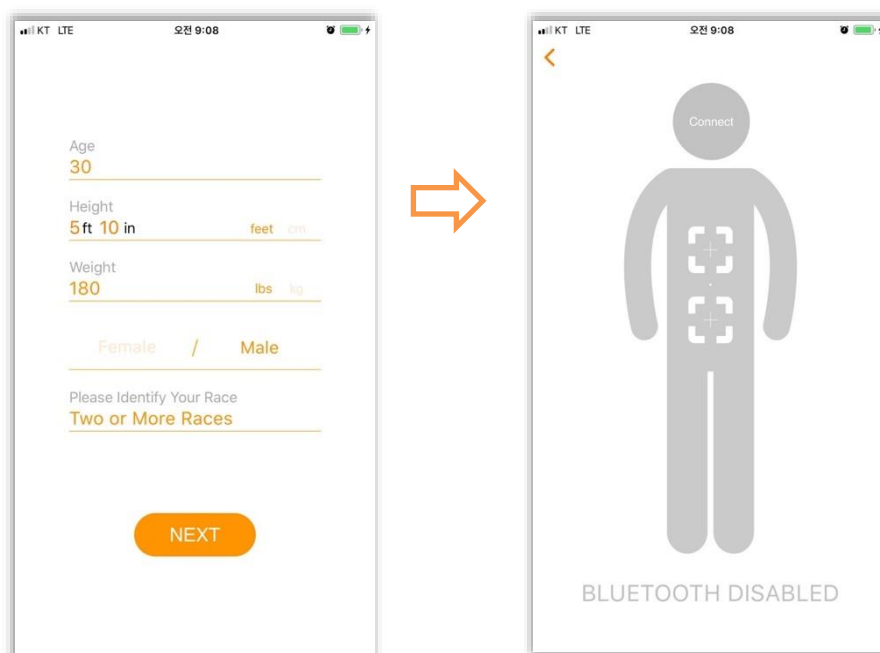
3.1.2 Turn on and off the device

- Press the button on the top of the device for more than 2 seconds to turn it on. When the device is powered on, it indicates "Hi".
(If the battery is not charged, the power may not be turned on
Connect to the charge PORT before use.)
- Press the button for more than 3 seconds to turn off the device.

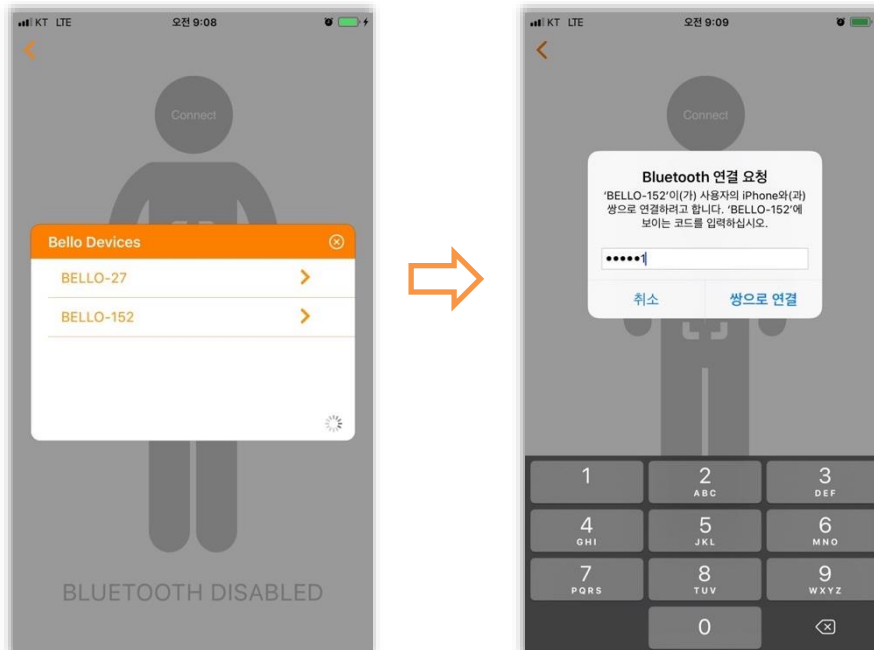


3.1.3 How to use applications such as Bello BLE Pairing, Measurement etc.

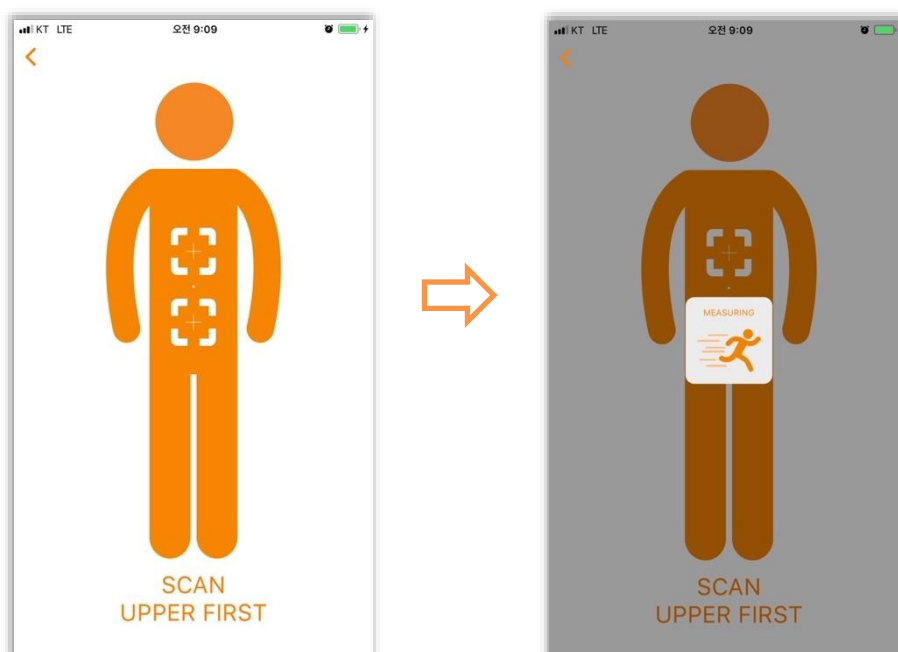
- Execute Bello app from Mobile and enter and confirm user information and click the "Next" button to move to Measurement Preparation step.
- Tap the "Connect" button in the shape of the person's head shown in the app in order to connect the Bello Device to the app prior to Measurement.



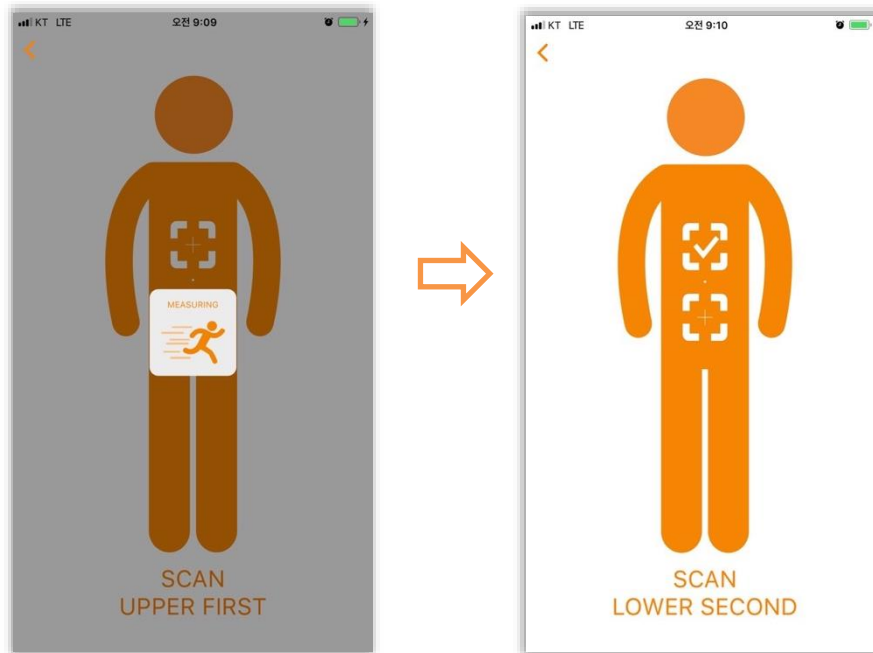
- If the pop-up window for the selection of Bello Device, check Bello Device ID and select the device to be connected.
- The first time you connect to the selected Bello Device, the pairing process starts, and you can enter the 6 digits that have been indicated to the Bello Device in the Bello app pop-up window and tap the "Pair connection" button. (For devices that have already been connected, they are connected directly without the pairing process)



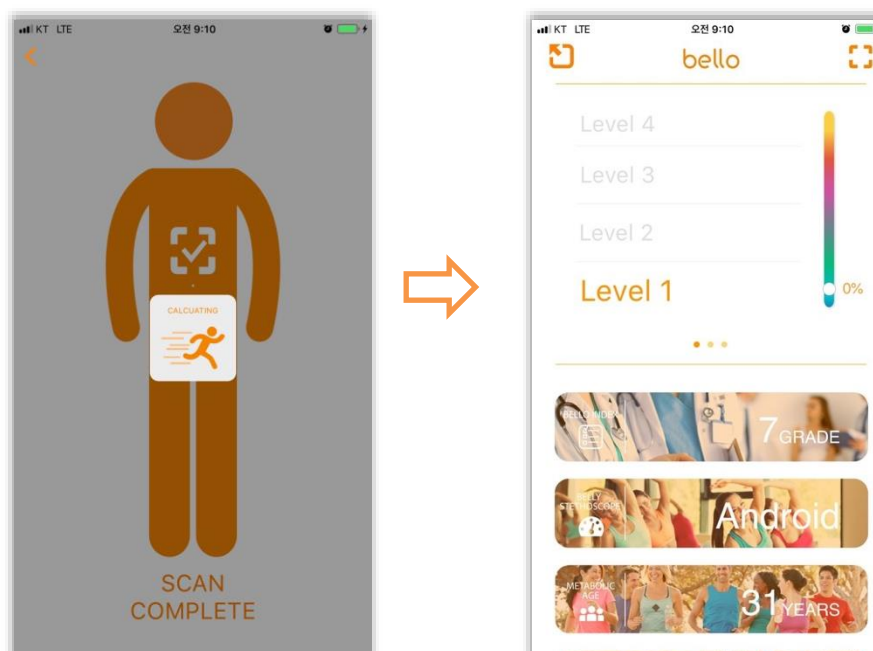
- When the device is connected, the human-shaped image is lit in orange, the text "SCAN UPPER FIRST" is displayed at the bottom of the screen, and the message "READY" is checked on the LED Display of the Bello Device.
- When the measurement is ready, attach the instrument to the upper abdomen and click the Measurement button at the top of the instrument to make a measurement. (If you click the Measurement button, the measurement will proceed with a beep sound.)



- Measurements take approximately 3 to 5 seconds and during measurements, the bottom and the first left app screens are shown to prevent the device from falling off the measurement area.
- When the first measurement is completed, the measurement value will be displayed on the Bello device, and the "SCAN LOWER SECOND" text will be displayed at the bottom of the app screen as the check mark is inserted in the upper part of the human-shaped image.



- When the upper part measurement is completed normally, attach the instrument to the lower abdomen and press the Measurement button to perform the measurement.
- When the upper-lower measurement is completed, the "CALCURATING" pop-up and the "SCAN COMPLETE" text display at the bottom of the app, showing the result screen approximately 3 to 5 seconds later.



● Battery remaining LED



Status	Role	
Battery status LED	During connecting charging cable	If there is no charging cable
	1. Fully charged Always on 2. during charging 2 seconds on / 2 seconds off	1. Low Voltage Warning (under 3.5V) 0.5 seconds on / 0.5 seconds off 2. Forced sleep (under 3.3V) 50msec on / 50msec off

● LED error message



Status	Role
FAIL	1. When Bello Device fails during Measurement 2. If you do not receive the proper measurement result from the server after completing the measurement,

3.2. Precautions for use

- Do not use this product in your eyes or eyelids and do not aim directly at your eyes.
- May cause eye damage when irradiated on the eyeball.
- Since this product is an electronic medical device, electromagnetic interference may affect the performance of the product. Keep it as far away from other electronic products that may cause electromagnetic interference while the product is in operation.
- Be cautious any adverse effect accidents caused by the negligence in use.
- Check the health of the intended person.
- Keep out of reach of children.
- Do not burn and discard the battery. It may cause the battery to explode.
- The battery is not replaceable component. Do not disassemble or damage the battery. The released electrolyte is harmful to the skin, eyes, etc. and may contain toxins.
- This device may not be able to connect with App. in a wireless environment with interference. Use it in a place where there is no significant interference in surrounding radio waves.
- Please follow "Operations by Fault Symptom" if connection is not smooth

3.2.1 General precautions

- If any noticeable damage is found to this product, please stop using it.
- Do not attempt to open or repair the device arbitrarily

3.2.2 Precautions before using device

- Avoid use by pregnant women or children (check required)
- Avoid using progressive dermatitis patients.
- Do not use the device while charging the device and mobile app.



Alert

In case of failure, check any abnormalities of power supply, charger, etc. Do not touch the device arbitrarily. After proper indication, request the repair to the expert of manufacturer • importer or repairer.

4. Product maintenance and storage method

4.1. Precautions for management

- Store the product in a dry place.
- Avoid environments where direct sunlight can cause higher temperatures.
- Be cautious to prevent damage when main unit falls on the floor.
- Move the product into a pouch when it is moved to another location or area
- Wipe the measuring section with a dry cloth before use.

4.2. Precautions for storage

- Avoid the place with visible water in the naked eye for storage.
- Be cautious adverse effects such as air pressure, temperature, humidity, ventilation, daylight, and the air containing dust and salt.
- Store the device by considering incline, vibration, or impact.
- Do not store in the place where chemicals are stored, or the places where gas is generated.
- Keep it in consideration of hygiene.



NOTE

	Use condition	Condition of transport and storage
Temperature	5 °C ~ 40 °C (°F ~ 90°F)	-20 °C ~ 60 °C (-68°F ~ 140°F)
Relative humidity	15% ~ 90%	
Atmospheric pressure	70kPa ~ 106kPa (Altitude: Max. 3000 m)	

5. Troubleshooting

5.1. Failure specific actions

Name	Role
If the power is not ON	<ul style="list-style-type: none"> • With the power off, press the power switch for more than 10 seconds. • Check if it is charged. • If main unit does not work after checking the above, contact your dealer or A/S center.
In case of measurement failure	<ul style="list-style-type: none"> • Hardware • Press the power switch for more than 3 seconds and check if the power is turned off. • Again, press the power switch for more than 2 seconds and make sure it is turned on. • When the display LED is "READY" and the power switch is pressed quickly, check if the measurement LED is lit in yellow. • If a 'FAIL' message occurs after measurement <ul style="list-style-type: none"> - Check that the network status of the mobile phone is properly connected. - Re-measurement by keeping the Bello Device close to the human body • If this does not work after checking the above, contact your dealer or customer center.
In case of charging failure	<ul style="list-style-type: none"> • When connecting the charger to a device other than the Bello, make sure that it is properly charged. • Check if the charging LED is ON when the charger is connected to the Bello. • If this does not work after checking the above, contact your dealer or customer center.
If Display LED is not operated	<ul style="list-style-type: none"> • Contact your agent or customer center if the display LED is not operated properly while the power on.
If you can't hear buzzer sound	<ul style="list-style-type: none"> • Conduct Measurement in a quiet place • Contact your dealer or customer center if: <ul style="list-style-type: none"> • Measurement is successful, but no buzz is heard • Measurement failed and no buzz is heard
If Bello Device and Mobile App are not connected,	<ul style="list-style-type: none"> • Press the Measurement button in the 'WAIT' or 'READY' state for 10 seconds. • Check the 'RESET' message on the display LED. • Delete the phone's Bluetooth device information. • Turn on the Bello Device and try to reconnect it. • If this does not work after checking the above, contact your dealer or customer center.

6. Overview of Warranty

6.1. Overview

The description of the Free Warranty when the product is operating normally and the description of the warranty exclusions within the Free Warranty Period

6.2. Free warranty

- In case of normal use and post-service, Olive Healthcare provides the warranty free of charge for one year from the date of purchase.
- In principle, if a repair request has been made for Free Warranty, it shall be handled promptly and repair or replaceable at the headquarters of Olive Healthcare Inc. or the location where the product is installed, depending on the repair parts or processing period of the product. (Check the availability of repair)
- When requesting a Free Warranty, the user should provide the olive healthcare with materials or video photos to identify problems with the product.
- In all cases, the responsibility and rights to determine the content and cause of product damage are at Olive Health Care Co., Ltd. and that judgment cannot be changed to final.



NOTE

- In order for the Free Warranty to be maintained, the maintenance and modification of the product must be made by service personnel formally designated by Olive Health Care Co., Ltd. If the product is not used in accordance with the instructions of this manual, it might be excluded from free warranty so fully understand the manual.
- In all cases, the responsibility and rights to determine the content and cause of product damage are at Olive Health Care Co., Ltd. and that judgment cannot be changed to final.

6.3. Warranty exclusions during free warranty period

Failure to comply with the product operating procedures and safety precautions provided in this manual will result in no free-warranty repair and be cautious the following items more when using the product.

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- Warranty is excluded when the user uses, changes, or disassembles the product other than its intended purpose.
- Any damage or loss by the user's negligence will be excluded from the warranty.
 - Damage caused by main unit disassembly or impact
- Any disassembly or repair of personal equipment other than those certified by Olive Health Care Co., Ltd. is excluded from warranty.



NOTE

- The genuine product supplied by the manufacturer shall be used. If it is used with any alterations or modifications, free or paid repair service might be provided, and we are not responsible for any legal problems caused by any alterations or modifications.

Warranty

This Warranty supersedes any warranty that is express or implied. The seller shall not, for any purpose, provide any warranty of marketability or of the condition of the Product.

Purchase date	
Name	
Address	
Contact	
Cellphone	
E m a i l	
Product name	Bello
Serial NO.	
Seller/company	
Seller contact	
Other	

Precautions!

Please send the above contents by e-mail for a more effective warranty.

(However, if you have contact with the person in charge, you can also send a fax.)

Manufacturer: Olive Healthcare Inc.
286, Gangnamdae-ro, Seocho-gu, Seoul
Customer support center 0000-0000
Homepage: www.olive-hc.com
E-mail:
Date of Issue:

MEMO

Dashed lines for writing content.

Bello

User manual

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Homepage : www.olive-hc.com

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Date of Issue :