

Bello

USER MANUAL

TABLE OF CONTENTS

Preface	Copyright Rights
	Intellectual property right
Introduction	Notes / FCC
	Purpose of use / Use / reasons for use prohibition / Notes
	System symbols
	User documents
	Regulations used in the user documents
1. Introduction of product and components	1.1 Introduction of the product
	1.2 Configuration and functions of the product
	1.3 Displays used in the manual and the product
2. Preparation for use	2.1 Items to be checked before use
3. How to use	3.1 How to use the product
	3.2 Notes upon use
4. How to maintain, repair and store the product	4.1 Notes upon management
	4.2 Notes upon storage
5. Solution of product problems	5.1 Action items per breakdown symptom
6. Overview of warranty	6.1 Overview
	6.2 Warranty
	6.3 Warranty exclusions during the warranty period
7. Warranty	Warranty

Copyright Rights

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Intellectual property rights

Bello and the related intellectual property rights mentioned in the present document include patent rights and trademark rights in all countries applied for throughout the world including Korea, all rights for which shall be protected by the relevant intellectual property rights.

Since the products mentioned in the present document become the protected subject for intellectual property rights including the following patent rights the family patents thereof, and trademark rights, etc. it is clarified hereby that any unauthorized use of the same pertains to the infringement act against our company, and can be punished according to the civil and criminal laws.

Korean Registered Patent	KR10-2005832
Korean Patent Registered Trademark	KR40-1541744-0000
Korean Patent registered Design	KR30-0997619
International Patent Application	PCT/KR2018/002619

Notes

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. The device 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

Purpose of use

Bello is the product for health management through quantitative measurement of abdominal fat by using the multi-wavelength LED.



Caution

It is the instrument for quantitative measurement of abdominal fat through the noninvasive method using an LED.

Before using the present product, the user should be familiarized with the present manual.

When the instrument is incorrectly used, the instrument may be damaged or the individual may be injured. However, the company shall not be responsible for indemnification in such case.

Reasons for use prohibition

In the case of a user with the following symptom, do not allow such user to use Bello.

- Child
- Open wounds
- Sensitive skin
- When there is a metallic stent in the use part
- When there is a bioabsorbable implant
- Person with mounting of an implantable medical instrument (artificial cardiac pacemaker, implantable cardiac defibrillator, implantable medical electro-stimulator, implantable electric urination suppressor, etc. affecting electromagnetic waves)
- When there is a whole-body/localized disease capable of affecting the wound healing process

Notes

- Do not let eyeball directly stare at the LED light source.
- Do not use the product at places with children or easy to be shocked.
- Store it at a place not reached by child's hands.
- This device can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum

When potential safety problems or abnormal symptoms are discovered during use, immediately stop the use and notify the customer service (Representative No. of Olive Healthcare).



Caution

















Before using the Bello system, be familiarized with all guide books provided to all users.

Bello Customer service

Customer support center 02-522-2220 / Homepage : www.olive-hc.com

Label marking items

The following symbols are displayed in the system’s configuration and the supplies and the package provided together with the system.

Indication	Description	Indication	Description
 Warning	Warning	 Caution	Caution
 NOTE	Note		Check the manual.
	Manufacturer		Manufactured date
	Serial No.	IP22	Dustproof/water proof class
	FCC certification		Protection against electric shocks (BF-type mounting unit)
	This waste cell must be disposed of in a special way.		This electronic device shall be disposed in a special way.
	Handle with care		Be careful not to be wet by water
	Temperature display (Bottom left: Minimum temperature Top right: Maximum temperature)		Humidity display (Bottom left: Minimum humidity Top right: Maximum humidity).
	Pressure display (Bottom left: Minimum pressure Top right: Maximum pressure)		

※ Familiarization with the description on the symbols and displays shown in the screen before use is recommended.

※ This device can be operated in at least one Member State with infringing applicable requirements on the use of radio spectrum.

User document

In the user manual for Bello system, detailed information is provided concerning the system components, use method, solution of device problems, washing and maintenance/repair, etc.

Bello provides the manual on the body and app.

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

Before using the system components, always be familiarized with the contents by always obtaining the latest user document for use.



NOTE

**All images included in the user document for Bello are sample images.
Hardware and information of the actually used system can be different from what is contained in the document.**

1. Introduction of product and components

1.1. Introduction of the product

Bello is the instrument for quantitative measurement of abdominal fat based on the principle of calculating the fat percentage by using the multi-wavelength LED and analyzing the bio-signals.

1.1.1. Overview of Bello

1.1.1.1 Electric specifications

- a) Protection class against electric shocks: Class 2
- b) Protection type against electric shocks: BF type
- c) Waterproof/dustproof class: IP22
- d) Operating voltage and power consumption (Lab. Test at Olive Healthcare) :
 - DC 3.3 ~4.2 V/ 0.4 VA (battery)
- d) Technical specifications
 - Battery: 3.7V, 1050mA (for battery operation)
 - Usable time upon full charging once: 129 days (Upon one measurement a day)
 - Recommended life: 5 years

d) Safety device

When abnormal phenomena occur during use, the instrument does not operate. The sensed abnormal phenomena are as follows.

- Power supply switch: The instrument does not operate when the power switch is turned OFF upon emergency.
- Measurements are not made when the abdomen and the instrument do not come into contact and are exposed to the general light.
- The instrument does not operate during charging.

e) Bluetooth

- Version: 4.1 BLE (2402~2480MHz)

f) LED specifications

- 680 ~ 1070 nm wavelength

1.1.1.2. Mechanical specifications

- a) Body [W×D×H]: 80.4 x 46.5 x 91.4mm
- b) Weight: 114g

1.1.1.3. Application specifications

- a) Smart phone OS specifications: Higher than iOS 10.3 (currently, only iOS can be used)
- b) Smart phone Android specifications: Higher than 6.0 (Marshmallow) (Available Date: May 2020)
- c) Application is continuously updated.

1.2 Configuration and functions of the product

1.2.1 Configuration of the product

Bello is configured as follows.



NO	Component	Quantity	Remarks
A	Body	1EA	
B	USB Cable	1EA	
C	Manual	1EA	

1.2.2 Names and functions of the product configuration

1.2.2.1 Body



NO	Name	Description
A	Display LED	LED displaying the device status
B	측정 LED	LED lighted when the light source operates upon measurement
C	Charger LED	LED lighted upon charging
D	Button (ON/OFF & measurement)	Button that operates after turning ON/OFF the instrument's power supply
E	LED Source	Multi-wavelength light source for measurement of abdominal fat
F	PD Sensor	Sensor receiving multi-wavelength optical signals transmitted from the abdomen
G	Charging PORT	Port for charging of the embedded battery

2. Preparation for use

2.1 Items to checked before use

2.1.1 Please check the following items upon the initial use of the product.

- Before use, please be sufficiently familiarized with the user manual.
- Careful reading of the user manual provided and checking of the use part before use are recommended.
- Please download the Bello app from the smart phone and activate the instrument and Bluetooth before use.
- Higher than iOS 10.3 version or Higher than Android 6.0(Marshmallow) version
- When the product is used for the first time, please use it after complete charging.
- When the cable is damaged, do not connect it with the body, because it will cause breakdown of the product.
- In the case of the adaptor, please use the following specifications.
Product having acquired the certification of IEC/EN 60950-1 - Input: 100-240V, 50/60Hz
- Rated Input: 5 Vdc, 0.5A or more
- If possible, please avoid the places where the product is directly exposed to the sun light.
- Upon charge, please make sure that the cable is correctly connected. Be careful about the electrocution risks that will occur if the product is connected using wet hands.



Caution

Be careful to minimize impacts on the product upon use.

3. How to use

3.1. How to use and operate the product

3.1.1 Preparation items before using the system

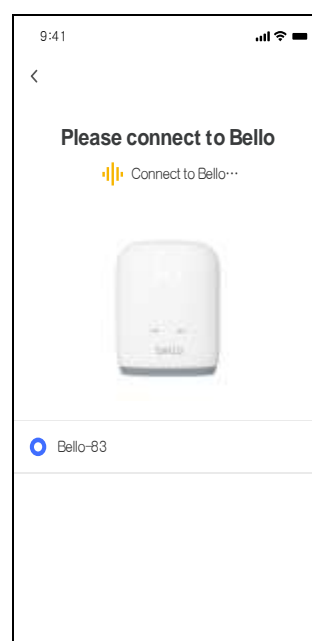
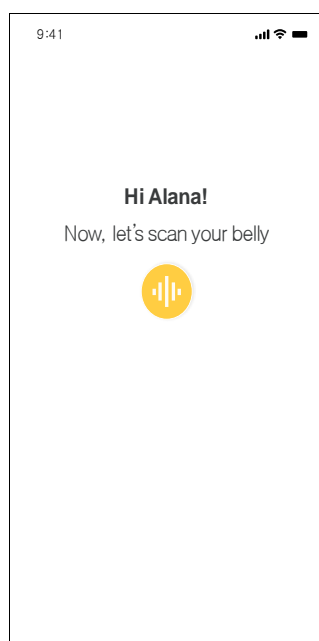
- Check whether there are all the quantities per package.
- Check the battery balance LED and use the product after sufficient charging.
- Before use, careful reading of the user manual provided and checking the use part are recommended. The use for other parts than the usable parts presented is prohibited.
- To be familiarized with how to use more accurately, please use the product after familiarization with the quick guide and the tutorial provided in the app other than the manual.

3.1.2 Turning ON/OFF of the instrument's power supply

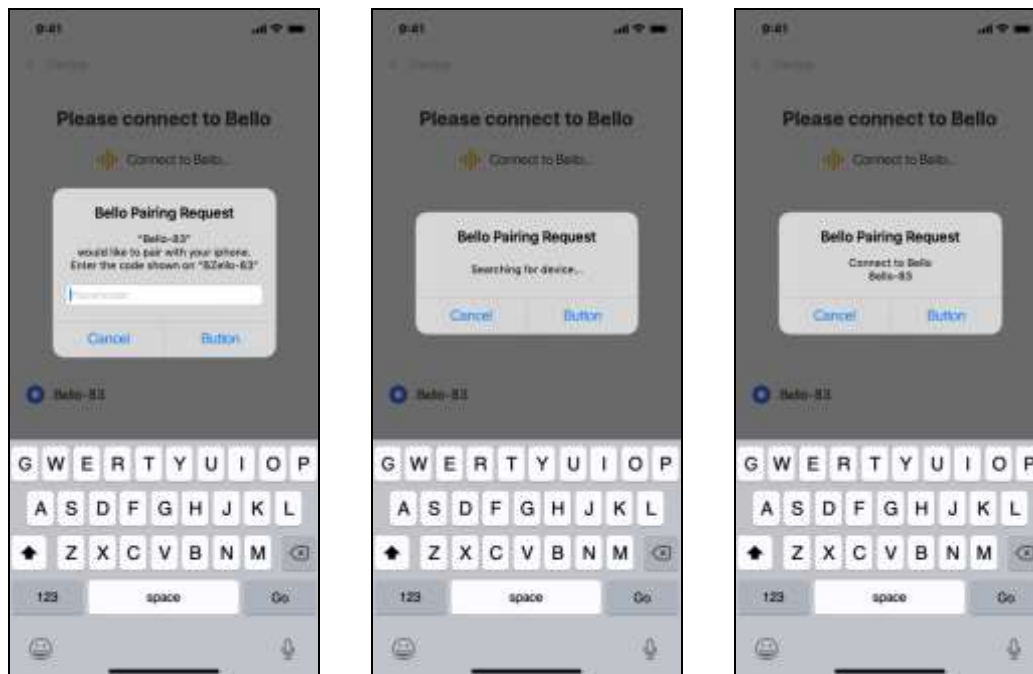
- Turn ON the power supply by pushing the button on the top of the instrument for more than 2sec. (When the battery is not charged, the power supply may not be turned ON, Use it after charging with connection to the charging PORT prior to the use)
- Turn off the instrument by pushing it for more than 3 sec likewise.

3.1.3 Bello BLE Pairing

- By driving Bello app in Mobile, have the member subscribe and input the user information.
- When the following screen is displayed, push the yellow button to implement scanning.
 - Upon initial connection of the instrument, select the subject instrument to be connected by confirmation of the ID for Bello Device.

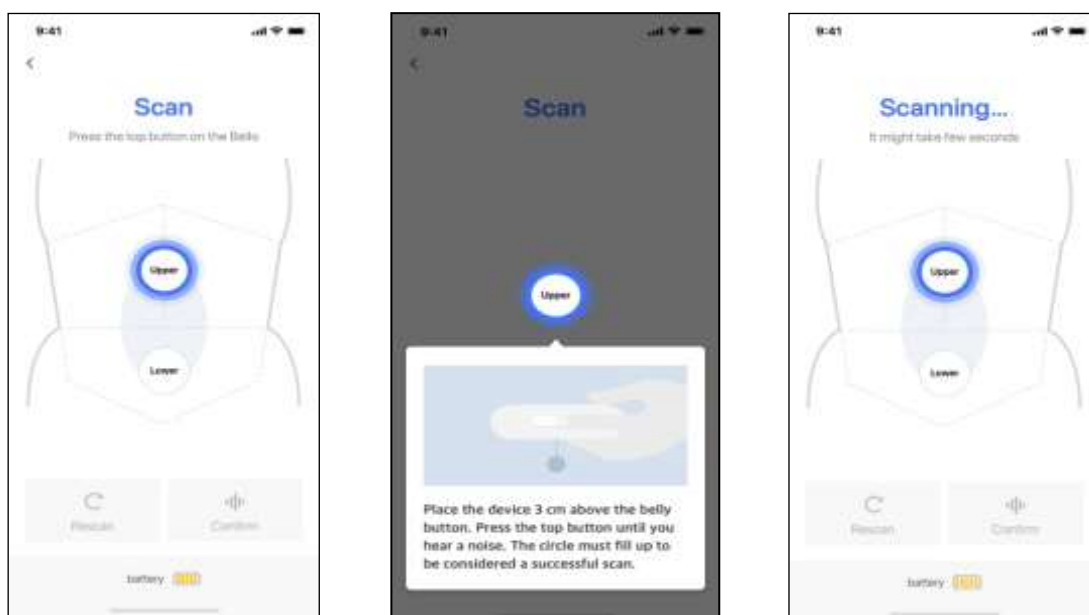


- When the instrument is selected, the pairing window is displayed and the instrument is connected with the app as the code generated is inputted therein. If connected normally, the LED “V” message of Bello Device will be displayed. It is then shifted to the scan screen.

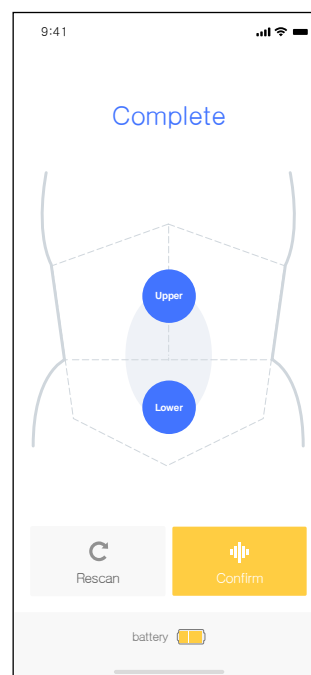


3.1.4 How to measure and use the app

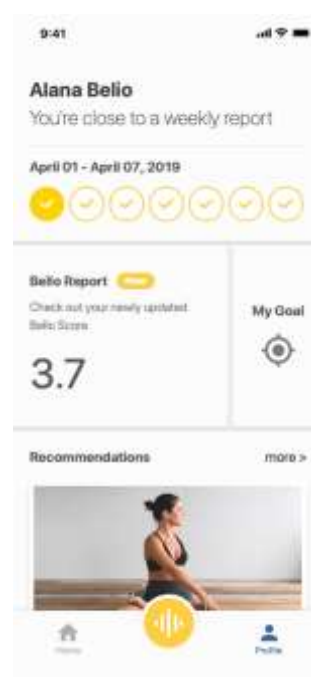
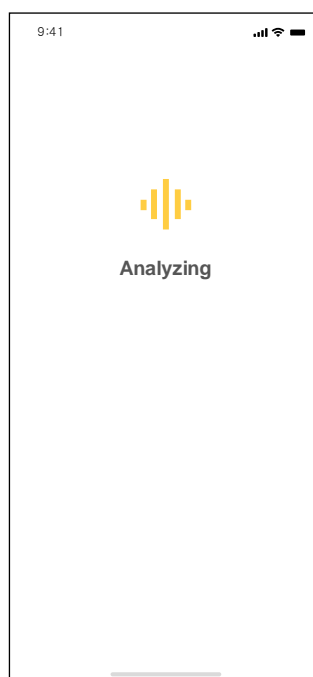
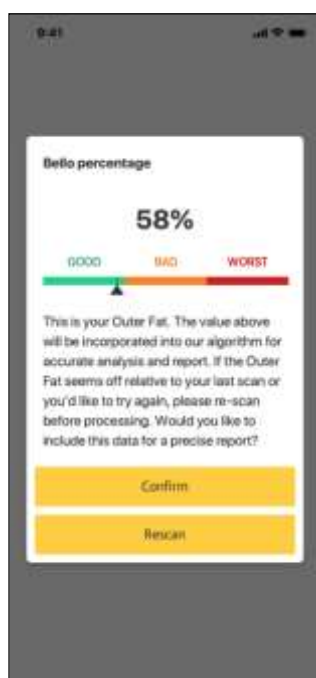
- When the blue light blinks on the upper side in the app scan screen, adhere Bello device to the upper abdomen about 3cm above the measured navel and click the measurement button on the top of the instrument. (The measurement will take approximately 3~5 sec. Be careful so that the instrument is not separated from the measured part during the measurement.)
- When a “beep” sound is heard together with the scanning statement on the top of the app screen, the measurement is completed.



- When the blue light blinks in the Lower after completion of Upper (upper abdomen) measurement, adhere the Bello device to the lower abdomen part about 3 cm below the navel for clicking.
- When a “beep” sound is heard from the instrument together with the scanning statement on the top of the app screen, the measurement is completed.
- When the measurements of the upper abdomen/ lower abdomen are completed, push Confirm button on the bottom of the app when the measurement is completed, and push Rescan button to start the measurements again.



- When the measurement is completed normally, the following result screen is displayed in the app, and the Final Bello Report can be received by pushing Confirm button.
- Check the report provided by Bello app in detail.



- Battery balance LED



State	Role	
Battery state LED	During connection of the charging cable 1. In full charging state => Always lighted 2. During charging => On for 2sec / Off for 2sec	When there is no charging cable 1. Low-voltage warning (Below 3.5V) => Blinking at the interval of 0.5sec 2. Forced power saving (Below 3.3V) => Blinking at the interval of 0.25sec

- LED error message



Name	Role
X	1. When Fail occurred in Bello Device during measurement 2. When no appropriate measurement results are received from the server after completion of measurement

3.2. Notes upon use

- Do not use the present product for the eyes or eyelids, and do not aim it directly at the eyes. When irradiated on the eyeballs, damages can be inflicted to the eyeballs.
- Pay attention to the notes for use as well as occurrence of side effects and accidents resulting from use negligence, etc.
- Check the notes on the body state of the use se subject.
- Keep it out of children's reach.

3.2.1 General notes

- If visible damages to the present product have been discovered, please stop the use.
- Do not arbitrarily attempt to open or repair the instrument.

3.2.2 Notes before using the instrument

- The patients with progressive dermatitis should avoid the use.
- Use during charging of the instrument and mobile app is prohibited.



Caution

Upon breakdown of the device, check only the abnormality status of the power supply, charger, etc. and do not arbitrarily touch it. Please request the specialists of manufacturer, importing business or repair business for the repair after making appropriate marks.

4. How to maintain, repair and store the product

4.1. Notes upon management

- Store the product at a place free of water.
- Avoid the environments where temperatures can be raised through the exposure to direct sunlight.
- Be careful not to allow damages as the body is dropped to the floor.
- Upon moving the product to another place or area, do so with the product put in a pouch.

4.2. Notes upon storage

- Avoid storage at a place visually having water.
- Be careful about the ill effects of atmosphere, temperature, humidity, ventilation, sunlight, dust, air containing salt, etc.
- Store with attention paid to tilting, vibration, impact, etc.
- Do not store it at a storage place for chemicals, and a place with occurrence of gases.
- Please store it by considering the hygiene.



NOTE

	Use condition	Transport & storage conditions
Temperature	-20°C ~ 55°C (-4°F ~ 131°F)	-20°C ~ 60°C (-13°F ~ 96°F)
Relative humidity	15% ~ 90%	
Atmospheric pressure	70kPa ~ 106kPa (Altitude: Maximum 3,000m)	
When the optimal use conditions for Bello are not met, store the instrument at a general temperature (20°C) for at least 1 hour before use.		

5.1. Action items per breakdown symptom

Name	Role
When the power supply fails to be turned ON	<ul style="list-style-type: none"> • Push the power supply switch for more than 10sec in the state of power supply being turned off. • Check whether charging is being executed. • If the body fails to operate even after checking of the above item, contact the agency or the A/S center.
When measurements cannot be made	<ul style="list-style-type: none"> • Push the power supply switch for more than 3sec, and check whether the power supply is turned OFF. • Push the power supply again for more than 2sec, and check whether the power supply is turned ON. • Check whether the measurement LED is lighted yellow when the power supply is pushed fast once in the state of Display LED “V” • When 'X' message occurs after measurement <ul style="list-style-type: none"> – Check whether the network of Mobile phone is appropriately connected – Adhere the Bello Device to the human body for re-measurement • If the instrument fails to operate even after checking of the above item, contact the agency or the customer center.
When charging cannot be executed	<ul style="list-style-type: none"> • Check the normal charging when the charger is connected to an instrument other than Bello. • Check whether the charging LED is turned ON when the charger is connected to Bello. • If the instrument fails to operate even after checking of the above item, contact the agency or the customer center.
When Display LED fails to operate	<ul style="list-style-type: none"> • When the display LED operates abnormally in the state of the power supply being turned ON, contact the agency or the customer center.
When the buzzer sound cannot be heard	<ul style="list-style-type: none"> • Conduct measurements at a quiet place. • In the following cases, contact the agency or the customer center. <ul style="list-style-type: none"> – When the buzzer sound is not heard although measurements were successful – When the buzzer sound is not heard while measurements were not successful
When no pairing can be executed between Bello Device and Mobile App	<ul style="list-style-type: none"> • Push the measurement button for 10sec while the Bello Device is in 'V' state. • Check whether all Display LED's are lighted. • Delete the instrument information of Bluetooth device in the Phone. • Attempt pairing again after turning the Bello Device ON. • If the instrument fails to operate even after checking of the above item, contact the agency or the customer center.

6. Overview of warranty

6.1. Overview

It is the description of the warranty upon normal operation of the product and of the warranty exclusion items within the warranty period.

6.2. Warranty

- When the follow-up services are received after normal use of the product, warranty is carried out by Olive Healthcare, Inc. for 1 year from the product purchase date.
- When there is a request relevant to the warranty, prompt response and realization of maintenance or exchange shall occur in principle at the headquarters of Olive Healthcare, Inc. or the place of product installation according to the repaired parts or the processing period. (Check the status of repair)
- Upon request for the warranty, the user should provide Olive Healthcare, Inc. with the data, video pictures, etc. for confirmation of the product problems.
- In all cases, the responsibility and rights for determination of the contents of the product damage and the causes thereof shall reside in Olive Healthcare, Inc. and the determination shall be final without a room for the changes.



NOTE

- In order for the warranty to be maintained, make sure to be familiarized with the manual since maintenance and changes of the product should be realized according to Olive Healthcare, Inc. by the formally designated service staff and are excluded from the warranty when the product was used for unintended purposes or not used according to the guidelines of the present manual.
- In all cases, the responsibility and rights for determination of the contents of the product damage and the causes thereof shall reside in Olive Healthcare, Inc. and the determination shall be final without a room for the changes.

6.3. Warranty exclusion items within the warranty period

When the operation procedure and safety notes, etc. for the product presented in the present manual was not followed, the user shall not be eligible to receive the warranty repairs. Pay more attention to the following items upon product use.

- The user shall be excluded from the warranty when the product was used for other purposes than intended, modified, or disassembled.
- The user shall be excluded from the warranty upon damages or loss due to the user's negligence.
 - Damages due to the disassembly of, or the impact to the body
- The user shall be excluded from the warranty when others than the service staff certified by Olive Healthcare, Inc. arbitrarily conducted disassembly or repair of the device.



NOTE

- Upon use of the present product, genuine items supplied by the manufacturer should be used. In the case of arbitrary modifications or changes, it is hereby announced that the user shall not be eligible to receive paid or free-of-charge repairs and that our company shall not be responsible for the legal problems occurring due to the arbitrary modifications or changes.

Warranty

This warranty substitutes for other explicit or implicit warranties. The seller shall not guaranty for the marketability or the product state for any purpose.

Purchase date	
Name	
Address	
Contact	
Mobile phone	
E m a i l	
Product name	Bello
Serial NO.	
Seller/company	Olive Healthcare, Inc.
Seller 's contact	+82 2522 2220
Other	+82 2522 2230

Important!

For more effective warranty, please forward the above contents through the E-mail.
(However, if the person in charge has been contacted, fax transmission is also acceptable)

Manufacturer: Olive Healthcare, Inc.
11-gil 12 Beopwon-ro, Hanyang Tower 4F, Songpa-gu, Seoul
Customer support center: 02-522-2220
Homepage: www.olive-hc.com
E-mail: info@olive-hc.com
Date of Issue: 16 December, 2019

EU DECLARATION OF COMFORMITY¹

Number² OH-DOC-001
Name and address of the Manufacturer³ Olive Healthcare Inc.
 12, Beobwon-ro 11-gil, Songpa-gu, Seoul, Republic of Korea

This declaration of conformity is issued under the sole responsibility of the manufacturer.⁴

Object of the declaration⁵
Product information⁶ Product name: Body Composition Device
 Model name: AD715-BTWT
Additional information⁷ S/W: 1.0.7 / H/W: MP
 Accessories: Charging Cable (Model: N/A)

The object of the declaration described above is in conformity with the relevant union harmonization legislation.⁸

References to the relevant harmonized standards used or references to the technical specifications in relation to which conformity is declared.⁹

RED Directive 2014/53/EU	
EN 300 328 V2.1.1 EN 62479:2010 ETSI EN 301 489-1 V2.1.1 ETSI EN 301 489-17 V3.1.1	EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+A2:2013

The notified body¹⁰ **Record the approving institution** performed **a conformity assessment of the technical construction file**

and issued the certificate

Signed for and on behalf of:¹¹ Olive Healthcare Inc.

Authorized Representative: **12, Beobwon-ro 11-gil, Songpa-gu, Seoul, Republic of Korea** Name and Surname / Function: **Cheong Woo Noh / Manager**

Date of issue: **16 December, 2019**



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