

InBody



InBody380

High Accuracy

Accurate measurements derived from InBody Technology

High Reproducibility

Ergonomic Electrodes designed for ensured reproducibility

Easy Transportation

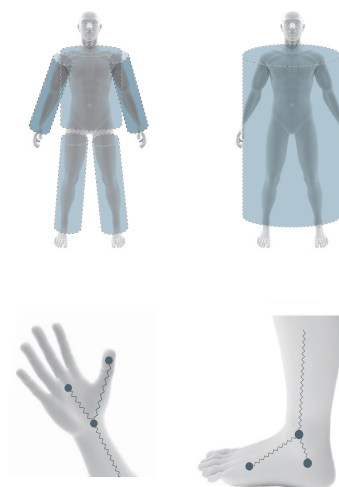
Compact and foldable design for mobility

InBody Technology

InBody uses Bioelectrical Impedance Analysis (BIA) technology to measure human body composition. Impedance is the resistance of the human body generated when a micro alternating current flows through the human body. The human body is made of water that conducts electricity well, and the resistance varies depending on the amount of water. BIA is a technology that quantitatively measures body water through impedance that occurs when an electric current flows through the human body. InBody provides diverse information on body composition based on the measured body water.

Direct Segmental Measurement-BIA

The human body exhibits varying lengths and cross-sectional areas for each body segments. Arms and legs, characterized by narrow cross-sectional areas and length, exhibit higher impedance values and lower muscle mass. Conversely, the trunk, with its broader cross-sectional area, yields lower impedance values and higher muscle mass. Even the slightest change in trunk impedance can significantly influence the total muscle mass. Therefore, it is essential to separately measure trunk impedance for precise total muscle mass assessment. InBody conducts separate measurements for arms, legs, and the trunk, ensuring the utmost accuracy in the analysis.

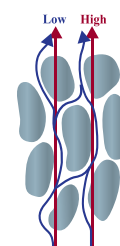


8-Point Tactile Electrodes utilizing Thumb Electrodes

Using the structural features of the human body, InBody pioneered '8-Point Tactile electrode with Thumb Electrodes'. This ensures InBody measurements start at the same location on the wrists and ankles, guaranteeing reliable and reproducible results.

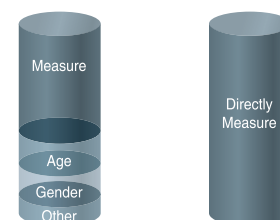
Simultaneous Multi-Frequency Impedance Measurement

InBody introduced a technology in body composition analyzers to transmit multiple frequencies at once, obtaining specific impedance data for each for the first time. This reduces measurement time and error, leading to more accurate body water and fluid balance measurements.



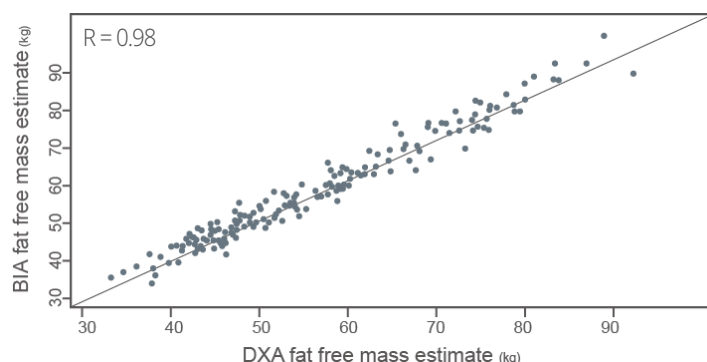
No Estimations or Empirical Equations on Measured Values

InBody does not rely on empirical estimations based on age, gender, and more to ensure the accuracy of the measured data. In the past, empirical estimations were applied to the equations to ensure accuracy due to technological limitations. However, this resulted in lower accuracy when the measured population group changes. InBody overcame these limitations with technological developments such as direct segmental measurement-BIA to measure and analyze accurate body composition without applying empirical estimation. Therefore, InBody devices can provide data regardless of population and can reflect changes in the body with higher sensitivity.



Over 98% Correlation to DEXA on Accuracy

InBody precisely detects changes in body composition using impedance alone, showing a correlation over 0.98 with the gold-standard DEXA device.



Ryan T Hurt et al., The Comparison of SMF-BIA and DEXA for Estimating Fat Free Mass and Percentage Body Fat in an Ambulatory Population, *J Parenter Enteral Nutr.* 2021 Aug;45(6):1231-1238

Enhanced User Experience

Quick Measurement

Experience quick and precise body composition assessment within just 30 seconds, available for immediate consultation.

Convenient Measurement

Obtain accurate measurements by holding anywhere on the ergonomically designed 3-way hand electrode.

Portable Design

The foldable structure and compact design of the InBody380 facilitates simpler transportation and better space utilization.

Smart Recognition

QR code recognition with mobile phones simplifies member data entry for enhanced efficiency.



Comprehensive Parameters for Professionals

Body Water Balance

Maintaining body water balance is essential for overall health management. InBody's Whole Body ECW Ratio serves as a valuable tool for monitoring and assessing an individual's health status.

Cellular Integrity Check

Phase Angle is a vital measure that signifies cellular health by revealing Cellular Integrity and overall physiological function. InBody's Phase Angle assists in evaluating an individual's cellular health and guiding necessary actions.

Sarcopenia Assessment

Sarcopenia can be easily assessed and evaluated using the Skeletal Muscle Mass Index (SMI) and Hand Grip Strength*, allowing for comprehensive evaluation and personalized consultations. *Hand Grip Strength is available with connection to the InBody Handgrip Dynamometer (IB-HGS).

InBody Result Sheet

Provides reference parameters to thoroughly evaluate patients' conditions across various medical practices.

InBody

[InBody380]

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Customized Logo

www.customized.com

ID	Height	Age	Gender	Test Date / Time
Jane Doe	156.9cm	51	Female	03.15.2023 14:51

1 Body Composition Analysis

	Values	Total Body Water	Soft Lean Mass	Fat Free Mass	Weight
Total Body Water (L)	27.4 (27.0 ~ 33.0)	27.4	35.0 (34.7 ~ 42.3)	37.2 (36.7 ~ 44.8)	59.1 (45.0 ~ 60.8)
Protein (kg)	7.2 (7.2 ~ 8.8)				
Minerals (kg)	2.64 (2.49 ~ 3.05)	non-osseous			
Body Fat Mass (kg)	21.9 (10.6 ~ 16.9)				

2 Muscle-Fat Analysis

	Under	Normal	Over
Weight (kg)	55 70 85 100 115 130 145 160 175 190 205 %		59.1
SMM (kg)	70 80 90 100 110 120 130 140 150 160 170 %		19.5
Body Fat Mass (kg)	40 60 80 100 160 220 280 340 400 460 520 %		21.9

3 Obesity Analysis

	Under	Normal	Over
BMI (kg/m ²)	10.0 15.0 18.5 21.5 25.0 30.0 35.0 40.0 45.0 50.0 55.0		24.0
PBF (%)	8.0 13.0 18.0 23.0 28.0 33.0 38.0 43.0 48.0 53.0 58.0		37.0

4 Segmental Lean Analysis

	Under	Normal	Over
Right Arm (kg)	40 60 80 100 120 140 160 180 200 220 240 %		1.97
Left Arm (kg)	40 60 80 100 120 140 160 180 200 220 240 %		1.89
Trunk (kg)	70 80 90 100 110 120 130 140 150 160 170 %		17.5
Right Leg (kg)	70 80 90 100 110 120 130 140 150 160 170 %		5.06
Left Leg (kg)	70 80 90 100 110 120 130 140 150 160 170 %		4.98

5 ECW Ratio-Phase Angle

	Under	Normal	Over
ECW Ratio	0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430		0.399

6 Body Composition History

Weight (kg)	65.3	63.9	62.4	61.8	62.3	60.9	60.5	59.1
SMM (kg)	20.1	20.0	19.7	19.4	19.8	19.5	19.8	19.5
BFM (kg)	23.5	23.1	22.7	22.4	22.9	22.3	22.2	21.9
PBF (%)	41.3	40.7	39.2	39.0	39.4	38.6	37.7	37.1
ECW Ratio	0.399	0.398	0.396	0.396	0.397	0.396	0.399	0.399

☑ Recent ☐ Total

8 InBody Score

67/100 Points

* Total score that reflects the evaluation of body composition. A muscular person may score over 100 points.

9 Whole Body Phase Angle

φ(°) 50 kHz | 4.0 °

10 SMI

5.6 kg/m²

11 Weight Control

Target Weight 52.9 kg
Weight Control -6.2 kg
Fat Control -9.7 kg
Muscle Control +3.5 kg

12 Nutrition Evaluation

Protein ☐ Normal ☒ Deficient
Minerals ☒ Normal ☐ Deficient
Body Fat ☐ Normal ☐ Deficient ☒ Excessive

13 Obesity Evaluation

BMI ☒ Normal ☐ Under ☐ Slightly Over
PBF ☐ Normal ☐ Slightly Over ☒ Over

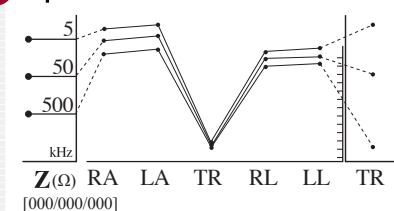
14 Body Balance Evaluation

Upper ☒ Balanced ☐ Slightly Unbalanced ☐ Extremely Unbalanced
Lower ☒ Balanced ☐ Slightly Unbalanced ☐ Extremely Unbalanced
Upper-Lower ☐ Balanced ☒ Slightly Unbalanced ☐ Extremely Unbalanced

15 Research Parameters

Intracellular Water 16.5 L (16.7 ~ 20.5)
Extracellular Water 10.9 L (10.3 ~ 12.5)
Basal Metabolic Rate 1174 kcal (1255 ~ 1451)
Waist-Hip Ratio 0.98 (0.75 ~ 0.85)
Visceral Fat Level 13 (1 ~ 9)
Obesity Degree 112 % (90 ~ 110)
Bone Mineral Content 2.19 kg (2.05 ~ 2.51)
Body Cell Mass 23.7 kg (23.9 ~ 29.3)

16 Impedance



Result Sheet Interpretation

1 Body Composition Analysis

Body weight is the sum of Total Body Water, Protein, Minerals, and Body Fat Mass. Maintain a balanced body composition to stay healthy.

2 Muscle-Fat Analysis

The balance between Skeletal Muscle Mass and Body Fat Mass is a key health indicator. Muscle-Fat Analysis shows this balance by comparing the length of the bars for Weight, Skeletal Muscle Mass, and Body Fat Mass.

3 Obesity Analysis

For a more accurate evaluation of obesity, BMI alone is not sufficient. Opt for a more precise assessment using Percent Body Fat for clinical obesity analysis. The InBody can detect hidden health risks like Sarcopenic Obesity, in which a person appears slim on the outside but has a high percent body fat.

4 Segmental Lean Analysis

Analyzing the lean mass in each segment helps identify imbalances and insufficiently developed lean mass, which can be used to develop targeted exercise programs. The lean mass of the arms, trunk, and legs, are represented by two bars. The top bar shows how much lean mass there is in a segment compared to the ideal weight, and the bottom bar shows how sufficient the lean mass is to support your current weight.

5 ECW Ratio-Phase Angle

The Extracellular Water Ratio shows the balance status of body water. The ratio between intra-extracellular water remains consistent at about 3:2 ratio in healthy individuals, and when this balance is disrupted, edema may occur.

6 Body Composition History

Customize your user's journey by selecting from 19 parameters to track the Body Composition History, including Body Weight, Skeletal Muscle Mass, Body Fat Mass, Body Fat Percentage, and ECW Ratio. Assessing regularly on InBody to monitor progress is a great step toward a healthier life.

7 Logo Customization

The Customized Logo can be applied on the Result Sheet. URL can also be applied at the bottom of the Result Sheet as well.

8 InBody Score

The InBody Score is a unique index created by InBody to provide a snapshot of one's overall body composition health. The standard range is between 70-90 points, and points will be added or subtracted depending on the need of control of fat and muscle mass.

9 Whole Body Phase Angle

Phase Angle is related to the health status of the cell membrane. Strengthening of the cellular membrane and structural function will increase the Phase Angle. In contrast, impairments to the cellular membrane can result in decreased Phase Angle.

10 SMI

SMI is the sum of the muscle masses of the limbs divided by the height squared. It is an indicator that can be used for early diagnosis of Sarcopenia, a medical condition related to the loss of skeletal muscle mass.

11 Weight Control

Weight Control shows the recommended weight, fat, and muscle mass for a healthy body. A '+' signifies a need to gain, and a '-' indicates a need to lose weight. This metric is useful for setting personal health goals.

12 Nutrition Evaluation

Nutrition Evaluation is done based on variables such as Protein, Minerals, and Body Fat. If below 90% of the normal status, the variable will be categorized as deficient. Body Fat above 160% will be presented as Excessive.

13 Obesity Evaluation

Evaluate obesity based on BMI and Percent Body Fat.

14 Body Balance Evaluation

Various research parameters such as Basal Metabolic Rate, Waist-Hip Ratio, Obesity Degree, Skeletal Muscle Mass Index (SMI), Body Cell Mass, and more are provided.

15 Research Parameters

Various research parameters such as Basal Metabolic Rate, Waist-Hip Ratio, Obesity Degree, Skeletal Muscle Mass Index (SMI), Body Cell Mass, and more are provided.

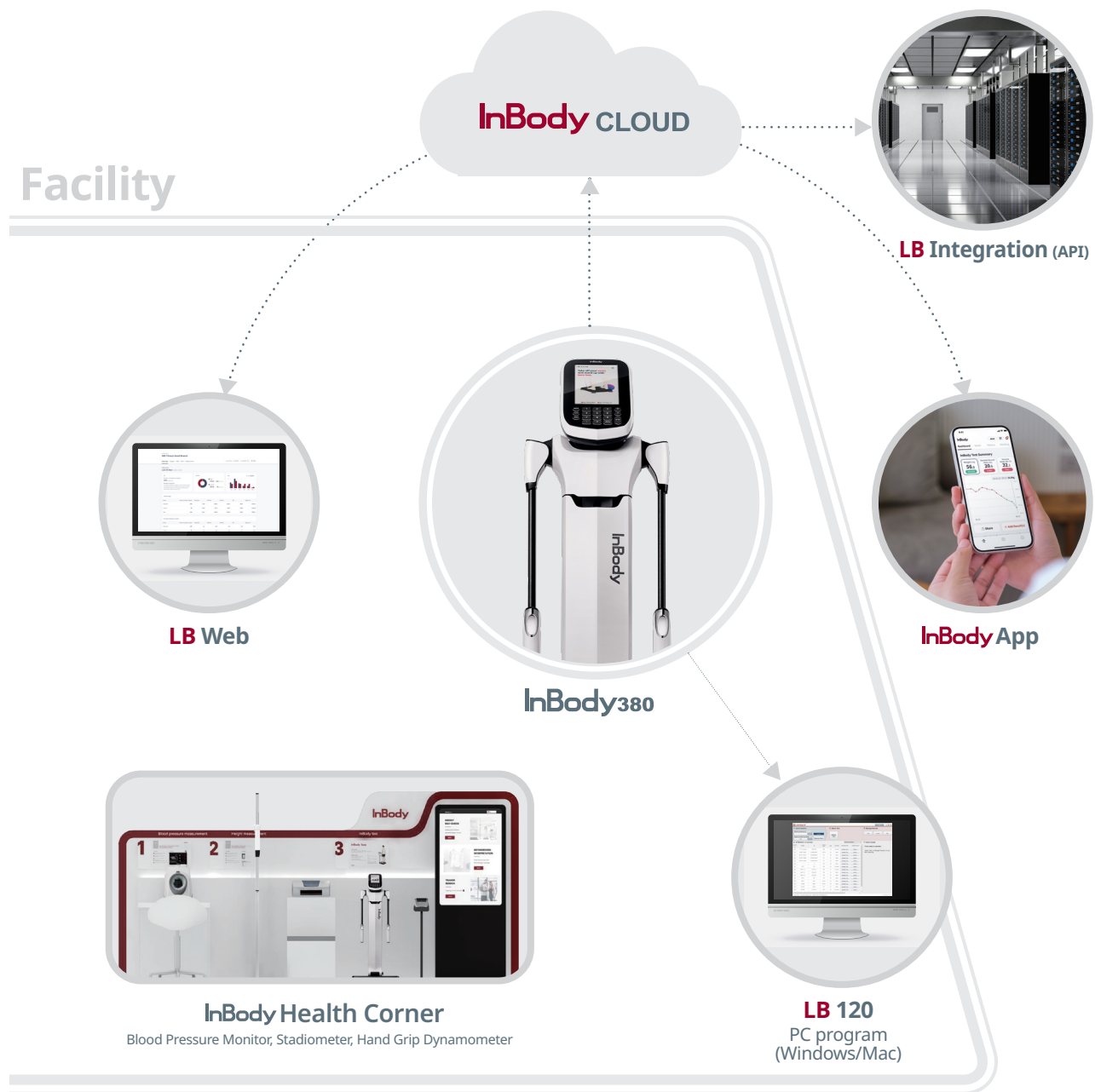
16 Impedance

Impedance is the resistance that occurs when micro-alternating current is applied to the human body. InBody visualizes the impedance with the graph. You can easily detect if there is a reversed impedance error by checking crossed lines in the impedance graph. Below the impedance graph, you can also check the error codes.

* Research Parameters can be customized in the settings.
Please refer to the Specifications page for available options.

InBody Data Integration Solution

Manage and utilize your InBody data in various settings.



InBody Data Comprehension

Provide a health report to monitor your customers body composition goal.

Analytical Dashboard and Report

Get an intuitive analysis of your InBody data on the dashboard and see how your facility is operating with InBody.

Monitor Lifestyle Habits

Integrate InBody devices to monitor lifestyle habits and provide remote health management.

Access InBody Results Anywhere, Anytime

Through PC, tablet and smartphones, access your customer's InBody results anywhere, anytime.

API Integration

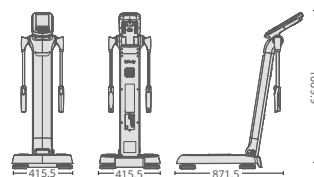
Upon customer consent, utilize InBody data through API and SDK.

Various File Formats

Print InBody data as an image, excel file etc.

Specifications

InBody380 Body Composition Analyzer



Bioelectric Impedance Analysis (BIA) Measurement Item	Bioelectrical Impedance (Z)	15 Impedance Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 500kHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg and Left Leg) 1 Phase Angle Measurements by Using 1 Frequencies (50kHz) at Whole Body	InBody Result Sheet	<ul style="list-style-type: none">· Body Composition Analysis (Total Body Water, Protein, Minerals, Body Fat Mass, Soft Lean Mass, Fat Free Mass, Weight)· Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)· Obesity Analysis (Body Mass Index, Percent Body Fat)· Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)· Segmental Fat Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)· ECW Ratio - Phase Angle· Body Composition History (Weight, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass, Percent Body Fat, BMI, ECW Ratio, InBody Score, Basal Metabolic Rate, Visceral Fat Level, Waist-Hip Ratio, Fat Free Mass, Waist Circumference, Obesity Degree, FFMI, FMI, SMI, SMM/WT, Whole Body Phase Angle, 50kHz)· InBody Score· Whole Body Phase Angle (History)· SMI (History)· Body Type (Graph)· Weight Control (Target Weight, Weight Control, Fat Control, Muscle Control)	<ul style="list-style-type: none">· Nutrition Evaluation (Protein, Minerals, Fat Mass)· Obesity Evaluation (BMI, Percent Body Fat)· Body Balance Evaluation (Upper, Lower, Upper-Lower)· Segmental Fat Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)· Segmental Fat Analysis (Graph)· Segmental Circumference (Neck, Chest, Abdomen, Hip, Right Arm, Left Arm, Right Thigh, Left Thigh)· Waist-Hip Ratio (Graph)· Visceral Fat Level (Graph)· InBody Score (Graph)· Basal Metabolic Rate (Graph)· Research Parameters (Intracellular Water, Extracellular Water, Skeletal Muscle Mass, Fat Free Mass, Basal Metabolic Rate, Waist-Hip Ratio, Waist Circumference, Visceral Fat Level, Obesity Degree, Bone Mineral Content, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, FFMI, FMI, SMI, SMM/WT, Recommended Calorie Intake)· Calorie Expenditure by Activity· Blood Pressure (Sys, Dia, Pulse, MAP, PP, RPP)· QR Code· Results Interpretation QR Code· Whole Body Phase Angle (50kHz)· Impedance Graph (Each segment and each frequency)· Sarcopenia Parameters (SMI, HGS)
Electrode Method	Tetrapolar 8-Point Tactile Electrodes		InBody Result Sheet for Children	<ul style="list-style-type: none">· Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Weight)· Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)· Obesity Analysis (Body Mass Index, Percent Body Fat)· Growth Curve Outputs (Height, Weight, BMI)· Body Composition History (Height, Weight, BMI, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass, Percent Body Fat, Basal Metabolic Rate, Fat Free Mass, Child Obesity Degree, FFMI, FMI, SMI, SMM/WT, Whole Body Phase Angle, 50kHz)· Whole Body Phase Angle (History)· SMI (History)· Growth Score· Weight Control (Target Weight, Weight Control, Fat Control, Muscle Control)	<ul style="list-style-type: none">· Nutrition Evaluation (Protein, Minerals, Fat Mass)· Obesity Evaluation (BMI, Percent Body Fat)· Body Balance Evaluation (Upper, Lower, Upper-Lower)· Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)· Research Parameters (Intracellular Water, Extracellular Water, Skeletal Muscle Mass, Fat Free Mass, Basal Metabolic Rate, Child Obesity Degree, Bone Mineral Content, Body Cell Mass, FFMI, FMI, SMI, SMM/WT)· Blood Pressure (Sys, Dia, Pulse, MAP, PP, RPP)· QR Code· Results Interpretation QR Code· Whole Body Phase Angle (50kHz)· Impedance Graph (Each segment and each frequency)
Test Duration	About 30 seconds		Thermal Result Sheet	<ul style="list-style-type: none">· Muscle-Fat Analysis, Obesity Analysis, Segmental Lean Analysis, Segmental Fat Analysis, InBody Score, Research Parameters (Intracellular Water, Extracellular Water, ECW Ratio, Total Body Water, Protein, Mineral, Bone Mineral Content, Body Cell Mass, Waist-Hip Ratio, Waist Circumference, Visceral Fat Level, Obesity Degree, Basal Metabolic Rate, Arm Circumference, Arm Muscle Circumference, FFMI, FMI, SMI, SMM/WT), Fat Control, Muscle Control, Whole Body Phase Angle, Impedance Graph (Each segment and each frequency)	
Weight Range	5~300kg (11.0 - 661.4lb)				
Age Range	3 years and older				
Height Range	95~220cm (3ft 1.40in ~ 7ft 2.61in)				
Logo Display	Name, Address and Content Information can be shown on the Results Sheet				
Digital Results	LCD Screen, LookinBody Web, LookinBody120				
Types of Result Sheets	InBody Result Sheet, InBody Result Sheet for Children, Thermal Result Sheet				
Notification Sounds and Voice Guidance	On the progress of the test, saving settings, and inputting information such as personal details				
Data Storage	Saves up to 100,000 measurements (When ID is entered)				
Test Mode	Professional Mode and Self Mode				
Dimensions	415.5 (W) × 871.5 (L) × 1069.9 (H) mm 16.3 (W) × 34.3 (L) × 42.1 (H) in				
Equipment Weight	16kg(35.3lb)				
Applied Rating Current	200 μA (±20 μA)				
Adapter	Bridgepower (BPM040S12F07)	Power Input AC 100-240V, 50-60Hz, 1.2A (1.2A-0.6A) Power Output DC 12V, 3.4A			
	Mean Well (GSM40A12)	Power Input AC 100-240V, 50-60Hz, 1.0-0.5A Power Output DC 12V, 3.34A			
Operation Environment	10 - 40 °C (50 - 104 °F), 30 - 75 % RH (No Condensation), 70 - 106 kPa				
Storage Environment	-10 - 70 °C (14 - 158 °F), 10 - 80% RH (No Condensation), 50 - 106 kPa				

- The above content is subject to change without prior notice for the purpose of improving product appearance and performance.
- Note that this is a medical device, and use it with proper care and knowledge of its precautions and instructions.

- The results about Blood Pressure or Hand Grip Strength are only available when integrated with InBody Blood Pressure Monitor (BPBIO Series) or InBody Handgrip Dynamometer (IB-HGS).
- QR Code is registered trademark of DENSO WAVE INCORPORATED.

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Certifications obtained by InBody



InBody's Intellectual Property Rights



For more details about the patents that we acquired, please visit our website or refer to the patent gazette of intellectual property office of each country.