A New Standard for Body Water Analysis —





### A New Standard for Body Water Analysis

In the last 20 years, body composition analysis has established itself as a standard practice in various fields, and InBody has continuously strived to further expand its application to specialized areas, such as dialysis, rehabilitation, nutrition, and etc.

With the need for the precise measurement of body water, InBody introduces a new standard for body water analysis, BWA 2.0.

The BWA 2.0 is equipped with state-of-the-art 3MHz technology and provides extensive research parameters for professionals to better suit diverse patients with different conditions and medical specialties than ever before.







Cole-Cole Plot Graph for Monitoring Changes in Body Water and Cellular Integrity



Statistical Analysis by Age, Based on InBody Big Data



Clamp Electrode for High Reproducibility





Covering Wide Range of Subjects / Patients and Conditions



Extensive Research Parameters for Professionals



## **BWA** Highlights

## Cole-Cole Plot Graph for Monitoring Changes in Body Water and Cellular Integrity

With Cole-Cole plot graph, BWA provides accurate Segmental Body Phase Angle measurements at 5, 50, and 250kHz enhancing sensitivity to the changes in fluid and cellular integrity resulting from various diseases and conditions.

### Statistical Analysis by Age, Based on InBody Big Data

Based on 13 million sets of InBody Big Data, InBody provides averages and standard deviation graphs for each result parameter according to age. It allows for comparative evaluation between different or same age groups for a more objective body composition analysis.

### Clamp Electrode for High Reproducibility

The Clamp Electrode is a combination of two forcep electrodes, which acts as an indicator attached to the wrist and ankle for high reproducibility. The flexible design of the forcep ensures the electrodes to closely adhere to wrist and ankle even during the articular movements.

### Covering Wide Range of Subjects / Patients and Conditions

More precise results can be obtained and utilized by entering the patient status information such as amputation, paralysis, lymphedema, and vascular access region.

### **Extensive Research Parameters for Professionals**

Select from a range of distinct optional parameters for clinical and research purposes. - Water Control Calculator: to set target ECW Ratio

- Age-specific graph: to evaluate and compare the body composition result by age
- BIVA (Bioelectrical Impedance Vector Analysis): to evaluate the hydration and nutritional status in comparison to their demographic group

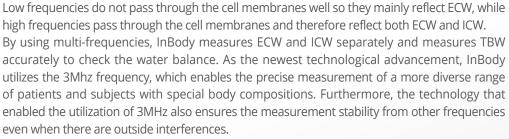


### InBody Technology on BWA

### Body Composition Evaluation by Age Based on InBody Big Data

InBody provides age-specific graphs for each body composition analysis parameter based on globally accumulated InBody Data. With this, a comprehensive analysis is provided so that you can compare your data to the data of the young age group (T-score) and the same age group (Z-score).

### Multi-Frequency for In-Depth Analysis



\* ECW: Extracellular Water, ICW: Intracellular Water, TBW: Total Body Water

### High Reproducibility and Accuracy Assured by 16-Point Clamp Electrodes

The 16-Point Clamp Electrodes were developed in a way so that the electrodes can be positioned on the wrist and ankle bone. It allows the instructor to place the electrode in the proper position and secures the reproducibility by minimizing the measurement errors. This technology also exempted the resistance from the hands and feet, which secures a more accurate results. With the 16-Point Clamp Electrodes, two different measurement modes are provided which enables users to choose between Research (Distal) and Medical (Proximal), depending on their purposes.

### Multi-frequency Reactance Data for Enhanced Clinical Use

Reactance is a resistance that occurs in cell membranes, which is related to the cellular health such as somatic cell mass, structural integrity, and physiological functional level of the cell. Besides 50kHz, InBody improved segmental reactance measurement technology in 5kHz, 250kHz as well. Through this, InBody provides more parameters which can be used in various clinical fields to pre-screen diseases and evaluate nutritional status.

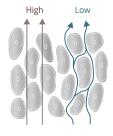
#### **Direct Segmental Measurement-BIA**

Each of our body segments is different in length and cross-sectional area. Arms and legs are longer and narrower in comparison to the trunk, so their impedance values are higher than the trunk. On the other hand, the trunk is shorter and wider than the arms and legs, so its impedance value is lower. However, the trunk muscle mass accounts for almost half of the whole body muscle mass, which is why a small impedance change in the trunk has a greater impact on the amount of whole body muscle mass. Therefore, the trunk must be measured separately in order to measure the whole body muscle mass accurately.

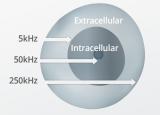
### Impedence Age Gender

### **No Estimations or Empirical Equations**

In the past, the conventional BIA devices used empirical estimations to compensate technological limitations of whole body measurement and use of single low frequency. To calculate the body composition by these conventional BIA devices, they needed to add statistical data such as age and gender in order to calculate results. However, InBody overcame these limitations with technologies of using Multi-Frequency, Direct Segmental Measurement, and 16-Point Clamp Electrodes System so that BWA provides results that are not affected by age, ethnicity or gender. Only reference ranges or scores based on age and gender are used as a basis for evaluating the values determined.









### **BWA** Application

### **Nutrition**

## Monitor body composition change for nutritional evaluation.

Kim, H.S., Lee, E.S., Lee, Y.J., Jae Ho Lee, C. T.L., & Cho, Y.J (2015) Clinical Application of Bioelectrical Impedance Analysis and its Phase Angle For Nutritional Assessment of Critically III Patients. Journal of the Korean Society for Parenteral and Enteral Nutrition, 7(2), 54-61

#### Nephrology

## Obtain useful insights on dialysis patients' hydration and nutrition status.

Ando, M., Suminaka, T., Shimada, N., Asano, K., Ono, J. I., Jikuya, K., & Mochizuki, S. (2018). Body water balance in hemodialysis patients reflects nutritional, circulatory, and body fluid status. Journal of Biorheology, 32(2), 46-55.

#### Geriatric

# Monitor muscle mass and muscle imbalances to screen sarcopenia with SMI, which are related to risks of fall and frailty.

Yoshimura, Y., Wakabayashi, H., Bise, T., & Tanoue, M. (2018). Prevalence of sarcopenia and its association with activities of daily living and dysphagia in convalescent rehabilitation ward inpatients. Clinical Nutrition, 37(6), 2022-2028.

### **Rehabilitation**

#### Monitor injury and post-surgical recovery.

Yoshimura, Y., Bise, T., Nagano, F., Shimazu, S., Shiraishi, A., Yamaga, M., & Koga, H. (2018). Systemic inflammation in the recovery stage of stroke: its association with sarcopenia and poor functional rehabilitation outcomes. Progress in Rehabilitation Medicine, 3, 20180011.

### Cardiology

#### Pre-screen the risk factors of cardiovascular disease.

Thomas, E., Gupta, P. P., Fonarow, G. C., & Horwich, T. B. (2019). Bioelectrical impedance analysis of body composition and survival in patients with heart failure. Clinical cardiology, 42(1), 129-135.

#### **Professional Sports**

### Manage body composition to enhance performance and minimize injury risk.

Almăjan-Guţă, B., Rusu, A. M., Nagel, A., & Avram, C. (2015). Injury frequency and body composition of elite Romanian rugby players. Timisoara Physical Education and Rehabilitation Journal, 8(15), 17-21.









### Validations of More Than 3,000 Research Papers

#### Study 1

#### HIGH ACCURACY AND REPRODUCIBILITY OF FAT FREE MASS & PERCENT BODY FAT MEASUREMENTS COMPARED WITH DEXA

The measurement (mean  $\pm$  SD) for FFM with DXA was 52.8  $\pm$  11.0, and BIA was 53.6  $\pm$  11.0. Delta (S-MFBIA vs DXA) was  $0.8 \pm 2.2$  (5% limits of agreement -3.5 to +5.2), and concordance correlation coefficient (CCC) was 0.98 (95% CI. 0.97–0.98). The measurements (mean ± SD) for PBF with DXA was 37.5 ± 10.6% and S-MFBIA was 36.6 ± 11.3%. Delta (S-MFBIA vs DXA) was -0.9 ± 2.6 (5% limits of agreement 6.0 to +4.2), and CCC was 0.97 (95% CI, 0.96-0.98).

Hurt, Ryan T., et al. "The Comparison of Segmental Multifrequency Bioelectrical Impedance Analysis and Dual-Energy X-ray Absorptiometry for Estimating Fat Free Mass and Percentage Body Fat in an Ambulatory Population." Journal of Parenteral and Enteral Nutrition (2020).

#### Study 2

### HIGH CORRELATION WITH D20 DILUTION METHOD FOR TOTAL BODY WATER

The study concluded that the BIA device InBodyS10 showed good test-retest precision (%CV = 5.2 raw; 1.1 after outlier removal) and high accuracy to D<sub>2</sub>O for Total Body Water[TBWD<sub>2</sub>O = 0.956 TBWBIA, R<sup>2</sup>= 0.92, root mean squared error(RMSE) = 2.2kg]. %Fat estimates from DXA, ADP, D<sub>2</sub>O, and BIA all showed high correlation with the Lohman model.

Ng, Bennett K., etal. "Validation of rapid 4-component body composition assessment with the use of dual-energy X-ray absorptiometry and bioelectrical impedance analysis."

The American journal of clinical nutrition 108.4 (2018) :708-715.

#### Study 3

### HIGH ACCURACY WITH COMPUTED TOMOGRAPHY FOR MUSCLE MASS

It was suggested that estimating muscle mass using DXA and BIA(InBody720) is a preferred method for diagnosis of sarcopenia in kidney transplant recipients. Both DXA and InBody showed high correlation with CT.

Yanishi, M., etal."Dual energy X-ray absorptiometry and bioimpedance analysis are clinically useful for measuring muscle mass in kidney transplant recipients with sarcopenia."

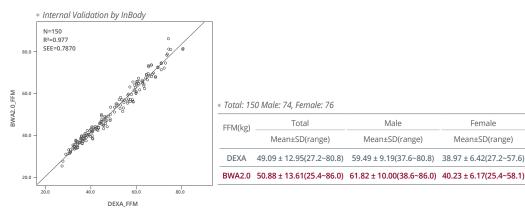
Transplantation proceedings.Vol.50.No.1.Elsevier, 2018.

#### Study 4

#### HIGH CORRELATION OF FAT FREE MASS BETWEEN DEXA AND BWA2.0

Total of 150 results were analyzed, excluding duplicate data from the same subject. Fat Free Mass measured by BWA2.0 had a very high correlation with DEXA of R<sup>2</sup>=0.977 or higher. (P value < 0.05)

Female









## Extensive Research Parameters for Professionals

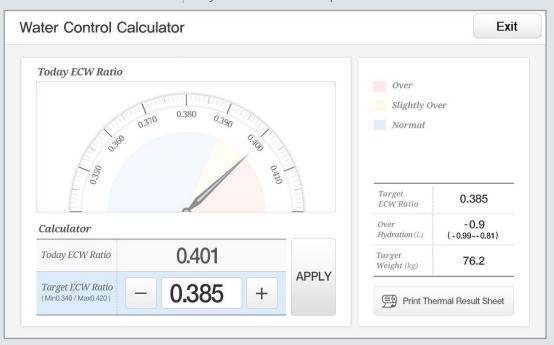
Select from a range of optional parameters for clinical and research purposes



Water Control Calculator

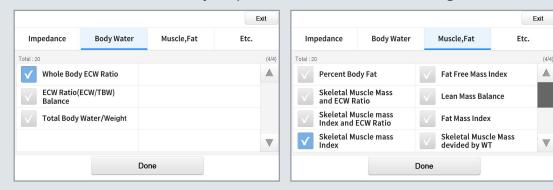
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Set the Target ECW Ratio depending on the hydration status of dialysis and heart failure patients.



## Up to 20 Optional Parameters

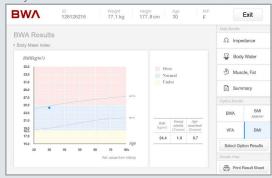
Provides up to 20 optional parameters for a customized experience. Select from parameters, such as age-specific graph, segmental analysis, and body composition results that are available at a glance.



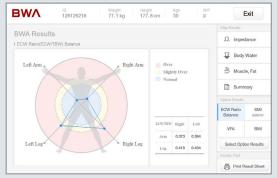
### Skeletal Muscle mass Index



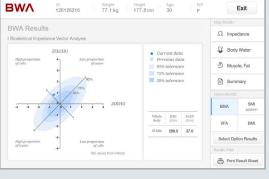
#### Body Mass Index



#### ECW Ratio (ECW/TBW) Balance







## Product Overview

Various Features and Optional Components of BWA





LCD Sharp 10.1" touch screen



InBody USB Easy data back up with InBody USB



Thermal Printer (Optional) Easy-print out BWA results



Clamp Electrode

Patented dual forcep structure of Clamp Electrodes ensures high reproducibility



BWA Cart Customized BWA Cart to easily arrange the Clamp Electrodes







BWA Portable Case (Optional) Convenient way of carrying BWA for mobility



Test Posture Measurable in a lying, seated or standing position

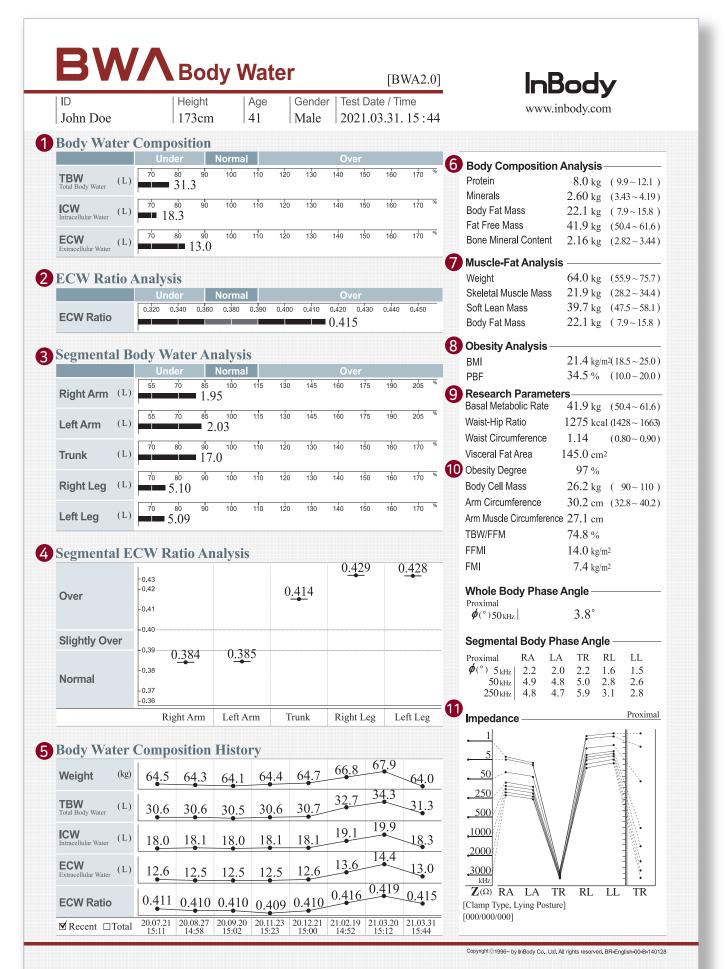




Adhesive Electrodes and Tape (Optional) BWA Electrode Tapes for patients with difficulty in using Clamp Electrode



## Body Water Result Sheet



## Result Sheet Interpretation

### **1** Body Water Composition

50-70% of our body is composed of water. Body water is distributed between all the cells and fluids in our body. Most of it is present in the cells while the rest is in the form of blood and interstitial fluid. The water inside the cell membrane is called intracellular water, and the water outside the cell membrane is called extracellular water.

### **2** ECW Ratio Analysis

The extracellular water ratio shows the balance status of body water. The ratio between intra and extracellular water remains constant at about 3:2 ratio in healthy individuals, and when this balance is broken down edema may occur.

### **3** Segmental Body Water Analysis

Segmental Body Water Analysis helps to understand the water balance by analyzing the total body water in each part of the body. Changes in body water corresponds to the changes in muscle mass. However, in the case of a subject who has health issue, the amount of body water may increase even if there is no increase in muscle mass. Therefore, it is necessary to check whether Extracellular Water Ratio is normal in segments.

### **4** Segmental ECW Ratio Analysis

Segmental ECW Ratio is displayed in a graph so you can easily determine if the ICW and ECW are balanced. By analyzing the ECW Ratio, you can assess if there is a problem with body water circulation. This can help monitor the recovery of post-surgery or hemodialysis patients.

### **5** Body Water Composition History

Body Water History provides the changes in Weight, Skeletal Muscle Mass, Intracellular Water, Extracellular Water, Extracellular Water Ratio. Take the BWA test periodically to monitor your progress.

### 6 Body Composition Analysis

Body composition is a method of describing what the body is made of. BWA offers quantitative values and normal ranges for four core body components: Body Water, Protein, Minerals, and Fat.

### 7 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.

### 8 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, while damage or a decrease in function will result in a decrease in the Phase Angle.

### 9 Segmental Body Phase Angle

Segmental Phase Angle indicates the Phase Angle of each part of the body, representing the level of structural integrity and function of the cell membrane.

### Bioeletrical Impedance Vector Analysis

BIVA stands for Bioelectrical Impedance Vector Analysis. The position of the tested subject is located on a graph which is based on the measured Resistance (R) and Reactance (Xc) for evaluation. The relative position is evaluated and monitored to see the changes in body water and muscle mass in a set period time for the tested subject.

### 1 Impedance

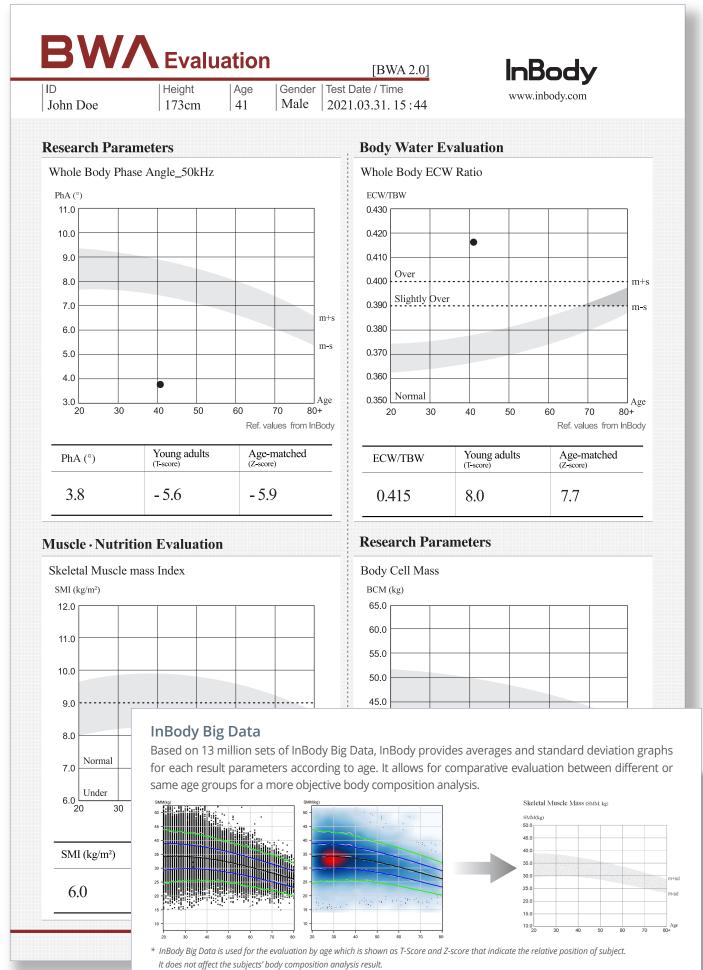
Impedance is the resistance that occurs when weak alternating current is applied to the human body. BWA visualizes the impedance with the graph, so you can easily detect if there is reversed impedance error by checking crossed lines in the impedance graph. Below the impedance graph, you can also check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



## Body Composition Result Sheet

ID	Height	Age	Gende	er   Test Date	[BWA2.0] e / Time	InBody
John Doe	173cm	41	Male	2021.03	3.31.15:44	www.inbody.com
Body Compos	sition Analysis					
v T	Values Total Body	/ Water Soft Lea	in Mass 🛛 I	Fat Free Mass	Weight	InBody Score
Total Body Water(L)	$\begin{array}{c c} 31.3\\ (37.0 \sim 45.2) \end{array}$ 31.1	3 39	7			
Protein (kg)	8.0	(47.5 ~	- 58.1)	41.9 (50.4 ~ 61.6)	64.0	/ 100 Points
-	( 9.9 ~ 12.1 )			(50.4 ~ 01.0)	(55.9 ~ 75.7)	* Total score that reflects the evaluation of body composition. A muscular person may score over
Minerals (kg)	2.60 (3.43 ~ 4.19)					100 points. Visceral Fat Area
Body Fat Mass (kg)	22.1 (7.9 ~ 15.8)					
	· /					200-
Muscle-Fat A	U					150- 1145.0
	Under Nor 55 70 85 10		145	Over	190 205 %	150-
Weight (kg)		64.0				100
SMM Skeletal Muscle Mass (kg)	<sup>70</sup> 80 90 10	0 110 120	130	140 150	160 170 %	50 -
Body Fat Mass (kg)	40 60 80 10			340 400	460 520 %	
			22.1			20 40 60 80 Age
Obesity Analy	ysis					Weight Control
ſ	Under Nor			Over	500 550	Target Weight 65.9 kg
BMI Body Mass Index (kg/m <sup>2</sup> )	10.0 15.0 18.5 22	.0 25.0 30.0 21.4	0 35.0	40.0 45.0	50.0 55.0	Weight Control + 1.9 kg
PBF (%)	0.0 5.0 10.0 15	.0 20.0 25.0	) 30.0	<sup>35.0</sup> 40.0	45.0 50.0	Fat Control -12.2 kg Muscle Control + 14.1 kg
Segmental Le	0		-		rent weight	Research Parameters Intracellular Water 18.3 L (23.0~28.0)
Segmental Le	Under Nor	mal	Over	r	ECW Ratio	Research ParametersIntracellular Water18.3 L(23.0~28.0)Extracellular Water13.0 L(14.0~17.2)
Segmental Le	0	mal	Over		-	Research ParametersIntracellular Water18.3 L(23.0~28.0)Extracellular Water13.0 L(14.0~17.2)Basal Metabolic Rate1275 kcal (1428~1663)
Right Arm (kg) (%)	Under Nor 55 70 85 10 2.50 82.1 55 70 85 10	mal 0 115 130	Over 145	r	ECW Ratio 0.384	Research ParametersIntracellular Water18.3 L(23.0~28.0)Extracellular Water13.0 L(14.0~17.2)
Right Arm (kg) (%)	Under Nor 55 70 85 10 2.50 82.1 55 70 85 10 2.61 85.6	mal 0 115 130 0 115 130	Over 145 145	160 175 160 175	ECW Ratio	Research Parameters           Intracellular Water         18.3 L         (23.0~28.0)           Extracellular Water         13.0 L         (14.0~17.2)           Basal Metabolic Rate         1275 kcal (1428~1663)           Waist-Hip Ratio         1.14         (0.80~0.90)
Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg)	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           70         80         90         10           21.6         21.6         21.6	mal 0 115 130 0 115 130	Over 145 145	160 175	ECW Ratio 0.384	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Right Arm   (kg) (%)     Left Arm   (kg) (%)     Trunk   (kg) (%)	Under Nor 55 70 85 10 2.50 82.1 55 70 85 10 2.61 85.6 70 80 90 10 88.7 70 80 90 10	mal 0 115 130 0 115 130 0 115 130	Over 145 145 145 145 130	160 175 160 175	ECW Ratio           0.384           0.385           0.414	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Right Arm   (kg) (%)     Left Arm   (kg) (%)     Trunk   (kg) (%)	Under Nor 55 70 85 10 82.1 55 70 85 10 2.50 82.1 55 70 85 10 2.6 70 80 90 10 21.6 88.7 70 80 90 10 6.45 76.2	mal   0 115 130 0 115 130 0 110 120 0 110 120	Over 145 145 0 130	160 175 160 175 140 150 140 150	ECW Ratio           0.384           0.385	Research ParametersIntracellular Water18.3 L $(23.0 \sim 28.0)$ Extracellular Water13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate1275 kcal (1428 ~ 1663)Waist-Hip Ratio1.14 $(0.80 \sim 0.90)$ Body Cell Mass26.2 kg $(32.8 \sim 40.2)$ SMI6.0 kg/m²Whole Body Phase AngleProximal $\phi(^{\circ})$ 50 kHz3.8°
Right Arm       (kg) (%)         Left Arm       (kg) (%)         Trunk       (kg) (%)         Right Leg       (kg) (%)         Left Leg       (kg)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	mal   0 115 130 0 115 130 0 110 120 0 110 120	Over 145 145 0 130	160 175 160 175 160 175 140 150	ECW Ratio           0.384           0.385           0.414	Research ParametersIntracellular Water18.3 L $(23.0 \sim 28.0)$ Extracellular Water13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate1275 kcal (1428 ~ 1663)Waist-Hip Ratio1.14 $(0.80 \sim 0.90)$ Body Cell Mass26.2 kg $(32.8 \sim 40.2)$ SMI6.0 kg/m²Whole Body Phase AngleProximal $\phi(°) 50 \text{ kHz}$ $3.8^\circ$ Segmental Body Phase AngleProximalRALATRRALATRRLLL
Right Arm    (kg)      Left Arm    (kg)      Trunk    (kg)      (%)    (%)      Right Leg    (kg)      Left Leg    (kg)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	mal   0 115 130 0 115 130 0 110 120 0 110 120	Over 145 145 0 130	160 175 160 175 140 150 140 150	ECW Ratio           0.384           0.385           0.385           0.414           0.429           %	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428 ~ 1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m <sup>2</sup> Whole Body Phase Angle       Proximal
Right Arm    (kg)      Left Arm    (kg)      Trunk    (kg)      (%)    (%)      Right Leg    (kg)      Left Leg    (kg)	Under Nor 55 70 85 10 2.50 82.1 55 70 85 10 2.61 85.6 70 80 90 10 6.45 70 80 90 10 6.43 75.9 55 70 80 90 10 6.43 75.9	mal   0 115 130 0 115 130 0 110 120 0 110 120 0 110 120	Over 145 145 0 130	160         175           160         175           140         150           140         150           140         150           140         150	ECW Ratio           0.384           0.385           0.385           0.414           0.429           %	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428 ~ 1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m <sup>2</sup> Proximal
Right Arm       (kg)         Left Arm       (kg)         Trunk       (kg)         Right Leg       (kg)         Left Leg       (kg)         ECW Ratio A	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	mal	Over 145 145 145 145 145 130 130 130	160 175 160 175 140 150 140 150	ECW Ratio           0.384           0.385           0.385           0.414           0.429           %	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428 ~ 1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz         3.8°         Segmental Body Phase Angle         Proximal       RA $\phi(°)$ 5 kHz       2.2       2.0       2.2       1.6       15 $\phi(°)$ 5 kHz       4.9       4.8       5.0       2.8       2.6
Right Arm       (kg) (%)         Left Arm       (kg) (%)         Trunk       (kg) (%)         Right Leg       (kg) (%)         Left Leg       (kg) (%)	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           2.61         85.6         10           70         80         90         10           6.45         76.2         70         80           70         80         90         10           6.43         75.9         10           75.9         5.9         10	mal	Over 145 145 145 145 145 130 130 130	160         175           160         175           140         150           140         150           140         150           140         150           140         150           0.420         0.430	ECW Ratio 0.384 0.385 0.414 0.429 0.428	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428 ~ 1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m <sup>2</sup> Proximal
Right Arm       (kg)         Left Arm       (%)         Trunk       (kg)         Right Leg       (kg)         C%)       (%)         Left Leg       (%)         ECW Ratio       ECW Ratio	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           6.45         90         10           6.45         76.2         70           70         80         90         10           6.43         75.9         10           6.43         75.9         10           6.43         0.360         0.3	mal	Over           145           145           145           130           130           130           130           0           0           0	160         175           160         175           140         150           140         150           140         150           140         150           0.420         0.430	ECW Ratio 0.384 0.385 0.414 0.429 0.428	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°) 50 \text{ kHz}$ 3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL $\phi(°) 50 \text{ kHz}$ 2.2       2.0       2.2       1.6       15 $50 \text{ kHz}$ 4.9       4.8       5.0       2.8       2.6 $250 \text{ kHz}$ 4.9       4.8       5.0       2.8       2.8         Impedance         Proximal $1 = 5$ Proximal
Right Arm       (kg)         Left Arm       (kg)         Trunk       (%)         Right Leg       (kg)         C%)       (%)         Left Leg       (%)         ECW Ratio       ECW Ratio         Body Composition       Composition	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           6.45         90         10           6.45         76.2         80         90         10           6.43         75.9         9         10           6.43         75.9         10         10           6.320         0.340         0.360         0.3	mal	Over           145           145           145           145           130           130           130           130	160       175         160       175         140       150         140       150         140       150         140       150         0.420       0.430         0.415	ECW Ratio 0.384 0.385 0.414 0.429 0.428	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz         3.8°         Segmental Body Phase Angle         Proximal       RA         LA       TR         Proximal       RA         Value       2.2         Proximal       RA         LA       TR         Proximal       RA         LA       TR         SolkHz       2.2         SolkHz       4.9         4.8       5.0         250 kHz       4.8         Sol       2.8         Impedance       Proximal         Impedance       Proximal
Right Arm       (kg)         Left Arm       (%)         Trunk       (kg)         Right Leg       (kg)         C%)       (%)         Left Leg       (%)         ECW Ratio       ECW Ratio	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           6.45         90         10           6.45         76.2         70           70         80         90         10           6.43         75.9         10           6.43         75.9         10           6.43         0.360         0.3	mal	Over           145           145           145           130           130           130           130           0           0           0	160       175         160       175         140       150         140       150         140       150         140       150         0.420       0.430         0.415       66.8	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL $\phi(°)$ 50 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.8       4.7       5.9       3.1       2.8         Impedance       Proximal       Impedance       Proximal         1       50       50       50       50       50
Right Arm       (kg)         Left Arm       (kg)         Trunk       (kg)         Right Leg       (kg)         Right Leg       (kg)         Left Leg       (kg)         ECW Ratio       A         ECW Ratio       Body Composition         Weight       (kg)         Kight       (kg) <td< td=""><td>Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         90         10           64.5         64.3         90         10           64.45         90         10         6.45           70         80         90         10           64.43         75.9         75.9</td><td>mal      </td><td>Over 145 145 145 145 145 145 130 130 0 0.410 0 0.410</td><td>160       175         160       175         140       150         140       150         140       150         140       150         0.420       0.430         0.415       66.8</td><td>ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428</td><td>Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal       RA       LA       TR       RL       LL</td></td<>	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         90         10           64.5         64.3         90         10           64.45         90         10         6.45           70         80         90         10           64.43         75.9         75.9	mal	Over 145 145 145 145 145 145 130 130 0 0.410 0 0.410	160       175         160       175         140       150         140       150         140       150         140       150         0.420       0.430         0.415       66.8	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal       RA       LA       TR       RL       LL
Right Arm       (kg)         Left Arm       (%)         Left Arm       (%)         Trunk       (kg)         Right Leg       (%)         Left Leg       (%)         ECW Ratio       ECW Ratio         Body Compos       Weight         Weight       (kg)	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         2.61           88.7         70         88.7           70         6.45         90         10           6.43         76.2         70         6.43           75.9         75.9         10         10           6.43         75.9         10         10           64.5         64.3         64         24           21.5         64.3         64         24	mal $115$ $13c$ 0 $115$ $13c$ 0 $115$ $13c$ 0 $110$ $12c$ mal	Over 145 145 130 130 130 0 0.410 0 0.410 64.7 21.7	160       175         160       175         140       150         140       150         140       150         140       150         0.420       0.430         0.415       0.415	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.440 0.450 7.9 64.0 4.0 21.9	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL $\phi(°)$ 50 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.9       4.8       5.0       2.8       2.6         250 kHz       4.8       4.7       5.9       3.1       2.8         Impedance       Proximal       Image: Proximal
Right Arm       (kg)         Left Arm       (kg)         Trunk       (kg)         Right Leg       (kg)         Right Leg       (kg)         Left Leg       (kg)         ECW Ratio       A         ECW Ratio       Body Composition         Weight       (kg)         Kight       (kg) <td< td=""><td>Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         2.61           88.7         70         88.7           70         6.45         90         10           6.43         76.2         70         6.43           75.9         75.9         10         10           6.43         75.9         10         10           64.5         64.3         64         24           21.5         64.3         64         24</td><td>mal       mal         0       <math>1\dot{1}5</math> <math>1\dot{3}c</math>         0       <math>1\dot{1}5</math> <math>1\dot{3}c</math>         0       <math>1\dot{1}5</math> <math>1\dot{3}c</math>         0       <math>1\dot{1}0</math> <math>1\dot{2}c</math>         0       <math>1\dot{1}0</math> <math>1\dot{2}c</math>         0       <math>1\dot{1}0</math> <math>1\dot{2}c</math>         0       <math>1\dot{1}0</math> <math>1\dot{2}c</math>         mal      </td><td>Over 145 145 145 145 145 145 130 130 0 0.410 0 0.410</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428</td><td>Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal       <math>\phi(°)</math> 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL         <math>\phi(°)</math> 50 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.9       4.8       5.0       2.8       2.6         250 kHz       4.8       4.7       5.9       3.1       2.8         Impedance       Proximal       Image: Algo and Algo</td></td<>	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         2.61           88.7         70         88.7           70         6.45         90         10           6.43         76.2         70         6.43           75.9         75.9         10         10           6.43         75.9         10         10           64.5         64.3         64         24           21.5         64.3         64         24	mal       mal         0 $1\dot{1}5$ $1\dot{3}c$ 0 $1\dot{1}5$ $1\dot{3}c$ 0 $1\dot{1}5$ $1\dot{3}c$ 0 $1\dot{1}0$ $1\dot{2}c$ 0 $1\dot{1}0$ $1\dot{2}c$ 0 $1\dot{1}0$ $1\dot{2}c$ 0 $1\dot{1}0$ $1\dot{2}c$ mal	Over 145 145 145 145 145 145 130 130 0 0.410 0 0.410	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL $\phi(°)$ 50 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.9       4.8       5.0       2.8       2.6         250 kHz       4.8       4.7       5.9       3.1       2.8         Impedance       Proximal       Image: Algo and Algo
Right Arm       (kg)         Left Arm       (kg)         Left Arm       (kg)         Trunk       (kg)         Right Leg       (kg)         Right Leg       (kg)         Left Leg       (kg)         ECW Ratio       ECW Ratio         Body Compos       Weight       (kg)         Skeletal Muscle Mass       (kg)         PBF       (%)	Under Nor 55 70 85 10 2.50 82.1 55 70 85 10 2.61 85.6 70 80 90 10 2.61 88.7 70 80 90 10 2.61 88.7 70 80 90 10 6.45 75.9 70 80 90 10 6.45 75.9 <b>Indlysis</b> Under Nor 0.320 0.340 0.360 0.3 <b>Sition History</b> 64.5 64.3 64 21.6 21 35.0 34.8 34	mal $115$ $13c$ 0 $115$ $13c$ 0 $115$ $13c$ 0 $115$ $13c$ 0 $110$ $12c$ 0 $110$ $12c$ 0 $110$ $12c$ 0 $110$ $12c$ mal	Over 145 145 145 145 145 145 130 130 130 0 0.410 64.7 21.7 35.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ECW Ratio 0.384 0.385 0.414 0.429 0.429 0.428 0.428 0.428 0.429 0.428 0.429 0.428 0.429 0.429 0.428 0.429 0.428 0.414 0.429 0.429 0.428 0.414 0.429 0.428 0.414 0.429 0.428 0.414 0.429 0.428 0.414 0.429 0.428 0.414 0.428 0.414 0.429 0.448 0.429 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.449 0.448 0.448 0.448 0.448 0.448 0.448 0.449 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.448 0.449 0.448 0.448 0.448 0.448 0.449 0.448 0.448 0.449 0.448 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.449 0.448 0.449 0.448 0.449 0.448 0.449 0.449 0.449 0.449 0.448 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449 0.449	Research Parameters         Intracellular Water       18.3 L       (23.0~28.0)         Extracellular Water       13.0 L       (14.0~17.2)         Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14       (0.80~0.90)         Body Cell Mass       26.2 kg       (32.8~40.2)         SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL       LL $\phi(°)$ 55 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.9       4.8       5.0       2.8       2.6         250 kHz       4.8       4.7       5.9       3.1       2.8         Impedance       Proximal       Image: Alternative Alternatit Alternatit Alteralin Alternative Alternative Alternative Alter
Right Arm       (kg)         Left Arm       (kg)         Left Arm       (kg)         Trunk       (kg)         Right Leg       (kg)         Right Leg       (kg)         Left Leg       (kg)         ECW Ratio       ECW Ratio         Body Composition       Weight       (kg)         SMM       (kg)       (kg)         PBF       (%)       (%)	Under         Nor           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         85         10           55         70         80         2.61           88.7         70         88.7           70         6.45         90         10           6.43         76.2         70         6.43           75.9         75.9         10         10           6.43         75.9         10         10           64.5         64.3         64         24           21.5         64.3         64         24	mal $115$ $13c$ 0 $115$ $13c$ 0 $115$ $13c$ 0 $115$ $13c$ 0 $110$ $12c$ 0 $110$ $12c$ 0 $110$ $12c$ 0 $110$ $12c$ mal	Over 145 145 145 145 145 145 130 130 130 0 0.410 64.7 21.7 35.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428	Research Parameters         Intracellular Water       18.3 L $(23.0 \sim 28.0)$ Extracellular Water       13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate       1275 kcal (1428~1663)         Waist-Hip Ratio       1.14 $(0.80 \sim 0.90)$ Body Cell Mass       26.2 kg $(32.8 \sim 40.2)$ SMI       6.0 kg/m²         Whole Body Phase Angle         Proximal $\phi(°)$ 50 kHz       3.8°         Segmental Body Phase Angle         Proximal       RA       LA       TR       RL       LL $\phi(°)$ 50 kHz       2.2       2.0       2.2       1.6       15         50 kHz       4.9       4.8       5.0       2.8       2.6         250 kHz       4.8       4.7       5.9       3.1       2.8         Impedance         Impedance       Proximal $\frac{1}{5}$ 500 $\frac{1}{250}$ $\frac{1}{5}$ <t< td=""></t<>

### **Evaluation Result Sheet**



\* Depending on the country, the graph will be set differently.

# **BWA** Research

D  John Doe		eight 73cm	Age   41	Gender Male	Test Date 2021.03.	/ Time 31. 15 : 44
Body Compo	osition Su	ummary				
	FFM	FM	ICW	ECW	TBW	ECW/TBW
Right Arm	2.50 kg	1.6 kg	1.20 L	0.75 l	1.95 l	0.384
Left Arm	2.61 kg	$1.5\mathrm{kg}$	1.25 L	0.78 L	2.03 L	0.385
Trunk	21.6 kg	12.5kg	10.0 L	7.0 L	17.0 l	0.414
Right Leg	6.45 kg	$2.6\mathrm{kg}$	2.91 l	2.19 L	5.10 l	0.429
Left Leg	6.43 kg	$2.6\mathrm{kg}$	2.91 l	2.18 L	5.09 l	0.428
Whole Body	41.9 kg	22.1 kg	18.3 l	13.0 L	31.3 l	0.415
Weight		64.0 kg		nce between the al values are fro		values and sum ervical region.

ECW ICW ..... Lean Mass **Body Composition Analysis** Fat Mass ECW/TBW : Normal Whole Body 70 = 41.9 90 100 110 120 140 150 160 170 130 (kg) (L) **18.3** (L) 13.0 22.1(223.6%) \_\_\_\_ (kg) 0.340 0.360 0.380 0.390 0.400 0.320 0.410 0.420 0.430 0.440 0.450 0.415 <sup>85</sup> 2.50 100 115 130 145 160 175 190 205 **Right Arm** 55 (kg) 1.20 (L) (L) 0.75 (kg) 1.6(266.8%) 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 0.384 Left Arm 55 70 <sup>85</sup> 2.61 100 115 130 145 160 175 190 205 (kg) 1.25 (L) (L) 0.78 1.5(260.1%) (kg) 0.340 0.360 0.380 0.390 0.320 0.400 0.410 0.420 0.440 0.450 0.430 0.385 <sup>90</sup> 21.6 110 170 % 100 120 130 140 150 160 Trunk 70 (kg) (L) 10.0 (L) = 7.0 **12.5(300.6%)** (kg) 0.360 0.390 0.320 0.340 0.380 0.400 0.410 0.420 0.430 0.450 0.440 0.414 **Right Leg** 70 90 100 110 120 130 140 150 160 170 80 6.45 (kg) (L) 2.91 = 2.19(L)(kg) 2.6(151.5%) 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 0.429 <sup>70 80</sup> 100 110 120 130 140 150 160 170 96 70 90 Left Leg (kg) 2.91 (L) (L) 2.18 (kg) **2.6(151.6%)** 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 0.428

www.inbody.com **Research Parameters** Body Mass Index  $21.4 \text{ kg/m}^2(18.5 \sim 25.0)$ Percent Body Fat 34.5 % (10.0~20.0) Skeletal Muscle Mass  $21.9 \, \text{kg}$  (28.2~34.4) Soft Lean Mass 39.7 kg (47.5~58.1) Protein  $8.0 \, \text{kg}$  (  $9.9 \sim 12.1$  ) Mineral  $2.60 \, \text{kg}$  (3.43~4.19) Bone Mineral Content 2.16 kg (2.82~3.44) Basal Metabolic Rate 1275 kcal (1428~1663) Waist Hip Ratio 1.12  $(0.80 \sim 0.90)$ Waist Circumference 100.8 cm Visceral Fat Area  $145.0\,\mathrm{cm^2}$ Obesity Degree 97% (  $90\sim110$  ) Body Cell Mass  $26.2 \, \mathrm{kg}$  (32.8~40.2) Arm Circumference 30.2 cm Arm Muscle Circumference 27.1 cm TBW/FFM 74.8%

 $14.0 \, \text{kg/m^2}$ 

 $7.4 \, \text{kg/m}^2$ 

Fat Free Mass Index

Fat Mass Index

#### Skeletal Muscle mass Index 6.0 kg/m<sup>2</sup> Whole Body Phase Angle Proximal $\phi(^{\circ})_{50 \text{ kHz}}$ 3.8 Segmental Body Phase Angle LL Proximal RA LA TR RL $\phi^{(\circ)}_{5 \text{ kHz}}$ | 2.2 2.0 2.2 1.5 1.6 $50 \, \mathrm{kHz}$ 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Proximal Impedance 1 50 250 500 1000 2000 54 3000 ..... kHz $\overline{\mathbf{Z}}(\Omega)$ $\overline{\mathbf{RA}}$ LA TR RL LL TR [Clamp Type, Lying Posture] [000/000/000]

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#### [BWA2.0]

## InBody

## Comparison Result Sheet

D John Doe	Height	Age 41	Gender Male	[BWA2.0] Test Date / Time 2021.03.31.15:44 InBody www.inbody.com
Whole Body	Today	Recent	Difference	ΧαΩ
Weight (kg)	64.0	67.9	-3.9	90 -
SMM Skeletal Muscle Mass (kg)	21.9	24.0	-2.1	
Body Fat Mass (kg)	22.1	21.9	+0.2	
ECW Ratio	0.415	0.419	-0.004	
Phase Angle (°)	3.8	3.9	-0.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Right Arm	Today	Recent	Difference	Χα(Ω)
Lean Mass (kg)	2.50	2.75	-0.25	50 40
ECW Ratio	0.384	0.386	-0.002	
Phase Angle (°)	4.9	4.8	+0.1	10 0 0 R(Ω)
Left Arm	Today	Recent	Difference	$0 \xrightarrow{i}_{0} 100 200 300 400 500 600 R(\Omega)$ Xc(\Omega)
Lean Mass (kg)	2.61	2.91	-0.30	
ECW Ratio	0.385	0.387	-0.002	30 20 -
Phase Angle (°)		4.7	+0.1	10
	1.0			$0 \xrightarrow{1}{0} 100 \xrightarrow{2}{200} 300 \xrightarrow{1}{400} 500 \xrightarrow{1}{600} R(\Omega)$
Diabet Loan			Diff	Χα(Ω)
Right Leg Lean Mass <sup>(kg)</sup>	Today	Recent	Difference	
	6.45	6.93 0.433	-0.48	20 -
ECW Ratio	0.429	2.9	-0.004	
Phase Angle (°)	2.8			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Left Leg Lean Mass (kg)	Today	Recent	Difference	40
	6.43	6.82	-0.39	
ECW Ratio	0.428 2.6	0.432 2.6	-0.004	10
Phase Angle (°)	2.0	2.0	0.0	$0 \xrightarrow{1}_{0} 100 200 300 400 500 R(\Omega)$
Trunk	Today	Recent	Difference	Xc(Ω) <sup>5</sup> ]
Lean Mass (kg)	21.6	23.0	-1.4	
ECW Ratio	0.414	0.419	-0.005	

# BWA

					[BWA 2.0]
D  John Doe	Height 139.4		Age   10	Gender   Male	-   Test Date / Time   2021.03.31.16:40
<b>Body Composition</b>	Analy	ysis			
Total amount of water in my	body	Total B	ody Water	(L)	19.1 (18.0 ~ 22.0)
What I need to build muscle	s	Protein		(kg)	5.1 ( 4.9 ~ 5.9 )
What I need for strong bone	es	Mineral	I	(kg)	1.91 (1.66 ~ 2.04)
Where my excess energy is	stored	Body F	at Mass	(kg)	8.9 ( 3.8 ~ 7.7 )
Sum of the above		Weight		(kg)	35.0 (27.3 ~ 36.9)

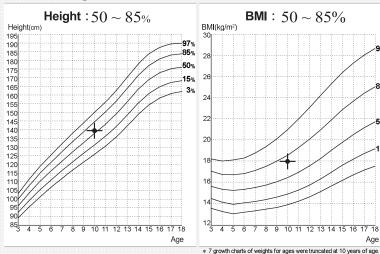
#### **Muscle-Fat Analysis**

		U	nder		Normal				Over				
Weight	(kg)	55	70	85	100	<sup>115</sup> 35.	0 130	145	160	175	190	205	%
SMM Skeletal Muscle Mass	(kg)	70	80	90	1 <sup>100</sup> 13.3	110	120	130	140	150	160	170	96
Body Fat mass	(kg)	40	60	80	100	160	<sup>220</sup> 8.9	280	340	400	460	520	%

#### **Obesity Analysis**

	Under			Norma	al	Over					
BMI Body Mass Index (kg/m <sup>2</sup> )	7.9	10.9	13.9	16.4	18.6 18.0	20.2	22.2	24.2	26.2	28.2	30.2
PBF (%) Percent Body Fat	0.0	5.0	10.0	15.0	20.0	<sup>25.0</sup>	<sup>30.0</sup>	35.0	40.0	45.0	50.0

### **Growth Graph**



### **Body Composition History**

Height	(cm)	134.5	135.2	136.4	137.2	137.9	138.5	139.0	139.4
Weight	(kg)	30.8	31.3	32.0	32.8	33.5	34.0	34.4	35.0
SMM Skeletal Muscle Mass	(kg)	12.5	12.7	12.8	13.0	13.1	13.1	13.2	13.3
PBF Percent Body Fat	(%)	20.4	20.7	21.6	22.3	23.1	24.3	25.1	25.6
⊠ Recent □	Total	19.07.15 14:22	19.11.19 09:30	20.01.29 15:18	20.03.15 11:00	20.06.21 15:00	20.09.19 14:52	20.12.20 15:12	21.03.31 16:40

### InBody

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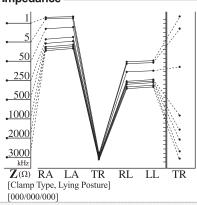
#### **Growth Score**

85/100 Points

\* If tall and within great body comparison standards, the growth score may surpass 100 points.

	-			
Nutrition	Evaluati	on —		
Protein	Mormal	□ Deficie	nt	
Minerals	Mormal	□ Deficie	nt	
Body Fat	□ Normal	🗆 Deficie	nt 🗹 I	Excessive
Obesity I	Evaluatio	n ——		
BMI	₩Normal	□Under		Slightly Over Over
PBF	□Normal	□ <sup>Slightly</sup> Over	′ <b>⊻</b> o	Over
Body Ba	ance Eva	aluatior	n ———	
Upper	Balanced	□ Slightly Unbala	$n_{\text{nced}} \square_1^1$	Extremely Unbalanced
Lower	Balanced	□ Slightly Unbala	$n_{\text{nced}} \square_1^1$	Extremely Unbalanced
Upper-Lowe	r 🗹 Balanced	□ Slightly Unbala	$n_{\text{nced}} \square$	Extremely Unbalanced
Segment	al Lean A	Analysis	s —	
Right Arm		0.95 kg		
Left Arm		0.94 kg		
Trunk Right Leg		10.8 kg 3.41 kg		
Left Leg		3.37 kg		
Research	) Parame			
Basal Metab			cal (94	8~1077)
Child Obesit	y Degree	109 %	( 9	0~110)
Whole B Proximal ∳(°)50 kHz		4.3°		
Segment				
Proximal $\phi(^{\circ}) 5_{\rm kHz}$	RA L.   1.4 1.	A TR 4 3.0	RL 1.9	LL 1.8
50 kHz	3.6 3.	3 6.8	5.0	4.8
250 kHz	3.7 3.	6 9.4	5.0	4.9

Impedance -



Proximal

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## Thermal Result Sheet

<b>BWA</b> 2021/03/31 15:44
ID : John Doe Height : 173cm Age : 41 Gender: Male Weight : 64.0kg
[Clamp Type, Lying Posture]
Muscle-Fat Analysis
Weight         64.0 kg           Normal Range         (55.9~75.7)
Skeletal Muscle Mass 21.9 kg Normal Range (28.2~34.4)
Soft Lean Mass 39.7 kg Normal Range (47.5~58.1)
Body Fat Mass22.1 kgNormal Range(7.9~15.8)
Obesity Analysis
BMI         21.4 kg/m²           Normal Range         (18.5~25.0)
Percent Body Fat         34.5 %           Normal Range         (10.0~20.0)
Segmental ECW Ratio Analysis
Right Arm         0.384           Normal Range         (0.360~0.390)
Left Arm 0.385 Normal Range (0.360~0.390)
Trunk         0.414           Normal Range         (0.360~0.390)
Right Leg         0.429           Normal Range         (0.360~0.390)
Left Leg         0.428           Normal Range         (0.360~0.390)
Body Water Analysis
Intracellular Water 18.3 L Normal Range (23.0~28.0)
Extracellular Water 13.0 L Normal Range (14.0~17.2)
Total Body Water         31.3 L           Normal Range         (37.0~45.2)
Proximal
Whole Body Phase Angle $3.8\degree$
5
.500
1000
3000
$[kHz]$ $[J] \bullet$ Z( $\Omega$ ) RA LA TR RL LL TR
InBody
www.inbody.com

BWΛ	2021/03/31 15:44
ID : John Do Height : 173cm Gender: Male	<b>Age :</b> 41
Water Contr	ol
ECW Ratio	0.415
Target ECW	<b>Ratio</b> 0.385
Over Hydrati	<b>on -1.5</b> ∟ (-1.65~-1.35)
Target Weigh	n <b>t</b> 65.5 kg



BWA Body Water Analyzer

## Data Management Program

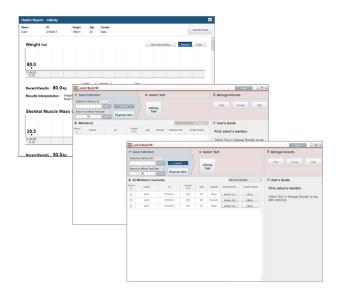
### LookinBody WEB (Cloud)

A cloud-based client and data management solution designed to optimize performance and deliver a better user experience. Try a free 1-month demonstration by contacting regional managers.

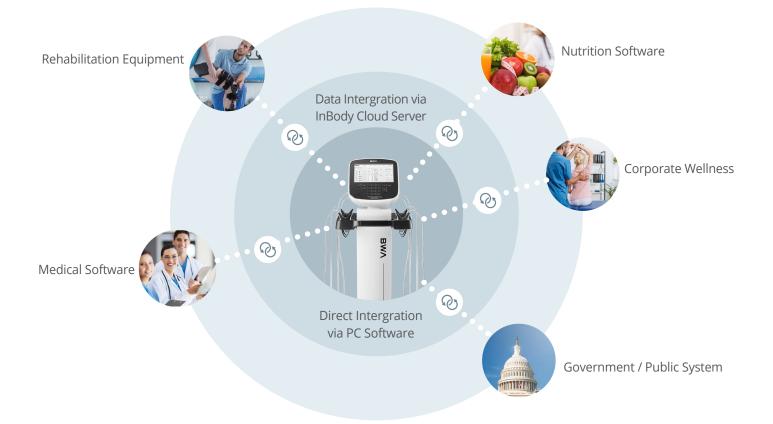
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### LookinBody120 (PC Software)

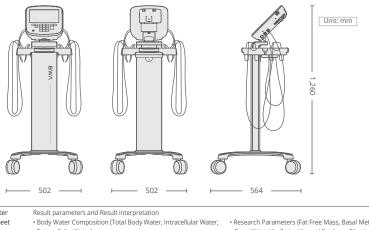
LookinBody120 allows you to view and manage all BWA data generated from your BWA device.



## InBody Integration Solution



## Specifications



### **BWA 2.0** BODY WATER ANALYZER

Bioelectric Impedance Analysis (BIA) Measurement Item	Bioelectrical Impedance(Z)	Frequencies ( 1MHz, 2MHz,	Measurements by Using 8 Different 1kHz, 5kHz, 50kHz, 250kHz, 500kHz, 3MHz) at Each of 5 Segments (Right Trunk, Right Leg and Left Leg)	Body Water Result Sheet	Result parameters and Result interpretation • Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water) • ECW Ratio Analysis	Research Parameters (Fat Free Mass, Basal Metabolic Rate, Waist-Hip Ratio, Visceral Fat Area, Obesity Degree, Body Cell Mass, Arm Circumference, Arm			
	Phase Angle	15 Phase Ang Frequencies	e Measurements by Using 3 Different (SkHz, 50kHz, 250kHz) at Each of 5 ht Arm, Left Arm, Trunk, Right Leg, and		Segmental Body Water Analysis (Right Arm, LeftArm, Trunk, Right Leg, Left Leg)     Segmental ECW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)     Body Water Composition History (Weight, Total Body, Intracellular Water Contract Lege Water Contract Contraction	Muscle Circumference, TBW/FFM, FMI, FFMI, SMI) • Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P) Result Interpretation QR Code • QR Code • Segmental Body Phase Angle (5kHz, 50kHz, 250kHz; Bidsh 4ms, 164 Ams, Tarach, Bidsh 4ms, 166 Jacob 4ms, 164 Ams, 165			
Electrode Method	16-Point Clamp El	lectrodes			Water, Extracellular Water, Extracellular Water Ratio) • Muscle-Fat Analysis (Weight, Skeletal Muscle Mass,	Right Arm, Left Arm, Trunk, Right Leg, Left Leg) • Whole Body Phase Angle (50kHz)			
Measurement Method	Direct Segmental N	Multi-Frequency E	Biolectrical Impedance Analysis (DSM-BIA)		Soft Lean Mass, Body Fat Mass) • Obesity Evaluation (BMI, Percent Body Fat)	Impedance Graph (Each segment and each frequency)			
Body Composition Calculation Method			electrical Impedance Analysis (SMF-BIA)	Body Composition Result Sheet	Result parameters and Result interpretation • Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Fat Free Mass, Soft Lean Mass, Weight)	• Body Balance Evaluation (Upper, Lower, Upper-Lower) • Percent Abdominal Fat (Graph)			
Optional Items	Thermal Printer (TP100), BWA Portable Case, BWA Adhesive Electrodes and Tape and BWA Battery Pack				Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)     Obesity Analysis (Body Mass Index, Percent Body Fat)     Segmental Lean Analysis	Visceral Fat Level (Graph)     Research Parameters (Extracellular Water, Intracellular Water, Skeletal Muscle Mass, Fat Free Mass, Basal Metabolic Rate,			
Logo Display		nd Tape and BWA Battery Pack ame, Address and Content Information can be shown on Result Sheet			Segmental Fat Analysis     Segmental ICW Analysis	Waist Circumference, Visceral Fat Level, Visceral Fat Area, Obesity Degree, Bone Mineral Content, Body Cell Mass,			
Digital Results	LCD Screen, Looki	inBody Web, Loo	okinBody120		Segmental ECW Analysis     ECW Ratio Analysis (ECW Ratio)	Arm Circumference, Arm Muscle Circumference, FMI, FFMI, SMI, Recommended Calorie Intake, Calorie			
Type of Result Sheets	Result Sheet, Res	CD Screen, LookinBody Web, LookinBody120 ody Water Result Sheet, Body Composition Result Sheet, Evaluation esult Sheet, Research Result Sheet, Comparison Result Sheet, Result heet for Children, and Thermal Result Sheet			Body Composition History (Weight, Skeletal Muscle Mass, Percent Body Fat, ECW Ratio) InBody Score Visceral Fat Area (Graph) Weight Control (Target Weight, Weight Control, Fat Control,	Expenditure of Exercise, InBody Score) • Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P) • Result Interpretation QR Code • QR Code • Segmental Body Phase Angle (5kHz, 50kHz, 250kHz:			
Voice Guidance	Audible guidance	for test in progr	ess and test complete		Muscle Control) • Body Type (Graph)	Right Arm, Left Arm, Trunk, Right Leg, Left Leg) • Whole Body Phase Angle (50kHz)			
Data Storage	Saves up to 100,00	00 measuremer	its (When ID is entered)		Nutrition Evaluation (Protein, Minerals, Fat Mass)     Obesity Evaluation (BMI, Percent Body Fat)	Impedance Graph (Each segment and each frequency)			
Administrator Menu	Setup: Configure s Troubleshooting:		nage data nation to help use the BWA2.0	Evaluation Result Sheet	Whole Body ECW Ratio (ECW/TBW): (T-Score, Z-score)     Visceral Fat Area (VFA,cm <sup>2</sup> ): (T-Score, Z-score)     Body Mass Index (BMI,kg/m <sup>2</sup> ): (T-Score, Z-score)	Skeletal Muscle Mass and ECW Ratio (SMM,% & ECW/TBW)     Skeletal Muscle mass Index and ECW Ratio (SMI,kg/m <sup>2</sup> & ECW/TBW)			
InBody USB		opy, backup, or restore the LookinBody test data (data can be viewed i Excel or LookinBody120)			Bioeletrical Impedance Vector Analysis (BIVA)     Whole Body Phase Angle_50kHz (PhA,°): (T-Score, Z-score)     ECW Ratio (ECW/TBW) Balance (Right Arm, Left Arm,	<ul> <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> </ul>			
Barcode Reader	Member ID will be	e automatically i	nputted when the Barcode is scanned		Trunk, Right Leg, Left Leg): Evaluation • Percent Body Fat (PBF,%): (T-Score, Z-score)	Weight (kg): (T-Score, Z-score)     Skeletal Muscle Mass/WT,     Systemetric Mass/WT,     Systemetric Mass/WT,			
InBodyBAND Series Recognition Function	Recognizes the Inl inputs personal in		es of the subject and automatically e BWA2.0		Skeletal Muscle mass Index (SMI,m <sup>2</sup> ): (T-Score, Z-score)     Fat Mass Index (FMI,kg/m <sup>2</sup> ): (T-Score, Z-score)     Fat Free Mass Index (FFMI,kg/m <sup>2</sup> ): (T-Score, Z-score)	Extracellular Mass/Body Cell Mass (ECM/BCM): (T-Score, Z-Score)     Total Body Water/Weight (%): (T-Score, Z-Score)			
Fingerprint Recogni- tion Function	Recognizes the fin personal informat		neasurer and automatically inputs 2.0	Research	Lean Mass (LM) Balance(Right Arm, Left Arm, Trunk, Right Leg, Left Leg): Amount, Evaluation     Body Composition Summary (Fat Free Mass, Body Fat Mass, Intracellul	ar Water Extracellular Water Body Water FCW Ratio Weight)			
Backup data	Backup data form	n BWA2.0 with ar	n InBody USB	Result Sheet	<ul> <li>Body Composition Analysis (Lean Mass, ICW, ECW, Fat Mass, ICW Left Leg</li> </ul>				
QR Code	See your result on	n the InBody mo	bile App		<ul> <li>Research Parameters (BMI, Percent Body Fat, Percent Abdominal F FMI, Skeletal Muscle Mass, FFMI, SMI, Protein, Body Cell Mass, Mir</li> </ul>				
Applied Rating Current	1kHz : 70uA (+-10u	uA), Over 5kHz :	300uA (+-30uA)		<ul> <li>Circumference, Arm Muscle Circumference, TBW/FEM)</li> <li>Segmental Phase Angle (5kHz, 50kHz, 250kHz; Right Arm, Left Arm</li> </ul>				
Adapter	Bridgepower (BPM040S12F07)	Power Input	AC 100-240V, 50-60Hz, 1.2A (1.2A-0.6A)		Whole Body Phase Angle (50kHz)     Impedance Graph (Each segment and each frequency)				
		Power Output	DC 12V, 3.4A	Comparison Result Sheet	<ul> <li>Weight, Skeletal Muscle Mass, Body Fat Mass, ECW Ratio, Phase A Current-Previous Result difference)</li> </ul>				
	Mean Well (GSM40A12-P1IR)	Power Input	AC 100-240V, 50-60Hz, 1.0-0.5A		Lean Mass, ECW Ratio, Phase Angle: Right Arm, Left Arm, Trunk, R Current-Previous Result difference)	ight Leg, Left Leg (Current Result, Previous Result,			
	(G3W40A12-F1IK)	Power Output	DC 12V, 3.34A	Body Composition	Cole-Cole Plot (Today, Recent, Standard Median Curve) Result parameters and Result interpretation				
Display Type	1280 x 800 10.1in	ch Color TFT LCI	)	Result Sheet for Children	<ul> <li>Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Weight)</li> </ul>	• Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)			
Internal Interface	Touchscreen, Key	pad			Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)     Obesity Analysis (Body Mass Index, Percent Body Fat)	<ul> <li>Research Parameters (Intracellular Water, Extracellular Water, Basal Metabolic Rate, Child Obesity Degree,</li> </ul>			
External Interface	RS-232C 4EA, USB 1EA, Wi-Fi 1EA	B Host 2EA, USB S	Slave 1EA, LAN(10/100T) 1EA, Bluetooth		Growth Graph (Height, Weight, BMI)     Growth Score     Body Composition History (Height, Weight, Skeletal Muscle Mass,	Bone Mineral Content, Body Cell Mass, FFMI, FMI) Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P) • Result Interpretation QR Code			
Compatible Printer	BWA compatible p	printers available	e at www.inbodyservice.com		Percent Body Fat)	QR Code     Segmental Body Phase Angle (5kHz, 50kHz, 250kHz;			
Dimensions	322(W) x 282(L) x 8	81.5(H): mm			Nutrition Evaluation (Protein, Minerals, Fat Mass)     Obesity Evaluation (BMI, Percent Body Fat)	Right Arm, Left Arm, Trunk, Right Leg, Left Leg)			
Equipment Weight	3.3kg (7.27lb, BWA	A only)			Body Balance (Upper, Lower, Upper-Lower)     Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)	<ul> <li>Whole Body Phase Angle (50kHz)</li> <li>Impedance Graph (Each segment and each frequency)</li> </ul>			
Test Duration	About 90 seconds Mode	s for Medical Mo	de, about 180 seconds for Research	Thermal Result Sheet	Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass)     Obesity Evaluation (BMI, Percent Body Fat)	Segmental ECW Ratio Analysis (human shaped graph)     Research Parameters (Extracellular Water, Intracellular     Water, ECW Ratio, Skeletal Muscle Mass, Protein,			
Operation Environment	10~40°C (50 ~ 104	4°F), 30~75% RH	70~106kPa		Segmental Lean Analysis     Segmental ECW Ratio Analysis	Minerals, Bone Mineral Content, Body Cell Mass, Percent Abdominal Fat, Waist Circumference, Visceral			
Storage Environment	-10~70°C(14~158°	°F),10~80% RH, 5	50~106kPa (No Condensation)		<ul> <li>Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water)</li> </ul>	Fat Area, Obesity Degree, Basal Metabolic Rate, Arm Circumference, Arm Muscle Circumference, FMI, FFMI,			
Weight Range	10 ~ 250kg (22.0 ~	- 551.2lb)			<ul> <li>Body Composition Analysis (Protein, Minerals, Body Fat Mass, Fat Free Mass, Bone Mineral Content)</li> </ul>				
Age Range	3~99 years				Segmental Body Water Analysis     Segmental Fat Analysis	<ul> <li>Segmental Phase Angle (5kHz, 50kHz, 250kHz, 1900)</li> <li>Arm, Left Arm, Trunk, Right Leg, Left Leg)</li> </ul>			
Height Range	95~220cm (3ft 1.4	40in ~ 7ft 2.61in)			Segmental Lean Analysis (human shaped graph)	Impedance (Each segment and each frequency)			

\* Specifications may change without prior notice. \* QR Code is a registered trademark of DENSO WAVE INCORPORATED



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