

InBody720

THE PRECISION BODY COMPOSITION ANALYZER



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**InBody-the product of great technology
Experience its speciality**

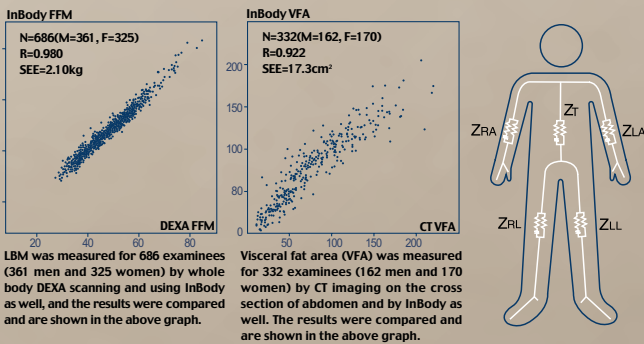


InBody is chosen by experts

InBody has been praised by the world's medical professionals with its power to analyze and its clinical reliability. Biospace has been concentrating its effort on making a superb body composition analyzer. An accurate diagnosis is the basis for an effective treatment.

InBody's technology is unparalleled

InBody's technology is patented as seed technology in advanced countries across the world including the US, Japan and European nations. Using 8-point tactile electrode method, InBody measures body by segment, and it has body composition analysis technology that does not resort to empirical estimates like gender or age. These are InBody's unique technologies that can be not compared.



Report of InBody's precision

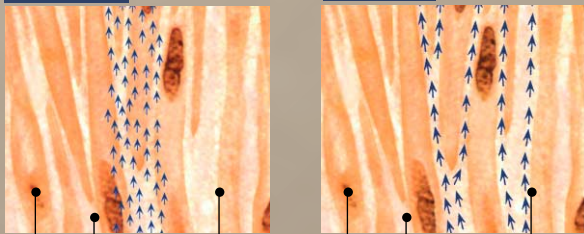
Tetrapolar 8-Point Tactile Electrode System

InBody is the creation of essence of sophisticated technology

As a high-tech device, InBody pushes the limit of frequency that determines the performance of body composition analyzer. InBody, a super-precision body composition analyzer, measures resistance in broadband frequencies of 1kHz-1MHz and reactance in mean frequencies.

High (>200kHz)

Low (<50kHz)



ICF(Intracellular Fluid) ECF(Extracellular Fluid) Cell Membrane

The best customer service

Equipped with wide experience of clinical experiments and database of over 20,000 persons, Clinical Research Team has been providing the best service in areas of Q&A about body composition analysis, its clinical application, provision of obesity-related information, research support and the latest research trend.

Biospace has been striving to improve human health; it has explored new realms of body composition analysis, leading the health care market with the top quality body composition analyzers that have set the standard for diagnosis of obesity and health care. Biospace focuses on product development and clinical research with an effort to venture into the field of electronic medical devices.

In recent years, people have come to recognize that obesity causes a wide range of health problems. It is known that the most effective and scientific way to prevent obesity is to analyze body composition on a regular basis.

Over the past decades, a technique has been developed which analyzes body composition based on the electrical conductive properties of biological tissues. Bioelectrical Impedance Analysis(BIA) has many advantages over other methods in that it is safe, rapid and easy to perform, and requires minimum operator training. Thus, the technique has become widely used in hospitals, health centers, fitness clubs and in field studies.

Nevertheless, in detecting acute or chronic changes in body composition the clinical usefulness of conventional BIA has been limited to healthy average people. Due to localized fluid accumulation or loss, and inability to accurately assess the balance between intracellular water(ICW) and extracellular water(ECW), there is difficulty applying BIA method to people who really need to analyze their body composition, such as patients, the elderly, children and athletes.

Biospace has reinforced the conventional BIA method and proven its technology through several clinical studies and research papers. Because the body is not an isotropic electrical conductor with uniform cross-sectional areas, we consider the body as consisting of five cylinders-four limbs and the trunk-and measure the amount of body water segmentally. Moreover, we use multifrequency to measure ICW and ECW separately. Thus, we do not have to use empirical estimation to compensate for inaccuracy, which makes the measurement insensitive.

We have acquired many patents and certifications, including FDA approval, which is valued world-wide. Biospace, as a pioneer, is the only specialized company for Body Composition Analyzers. We hope to see the body composition analyzers in every hospital, health center and fitness club all around the world.

Certifications



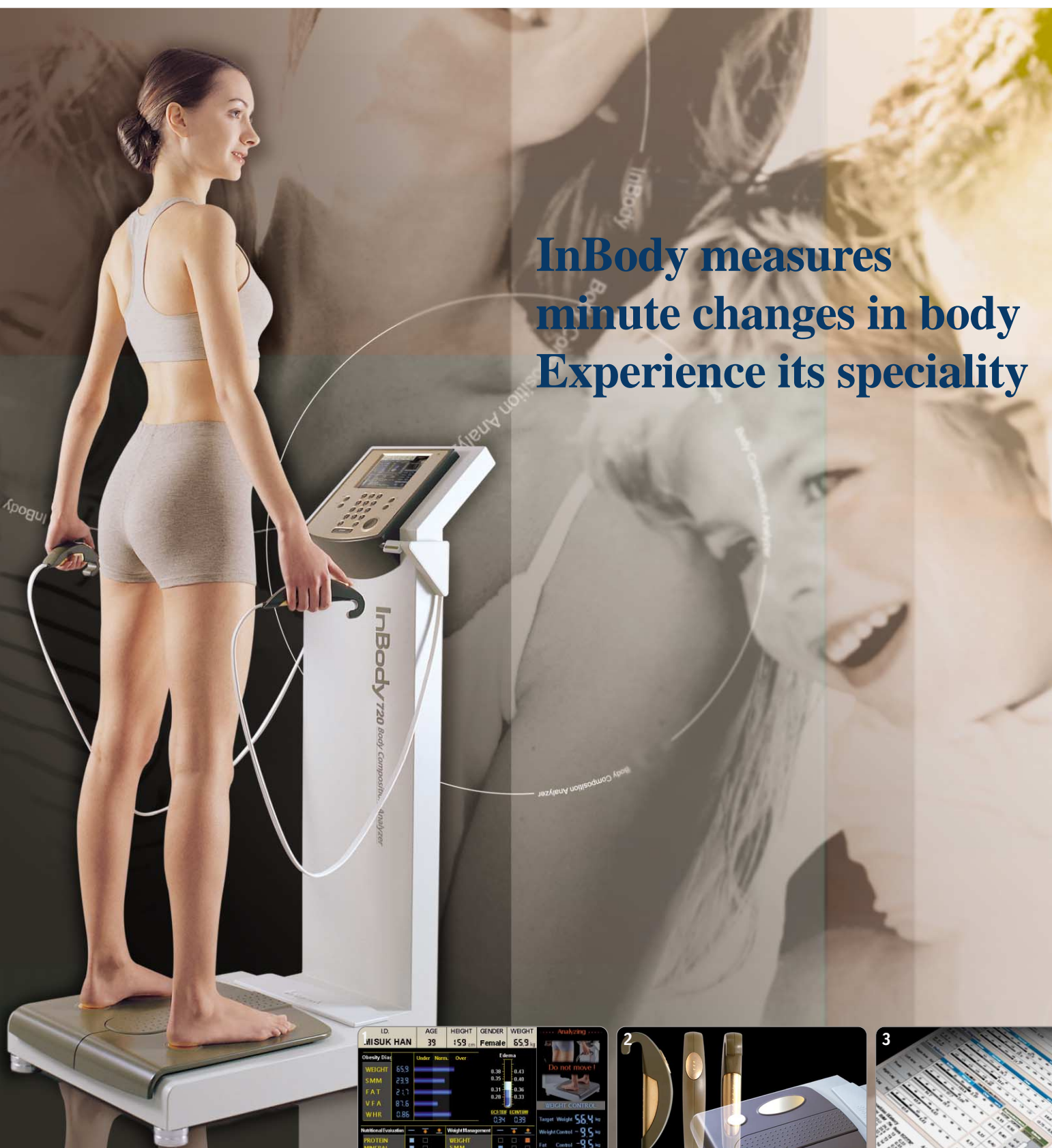
Technology

www.e-inbody.com

InBody 720

THE PRECISION BODY COMPOSITION ANALYZER

**InBody measures
minute changes in body
Experience its speciality**



ID.	AGE	HEIGHT	GENDER	WEIGHT
11SUK HAN	39	153 cm	Female	65.9 kg
Obesity Dist	Under	Norm.	Over	Edema
WEIGHT	65.9	0.38	0.43	0.40
SMM	23.9	0.35	0.40	0.40
FAT	21.7	0.31	0.36	0.33
VFA	81.6	0.28	0.33	0.33
WHR	0.86	0.34	0.39	0.39
Nutritional Evaluation	Weight Management	Weight Control	Target Weight	55.4 kg
PROTEIN	WEIGHT	WEIGHT	Fat Control	9.5 kg
MINERAL	SMM	SMM	Fat Control	9.5 kg
FAT	FAT	FAT	Muscle Control	0.0 kg
Body Balance	Body Strength	Body Strength	Body Strength	0.0 kg
UPPER	UPPER	UPPER	UPPER	1324 kcal
LOWER	LOWER	LOWER	LOWER	74 min
UPPER LOWER	UPPER LOWER	UPPER LOWER	UPPER LOWER	



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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More convenient

1. Color TFT LCD

Through 6.4 inch Color TFT LCD screen, you can check measurement procedures in detail.

2. Super-precision measurement

InBody's new, unique electrode system makes it possible to carry out super-precision measurement by enhancing interface between body and device.

3. Provision of a wealth of information

Body composition analysis results and graphs can be printed out and be used as items for medical examination.

And children's result sheet is also available.

4. Elegant design

InBody's sophisticated exterior, high-quality keypad and ergonomic design will add to the quality and elegance to hospitals or clinics.

Areas of InBody application

Medical check-up center

InBody provides measurement items necessary to prevent geriatric diseases like hypertension, diabetes, heart disease and fatty liver. In particular, with the inclusion of high-tech measurement items like visceral fat and edema, it is being widely used for medical examination to check geriatric diseases.

Obesity clinic/Plastic surgery

InBody provides high-precision data required to treat patients with obesity such as severe obesity, obesity with less developed muscle, geriatric obesity, childhood obesity and obesity after childbirth. In particular, InBody has higher precision level for patients with special body figure, so, it helps doctors to provide more appropriate judgment and treatment to those.

Rehabilitation/Orthopedic/Pain clinic

By providing accurate size of body parts like arms, legs, and trunk, you will be able to measure changes in body when treatment is given. In particular, since InBody is sensitive to the extent that right-handed and left-handed can be discriminated, it can detect minute changes that can not be checked with eyes.

Nephrology

InBody is used to help judge about body water balance, change in body water before and after dialysis and nutritional status for patients. Since it responds very sensitively to the change in body water, it will confirm dramatic changes in edema figures before and after dialysis.

Sports medicine

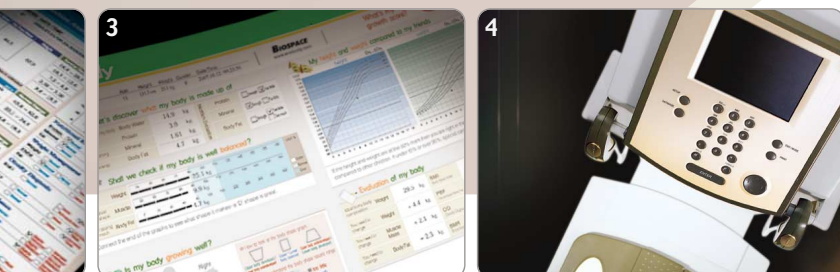
InBody provides a precise examination for body development status and balance. Analysis items by segment and various body indexes are used as essential data for exercise prescription.

Nutrition clinic/Geriatric clinic

InBody is used to analyze nutritional and health conditions for patients with wasting disease, geriatric disease, chronic disease and children in growth period. In particular, using broadband multi-frequencies, it provides a precise diagnosis on patients' nutritional status.

Pediatrics

InBody also provides the specially designed children's result sheet taking notice of spreading children's obesity. Furthermore, everyday's growth of children is closely monitored by InBody with the essential parameters i.e. growth chart, body shape graph, etc.



Product



For Adult

Various Results based on measurements

1 Examinee and institution

You can advertise your center effectively. It displays personal information of examinee entered and hospital or clinic name, doctor name and the address.

2 Body Composition

By explaining the result sheet, your clients will realize what their body is composed of and soon comply with given instruction. In this part, these values demonstrate the weight of each body compositional element that makes up the examinee's total body weight. The estimated values are then compared with the standard values.

3 Muscle-Fat Analysis

Skeletal Muscle and Body Fat Mass are the main subjects for weight control. The horizontal bar graph helps you understand your body composition state compared to standard values. The value next to bar shows you the measured values and the end of bar indicates your position in the range. If the length of the bars would be similar, your body composition is well balanced, while if the lengths of the bars fluctuate, it means your body composition is not balanced.

4 Obesity Diagnosis

By showing the proportion of both BMI and percent body fat in their body, InBody720 can identify hidden obese people. A comprehensive diagnosis of obesity can be made based on various approaches like PBF(Percentage Body Fat) and WHR(Waist-Hip Ratio) through body composition analysis.

5 Lean Balance

There are more various applications by providing graphs with values in relation to weight of the examinee as well as graphs with the absolute values in relation to standard weight. By measuring muscle distribution by segment, you can check body balance and development level by segment. InBody provides information essential to check the effect of rehabilitation treatment or establish a direction for exercise.

6 Segmental Edema

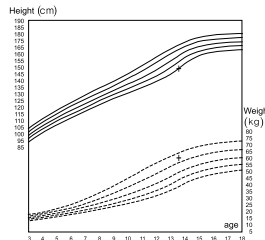
InBody720 shows segmental edema score as well as edema score for the whole body.

7 Edema

The graph shows the ratio of ECW to TBW and ECF to TBF. Edema score of healthy person is maintained in normal range.

8 Visceral Fat Area

It tells how much of body fat is accumulated in visceral areas.



Growth Chart

For children under 18 of age, instead of Visceral Fat Area, it provides a Growth Chart. With graphs in percentile regarding age, gender, height and weight, it is possible to see the developmental conditions of their growth.

9 Various comprehensive evaluation

Nutritional Evaluation, Weight Management, Obesity Diagnosis, Body Balance, Body Strength, Health Diagnosis.

The result sheet of InBody720 summarizes all the obtained results on the right side. This makes much easier for patients to comprehend their health condition. Using different colors, it even distinguishes the poor and the fine conditions. It helps to check and see overall body composition at a glance.

10 Body Composition History

Examination results will be stored so that changes in body composition of the examinee can be tracked.

11 Additional Data

Basal Metabolic Rate, Body cell mass, Obesity degree, Bone mineral content. InBody shows you commonly used indexes related to body composition.

12 Weight Control

Based on body composition analysis results, target weight and how much to adjust for fat and muscle are suggested.

13 Fitness Score

This generalized figure is suggested for subjects to remember easily. You need to make sure that score gets higher through weight control.

Result Sheet

InBody 720 Body Composition Analysis

1 **I.D.** SM2006 **AGE** 39 **HEIGHT** 159cm **GENDER** F **DATE/TIME** 2004.07.01/09:23:50(65000)

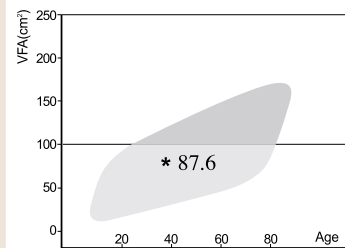
B. Hospital
Doctor Lee

2 Body Composition Analysis

Compartments	Values	Total Body Water	Soft Lean Mass	Fat Free Mass	Weight	Normal Range
I C W Intracellular Water (ℓ)	19.9	32.6	41.7	44.2	65.9	16.8 ~ 20.5
E C W Extracellular Water (ℓ)	12.7					10.3 ~ 12.6
Protein (kg)	8.6					7.2 ~ 8.9
Mineral (kg)	3.00	OSSEOUS: 2.49				2.50 ~ 3.10
Body Fat Mass (kg)	21.7					9.8 ~ 19.5

► Mineral is estimated.

8 Visceral Fat Area



3 Muscle - Fat Analysis

	Under	Normal	Over	UNIT: %	Normal Range
Weight (kg)	55 70 85 100 115 130 145 160 175 190 205				45.8 ~ 62.0
S M M Skeletal Muscle Mass (kg)	70 80 90 100 110 120 130 140 150 160 170				20.1 ~ 24.5
Body Fat Mass (kg)	40 60 80 100 160 220 280 340 400 460 520				4.8 ~ 19.5

4 Obesity Diagnosis

	Under	Normal	Over	Normal Range
B M I Body Mass Index (kg/m²)	10 15 18.5 21.5 25 30 35 40 45 50 55			18.5 ~ 25.0
P B F Percent Body Fat (%)	8 13 18 23 28 33 38 43 48 53 58			18.0 ~ 28.0
W H R Waist-Hip Ratio	0.65 0.70 0.75 0.80 0.85 0.90 0.95 1.00 1.05 1.10 1.15			0.75 ~ 0.85

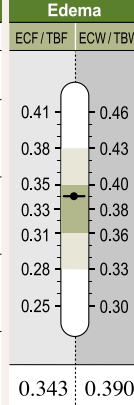
5 Lean Balance

	Under	Normal	Over	UNIT: %
Right Arm (kg)	40 60 80 100 120 140 160 180			2.19
Left Arm (kg)	40 60 80 100 120 140 160 180			2.06
Trunk (kg)	70 80 90 100 110 120 130 140			19.7
Right Leg (kg)	70 80 90 100 110 120 130 140			6.83
Left Leg (kg)	70 80 90 100 110 120 130 140			6.81

6 Segmental Edema

	ECF/TBF	ECW/TBW	Edema
Right Arm	0.333	0.380	
Left Arm	0.352	0.400	
Trunk	0.352	0.400	
Right Leg	0.333	0.380	
Left Leg	0.333	0.380	
Edema	0.343	0.390	

7 Edema



9 Nutritional Evaluation

Protein	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Deficient
Mineral	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Deficient
Fat	<input type="checkbox"/> Normal	<input type="checkbox"/> Deficient <input checked="" type="checkbox"/> Excessive

Weight Management

Weight	<input type="checkbox"/> Normal	<input type="checkbox"/> Under	<input checked="" type="checkbox"/> Over
S M M	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Strong	<input type="checkbox"/> Under
Fat	<input type="checkbox"/> Normal	<input type="checkbox"/> Under	<input checked="" type="checkbox"/> Over

Obesity Diagnosis

B M I	<input type="checkbox"/> Normal	<input type="checkbox"/> Under	<input checked="" type="checkbox"/> Over	<input type="checkbox"/> Extremely Over
P B F	<input type="checkbox"/> Normal	<input type="checkbox"/> Obese	<input checked="" type="checkbox"/> Extremely Obese	<input type="checkbox"/> Extremely Obese
W H R	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Obese	<input type="checkbox"/> Extremely Obese	<input type="checkbox"/> Extremely Obese

Body Balance

Upper	<input type="checkbox"/> Balanced	<input checked="" type="checkbox"/> Slightly Unbalanced	<input type="checkbox"/> Extremely Unbalanced
Lower	<input checked="" type="checkbox"/> Balanced	<input type="checkbox"/> Slightly Unbalanced	<input type="checkbox"/> Extremely Unbalanced
Upper-Lower	<input type="checkbox"/> Balanced	<input checked="" type="checkbox"/> Slightly Unbalanced	<input type="checkbox"/> Extremely Unbalanced

Body Strength

Upper	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Developed	<input type="checkbox"/> Weak
Lower	<input type="checkbox"/> Normal	<input type="checkbox"/> Developed	<input checked="" type="checkbox"/> Weak
Muscle	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Muscular	<input type="checkbox"/> Weak

Health Diagnosis

Body Water	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Under
Edema	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Slight Edema <input type="checkbox"/> Edema
Life Pattern	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Alert <input type="checkbox"/> Risky <input type="checkbox"/> Highly Risky

10 Body Composition History

DATE / TIME	Weight	SMM	Fat	Score	ECF/TBF
04/03/05 09:55	67.0	23.0	24.5	73	0.348
04/04/02 10:30	66.8	23.0	23.5	73	0.349
04/05/12 09:50	66.5	23.2	22.7	73	0.345
04/06/08 10:23	66.0	23.7	22.0	74	0.343
04/07/01 09:23	65.9	23.9	21.7	74	0.345

11 Additional Data

	(Normal Range)
Obesity Degree = 124 %	90 ~ 110
B C M = 24.1 kg	24.0 ~ 29.3
B M C = 2.49 kg	2.35 ~ 2.52
B M R = 1324 kcal	1128 ~ 1378
A C = 34.3cm	
A M C = 28.5cm	

12 Weight Control

Target Weight	56.4 kg
Weight Control	- 9.5 kg
Fat Control	- 9.5 kg
Muscle Control	0.0 kg
13 Fitness Score	74 Points

Impedance

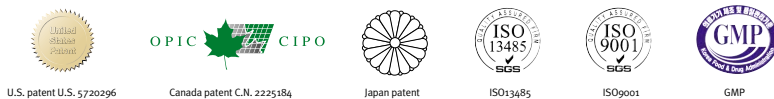
Z	RA	LA	TR	RL	LL
1kHz	373.0	370.0	31.2	277.0	278.0
5kHz	362.1	359.3	29.6	266.0	266.0
50kHz	314.0	313.0	25.6	229.0	230.0
250kHz	279.0	283.0	21.6	204.0	204.0
500kHz	269.0	275.0	20.6	198.0	199.0
1000kHz	248.0	254.0	18.1	194.0	195.0
Xc 5kHz	98.9	34.0	3.0	51.8	49.5
50kHz	56.2	91.9	9.5	11.3	12.8
250kHz	18.7	49.8	5.9	83.1	80.8

Specifications

Measurement Method	Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA Method	
Measurement Items	Impedance(Z)	30 Impedance Measurements by Using 6 Different Frequencies (1kHz, 5kHz, 50kHz, 250kHz, 500kHz, 1000kHz) at Each 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)
	Reactance(Xc)	15 Impedance Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 250kHz) at Each 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)
Electrode Method	Tetrapolar 8-Point Tactile Electrode System	
Body Composition Calculation Method	No Empirical Estimation	
Outputs	For Adult	Intracellular Water, Extracellular Water, Protein, osseous/non-osseous Mineral, Body Fat Mass, Skeletal Muscle Mass, Soft Lean Mass, Fat Free Mass, Weight, BMI, Percentage Body Fat, Waist-Hip Ratio(WHR), Segmental Soft Lean Mass, The Ratio of Segmental Soft Lean Mass, Edema, Segmental Edema, Visceral Fat Area(Growth Chart for the children under 18 of age), Nutritional Evaluation (Protein, Mineral, Fat), Body Balance, Body Strength, Health Diagnosis, Target Weight, Weight Control, Fat Control, Muscle Control, Fitness Score Obesity Degree, BCM, BMC, BMR, AC, AMC, Body Composition History (Results of 10 measurement), Impedance of Each Segments & Frequencies
	For Child	Total Body water, Protein Mass, Mineral Mass, Fat Mass, Nutritional Evaluation (Protein, Mineral, Fat), Weight, Skeletal Muscle Mass, Body Balance Graph Growth Chart(Height, Weight), Weight Control, BMI, Percentage Body Fat, Obesity Degree, Basal Metabolic Rate(BMR), Growth Score, Bioelectrical Impedance of Each Segments & Frequencies
Applied Rating Current	100 μ A(1kHz), 500 μ A(others)	
Power Consumption	60VA	
Power Source	100-240V~, 50/60Hz	
Display Type	640x480 Color TFT LCD	
External Interface	RS-232C 3EA, USB Host (Transferring database to external device) 2EA, Ethernet(10/100 Base-T) 1EA	
Printer Interface	IEEE1284 (25pin parallel, with PCL 3 or above), USB	
Compatible Printer	Laser / Inkjet Printer (the printers recommended by Biospace)	
Dimensions	20.5(W) x 34.3(L) x 47.2(H) : inch 520(W) x 870(L) x 1200(H) : mm	
Machine Weight	99lbs.(45 kg)	
Measurement Duration	Less than 1 minute(Less than 2 minutes for research purpose mode)	
Operation Environment	10 ~ 40 °C(50 ~ 104 °F), 30 ~ 80% RH, 500 ~ 1060hPa	
Storage Environment	0 ~ 40 °C(32 ~ 104 °F), 30 ~ 80% RH, 500 ~ 1060hPa	
Weight Range	22 ~ 551lbs.(10 ~ 250kg)	
Age Range	6 ~ 99years	
Height Range	3ft. 7.4in. ~ 7ft. 2.6in.(110 ~ 220cm)	

⊙ The aforementioned information is subject to change without prior notice.

Certifications and patents obtained by Biospace



U.S. patent U.S. 5,720,296

Canada patent C.N. 2,225,184

Japan patent

ISO13485

ISO9001

GMP

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