www.e-inbody.com

Versatile application with advanced BCA technology

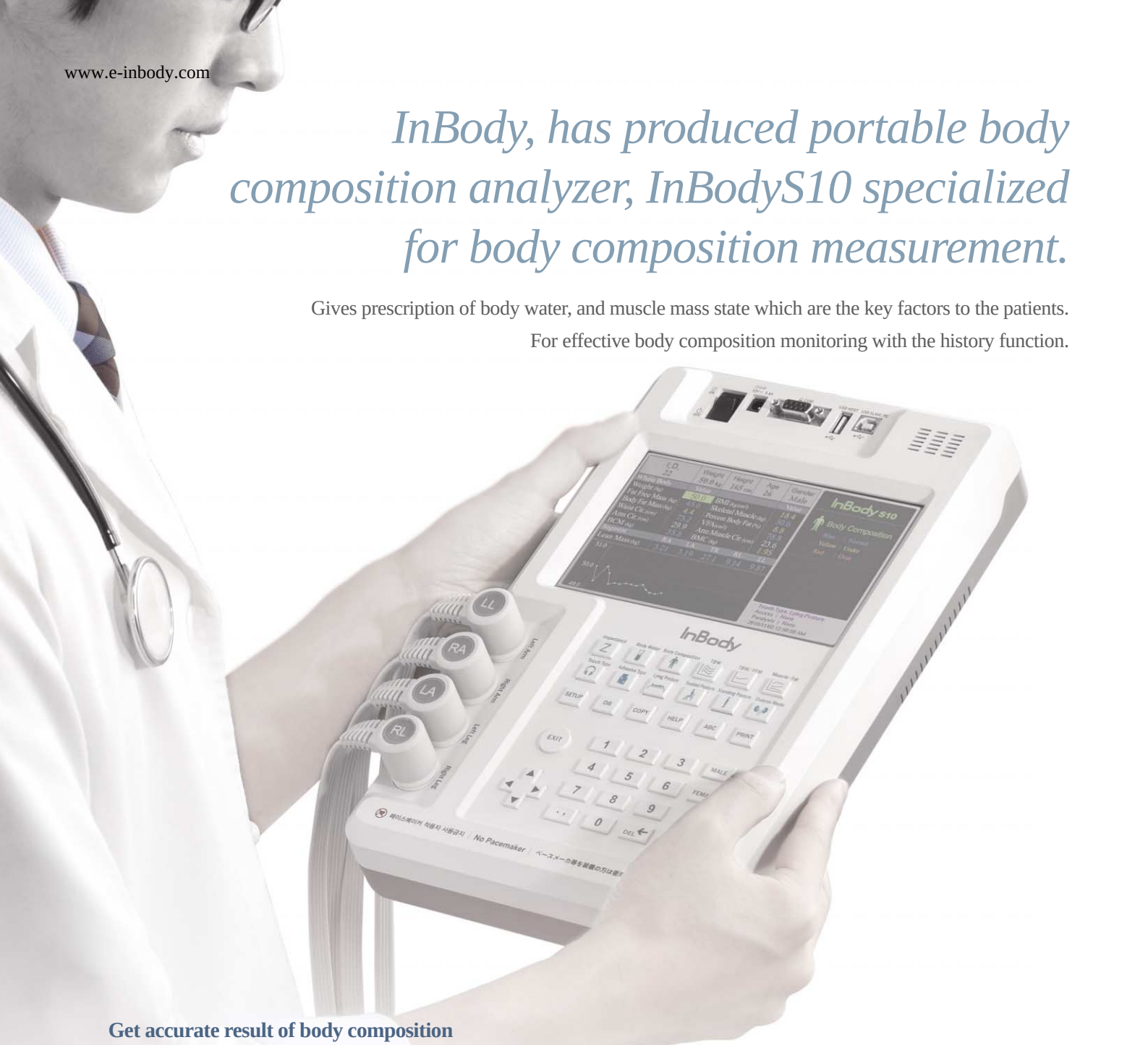
InBody S10

THE PRECISION BODY COMPOSITION ANALYZER

www.e-inbody.com

InBody, has produced portable body composition analyzer, InBodyS10 specialized for body composition measurement.

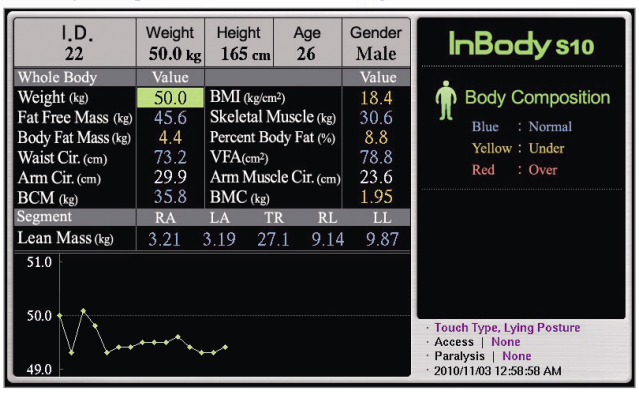
Gives prescription of body water, and muscle mass state which are the key factors to the patients.
For effective body composition monitoring with the history function.



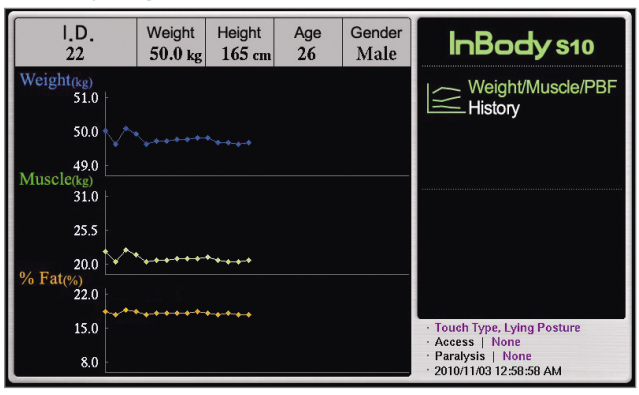
Get accurate result of body composition

- Offers intracellular, extracellular water of each body part, total body water and ratio of ECW/TBW.
- Easy to have a look at the accumulated result for intracellular, extracellular, total body water with history function.
- Body composition values are also offered to check whether the change of body water resulted from any other changes.
- The improved history function to confirm the changes .
- Enables storage of 50,000 data that is accessible at any time.
- See how the body composition level changes through a graph .

▶ Body Composition measurement image



▶ History image



ADVANTAGE

InBodyS10, with convenient design,
allows you to experience its speciality.

Convenient outdoor use with roving battery, portable bag, and thermal printer

▶ Battery (option)

▶ Thermal printer

▶ Portable bag

Reasonable touch type electrode use

▶ Adhesive type electrode

▶ Touch type electrode

Simple and intuitive design recognition of user interface

▶ Memory stick

▶ Touch screen

▶ Key pad

Handy use with its own cart (option)

InBody

I.D.	BIO_208	HEIGHT	164cm	DATE	2011. 01. 11
AGE	42	GENDER	Male	TIME	11 : 28 : 17

1 BIOSPACE
TEL:02-501-3939 FAX:02-501-3978

2 Body Composition Analysis

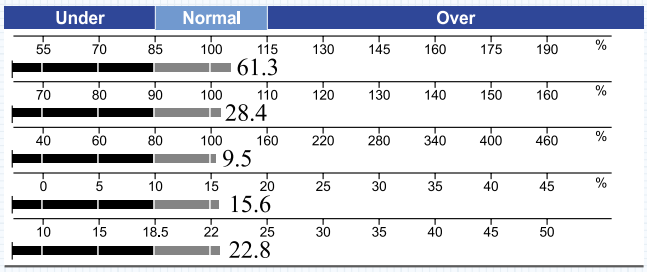
Element	Unit	Measured	Normal Range
Intracellular Water	ℓ	23.3	20.6 ~ 25.2
Extracellular Water	ℓ	15.1	12.6 ~ 15.4
Protein Mass	kg	10.1	8.9 ~ 10.9
Mineral Mass	kg	3.29	3.08 ~ 3.76
Body Fat Mass	kg	9.5	7.1 ~ 14.2

※Mineral Mass is estimated.

Values	Total Body Water	Soft Lean Mass	Fat Free Mass	Weight
23.3	38.4	49.1	51.8	61.3
15.1				
10.1				
3.29	non-osseous			
9.5	osseous : 2.67			

3 Muscle-Fat Analysis

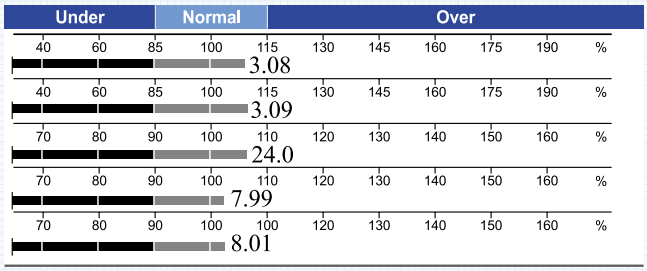
Index	Unit	Measured	Normal Range
Weight	kg	61.3	50.3 ~ 68.1
Skeletal Muscle Mass	kg	28.4	25.1 ~ 30.7
Body Fat Mass	kg	9.5	7.1 ~ 14.2
Percent Body Fat	%	15.6	10.0 ~ 20.0
BMI	kg/m²	22.8	18.5 ~ 25.0



4 Segmental Lean Analysis

★ : Access Location
• : Location of Paralysis

Segment	Unit	Measured	Normal Range
Right Arm	kg	3.08	2.40 ~ 3.24
Left Arm★	kg	3.09	2.40 ~ 3.24
Trunk	kg	24.0	20.3 ~ 24.8
Right Leg•	kg	7.99	7.05 ~ 8.61
Left Leg	kg	8.01	7.05 ~ 8.61



Research Items

5 Segmental Water Analysis

	Measured	Normal Range
Right Arm	2.40 ℓ	1.99 ~ 2.43
Left Arm	2.42 ℓ	1.99 ~ 2.43
Trunk	18.8 ℓ	15.8 ~ 19.4
Right Leg	6.25 ℓ	5.52 ~ 6.74
Left Leg	6.27 ℓ	5.52 ~ 6.74

6 ECW/TBW

	Measured	Normal Range
Total	0.392	0.36 ~ 0.39
Right Arm	0.381	0.36 ~ 0.39
Left Arm	0.388	0.36 ~ 0.39
Trunk	0.393	0.36 ~ 0.39
Right Leg	0.393	0.36 ~ 0.39
Left Leg	0.396	0.36 ~ 0.39

7 Nutrition Index

	Measured	Normal Range
BCM	33.4 kg	29.5 ~ 36.1
BMC	2.67 kg	2.54 ~ 3.10
AC	29.6 cm	-
AMC	26.7 cm	-
Waist Cir.	75.1 cm	Under 94.0
8 VFA	63.9 cm²	Under 100.0
BMR	1488 kcal	-
TBW/FFM	74.1 %	-

9 Body Water History

No	DATE	TIME	WEIGHT	ICW	ECW	TBW	ECW/TBW	TBW/FFM
1	11/01/11	11:28	61.3	23.3	15.1	38.4	0.392	74.1
2	10/10/11	16:23	62.8	23.2	13.7	36.9	0.372	73.7
3	10/09/10	11:45	65.1	24.6	15.4	40.0	0.385	74.2
4	10/08/09	15:34	61.9	22.1	12.9	35.0	0.369	73.4
5	10/07/09	10:47	64.8	23.0	14.6	37.6	0.389	74.3
6	10/06/12	16:25	61.3	24.3	13.8	38.1	0.363	73.4
7	10/06/12	11:12	64.1	24.1	14.8	38.8	0.380	73.8

Impedance

[Touch Type, Lying Posture, Before Dialysis]

		RA	LA	TR	RL	LL
$Z_{(\Omega)}$	1 kHz	272.7	267.7	25.7	228.2	222.2
	5 kHz	268.2	264.0	24.8	223.7	218.6
	50 kHz	242.6	241.2	22.2	202.1	197.9
	250 kHz	215.1	217.2	20.0	183.2	179.4
	500 kHz	204.2	209.0	19.1	178.3	174.1
	1 MHz	191.0	200.7	18.7	175.1	170.6
$Xc_{(\Omega)}$	5 kHz	9.5	9.1	1.1	7.7	7.3
	50 kHz	25.6	21.9	1.5	18.5	17.8
	250 kHz	32.9	24.9	1.2	13.8	13.5
Phase Angle(θ)	5 kHz	2.5	2.4	3.2	2.4	2.3
	50 kHz	6.1	5.2	3.9	5.3	5.2
	250 kHz	7.0	5.4	2.8	3.5	3.5

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 Analysis

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.

By showing the proportion of both BMI and percent body fat in their body, InBody S10 can identify hidden obese people. A comprehensive diagnosis of obesity can be made based on various approaches like Percentage Body Fat.

4 Segmantal Lean Analysis

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.

5 Segmental Water Analysis

InBody S10 shows segmental edema score as well as edema score for the whole body.

6 ECW/TBW

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

7 Nutriton Index

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

8 VFA(Visceral Fat Area)

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

9 Body Water History

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

ⓐ **Body water result sheet** Ⅰ

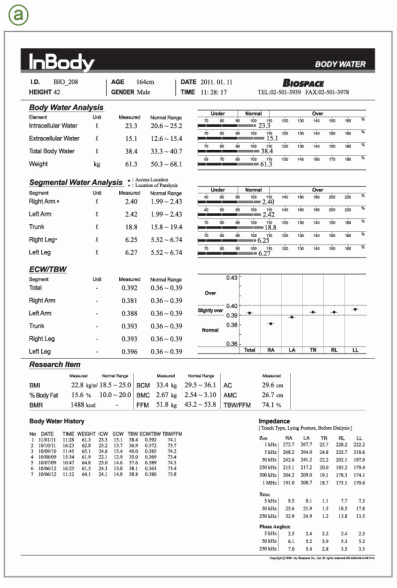
ⓑ **Body water result sheet** Ⅱ

Helps decide adequate dry weight based on body water balance and ratio(Information at Research Item part varies from body water result sheet Ⅰ to Ⅱ.)

ⓒ **Thermal result sheet**

Convenience for outdoor use

ⓐ



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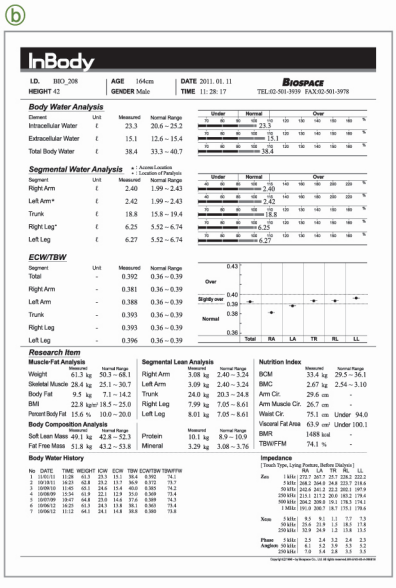

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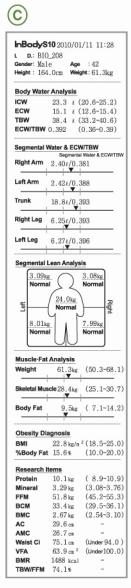


InBody S10 Specifications

Key specifications

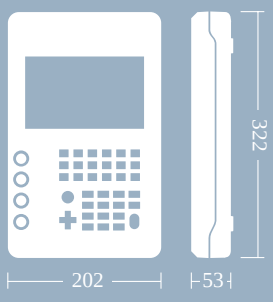
Bioelectrical Impedance Analysis(BIA) Measurement items	Impedance(Z)	30 impedance measurements by using 6 different frequencies (1㎑, 5㎑, 50㎑, 250㎑, 500㎑, 1000㎑) at each 5 segments of the body(right arm, left arm, trunk, right leg, left leg)
	Reactance(Xc) Phase angle(θ)	15 reactance(Xc), phase angle(θ) measurements by using 3 different frequencies (5㎑, 50㎑, 250㎑) at each 5 segments of the body(right arm, left arm, trunk, right leg, left leg)
Electrode Method	Tetrapolar 8-Point tactile/adhesive electrode system	
Measurement Method	Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA method	
Body Composition Calculation Method	No use of Empirical Estimation	
Outputs	Body Composition	Intracellular Water, Extracellular Water, Total Body Water, Protein Mineral, Body Fat, Soft Lean Mass, Fat Free Mass, Weight, Skeletal Muscle Mass, Body Fat Mass, Percent Body Fat, BMI, Segmental Lean Analysis, Segmental Water Analysis, Total and segmental water ratio(ECW/TBW), BCM(Body Cell Mass), BMC(Bone Mineral Content), AC(Arm circumference), AMC(Arm Muscle Circumference), Waist Cir., Visceral Fat Area, Basal Metabolic Rate(BMR), TBW/FFM, Body Water History(12times accumulated results), Impedance of Each Segments & Frequencies(Impedance, Reactance, Phase angle)
	Body Water Ⅰ	Intracellular Water, Extracellular Water, Total Body Water, Weight, Segmental Water Analysis, Total and segmental water ratio(ECW/TBW), BMI(Body Mass Index), Percent Body Fat, Basal Metabolic Rate(BMR), BCM(Body Cell Mass), BMC(Bone Mineral Content), Fat Free Mass, AC(Arm circumference), AMC(Arm Muscle Circumference), TBW/FFM, Body Water History(15times accumulated results), Impedance of Each Segments & Frequencies(Impedance, Reactance, Phase angle)
	Body Water Ⅱ	Intracellular Water, Extracellular Water, Total Body Water, Weight, Segmental Water Analysis, Total and segmental water ratio(ECW/TBW), Weight, Skeletal Muscle Mass, Body Fat Mass, BMI, Percent Body Fat, Segmental Lean Analysis, Soft Lean Mass, Fat Free Mass, Protein, Mineral, BCM(Body Cell Mass), BMC(Bone Mineral Content), AC(Arm circumference), AMC(Arm Muscle Circumference), Waist Cir., Visceral Fat Area, Basal Metabolic Rate(BMR) TBW/FFM, Body Water History(12times accumulated results), Impedance of Each Segments & Frequencies(Impedance, Reactance, Phase angle)

Functional specifications

Logo Display	Possible to input name of the user's place, address and contact number.
Type of Result Sheet	Body composition result sheet, Body water result sheet(Ⅰ, Ⅱ)(Printed Paper/Blank Paper) Thermal Result Sheet(when using Thermal Printer)
Portability	Indoor - with own cart(optional), outdoor - with own portable bag
Posture	Lying Posture, Seated Posture, Standing Posture
Electrode Type	Touch Type, Adhesive Type
Setting of Dialysis Mode	Measurement time(before/during/after dialysis), Access position, Paralyzed position set available
Data Storage	Possible to save the result when inputting ID(Up to 100,000)
User's Interface	Touch screen and key pad
Use of USB Storage Device	Possible to save data to USB Storage Device(compatible with Excel and Lookin'Body software) Should use the USB Storage Device provided by BIOSPACE
Data Back-Up	Possible to back up data through USB Storage Device and to restore the data to the InBody
Printer Connection	USB Port

Other specifications

Applied Rating Current	Under100㎂ (1kHz), 500㎂ (over 5kHz)
Adapter	Power Input AC100-240V, 50/60Hz, 1.2A Power Output DC 12V, 3.4A
Display Type	800×480 Touch Color LCD
External Interface	RS-232C 1EA, USB Slave 1EA, USB Host 1EA
Compatible Printer	Laser/inkjet PCL 3 or above and SPL(Printer recommended by BIOSPACE), Thermal Printer(Optional)
Dimensions	202(W)×322(L)×53(H): mm, 8(W)×12.7(L)×2.1(H): inch
Machine Weight	2kg(4.4lb.)
Measurement Duration	1min. 50sec.
Operation Environment	10 ~ 40°, 30 ~ 80%RH
Storage Environment	-20 ~ 60°, 10 ~ 95%RH, 50 ~ 106kPa(No condensation)
Weight Range	10 ~ 250kg(22 ~ 551lb.)
Height Range	95 ~ 220cm(3ft. 1.4in. ~ 7ft. 2.6in.)
Age Range	3 ~ 99 years



* Specifications are subject to be changed without prior notice.

Certifications and patents obtained by Biospace

CE 0120 | U.S. patent U.S. 5720296 | Canada patent C.N. 2225184 | Japan patent | ISO13485 | ISO9001 | Korea Food & Drug Adiministration

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