InBody 720

THE PRECISION BODY COMPOSITION ANALYZER
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 not be compared.

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.

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
InBody measures minute changes in body
Experience its speciality
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 having the essential parameters i.e. growth chart, body shape graph, etc.
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.

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.

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.

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.

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.

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

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

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

Various comprehensive evaluation
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.

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

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

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

Fitness Score
This generalized figure is suggested for subjects to remember easily. You need to make sure that score gets higher through weight control.
**Nutrition condition assessment that is essential for future growth**

Easily understandable explanation has been added on four major elements of human body. Also, nutrition condition that is important for child’s growth has been clearly assessed.

**Graph of weight, muscle, and body fat that assesses the qualitative growth**

Balanced growth can occur when the ratio of muscle and body fat, which make up the weight, is in balance.

Check for the children’s qualitative growth by looking at the graph shape of weight, muscle, and body fat.

- **‘I’ shape:** Balance of weight, muscle and body fat. The ratio of muscle and body fat is adequate.
- **‘C’ shape:** Lacks muscle and much body fat. Better to increase muscle or decrease body fat.
- **‘D’ shape:** Strong and has lots of muscle. Healthy state due to lots of muscle.

**Body balance that points to weak part of the body**

It is important to know the shape of the rectangle and to what extent the rectangle covers.

Based on the shape of rectangle, it is possible to assess whether each part of the body is making balanced growth or not.

By looking at the area bounded by each points of the rectangle, it is possible to know whether arms and legs muscles have developed or not. Areas within the borders of weak section require more attention to improve that state.

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**For Child**

Result Sheet Can Be Understood by Children.
Growth score that evaluates qualitative and quantitative aspects of growth

Growth score is based on children’s height and weight as well as body fat. The score evaluates children’s growth in both qualitative and quantitative ways.

Growth Curve shows growth rate

It is important to know exactly where your child stands compared to the children of same age. Those under 10% and above 90% require more careful supervision.

Diagnosis of obesity that hinders the growth

Diagnosis of obesity based on BMI, percentage body fat and obesity degree. It diagnoses exterior obesity using BMI and obesity degree, while does practical obesity based on percentage body fat.

Weight control that doesn’t interface with children’s growth

Presents weight control amount that allows children to maintain healthy body composition state.

Check your own impedance

Confidently presents impedance for each frequency for each of five parts, trunk and four limbs (arms and legs).
### Specifications

<table>
<thead>
<tr>
<th>Measurement Method</th>
<th>Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Items</strong></td>
<td><strong>Impedance (Z)</strong> 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)</td>
</tr>
<tr>
<td></td>
<td><strong>Reactance (Xc)</strong> 15 Impedance Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 250kHz) at Each 5 Segments (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)</td>
</tr>
<tr>
<td><strong>Electrode Method</strong></td>
<td>Tetrapolar 8-Point Tactile Electrode System</td>
</tr>
<tr>
<td><strong>Body Composition Calculation Method</strong></td>
<td>No Empirical Estimation</td>
</tr>
</tbody>
</table>
| **Outputs** | For Adult
|                     | 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\(\mu\)A (1kHz), 500\(\mu\)A (others) |
| **Power Consumption** | 60VA |
| **Power Source** | 100-240V~, 50/60Hz |
| **Display Type** | 640×480 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)×34.3(L)×47.2(H) : inch
520(W)×870(L)×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 \(^\circ\)C, 30 ~ 80% RH, 500 ~ 1060hPa |
| **Storage Environment** | 0 ~ 40 \(^\circ\)C, 30 ~ 80% RH, 500 ~ 1060hPa |
| **Weight Range** | 22 ~ 551lbs.(10 ~ 250kg) |
| **Age Range** | 6 ~ 99 years |
| **Height Range** | 3ft. 7.4in. ~ 7ft. 2.6in. (110 ~ 220cm) |

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

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### Certifications and patents obtained by Biospace

[Image of certifications and patents]

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