# InBody



# InBody380

# **High Accuracy**

Accurate measurements derived from InBody Technology

# **High Reproducibility**

Ergonomic Electrodes designed for ensured reproducibility

# **Easy Transportation**

Compact and foldable design for mobility

# **InBody Technology**

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

## **Direct Segmental Measurement-BIA**

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



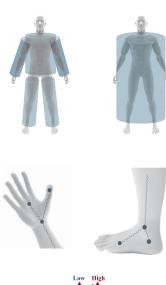
Using the structural features of the human body, InBody pioneered '8-Point Tactile electrode with Thumb Electrodes'. This ensures InBody measurements start at the same location on the wrists and ankles, guaranteeing reliable and reproducible results.

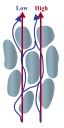
#### Simultaneous Multi-Frequency Impedance Measurement

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

#### No Estimations or Empirical Equations on Measured Values

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



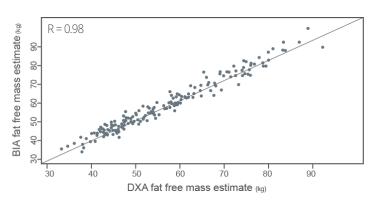






#### Over 98% Correlation to DEXA on Accuracy

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



Ryan T Hurt et al., The Comparison of SMF-BIA and DEXA for Estimating Fat Free Mass and Percentage Body Fat in an Ambulatory Population,

J Parenter Enteral Nutr. 2021 Aug; 45(6):1231-1238

# **Enhanced User Experience**

## **Quick Measurement**

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

#### **Convenient Measurement**

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

## **Portable Design**

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

#### **Smart Recognition**

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





# Comprehensive Parameters for Professionals

#### **Body Water Balance**

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

### **Cellular Integrity Check**

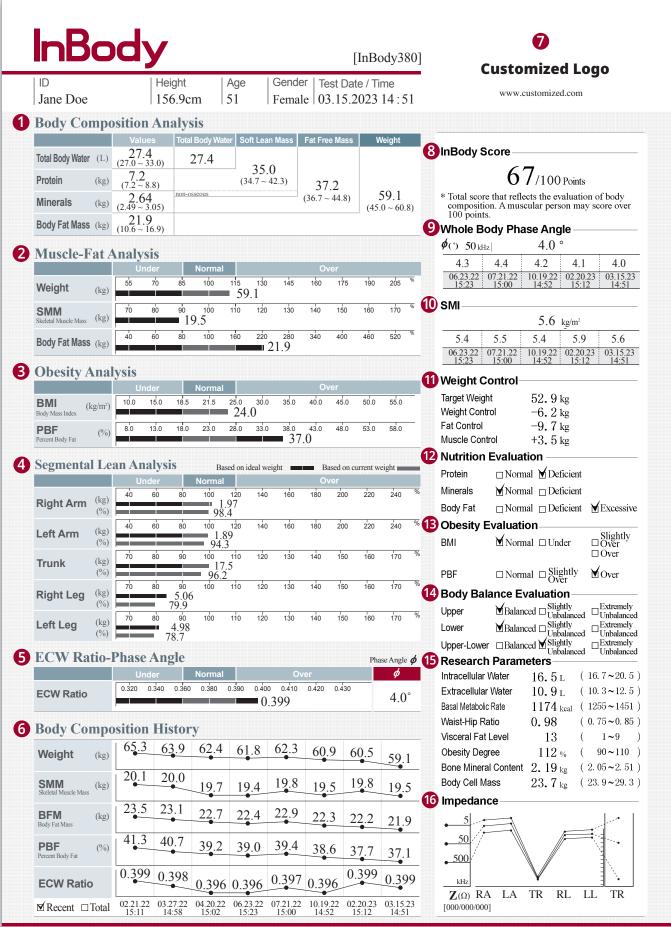
Phase Angle is a vital measure that signifies cellular health by revealing Cellular Integrity and overall physiological function. InBody's Phase Angle assists in evaluating an individual's cellular health and guiding necessary actions.

#### Sarcopenia Assessment

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

# **InBody Result Sheet**

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



# **Result Sheet Interpretation**

# 1 Body Composition Analysis

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

# 2 Muscle-Fat Analysis

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

## 3 Obesity Analysis

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

# 4 Segmental Lean Analysis

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

# **5** ECW Ratio-Phase Angle

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

# 6 Body Composition History

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

# 7 Logo Customization

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

## 8 InBody Score

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

# Whole Body Phase Angle

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

## 10 SMI

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

# **11** Weight Control

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

# 12 Nutrition Evaluation

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

# **13** Obesity Evaluation

Evaluate obesity based on BMI and Percent Body Fat.

# 14 Body Balance Evaluation

Evaluate the balance of the body based on Segmental Lean Analysis.

# 15 Research Parameters

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

# 16 Impedance

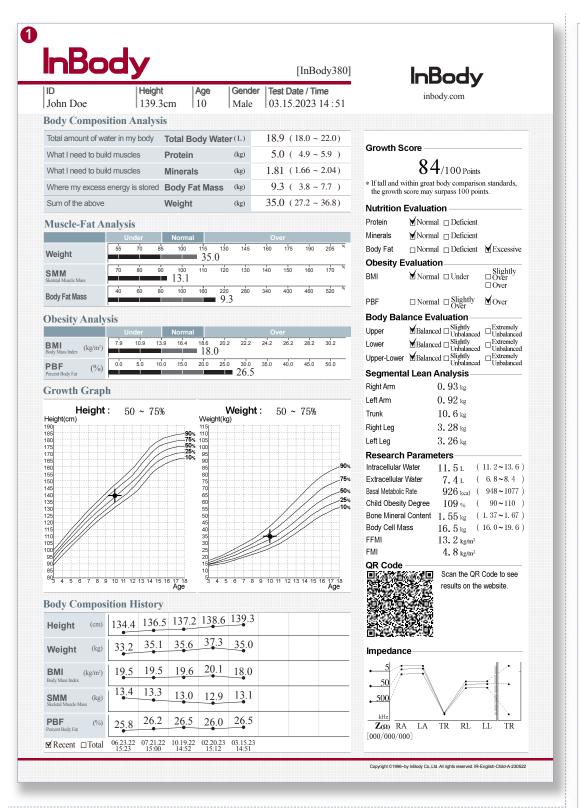
Impedance is the resistance that occurs when micro-alternating current is applied to the human body. InBody visualizes the impedance with the graph. You can easily detect if there is a reversed impedance error by checking crossed lines in the impedance graph. Below the impedance graph, you can also check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

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

# **Optional Results Sheet**

# 1 InBody Result Sheet for Children

With the InBody Result Sheet for Children, you can assess and track a child's growth progress.



# 2 Thermal Result Sheet (Optional)

Thermal Result Sheet is available by connecting the optional TP100 provided by InBody. Parameters on the Thermal Result Sheet are customizable from the InBody device settings.



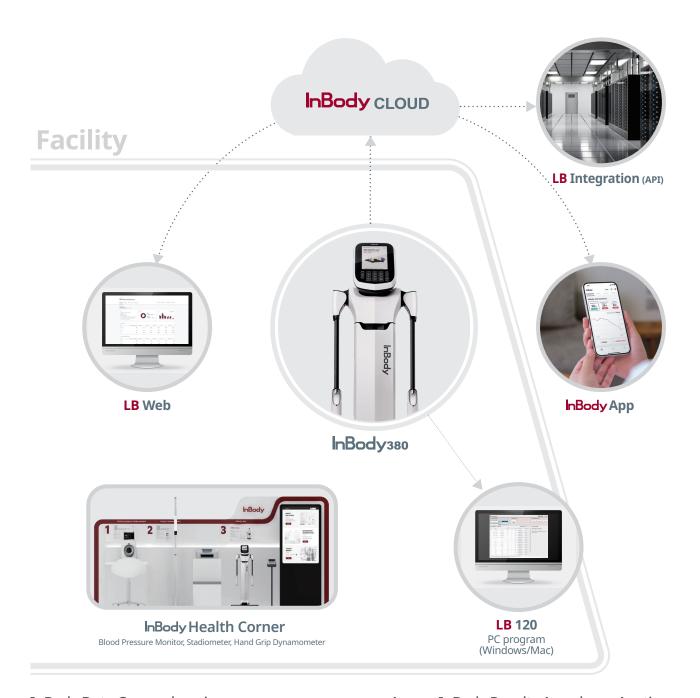
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# **InBody Data Integration Solution**

Manage and utilize your InBody data in various settings.



## **InBody Data Comprehension**

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

#### **Analytical Dashboard and Report**

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

#### Monitor Lifestyle Habits

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

## Access InBody Results Anywhere, Anytime

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

### **API Integration**

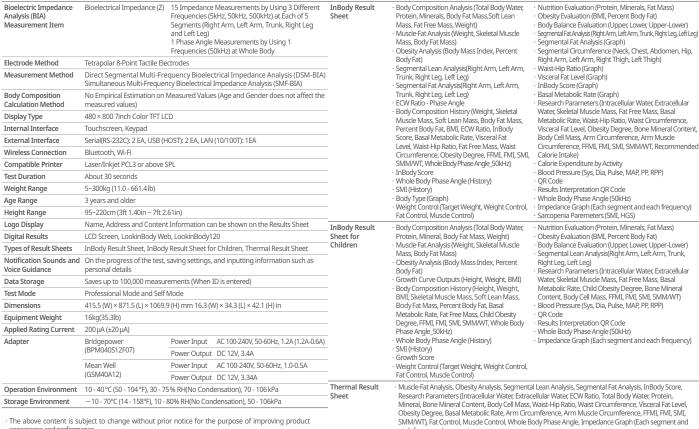
Upon customer consent, utilize InBody data through API and SDK.

#### Various File Formats

Print InBody data as an image, excel file etc.

# **Specifications**

# InBody380 Body Composition Analyzer



- The above content is subject to change without prior notice for the purpose of improving product appearance and performance
- Note that this is a medical device, and use it with proper care and knowledge of its precautions and instructions.
- The results about Blood Pressure or Hand Grip Stength are only available when integrated with InBody Blood Pressure Monitor (BPBIO Series) or InBody Handgrip Dynamometer (InGrip).

  QR Code is registered trademark of DENSO WAVE INCORPORATED.

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#### Certifications obtained by InBody



























InBody's Intellectual Property Rights

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