The InBody520, cutting edge body composition features

Unique Design.
Adds prestige to any environment.

Searchable/Downloadable Database.
100,000 searchable and downloadable entries allows clients to retrieve past results.

Comprehensive Full Body Analysis.
The InBody performs a full body analysis in less than a minute.

With innovative features for your business

- High resolution color TFT lcd
- User friendly operation and setup menu
- Classical music option during measurement
- Eliminates data entry with USB export to spreadsheet format

The unique results sheet provides detailed information unlike other devices

- Advertise your business with a personalized logo printed on each results sheet
- Print on our colorful preprinted results paper or on white Letter size paper
- Detailed graphs provide obesity diagnosis and relationship of muscle to fat
- Segmental lean graphs provide upper/lower or right/left body balance comparison
- Displays individual recommended ranges of body composition
- Metabolic rate (BMR) provides number of calories burned at rest
- Muscle-Fat Control serves as guideline of how to reach ideal composition based on current analysis
The New Standard in Body Composition

The InBody will revolutionize your business and provide validation to the effectiveness of your program.

In-depth personalized client evaluation with the InBody

- Non-invasive full body measurement with in-depth results, in less than 50 seconds
- Full page results sheet offers professional assessment of body composition
- Proper obesity diagnosis based on measured muscle and fat values
- Determine if fat loss is being achieved for program personalization
- Identify improvement areas with segmental lean development analysis
- Monitor changes in pounds of muscle in each section of the body from test to test
The exclusive features of the InBody are essential in attaining both accurate and reproducible results.

Correlation study with DXA shows that InBody is absolutely accurate ($r = 0.98$)

### Core Technology

**Direct Segmental Measurement**
Biospace patented technology ensures measurement accuracy by producing impedance values for each segment: 4 limbs and the trunk.
Accurate impedance measurement of the trunk segment is vital in bioimpedance measurements.

**Multi-frequency measurement**
Multi-frequency measurement provides precise body water values ICW (Intracellular Water) and ECW (Extracellular Water)
Exact measurement of body water improves accuracy.

**8-point tactile electrode system**
Enhances accuracy by fixing the measurement location of current and voltage.
The fixed measuring location creates a high reproducibility rate.
Eliminates human error caused by varying hand and foot placement.

**No use of empirical estimation**
With the advances Biospace has made (direct segmental multi-frequency 8 point tactile electrode method), there is no need to use empirical estimations.
No estimation is needed due to the accurate segmental measurement of the trunk.
Gender, age, and body type do not affect the results.

### The most comprehensive Result sheet

The InBody520 Results Sheet is user friendly and includes useful reference data.

**No Reliance on Empirical Estimation**
Some BIA devices will automatically add 7% body fat just by entering FEMALE as the gender. The InBody assesses body content rather than body type using calculations based on the norm.

**Great Marketing Tool**
Business name, address and contact number are automatically displayed when results sheet is printed.

**Multi-Frequency**
The InBody520 uses 5kHz, 50kHz, and 500kHz to provide accurate results for both intra and extracellular water. This is especially important when measuring the elderly, obese, athletic, or non-average.

**Direct Segmental Analysis**
The body is measured in 5 segments: arms, legs, and the trunk. Proportional balance can then be evaluated. When measuring segmental, accurate results are achieved regardless of muscle distribution. More importantly, an accurate measurement of the trunk is attained.

**Basal Metabolic Rate**
The InBody520 determines BMR, strictly using lean body mass through the J.J. Cunningham equation. Other equations rely on age, weight, gender, etc. and do not take into account muscle mass. Since muscle burns more than fat, it is understandably one of the most important components when determining BMR.
Only the InBody offers a full page results sheet. Both professionals and end users find our full page colorful results sheet not only validates weight loss and nutrition programs, but also offers true motivation when trying to reach your weight loss goals.

The InBody520 specializes in measuring the non-average. Elderly, young, obese, and athletes can all get reliable results from the InBody. By measuring each of the 5 segments of the body at 3 different frequencies, the InBody520 uses 15 impedance measurements to obtain results. The use of empirical estimations is no longer necessary.

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**InBody 520**

**Body Composition Analysis**

**Weight**
- Under
- Normal
- Over

**Lean Body Mass**
- Under
- Normal
- Over

**Body Fat Mass**
- Under
- Normal
- Over

**Body Water Balance**

- **Intracellular Water**
  - Under
  - Normal
  - Over

- **Extracellular Water**
  - Under
  - Normal
  - Over

- **Total Body Water**
  - Under
  - Normal
  - Over

**Obesity Diagnosis**

- **BMI (Body Mass Index)**
  - Value
  - Normal Range
  - BMI = \( \frac{\text{Weight}(kg)}{\text{Height}(m)^2} \)

- **Percent Body Fat**
  - Value
  - Normal Range
  - BF = \( \frac{\text{Fat}_{\text{B}}}{\text{Weight}} \times 100 \)

**Segmental Lean Development**

- **Right Arm**
  - Under
  - Normal
  - Over

- **Left Arm**
  - Under
  - Normal
  - Over

- **Trunk**
  - Under
  - Normal
  - Over

- **Right Leg**
  - Under
  - Normal
  - Over

- **Left Leg**
  - Under
  - Normal
  - Over

**Impedance**

- 5 kHz: RA 41.7, LA 42.0, TR 31.1, RL 28.7, LL 26.2
- 50 kHz: RA 45.2, LA 43.1, TR 27.3, RL 25.7, LL 23.6
- 500 kHz: RA 345.7, LA 346.5, TR 28.8, RL 20.7, LL 21.9
Specifications

**Key specifications**

**Bioelectrical Impedance Analysis (BIA)**
- Impedance(Z): 15 Impedance measurements by using 3 different (50Ω, 500Ω, 5000Ω) at each 5 segments of the body (right arm, left arm, trunk, right leg, left leg)

**Electrode Method**
- Tetrapolar 8-Point Tactile Electrode System

**Measurement Method**
- Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA method

**Body Composition Calculation Method**
- No use of Empirical Estimation
- Weight, Lean Body Mass, Body Fat Mass, Intracellular Water, Extracellular Water, Total Body Water
- Total and segmental water ratio (ECW/TBW), BMI, Percent Body Fat, Segmental Lean Development
- Dry Lean Mass, Fat Control, LBM Control, Basal Metabolic Rate (BMR), Impedance of Each Segments & Frequencies

**Outputs**
- Possible to input name of the user’s place, address and contact number
- Body composition results sheet (Printed Paper/Blank Paper)
- Possible to turn the sound on during measurement (3 types)
- Result of measurement and the process of measurement will be shown on Color LCD
- Possible to save the result when inputting ID (Up to 100,000)
- Possible to save data to USB storage device
- Should use the USB storage device provided by BIOSPACE
- Possible to back up data through USB storage device and to restore the data to the InBody
- USB port

**Other Specifications**
- Possible to input name of the user’s place, address and contact number
- Possible to back up data through USB storage device and to restore the data to the InBody
- USB port

**Logo Display**
- Body composition results sheet (Printed Paper/Blank Paper)

**Type of Result Sheet**
- Result of measurement and the process of measurement will be shown on Color LCD

**Sound**
- Possible to turn the sound on during measurement (3 types)

**Measurement Screen**
- Result of measurement and the process of measurement will be shown on Color LCD

**Data Storage**
- Possible to save the result when inputting ID (Up to 100,000)

**Use of USB Storage Device**
- Possible to save data to USB storage device
- 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**
- Possible to input name of the user’s place, address and contact number

**Applied Rating Current**
- 400µA

**Power Consumption**
- 50VA

**Adapter**
- Power Input AC100~240V, 50/60Hz, 1.2A
- Power Output DC 12V, 3.5A

**Display Type**
- 640 x 480 Color LCD

**External Interface**
- RS-232C 3EA, USB Slave 1EA, USB Host 2EA, Ethernet (10T) 1EA

**Compatible Printer**
- Laser/Inkjet PCL 3 or above and SPL (Printer recommended by BIOSPACE)

**Dimensions**
- 20.6(W) x 33.2(L) x 36.8(H) : inch
- 522(W) x 843(L) x 935(D) : mm

**Machine Weight**
- 26kg (57lb.)

**Measurement Duration**
- 50sec.

**Operation Environment**
- 10 ~ 40° (50 ~ 104° F), 30 ~ 75%RH, 70 ~ 106kPa

**Storage Environment**
- -20 ~ 70° (-4 ~ 158° F), 10 ~ 95%RH, 50 ~ 106kPa (No condensation)

**Weight Range**
- 10 ~ 250kg (22 ~ 551lb.)

**Height Range**
- 152 ~ 220cm (3ft. 8.6in. ~ 7ft. 2.6in.)

**Age Range**
- 3 ~ 99 years

*Specification is subject to be changed without prior notice.*