



SAM'S INTERNATIONAL®

An ISO CERTIFIED COMPANY

One Stop Shop For All Medical Equipment Requirement.

Features

- Build-in thermal printer
- With 2 testing frequencies: 50, 250KHz
- 8 electrodes, whole body testing
- Large (8") color TFT touch LCD
- Automatic weight scale
- Automatic personal information memory
- Support colorful report printing through outside printer



Health Management on body composition analyzer



The Meaning of Body Composition Analysis

Human body consists of water, protein, fat, and minerals and these elements are in a certain ratio. Because the ratio is related to health, if we can find out the actual ratio of these elements, it is possible to see if an individual is in a healthy state. For example, abnormal fat distribution and metabolism.

- For gender identity analysis
- For age health assessment
- For the health status of many chronic diseases
- Helping plan for physical training
- Helping achieve fat weight control
- Evaluate progress and achievement of weight control
- Book data for proper therapy



BIA Technology



Electrical part of human body has significant difference resistance. Fat and body water will be different. High fat content will lead to high impedance and will change the ratio of the impedance measurement of each part.



Each frequency electrical impedance analysis (EIM) using two different frequencies (50KHz and 250KHz) to detect current flow. 50KHz current passes cell and tissue through which allows water to enter the tissue and conduct water. At 250KHz current will not penetrate cell membrane and flow through cell membrane resistance. This will help us measure electrical activity on the cellular level of individual cells, especially muscle.



It is an advanced technique which helps health status. Measure electrical current through several channels and using advanced and safe self-current electrode and other methods, which can get accurate body composition information.

Specification

MODEL	BCA-1C
Measuring method	Direct Impedance Multi-Frequency Bioelectrical Impedance Analysis (BIA) (50KHz/250KHz)
Testing frequency	50, 250 KHz
Electrode Method	Single-pole 8 Electrode Surface Electrode System
Test item	Body Weight (User Selected) Total Body Water (TBW) Extracellular Mass, Fat Mass, Free Mass, Muscle Mass, Protein Body Fat (PBF), Protein Body Fat (Protein/Fat) Visceral Fat (VF), Body Mass Index (BMI), Total Metabolic Rate (TMR)
Display	8" Color Screen, Body Shape Graph, Body Age
Weight Management	Target Weight, Weight Control, Fat Control, Muscle Control
Health Analysis	Excess Fat, Mineral Level
Measuring Range	100~200kg
Current	100µA
Power Supply	AC 220V/50Hz
Display	8" (203mm) color TFT touch LCD
External Interface	RS232C port, USB port, RS485 (optional)
Printer	Build-in thermal printer or designed printer
Dimension	410(L) x 400(W) x 1400(H)mm
Machine Weight	15kg
Measurement Error	±0.5% (max)
Weight Range	50~250kg (UK, Max: 450lb)
Weight Range	50~250kg (50~100kg)
Age Range	0~99
Operation Environment	10~40°C (50~104°F) 30~80%RH, 500~1000Pa
Storage Environment	0~40°C (32~104°F) 30~80%RH, 500~1000Pa

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Quality Management System ISO 9001:2008
Environmental Management System ISO 14001:2004
Product Safety Management System ISO 13485:2003

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BCA-1C Compact™

Body Composition Analyzer



For everyone who pursuit health

With professional type accuracy and function, at home product price, BCA-1C is a popular choice for small business and family. It use 2 testing frequencies, 8 electrodes, 6 circuit whole body testing, used conveniently and best report.

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FACTORIES AT GURGAON & RAI INDUSTRIAL AREA



SAM'S INTERNATIONAL[®]

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One Stop Shop For All Medical Equipment Requirement.



2 testing frequencies
build-in thermal printer & outside printer
support, with visceral fat analysis and smaller
size.

Technical inspiration from Tsinghua University

Tsinghua University, the most famous university in China, is well known for its fundamental scientific and engineering education. THU, as the subsidiary of Tsinghua Group (operated by Tsinghua University), take advantage of the rich technology resources of Tsinghua university, and enjoy the top expertise from the University. Most of our excellent products come from the co-operation with Tsinghua. For example, the body composition analyzer is a result after 5 years basic research and passed examinations in many famous



Colorful Printing Report

Unique body age function let you know your physical age

Detailed number for every composition

Show the relationship between various compositions

Visual bar icons show the risk level of you 'body fat'

Colorful mark of all items composition

Print user's name and contact, facilitating commercial promotion

Help reader identify their body type easily

Clearly identify level with BMI and PBF%, more practical

Show BMI type easily

Each item is featured with graphs bar

Hospitals. The strict procedure ensure our analyzer to be on the top level.

Guaranteed by MRI—the golden standard

Most applicable BA system need to be calibrated by other methods, among those, MRI scanning is more accurate than DEXA, CT and ultrasonic. MRI (Magnetic Resonance Imaging) can scan whole body and regarded as "Golden Standard".

Our research team use whole body scan to get continuous image of every cross section (interval 1 cm) of human body. By using specific software, we identify each composition and calculate its area. Then we



calculate the volume of each composition and work out the final result with our patented equation. Our analyzer is with high correlation with DEXA result as well.

Real multi-frequency, multi-circuit

Modern science proved that low frequency current pass the human body in different way with high frequency current. Low frequencies flow through the external water and are unable to penetrate the cell wall. A higher frequency will measure the water content inside of the cell because it penetrates the cell wall. By using a diverse set of frequencies, we can accurately measure fluid inside and outside the cell separately. Our BCA series based on 2% different frequencies that flow through each segment, providing a more accurate body impedance information. Our unique DDS technology produce the most accurate



frequency for testing, DDS (Direct Digital Synthesis) is the most advanced system to output high definition sine wave alternate current.

Segmental Analysis

Different part of human body play different role in total impedance. The impedance of whole body is not sensitive to body composition. With our advanced segmental impedance measuring mode, we divide the body as 5 parts Left Arm, Right Arm, Trunk, Left Leg and Right Leg. BCA measure the impedance of individual part and calculated together in our equation. Combined with the

6 circuits testing method, BCA can tell the most accurate composition of every part of your body.

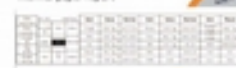
Software Support

Our BodyVista™ system combined the power of BCA embedded OS with PC's processing capability. With this powerful software, you can test and print report from PC, manage member information, setup user's name, storage all the data, backup database, do complex inquiry, and get various statistic charts. The software make the body composition analyzer a powerful consulting system.

Operating Interface



Thermal paper report



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