Medical Diagnostic Device

ACUNIO BC510

Body Composition Analyzer

The BC510 is a multi-frequency, whole body and segmental Body Composition Analyzer that utilizes innovative BIA technology to ensure accurate and precise results. This cutting edge technology utilizes harmless, low-level frequencies to offer quick and easy total body composition assessments through the LCD touch screen, printouts and client tracking software.

The results sheet displays an easy-to-read graphical analysis to help maintain healthy body composition and whole body health trending.



www.accuniq.com

CCUNIQ ECSIO

ACCUNIQ Medical Devices to Help Promote Health & Longevity

ACCUNIQ medical devices are manufactured by SELVAS Healthcare, a global company that incorporates the most advanced technology available to provide accurate and reliable results. We are committed to partner with our customers to provide high quality products to help their patients and clients monitor and improve their health.

Crazy Fit, Incredible Life Our one and only desire - a perfect body!

History

2016 Corporate name changed to SELVAS Healthcare, Inc., and listed in KOSDAQ

- 2015 World's first dual-type sphygmomanometer system approved by the US FDA
- 2014 Grand Prize, 1st People's Happiness Premium IT-incorporated Korean Medical Device Awards
 - Popularity Award, Analysis and Diagnosis System Segment 2014 Selected by "Health & Beauty," a German fitness magazine
- 2010 Advanced Venture Company Award
- 2006 Director's Award by the Korea Food and Drug Administration (KFDA)
- 2005 Bronze Prize, 13th Republic of Korea Technical Awards

Silver Prize, Venture Design Awards

- Bronze Medal of Industrial Effort, 35th Precision Technology Promotion Contest
- 2004 Body Fat Analyzer Selected as a World-Class Product (Ministry of Commerce Industry and Energy)
- 2003 Director's Award by the Korea Food and Drug Administration (KFDA)
- 2001 Prime Minister's Award, Trade Day

KGMP(Korea Good Manufacturing Practice)-Certified

2000 Top Prize, Leaders' Venture Awards

President Kim, Dae-Jung and First Lady visited our company

odDesig Award

1999 Presidential Award in National Venture Awards Selected as a World Top-class Company

Certifications and Awards







Presidential Award in National Venture Award Bronze Medal of Industrial Effort in Precision Technology Promotion Contest

CE Certified

ACCUNIQ medical devices have been used globally to measure and analyze overall health results with our healthcare and fitness professionals in mind where accuracy is of the utmost importance. They are currently used globally in hospitals, medical facilities, doctor's offices, weight loss centers, Fitness Centers, nursing homes, public health facilities, and retail locations.







- Pediatric Mode Support
- Store up to 100,000 analysis data that can be recalled with ID number
- Client Tracking Software Provided
 (ACCUNIQ MANAGER)
- Body Composition Analysis (includes 8 previous analysis to track client progress)
- USB and RS232 ports for computer or printer interface
- Optional Bluetooth Wireless Communication

Innovative technology meets stylish design. The BC510 utilizes the most advanced bio-electrical impedance (BIA) analysis technology to provide accurate and dependable results that have been validated by DEXA analysis.



Anthropometer Made more precise, the performance of the anthropometer enhances the confidence level of the analysis. Thermal Printer Use the thermal 0 printer to print the analysis quickly and easily. Ankle Electrode The optional ankle electrode analyzes your health without taking off your socks or nylons. Electrode Handle Hanger This hanger is used to hang the curved electrode handles.

Ultrasonic

B T

ETT

7" Wide Color LCD Touch Screen

Diverse Range of Options

ACCUNIQ body composition analyzers offer multiple options to meet multiple end-user requirements.



Ankle Electrode

This option helps you proceed with the analysis without

taking off your socks or nylons and protects you from germs or fungi. It can also provide a more accurate analysis for users with thick dead skin cells on their feet.



Ultrasonic Anthropometer

This option accurately and quickly measures your height

automatically with the distance analysis method based on the AI and ultrasonic sensor.



Segmental Result and Result Sheet for Infants

The result sheet provides details on the analysis results

from 5 different body parts and also data on infants including infant growth curve.



Thermal Printer

Use the thermal printer to quickly and easily print the analysis.



Bluetooth

Connect the thermal printer to your PC or mobile device wirelessly via Bluetooth. Data

is transferred and saved as soon as the analysis is complete without QR code or result sheet.



Fully Automatic Sphygmomanometer

Connect our fully automatic sphygmomanometer for

hospitals to control your blood pressure in connection with your body fat, which can help manage your body weight more efficiently.



USB Memory

Use the USB memory to save the analysis data and view it on your PC.

Various Results and Descriptions

ID / NAME :	SELVAS HEALTH	CARE123 / M	Michael							2
Height : 170.	.6 cm Age : 35	years Gende	r: Male	Test Date/Tim	e:21 - 09 - 2	016 09:34				LV35
Body Comp	osition Analysis									
Body Water	values Bo		Soft Lean Mass	Fat-Free Mass	Weight	7 Com	prehensive	Evaluation	n	
· (l)	(37.4 ~ 39.7)	32.8	41.9 (44.1 ~ 53.9)			Body		over f	at class 2	
Proteins (kg)	9.1 (10.2 ~ 11.5)		(44.1 00.0)	45.0 (51.2 ~ 54.4)			ical Age		38	years
Minerals (kg)	3.1 (3.7 ~ 3.8)				60.1		Metabolic Rate		1340	kcal
Body Fat	15.1 (9.0 ~ 13.4)				(54.4 ~ 73.6)		Daily Energy Ex Cell Mass	penditure	2063 30.7	kcal kg
						O Rodu	Palanca Ar			
Muscle/Fat	Analysis				[kg]	· ·	Balance As	1		balanced Π
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SMM	70 80 90	100 110	120 130 1	40 150 160	170 180 [%]	Cont	rol Guide			
Skeletal Muscle Mass	40 60 80		170 220 2	270 320 370	420 470 [%]	· ·	Weight	63.2		kg
rat Widss		1	5.1			Weigh	t Control	+3.1		kg
						Musc	e Control	+7.1		kg
Obesity Ana	-					Fat Co	ntrol	-3.9		kg
BMI (kg/m ²)	Under 14,50 16,50 18,50		27,21 29,42 31	Over	38.28 40.50 [kg/m²]	1 Obes	ity Assessm	ent		
Body Mass Index		- 20.0					,		_	
	10.0 12.5 15.0	20.6	204 220 2	0.0 45.7 50.1	ER E 65 0 [9]	BMI	underw	ight 🖌 normal	overweight	obese
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PBF (%)	10.0 12.5 15.0			19.2 45.7 52.1	58.5 65.0 [%]	PBF		normal	over-fat	
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PBF (%) Percentage of Body Fat Abdominal WHR Walat to Hip Ratio WHR Viscenal Fat Level VFL Viscenal Fat Level	Obesity Analysis	17.5 20.0 S Normal . 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.	9 y Visceral 0 11 11 100 107	Over besity 1 Viso 16 based on current	eral Obesity II	PBF Obesi Abdor Circun I Impe Ereq RA.Im LA.Im Trunk RL.Im LL.Im LL.Im Systol	initial iference 82,0 edance (570) 5K 500 9 336 335 29 30 2, , 292 244 C Lt125 mm	□ normal 3,1 (−10,0° 0 (Less that 0 (Less th	□ over-fat →+10.0) an 102cm) 550K 213 215 60 56 mmHg	obese %
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1 Body Composition Analysis

This is a measurement of analysis results of body components(e.g., body water, proteins, minerals and body fat) relative to normal ranges.

2 Muscle/Fat Analysis

This graph of the Skeletal Muscle Mass(SMM) and fat mass illustrates the proportion of skeletal muscle and body fat that comprise the total body weight.

Obesity Analysis

This graph of percentage of body fat(PBF) and body mass index(BMI), of which the latter is critical in assessing the prevalence of obesity, illustrates clinical data needed for obesity analysis.

4 Abdominal Obesity Analysis

Fat in the body is divided into subcutaneous fat and visceral fat. Visceral fat is closely connected with adult diseases, and measured based on several factors.

5 Segmental Lean Analysis

Displays the results of SLM measurements as a graph. There are five body parts that include the left arm, right arm, left leg, right leg and trunk.

6 Body Water Analysis

This is a measure of the intracellular water, the extracellular water, and the extracellular water ratio.

Comprehensive Evaluation

This item shows your body type, biological age, basal metabolic rate(BMR), total daily energy expenditure (TEE), and body cell mass.

() Body Balance Assessment

Assesses the lateral balance of the upper and lower bodies, and the vertical balance between the upper and lower bodies.

Control Guide

This item presents your recommended target weight, weight, and muscle and fat mass control.

🕕 Obesity Assessment

This item assesses your BMI, PBF and indicates your obesity degree and abdominal circumference.

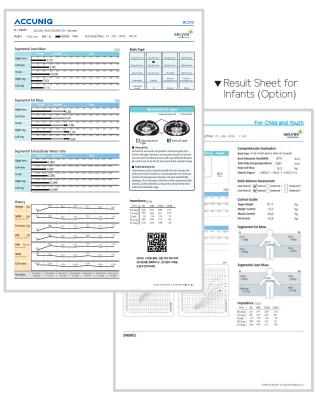
Impedance

Impedance using frequency applied to a body part. Impedance is a resistance value when electric current is passed through the body. Each subject has a unique impedance.

Blood Pressure Analysis

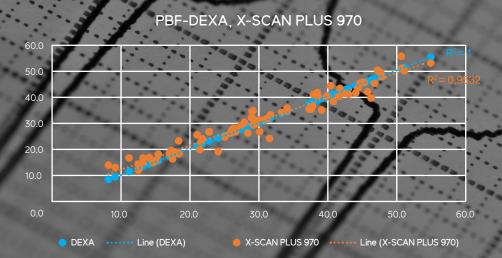
This item indicates your blood pressure data when the product is connected to the sphygmomanometer provided by ACCUNIQ. This is especially useful because it assesses your obesity level and blood pressure at the same time.

▼ Segmental Results Sheet (Option)



High Consistency with DEXA

The methods of analyzing your body composition include computed tomography(CT), magnetic resonance imaging(MRI), and underwater weighing. Dual-energy X-ray absorptiometry(DEXA) is currently considered the gold standard since it accurately analyzes your fat, muscles, and bones and does not involve any radiation exposure. ACCUNIQ conducted clinical tests with IHT, a professional clinical organization based in Texas, USA, to verify our product's precision with DEXA. The result shows that our analysis is more accurate than our competitors.



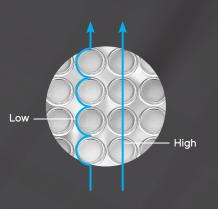
Determination of coefficient(R2) of DEXA is 1, and the accuracy of ACCUNIQ is higher if R2 value is close to 1.
 The accuracy of X-SCAN PLUS 970 is proved through clinical study with DEXA at IHT center in USA, and the accuracy of other ACCUNIQ brands are guaranteed by high correlation each other.

	Paired T-test Analysis of Body Composition								
	Pe	rcent Bo	dy Fat(%)	E	Body Fat N	Mass(kg)	Lean Body Mass(kg)		
DEXA- ACCUNIQ	$Mean\pm SD$	p-value	p-value explanation	$Mean \pm SD$	p-value	p-value explanation	$Mean\pm SD$	p-value	p-value explanation
	-0.4±0.7	0.17	DEXA PBF = ACCUNIQ PBF	-0.4±0.2	0.06	DEXA PBF = ACCUNIQ PBF	0±0.3	0.99	DEXA PBF = ACCUNIQ PBF

Coefficient of Determination		LBM R ²	
between Our Products	BC720	BC510	BC360
(X-SCAN PLUS 970 and ACCUNIQ BCA)	0.9967	0.9949	0.9962

Multi-Frequency Analysis

ACCUNIQ uses 6 frequencies between 1 kHz and 1000kHz to analyze your intracellular water, extracellular water, and total body water accurately. A frequency lower than 100kHz is used to analyze extracellular water since it flows along the cell membrane, whereas a frequency above 100kHz is used to analyze total body water as it flows through the cell membrane.







Ankle Electrodes

ACCUNIQ provides the ankle electrodes as a convenient option to enable users to proceed with analysis without taking off their socks. This option differentiates ACCUNIQ from all of its competitors.

Eight-Point Touch Electrodes

ACCUNIQ uses the 8-point touch electrodes method, which is highly accurate despite its complexity. Eight electrodes may be placed on the hands and feet or wrists and ankles to analyze body composition stably.



ACCUNIQ BC510 Specifications

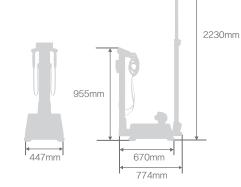
Model	ACCUNIQ BC510				
Measuring Method	Tetra-polar electrode method using 8 touch electrodes				
Frequency Range	5, 50, 250, 550kHz				
Measuring Site	Whole body and segmental measurement (arms, legs and trunk)				
Results Sheet Data	Body Composition Results Weight, Standard Weight, Lean Body Mass, Mass of Body Fat, Skeletal Muscle Mass, Soft Lean Mass, Protein Mass, Mineral Mass, Total Body Water, Intra Cellular Water, Extra Cellular Water, Body Mass Index, Percent of Body Fat, Ratio of E.C.W./T.B.W., Waist to hip ratio, Visceral Fat Level, Visceral Fat Area, Abdominal Circumference, Dual Graph of Soft Lean Masss, Body Composition Change (8 times accumulated graph for Ratio of E.C.W./T.B.W., Percent of Body Fat, Soft Lean Mass, Weight), Segmental Soft Lean Mass and Percent, Segmental Mass of Body Fat, Body Type, Body Cell Mass, Basal Metabolic Rate, Total Energy Expenditure, Age Matched of Body, Total Score, Study Item (Segmental Impedance Classified by Frequency), Blood Pressure (In case of being connected with blood pressure monitor), QR Code				
	Segmental Results (Option) Segmental Ratio of E.C.W./T.B.W., Segmental Soft Lean Mass, Segmental Mass of Body Fat and Percent, Study Item (Segmental Impedance Classified by Frequency)				
	Results Sheet for Infants (Option) Weight, Standard Weight, Lean Body Mass, Mass of Body Fat, Subcutaneous Fat Mass, Skeletal Muscle Mass, Soft Lean Mass, Protein Mass, Mineral Mass, Total Body Water, Intra Cellular Water, Extra Cellular Water, Body Mass Index, Percen of Body Fat, Waist to hip ratio, Body Type, Fatness, Child Growth Curve (height, weight), Body Cell Mass, Basal Metaboli Rate, Total Energy Expenditure, Age Matched of Body, Nutritional Assessment, Body Composition Change, Segmental Soft Lean Mass, Segmental Mass of Body Fat, Study Item (Segmental Impedance Classified by Frequency), QR Code				
Power Consumption	60VA				
Measuring Current	Approx. 180µA				
Power Consumption	Input (AC 100~240V, 50~60Hz), Output (DC 12V, 5A adapter)				
Display	7 Inch Wide Color LCD Touch Screen				
Input Device	Touch Screen, PC Remote Control				
Transmission Device	USB Port, RS-232C, Bluetooth (Option)				
Printing Device	A4 Printer, Thermal Printer (Option)				
Dimension	Main Unit 447×670×955mm (W×D×H±10mm) Main Unit+Height Meter 447×774×2230mm (W×D×H±10mm)				
Weight	Approx. 21kg (main unit)				
Measuring Range	100~950 <i>Q</i>				
Measuring Time	Within 40 seconds				
Applicable Height	50~220cm				
Measuring Weight	10~250kg				
Applicable Age	1~99 years old				
Operation Ambient	Ambient temperature range +5 to +40 $^\circ$ C, Relative humidity range 15 to 93% (non condensing)				
Storage Ambient	Ambient temperature range -25 to +70°C, Relative humidity range lower than 93% (non condensing)				

Optional Equipment	Ultrasonic Anthropometer, Fully Automatic Sphygmomanometer, Ankle Electrode, Thermal Printer Segmental assessment result sheet Results sheet for Infants, USB Memory, Bluetooth
Printing Logo	Printing logo or the name of hospital, address, contact information on the pre-printed result sheet
Touch Screen	Touch Screen's sensor location adjustable
Data Storage	Maximum 100,000
Measurement Mode	Scale mode / Body Composition mode
Various Result Sheets	Body composition result sheet, Segmental assessment result sheet (Option), Results sheet for Infants (Option)
Measurement Result	LCD, Web, Data management program, ACCUNIQ MANAGER
USB Storage	Data storage and backup
QR Code	Scan the QR code on LCD& result sheet with your smart phone. all results transmitted to the web site. You can see the result whenever you want.

* For purpose of improvement, specifications and design are subject to change without notice. This is a medical device. Read precaution and operation method before use.

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