ACCUNIQ

The New Standard in Body Composition Analysis

BODY COMPOSITION ANALYZER

Multi-Frequency Segmental Body Composition Analysis using BIA Technology

ACCUNIQ Technology

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 analysis your fat, muscles, and bones with low radiation exposure.

ACCUNIQ conducted clinical tests with IHT, a professional clinical organization based in texas, USA, to verify our products precision with DEXA. The result shows that our analysis is more accurate than our competitors.

PBF-DEXA, X-SCAN PLUS 970

$R^2 = 1$

$R^2 = 0.9532$

● DEXA   ----- Line(DEXA)   ● X-SCAN PLUS 970   ----- Line(X-SCAN PLUS 970)
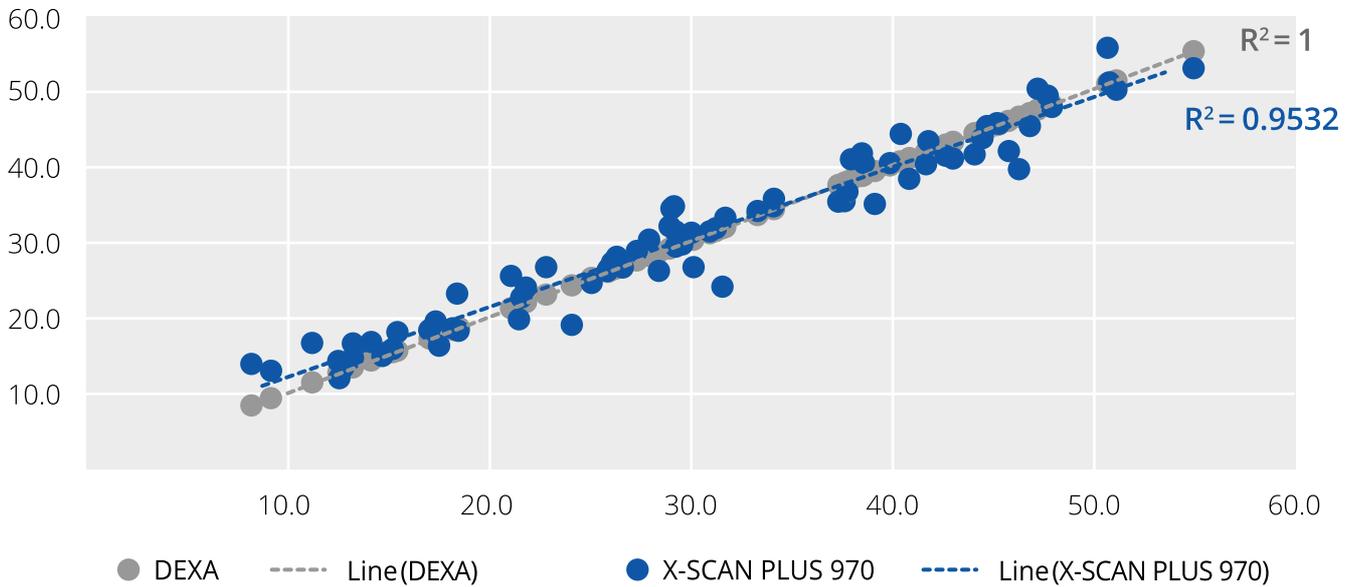
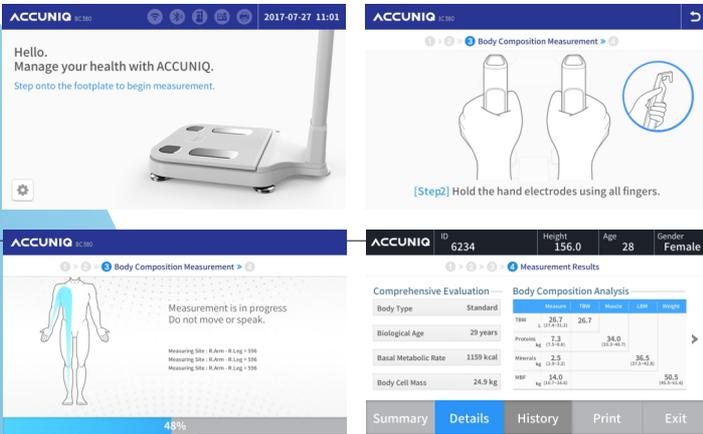Accuniq Bc380 Delives Clinically Accurate Body Composition Results In Less Than 1 Minute

Easy To Use, With On Screen Step By Step Instructions And Loaded With All The Measurent Data You Will Need To Fully Assess Your Clients Composition Levels

On Screen Results And Full Page Report Shows Measurements With Healthy Ranges For Quick Assessment

ACCUNIQ's accurate measurement technology
ACCUNIQ's precise measurement technology, which shows a high correlation with DEXA equipment (Lean body mass $R^2=0.9532$), analyzes body composition and monitors body fat and muscle changes.

Certifications and Awards

GMP Certified   CE Certified 0197   TUV Rheinland Certified   FDA Approved   Good Design Award   Presidential Award in National Venture Award   Bronze Medal of Industrial Effort in Precision Technology Promotion Contest

Screen displays

Hello.
Manage your health with ACCUNIQ.
Step onto the footplate to begin measurement.

ACCUNIQ BC380 2017-07-27 11:01

ACCUNIQ BC380
③ Body Composition Measurement
[Step2] Hold the hand electrodes using all fingers.

ACCUNIQ BC380
③ Body Composition Measurement
Measurement is in progress
Do not move or speak.
Measuring Site : R.Arm - R.Leg = 596
Measuring Site : R.Arm - R.Leg = 596
Measuring Site : R.Arm - R.Leg = 596
48%

ID 6234		Height 156.0	Age 28	Gender Female

④ Measurement Results

Comprehensive Evaluation

Body Type	Standard
Biological Age	29 years
Basal Metabolic Rate	1159 kcal
Body Cell Mass	24.9 kg

Body Composition Analysis

	Measure	TBW	Muscle	LBM	Weight
TBW	26.7 L (27.4–33.2)	26.7			
Protein	7.3 kg (7.3–8.9)		34.0 (33.3–40.7)		
Minerals	2.5 kg (2.9–3.2)			36.5 (37.5–42.9)	
MBF	14.0 kg (14.7–16.6)				50.5 (41.5–61.6)

Summary | Details | History | Print | Exit

Enhanced expandability by connecting the product to various devices

Thermal printer (Optional)
Thermal printer for fast printed results.

Ultrasonic Height Meter
The ultrasonic height meter increases precision and automatically inputs height.

Fully automatic Blood Pressure Monitor
You can diagnose obesity and measure blood pressure simultaneously by connecting a blood pressure monitor to ACCUNIQ BC380.

Touch panel and intuitive UI

The 7-inch wide color touchscreen and convenient keypad combined with on-screen instructions makes the BC380 easy for anyone to operate.

Electrode handle

The measurement starts automatically without the need to push a button separately when you grab the electrode handle that gives you a sense of improved grip.

Convenient foothold electrode

large 18"x18" platform and low profile allows for easy access, comfort and stability.

ACCUNIQ BC380 Specifications

Model	ACCUNIQ BC380
Measurement Method	Tetra-polar electrode method using 8 touch electrodes
Frequency Range	5, 50, 250 kHz
Measurement Area	Whole body and Segmental measurement (arms, legs, and trunk)
Result Sheet Data	[Result for Body Composition Analysis] Body Composition Analysis (Weight, Lean Body Mass, Body Fat Mass, Muscle Mass, Protein Mass, Mineral Mass, Total Body Water), Skeletal Muscle / Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass), Obesity Analysis (Body Mass Index, Body Fat Percentage, Degree of Obesity, Abdominal Circumference), Abdominal Obesity Analysis (Waist Hip Ratio, Visceral Fat Level, Visceral Fat Area, Visceral Fat Mass), Cumulative Body Change Graph (Weight, Skeletal Muscle Mass, Body Fat Percentage), Overall Evaluation (Body Type, Body Age, Basal Metabolic Rate, Calories Needed per Day, Body Cell Mass, Total Score), Body Balance Assessment (Left and Right of the Upper Body, Left and Right of the Lower Body), Weight Control Targets (Recommended Weight, Weight Control Value, Muscle Control Value, Fat Control Value), Extracellular Water Ratio, Body Fat Mass / Muscle Mass by Body Parts (Left Arm, Right Arm, Left Leg, Right Leg, Torso), Impedance (By Body Parts and By Frequencies), Blood Pressure (When Interlocked with the Hematomanometer), QR Code [Result for Child and Youth (optional)] Body Composition Analysis (Weight, Lean Body Mass, Body Fat Mass, Muscle Mass, Protein Mass, Mineral Mass, Total Body Water), Skeletal Muscle / Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass), Obesity Analysis (Body Mass Index, Body Fat Percentage, Waist Hip Ratio), Child Growth Curve (Height, Weight), Nutritional Assessment (Protein, Mineral, Fat) , Overall Evaluation (Body Type, Basal Metabolic Rate, Calories Needed per Day, Body Cell Mass, Degree of Obesity), Body Balance Assessment (Left and Right of the Upper Body, Left and Right of the Lower Body), Weight Control Targets (Recommended Weight, Weight Control Value, Muscle Control Value, Fat Control Value), Body Fat Mass / Muscle Mass by Body Parts (Left Arm, Right Arm, Left Leg, Right Leg, Torso) Impedance (By Body Parts and By Frequencies), QR Code
Measurement Current	Approx. 180 μA ± 15
Power Consumption	60 VA
Power Supply Voltage	Input: 100-240 VAC, 50/60 Hz, 1.4-0.7 A Output: DC 12 V, 5.0 A, 60 W MAX
Display	7-inch Wide Color LCD
Input Device	Touchpad, Keypad
Transmission Device	5 USB ports, 2 RS-232C ports, Wi-Fi (basic), Bluetooth (optional)
Printing Device	USB port (printer designated by the manufacturer), thermal printer (optional)
Dimensions	Main Unit 641×436×1029 mm (W×D×H±10 mm) Main Unit+Height Meter 795×436×2327 mm (W×D×H±10 mm)
Weight	Approx. 18kg (main unit)
Measurement Range	100 - 950 Ω
Measurement Time	Approx. 30 sec.
Applicable Height	50 - 220 cm
Measurement Height	100 - 210 cm
Measurement Weight	10 - 250 kg
Applicable Age	1- 99 years old
Operating Environment	Temperature 5 - 40℃, relative humidity 15 - 93% (no condensation)
Storage Environment	Temperature -25 - 70℃, relative humidity less than 93% (no condensation)

Optional Equipment	Ultrasonic anthropometer, fully automatic hematomanometer, ankle electrodes, result sheet for Infants, USB memory, thermal printer, and Bluetooth
Printing Logo	Printing the hospital name, address, contact information, and logo available
Touch Screen	Touch screen's sensor location adjustable
Data Storage	Up to 100,000 data units can be stored when using an ID.
Measurement Mode	Scale mode / Body composition mode
Various Result Sheets	Body composition result sheet, Result sheet for Infants (Optional)
Checking Measurement Results	LCD, Internet, ACCUNIQ app, and body composition management program (ACCUNIQ MANAGER)
USB Storage	You can save or retrieve all measurement data.
QR Code	Scan the QR code on the LCD or result sheet, transmit it to the management website, and check the results.
Remote Support	Remote technical support with PC (ACCUNIQ REMOTE SUPPORT)

※ For the purpose of improvement, the specifications and designs of this device and options may be changed without notice.
※ This product is a medical diagnostic device. Read "Precautions" and "Usage Methods" carefully before use.
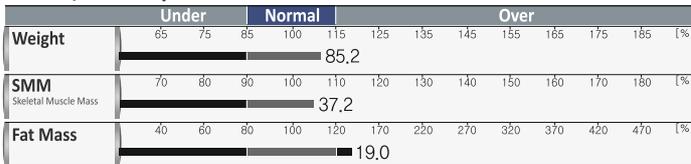
ACCUNIQ BC380

ID / NAME : 3456 / Rahul
Height : 187.5 cm   Age : 47 years   Gender: Male
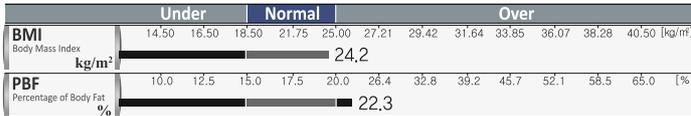Test Date/Time : 2017.04.17   15:34

❶ Body Composition Analysis

	values	Body Water	Soft Lean Mass	Fat-Free Mass	Weight
Body Water	ICW : 32.2 ECW : 16.1	48.4 (45.1 ~ 48.0)	62.0 (53.3 ~ 65.1)	66.2 (51.8 ~ 65.7)	85.2 (65.7 ~ 88.9)
Proteins	13.6 (12.4 ~ 13.9)				
Minerals	4.3 (4.5 ~ 4.6)				
Body Fat	19.0 (10.8 ~ 15.2)				

❷ Muscle/Fat Analysis

	Under	Normal	Over	
Weight	65 75 85	100 115	125 135 145 155 165 175 185 [%]	85.2
SMM Skeletal Muscle Mass	70 80 90	100 110	120 130 140 150 160 170 180 [%]	37.2
Fat Mass	40 60 80	100 120	170 220 270 320 370 420 470 [%]	19.0

❸ Obesity Analysis

	Under	Normal	Over	
BMI Body Mass Index kg/m²	14.50 16.50 18.50	21.75 25.00	27.21 29.42 31.64 33.85 36.07 38.28 40.50 [kg/m²]	24.2
PBF Percentage of Body Fat %	10.0 12.5 15.0	17.5 20.0	26.4 32.8 39.2 45.7 52.1 58.5 65.0 [%]	22.3

❹ Abdominal Obesity Analysis

	Under	Normal	Over	
WHR Waist to Hip Ratio		0.75 0.90	0.90	0.90

	Subcutaneous	Balanced	Boundary	Visceral Obesity I	Visceral Obesity II	
VFL Visceral Fat Level	1	5	11		16	12
VFA Visceral Fat Area cm²		50	100			114

❺ Segmental Lean and Fat Analysis

Soft Lean Mass (based on current weight)
Trunk 28.02 kg
Left Arm 3.60 kg
Right Arm 3.72 kg
Left Leg 10.17 kg
Right Leg 10.28 kg

Fat Mass
Trunk 11.12 kg
Left Arm 1.04 kg
Right Arm 0.93 kg
Left Leg 2.99 kg
Right Leg 2.88 kg

❻ Body Composition Change
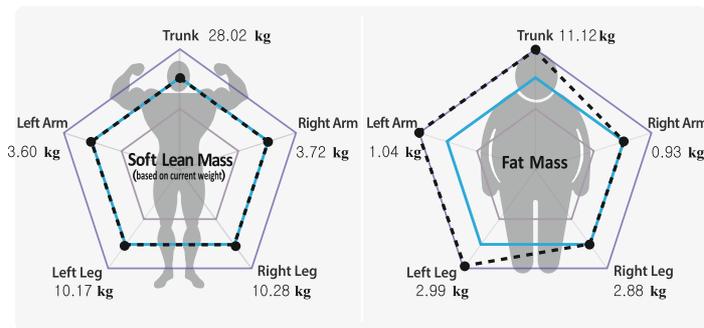
Weight	81.8	83.5	85.2	85.2	
SMM Skeletal Muscle Mass	37.4	37.8	37.1	37.2	
PBF Percentage of Body Fat %	18.8	19.6	22.5	22.3	
Test date	2017.04.17 (14:00)	2017.05.13 (12:10)	2017.06.12 (15:46)	2017.06.14 (15:34)	

❼ Comprehensive Evaluation

Body Type	over fat class 1	
Biological Age	47	years
Basal Metabolic Rate(BMR)	1800	kcal
Total Daily Energy Expenditure	2772	kcal
Body Cell Mass	45.6	
Visceral Fat Mass	2.7	
Obesity Degree	+10.2 (−10.0 ~ +10.0)	%
Abdominal Circumference	114 (Less than 102cm)	cm
Total Score	78	Points

❽ Body Balance Assessment

Upper Body L/R	☑ balanced	☐ imbalanced I	☐ imbalanced II
Lower Body L/R	☑ balanced	☐ imbalanced I	☐ imbalanced II

❾ Control Guide

Target Weight	79.7	kg
Weight Control	−5.5	kg
Muscle Control	+0.0	kg
Fat Control	−5.5	kg

ECW ratio   0.386 (Optimal)

❿ Segmental Lean Mass (Based on standard weight)

Right Arm	3.72 kg	[3.12 ~ 3.81]	/ Fit
Left Arm	3.60 kg	[3.12 ~ 3.81]	/ Fit
Trunk	28.02 kg	[23.46 ~ 28.67]	/ Fit
Right Leg	10.28 kg	[8.61 ~ 10.52]	/ Fit
Left Leg	10.17 kg	[8.61 ~ 10.52]	/ Fit

⓫ Impedance

Freq	5K	50K	250K
RA.Imp.	275	243	207
LA.Imp.	281	254	214
Trunk	36	33	28
RL.Imp.	185	163	139
LL.Imp.	189	174	144

⓬ Blood Pressure Analysis

Systolic 125 mmHg / Diastolic 85 mmHg
Pulse 76 bpm

For history management please upload this results at the website using QR code scanning.

ACCUNIQ BC380

The New Standard Body Composition Analyzer

Features

7 Inch Wide Color LCD Touch Screen

Frequency Range 1, 5, 50, 250 kHz

- Ergonomic design that enables the user to adjust the foot plate height and size
  User-friendly, organized, and simple GUI
  Enhanced customer service through remote
- support programs (ACCUNIQ Remote Support)
- QR code support on results screen
- Data management using ACCUNIQ Manager
- Wi-Fi and Bluetooth support (Optional)

Enhanced expandability by connecting the product to various devices

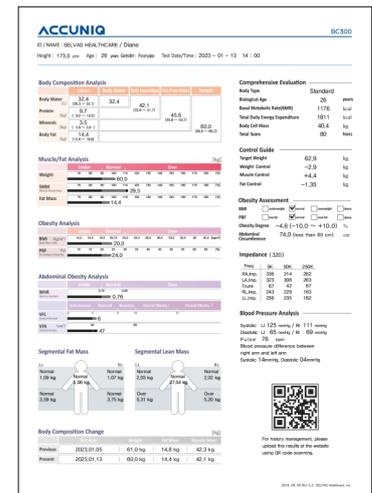(Optional)

Ultrasonic Height Meter
The ultrasonic height meter increases precision and automatically inputs height.

ACCUNIQ BC300
Body Composition Analyzer

Result sheet

Features

Measuring Method	Tetra-polar electrode method using 8 touch electrodes
Frequency Range	5, 50, 250kHz
Display	7 Inch Wide Color LCD
Measuring Site	Whole body and segmental measurement (arms, legs and trunk)
Power Consumption	60VA
Measuring Current	Approx. within 280pA
Weight	Approx.10kg (main unit)
Measuring Range	100~9500
Measuring Time	Approx. 1 minute
Applicable Height	50~220cm
Measuring Weight	10~200kg
Applicable Age	1~98 years old
Dimension	Main Unit 400% 735 x 890mm (Wx D x H+10mm)
	Main Unit + Height Meter 400 x 845 x 2250mm (Wx D x H +10mm)

ACCUNIQ BC310
Basic Body Composition Analyzer

Features

Mono Graphic LCD

Frequency Range 5, 50, 250kHz

- Low-level frequencies to offer quick and easy analysis.
- Built in Thermal Printer
- Versatile arrangement (desk type / wall type / stand type)

Upper part of the body

Lower part of the body

Result breakdown

- Body composition analysis:
  Weight, Standard Weight, Lean Body Mass, Total Body Water, Intra Cellular Water, Extra Cellular Water
- Body Mass Index, Mass of Body Fat, Percent of Body Fat
- Waist-Hip Ratio (WHR), Basal Metabolic Rate
- **Total Body Water analysis:** Ratio of E.C.W./T.B.W
- Segmental Lean Body Mass
- **Weight control:** Target to Control, Goal Setter

Result sheet

- Body Composition Results

ACCUNIQ BC720
Premium Body Composition Analyzer

Features

8.4 Inch Wide Color LCD Touch Screen

Frequency Range 1, 5, 50, 250, 550, 1000kHz

- Risk factor assessment and prevention through prediction of abdominal fat and phase angle measurements
- Ultrasonic height meter specifically for the BC720 (optional)
- Water balance assessment
- QR code support on results screen
- Data management using ACCUNIQ Manager

Result breakdown

- Body composition analysis:
  Intracellular Water, Extracellular Water, Total Body Water, Body Fat Mass, Soft Lean Mass, Skeletal Muscle Mass, and Lean Body Mass
- Body Mass Index, Body Fat Percentage, Basal Metabolic Rate, Required Daily Calories, Body Age, and Body Type Evaluation
- **Various types of abdominal fat assessment:** Visceral Fat Level, Visceral Fat Area, Waist-Hip Ratio (W.H.R.), Subcutaneous Fat Mass, Visceral Fat Mass, and Prediction of Abdominal Fat
- ECW/TBW for the whole body, ECW/TBW for each segment, and Phase Angle
- **Segmental assessment:** Soft Lean Mass (dual graph), Body Fat Mass, ECW/TBW, Body Water, Intracellular Water, and Extracellular Water
- **Body composition change graph:** Weight, Skeletal Muscle Mass, Body Fat Mass, Body Fat Percentage, Body Mass Index, Waist-Hip Ratio, and ECW/TBW
- **Segmental Results sheet:** Cumulative graph of body composition changes and body type assessment table (20 levels)

Result sheet

- Body Composition Results
- Segmental Results
- Result sheet for Infants (optional)

Results Sheet Data Comparison

	BC310	BC380	BC720
Total Body Water	•	•	•
Proteins	•	•	•
Minerals	•	•	•
Body Fat	•	•	•
Weight	•	•	•
Skeletal Muscle Mass(SMM)	•	•	•
Fat Mass	•	•	•
Body Mass Index(BMI)	•	•	•
Percentage of Body Fat(PBF)	•	•	•
Waist to Hip Ratio(WHR)	•	•	•
Visceral Fat Level(VFL)		•	•
Visceral Fat Area(VFA)		•	•
Visceral Fat Mass(VFM)		•	•
Subcutaneous Fat Mass			•
Segmental Lean Analysis	•	•	•
Segmental Fat Analysis		•	•
Intracellular Water(ICW)	•	•	•
Extracellular Water(ECW)	•	•	•
ECW Ratio	•	•	•
Segmental Body water Analysis			•
Segmental Intracellular Water			•
Segmental Extracellular Water			•
Segmental ECW Ratio Analysis			•
Body composition History		•	•
Body Type	•	•	•
Biological Age	•	•	•
Basal Metabolic Rate	•	•	•
Total Daily Energy Expenditure	•	•	•
Body Cell Mass	•	•	•
Obesity Degree	•	•	•
Abdominal Circumference	•	•	•
Total Score		•	•
Body Balance Assessment		•	•
Control Guide	•	•	•
Predicted abdominal obesity			•
Whole Body Phase angle			•
Impedance	•	•	•
Blood Pressure Monitor Connection		•	•
QR code		•	•

Body composition management program ^{ACCUNIQ MANAGER}

ACCUNIQ MANAGER is a client health data management solution that captures and presents all body composition results with comparisons to healthy ranges for fast and easy assessment.

Generate historical comparisons to show progress and helps you personalize your diet and exercise prescriptions based on critical data.
Print full page reports, thermal receipt, or transfer results to devices.
Recommendation of personalized diet and exercise program to achieve healthy range.
Easy-to-understand, Intuitive screen layout with graphical data presentation.
Screen showing systematic body composition analysis results for individual users and the provides for efficient data management processing.

Body composition management application ^{ACCUNIQ APP}

ACCUNIQ App is a mobile service for the management of personal body composition data. You can scan the QR code of the body composition measurement result with a smart phone so clients can check the result anytime.

· Shows graphical statistical views of composition results and changes.
· A Control Guide shows recommendations on caloric intake and excercise levels to reach healthy ranges.
· Stores all measurements and shows historical graphing of measurement levels and healthy ranges.

Remote support program ^{ACCUNIQ REMOTE SUPPORT}

You can use the USB Wi-Fi dongle, which is provided for easy use of the device, to connect to the Selvas Healthcare C/S division and receive remote service more conveniently when checking or repairing the device.

· Even if you don't know how to use the device, you can set its options through remote control.
· You can remove measurement errors by checking the offset value, performing calibration, etc.
· You can recover the firmware remotely from a PC.

ACCUNIQ MANAGER
Body composition management program

Features

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# ACCUNIQ APP
Body composition management application

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· Stores all measurements and shows historical graphing of measurement levels and healthy ranges.

ACCUNIQ
BCA (Body composition analyzer)

BP850
Dual-Arm Blood Pressure Monitor
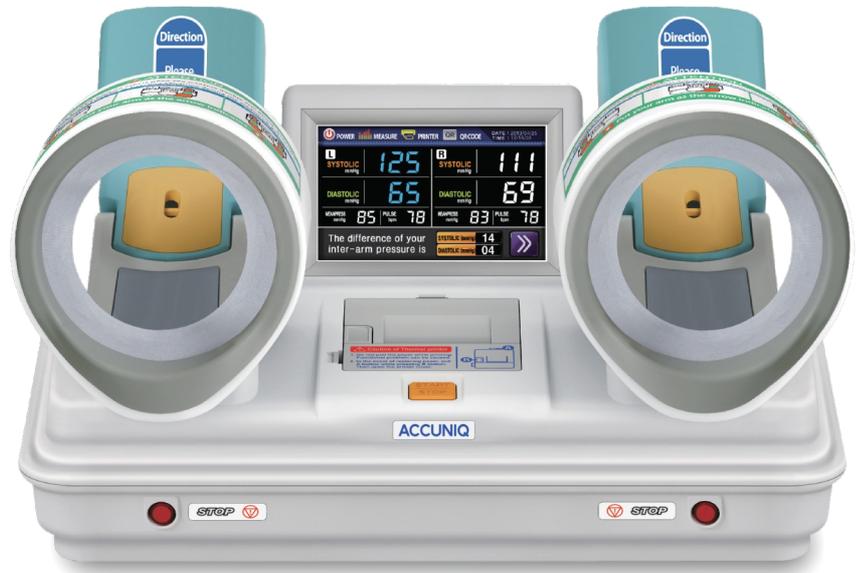
Features

1 7"- wide color LCD display (touchscreen)
2 Easy-to-use one-touch button (hand switch and foot switch)
3 High-speed thermal printer featuring simple paper replacement and fast printing
4 Cuff guide rings with diameter of 150 mm to keep the user comfortable
5 Cuffs and movement sensor at the same level to make analysis more accurate

Hand and Foot switch for comfortable measurement

Specifications

Model	ACCUNIQ BP850
Measuring Method	Oscillometric
Display Mode	Color LCD Touch Display (7 inch)
Measuring Parts	Left•Right•Both arms
Measuring Ranges	Pressure 30~300 mmHg, Pulse 30~240 bpm
Accuracy	Pressure ± 3mmHg, Pulse Within ± 3%
Cuff Type	Double cuff with automatic pressurization
Resolution	1 mmHg
Pressurizing Method	Automatic pressurization by DC-MOTOR
Method of exhaust	Micro-controlled electronic exhaust type
Pressurizing Time	Approx. 20 seconds per pressurization
Measuring Time	Approx. 50 seconds per measurement
Power Consumption	Input AC 100~240V, 50/60 Hz l Output DC 12V 5A adaptor
Data Transmission	RS-232C, USB cable
Operating Range	Temperature 10~40℃ (50℉~140℉), Humidity 30~75%
Storage Environment	Temperature -10~60℃ (-50℉~140℉), Humidity lower than 95%
Dimension	530(W) x 481(D) x 319(H)mm
Weight	Approx. 26.5lb•12kg
Printer	High speed thermal printer
Function	Sensor for detecting arm - Left•Right Memory - Comparing previous and current results Safety function - Emergency stop button
Optional Equipment	Height adjustable chair, A4 result sheet, data management program

ACCUNIQ BP500
Automatic Blood Pressure Monitor

Features

Measuring Method	Oscillometric
Display	Custom Mono LCD Display
Measuring Range	Pressure 0 ~ 300mmHg, Pulse 30 ~ 240bpm
Accuracy	Pressure =2mmHg, Pulse within =1.5%
Cuff Type	Double cuff type
Minimum Scale unit	1mmHg
Pressurization	Complete automatic pressurization
Exhaust	Electronic exhaust system by micro control
Dimension	450(W) x 502.4 (D) x 278.7(H)mm (= 10mm)
Weight	About 4.8 kg

OUR INCORPORATED INTERNATIONAL BRANDS

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ACCUNIQ

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