Body Composition Analyser

ioi 3 5 3

Jawon Medical Co., Ltd has earned CE (Europe), FDA (USA) and KFDA (Korea). Its Quality and achievement have been approved by these certificate.

FDA | C E 0197 | EN ISO 13485 | TÜVRheinland | GMP | K | GOOD DESIGN 산업자원부선정

ioi
3 5 3

The technology of our company makes the professional body composition analyzer **light weight** and **performs the whole function**.

SENSATIONAL DESIGN

RELIABILITY

CONVENIENCE

ioi
3 5 3

VISUAL COMMUNICATING FOR HEALTH

Body Composition Analysis
Assessment of Weight Control
Abdominal Analysis

Body Type
Segmental Assessment
Control Guide
Body Composition Change

JAWON MEDICAL
Our company name will be changed to JANEX MEDICAL.

ioi 353

ULTRA LIGHT
BODY COMPOSITION ANALYZER FOR HOSPITALS

SUPERIOR FUNCTION
WITH COMPACT SIZE
BODY COMPOSITION ANALYZER

Main Body Approx. 10kg

Designed by special structure

CARRY BAG Type A

ioi can be transferred easily and used everywhere owing to ioi exclusive bag.

Size of carry bag
(approx. 815 ×215 ×410)mm
Weight of carry bag : approx.1kg
(option)

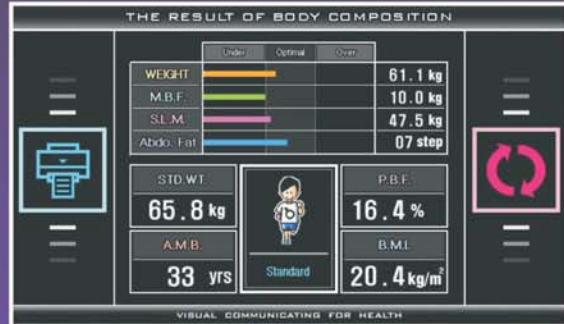Weight of carry bag + main body

Approx. 11kg

CARRY BAG Type B

The exclusive plastic bag has wheels and string in order to move easily and safety.

Size of carry bag
(approx. 866 ×295 ×567)mm
Weight of carry bag : approx.6kg
(option)

Weight of carry bag + main body

Approx. 16kg

567mm
295mm
866mm

THE RESULT OF BODY COMPOSITION

	Under	Optimal	Over	
WEIGHT				61.1 kg
M.B.F.				10.0 kg
S.L.M.				47.5 kg
Abdo. Fat				07 step

STD.W.T.		P.B.F.
65.8 kg		16.4 %

A.M.B.		B.M.I.
33 yrs	Standard	20.4 kg/m²

VISUAL COMMUNICATING FOR HEALTH

7 inch wide color LCD

The technology of our company makes the professional body fat measuring device **light weight** and **performs the whole function**.

01. Carry bag for safe mobility.(option)

02. Designed by human engineering

03. It has been designed so that it will not be damaged when dropped at a height less than 50cm. (carry bag)

04. Ultra light, approx 10kg, body composition analyzer

05. You can use both A4(basic) and thermal(option) printers.

06. 7inch wide color screen

07. Non-bending weighing scale frame

08. Easy installation, 3-5 minutes, can be done by anyone.

09. Mobile friendly, it can be located anywhere.

10. Easy measurement process through Voice Guide.

11. Saving of measured data by USB Memory Stick.(option)

12. It is convenient when going on a business trip or being serviced as it is mobile friendly.

● **Basic offer**

Management program for body composition data

PRINTER & CART
Model or specification of printer & cart can be subject to change according to market demand.

● **ioi353 Option**

Professional counseling program for practical use
Easy Body Plus

USB M

Ultrasonic height meter
(option)

Weight of main body + ultrasonic height meter :
About 15kg

2250mm

1100mm

890mm

93.4mm

845mm

Ultrasonic height meter :
About 5kg

1100mm

Memory

Barcode scanner

01. 5 factors

Jawon Medical Co., Ltd has been using five factors in the calculation of the body composition since the development stage in 1996. It has been rewarding to see the technology progress to its current level.
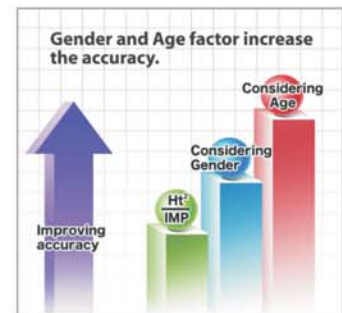
What is Bioelectrical Impedance Analysis? (BIA)
In BIA, the difference in electrical conductivity according to biological characteristics of the tissue has some limitations as follows.

The limitation of BIA:
The human body is represented as a simple cylindrical shape determined by height and weight. It assumes that body composition is homogenous and evenly distributed. It does not consider individual differences and variation of Body Composition. It ignores any changes in the environment (temperature), body heat, and stress.

However, in reality, the human body is different with the assumptions mentioned above.

In order to use BIA to analyze the "actual" human body accurately, 5 factors must be considered in the calculation.

Weight

Gender

Height

Age

Impedance

5 Factors

Gender and Age factor increase the accuracy.

Considering Age

Considering Gender

Ht²/IMP

Improving accuracy

Jawon medical uses 5 factors correctly to analyze the whole body and abdominal fat.
Using 5 factors, the accuracy of final analysis is greatly improved.
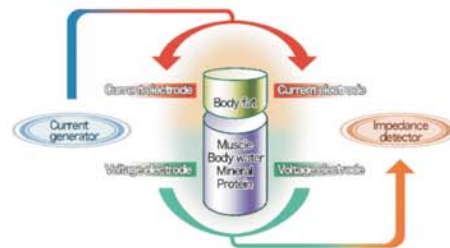
02. Tetra Polar Method

We, Jawon Medical Co., LTD use the Tetra Polar Method to achieve the greatest accuracy in analyzing body composition.

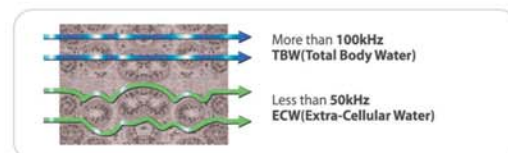Tetra Polar Method uses separate electrode;
Current Electrode which sends out an electric current to the human body and Voltage Electrode which detects impedance.
It minimizes the contact resistance and increases the accuracy.
In addition, it takes a measurement at the fixed location of foot electrode (ankle electrode) and hand so that it reduces measuring errors and increases reproducibility of results.

Current electrode   Body fat   Current electrode

Current generator

Impedance detector

Muscle
Body water
Mineral
Protein

Voltage electrode   Voltage electrode

03. Multi Frequency

More than **100kHz**
TBW(Total Body Water)

Less than **50kHz**
ECW(Extra-Cellular Water)

ioi 353 BODY COMPOSITION ANALYSIS

JAWON MEDICAL
www.jawon.com

Name / ID	Lauren	000000001
D a t e	2008-06-08 16:25:11	
Height	155.4 cm	Age 49 yrs
Weight	69.0 kg	Gender Fema le

Body Composition [kg]

Weight / Over 69.0 [47.8~58.4]	Std.wt. 53.1		
L.B.M. / Over 43.8 [37.2~42.5]			Body Fat 25.2
S.L.M. / Over 40.3 [34.2~39.3]		Mineral 3.5	Body Fat 25.2
T.B.W. / Over 31.5 [26.7~30.6]	Protein / Over 8.8 [7.4~8.5]	Mineral / Over 3.5 [2.9~3.1]	Body Fat / Over 25.2 [10.6~ 15.9]

Std.wt. : Standard weight   L.B.M. : Lean Body Mass   S.L.M. : Soft Lean Mass   T.B.W. : Total B ody Water
Mineral is conservative estimate.
The assessment of Under, Optimal and Over is decided by standard weight on Body Composition ta ble.

Assessment of Weight Control

Item	Under	Optimal	Over
Weight kg			69.0
B.M.I. kg/m²			28.6
P.B.F. %			36.5
S.L.M. kg			40.3
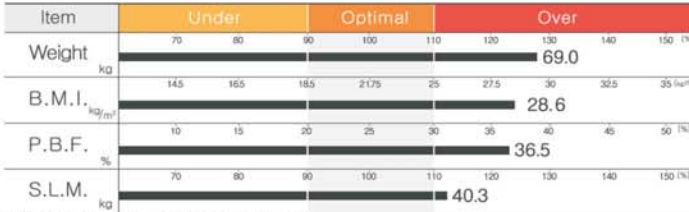
B.M.I. : Body Mass Index   P.B.F. : Percent Body Fat

Abdominal Analysis

Type	Subcutaneous	Balanced	Borderline	Visceral I	Visceral II
Level					13
V.F.A. cm²					110
A.C. cm	92.0 (Less than 88cm)		W.H.R.	0.90 (0.70 ~0.85)	

A.C. : Abdominal Circumference
A.C. is an estimated value in case of measure the navel circumference.
Accuracy of abdominal analysis may be decreased in case of idiosyncrasy.
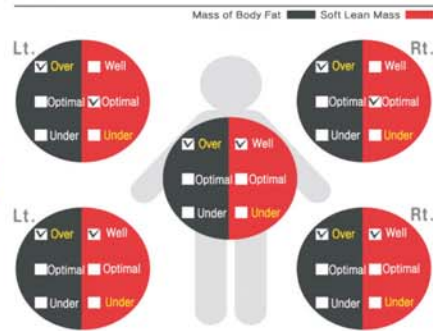
Control Guide [kg]

	Measured data	Control		Goal to control
Weight	69.0	+15.9	Target to control	+11.9
M.B.F.	25.2	+11.9	Control/week	0.5
S.L.M.	40.3	+3.6	Duration of control	24 week
B.M.R.	1248 kcal	T.E.E.		1 922 kcal
A.M.B.	53 yrs	Impedance	445 Ω	

M.B.F. : Mass of Body Fat   B.M.R. : Basal Metabolic Rate   T.E.E. : Total Energy Expenditure A.M.B. : Age Matched of Body
Age Matched of Body is reference value.
Control guide and calorie prescription are proposed value for your body type.

Body Type

□ Previous ● Present

Thin fat	Over fat%	Obese
Low weight	Standard	Over weight muscular
Low fat Low weight	Low fat muscular	Athletic

P.B.F.

B.M.I.

Segmental Assessment

Mass of Body Fat ■ Soft Lean Mass ■

Lt. Rt.
☑ Over ☐ Well   ☑ Over ☐ Well
☐ Optimal ☑ Optimal ☐ Optimal ☑ Optimal
☐ Under ☑ Under ☐ Under ☑ Under

☑ Over ☑ Well
☐ Optimal ☐ Optimal
☐ Under ☐ Under

Lt. Rt.
☑ Over ☑ Well   ☑ Over ☑ Well
☐ Optimal ☐ Optimal ☐ Optimal ☐ Optimal
☐ Under ☐ Under ☐ Under ☐ Under

Item	Lt.Arm	Rt.Arm	Trunk	Lt.Leg	Rt.Leg
M.B.F. kg	1.83	1.69	13.76	4.10	3.82
S.L.M. kg	2.58	2.60	20.20	7.45	7.47

Segmental Assessment is reference value.

Blood Pressure

Systolic mmHg	137	Diastolic mmHg	86
Pulse bpm	86		

P.R.P. : Pressure Rate Product

You need to control 550 kcal from T.E.E. 1922 kcal.

By diet 220kcal	⟹	Diet prescription calorie 1702kcal
By exercise 330kcal	⟹	Exercise prescription calorie 330kcal
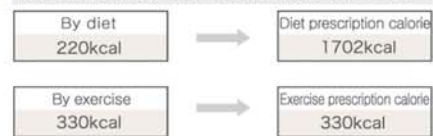
Body Composition Change

	Date	Weight	M.B.F.	S.L.M.
Previous	08.05.25	69.6	25.5	40.0
Present	08.06.08	69.0	25.2	40.3

Rev. A.0(08.07.29)

Environmental parameters

Setup function	Contents
ID usage	It is selected whether ID is used for subjects or not.
Scale offset	Compensating measured value of weight scale
Clothes	Compensating the weight of clothes worn
Print position	Adjusting print position to fit to the pre-formatted result sheet in the direction of up/down and left/right
Date/Time	Setting current date and time
Logo	Printing hospital name, address, contact information, and logo

Specification

Model	ioi 353
Measuring method	BIA via tetra-polar electrode method using 8 touch electrodes
Frequency range	5, 50, 250 ㎑
Measuring site	Whole body and Segmental measurement (right arm, right leg, left arm, left leg, and trunk)
Result item	Protein, Mineral, Total Body water, Mass of Body Fat, Soft Lean Mass, Lean Body Mass, weight, standard weight, B.M.I., Percent Body Fat, Age Matched of Body, Basal Metabolic Rate, Total Energy Expenditure, Body type, 5 body parts (right arm, right leg, left arm, left leg, and trunk) Soft Lean Mass/Mass of Body Fat and assessment , Body Composition Change, Control guide (weight/Mass of Body Fat/Soft Lean Mass Control, Goal to control, Control/week, Duration of control, Diet prescription calorie, Exercise prescription calorie), Visceral Fat Area, Visceral Fat Level, Abdominal Circumference, W.H.R., Impedance, Blood pressure (when connected with blood pressure monitor of our company)
Current	Within 280μA
Power consumption	60VA
Power supply	Input: AC 100~240 V, 50/60 Hz, Output: DC 12 V, 5 A adapter
Display	7 inch wide color LCD
Input device	Key pad, PC remote control
Transmitting device	USB port , RS-232 port (Wireless)
Printing device	USB port, Thermal Printer(option)
Dimension	400 x 735 x 890mm (W x D x H, ±10㎜)
Weight	About 10kg (main unit)
Measuring range	100~950 Ω
Measuring time	Within 1 minute
Input height	100~200cm
Measuring weight	10~200kg
Input age	5~89 years old
Operation ambient	Temperature 10~40℃ , Humidity 30~75% (non-condensing)
Storage ambient	Temperature -20~60℃ , Humidity Less than 95% (non-condensing)

※ For purposes of improvement, specifications and design are subject to change without notice.
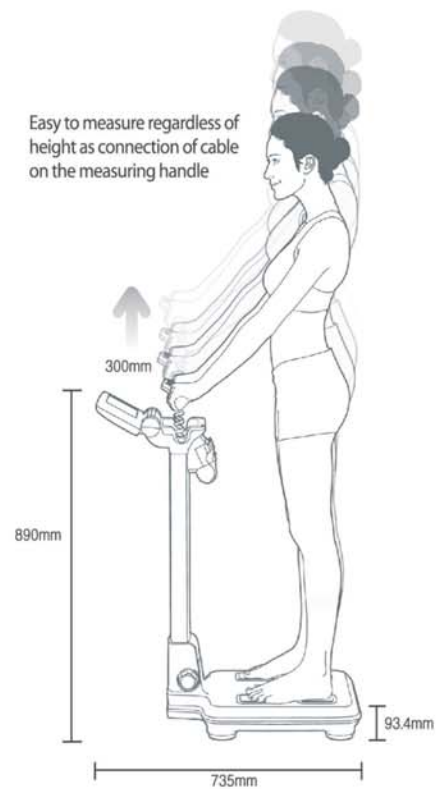
Easy to measure regardless of height as connection of cable on the measuring handle

300mm

890mm

93.4mm

735mm

ioi 353

AARNA SYSTEMS

Established in 2008, we Aarna Systems are renowned Importer, Trader, Supplier and Distributor (in India) of Ultrasound Bone Densitometer, Body Composition Analyzer and Portable BMD Machine.

We are importer & distributor (in India) of Ultrasound Bone Densitometer CM-200 of Furuno Electric Company Limited, Japan and Professional Body Composition Analyzer IOI 353 of Jawon Medical, Korea.

Body Composition Analyser Model IOI 353

Make: Jawon Medical, Korea

- Portable Body Composition Analyzer.
- 1 Machine = 32 Results
- Sensational Design, Reliability & Convenience.
- The Product uses 5 Factors, viz. Weight, Height, Gender, Age and Impedance to analyze the whole body.

Uses:

- Best products for Brand Centers of MLM companies, Hospitals, Clinics, Gyms, Slimming Centers, Spas, Hotels, Resorts, BIO Medical Departments of hospitals etc.
- Best product for personal use, Doctors, Professionals, Trainers, Sports & Athletes, Patients, etc.

Certificates & Website

Body Composition Analyzer IOI 353 is certified by CE, FDA, EN ISO 13485 & the reports are accredited with WHO and NIH standards.

For more details about us, you can visit us at www.aarnasystems.in, www.indiamart.com/aarnasystems www.bonedensitometer.in, www.aartech.co.in, and www.aarnasystems.tradeindia.com

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