Healthcare Solutions
You Can Trust

i Series
Body Composition Analyzer

Well-Being I Well-Balanced I Wellness

MEDIANA

www.mediana.co.kr

Multi-Frequency Analysis Technology

i30 provides accurate analysis of body composition through multi-frequency measurement.
The measurement is made through bioelectrical impedance analysis (BIA),
assessing the electrical resistance of cell membranes

Segmental body composition analysis

Tetra-polar 8 point tactile electrodes system gives accurate measure
of segmental body fat and muscle mass.

Advanced body composition
analysis algorithm with high accuracy

I30 uses the optimal algorithm developed by utilizing various
body composition measurement methods such as DEXA, CT, and isotope dilution.
It has a very high correlation coefficient with DEXA equipment,
which is considered the Gold Standard in the body composition analysis method.

Also, the reliability of the algorithm has been proven through clinical trials conducted
by specialized institutions for a wide range of ages
from 5 years old to 78 years old. ($R2=0.984$)

Application Area

Key Features

Blind Mode

User can hide fat and weight information from the display
by simply pressing a "Blind" button on the key pad.
It can be turned on/off instantly during measurement
and will be written at the result paper all the time

Ergonomic Design for Comfortable Measuring Posture

The wide rotating radius of the handle and the hand electrode,
which can be rotated to suit user's posture, helps to test comfortably and accurately.

Easy operation via touch screen

Convenient operation via keypad and touch screen control

Simple Interface

Built-in display gives the analysis of the body composition more clearly and thoroughly

Convenient Patient Data Management

Personalized information management is possible using the dedicated PC software

Age-specific Analysis

Provide adult and children analysis result sheet

Compact Foldable Design

Lightweight and foldable design for easy storage.
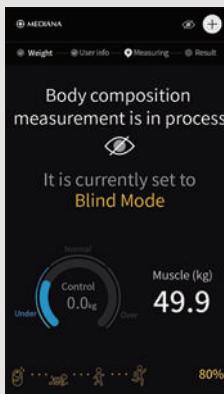
| Blind Mode | Muscle & Fat Analysis | MEDIANA Score | Body Type Table | Body Type Graph | History |
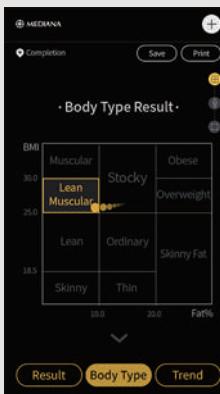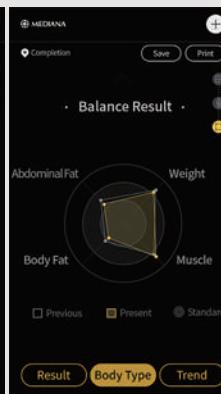
i30

Professional Body Composition Analyzer

Hardware Specification

Measurement Frequency : 5, 50, 100kHz
Power : Input - AC 100~240V, 50~60Hz, 1.5A / Output – DC 12V, 5A
Input interface : Keypad, Touch screen, Barcode reader (Optional)
External interface : RS232 (9pin serial cable) 1EA, USB host 2EA, Mini-USB B 1EA, Bluetooth (Optional), Wi-Fi (Optional)
Display : 7 inch (600 x 1024), Color Touch LCD
Dimension & Weight : 360mm(W) x 559mm(D) x 1077mm(H), Appx. 17.5kg
Measurement Time : About 30 sec.
Operating Environment : Temp. 10°C~40°C, Humidity 30%~75%, Air pressure 70~101.3kh
Storage Environment : Temp. -10°C~60°C, Humidity 10%~80%, Air pressure 50~101.3kh

Result Sheet
General

Children Result Sheet is
supported as an default option.

MEDIANA — Model : i30

| ID. | mediana12345 | Gender. | Male | Height. | 175.0 cm | Age. | 30 |
| Name. | Test | Current. | 2019.02.01 10:00 | Previous. | 2019.01.01 09:00 |

Weight Control

BMI (kg/m²) **22.9** (18.5 - 25.0) — Under / Standard / Over

|		
Obesity Degree	(%)	103.9
Desirable Weight	(kg)	68.5
Weight Control	(kg)	-1.5
Body Fat Control	(kg)	-1.5
Muscle Control	(kg)	0.0

Visceral Fat Grade
11 — Low 10 High

Abdominal Fat Ratio
0.83 — Low 0.80 0.90 High

Mediana Score
98

Segmental Mass (kg)
LA	RA	TR	LL	RL
3.6	3.6	34.0	11.2	11.3

Intake & Consumed Calories
BMR	(kcal)	1623
Total Energy Expenditure	(kcal)	2434
Calorie Consumption	(kcal/hour)	490
Expected Fat Burning	(kg)	-1.1

Calorie Consumption (kcal / 30min)
Gateball	116	Swimming	245
Walking	123	Aerobics	256
Yoga	140	Tennis	256
Table tennis	140	Bicycle	263
Golf	168	Football	280
Badminton	193	Climb	280
Basketball	228	Rope Jumping	308
Jogging	245	Boxing	361

Impedance
kHz	LA	RA	TR	LL	RL
5	321.4	321.5	27.4	246.4	257.5
50	280.7	282.8	22.4	218.3	227.7
100	272.3	272.7	20.5	208.7	209.1

QR code reading allows you to manage your body composition measurement results with your smartphone

Body Composition Analysis
	Total Body Water (L)	Protein (kg)	Mineral (kg)	Body Fat (kg)
Values (Standard)	45.7 (35.3 - 47.6)	9.5 (9.5 - 12.9)	2.80 (3.37 - 4.56)	12.0 (6.7 - 13.5)
Total Body Water (L)	45.7 (35.3 - 47.6)			
Muscle Mass (kg)		55.8 (50.9 - 57.3)		
Skeletal Muscle	31.3 (29.1 - 35.6)			
Fat Free Mass (kg)			58.0 (53.9 - 60.6)	
Weight (kg)				70.0 (56.7 - 76.6)

Skeletal Muscle & Body Fat Analysis — Current / Previous
	Under	Standard	Over
Weight (kg)		70.0 / 73.0	
Skeletal Muscle (kg)		31.3 / 30.2	
Body Fat (kg)		12.0 / 13.3	

Segmental Analysis & Body Balance — Standard

Body Fat:
- 0.7kg Standard (Left arm) / 0.7kg Standard (Right arm)
- 6.0kg Standard (Trunk)
- 1.8kg Standard (Left leg) / 1.8kg Standard (Right leg)

Muscle:
- 2.80kg Standard / 2.80kg Standard
- 27.00kg Standard
- 9.00kg Standard / 8.90kg Standard

Body Balance — Upper Body / Lower Body

Body Type Analysis
BMI / Body Fat%
- Muscular / Stocky / Obese
- Lean Muscular
- Lean / Ordinary / Overweight
- Skinny / Thin / Skinny Fat
Standard

Abdominal Fat / Weight / Body Fat / Muscle — Previous / Current / Standard

Body Composition History
		'18.07.01	'18.08.01	'18.09.01	'18.10.01	'18.11.01	'18.12.01	'19.01.01	'19.02.01	
Weight	(kg)	68.2	68.3	68.1	68.0	74.0	69.7	73.0	70.0	3.0 ▼
Skeletal Muscle	(kg)	28.7	29.2	29.3	29.4	30.6	29.7	31.0	31.3	0.3 ▲
Body Fat Percentage	(%)	22.0	19.5	19.3	18.5	19.1	18.9	19.0	17.1	1.9 ▼

Personal Information
ID, Gender, Height, Age, Measurement
date and time (Previous/Current)

Weight Control Guide
BMI, Obesity degree, Desirable Weight,
Weight Control, Body Fat Control,
Muscle Control

Visceral Fat Analysis
Visceral Fat Grade, Abdominal Fat Ratio

MEDIANA Score
Health score based on own algorithm

QR-code
Manage your body composition
measurement results with your
smartphone

Segmental Mass
Weight of each segment

Intake & Consumed Calories
BMR, Total Energy Expenditure, Calorie
Consumption, Expected Fat Burning,
Personal Calorie Consumption per Exercise

Impedance
Segmental Impedance Values

Body Composition Analysis
Total Body Water, Protein, Mineral,
Body Fat, Muscle Mass, Fat Free Mass,
Weight

Muscle & Body Fat Analysis
Weight, Muscle Mass, Body Fat Mass
(Previous/Current)

Segmental Analysis & Body Balance
Segmental Muscle Assessment,
Segmental Body Fat Assessment,
Body Balance Assessment (Muscle Only)

Body Type Analysis
Body Type Table, Body Type Graph

Body Composition History
Previous measurement history up to
8 measurements
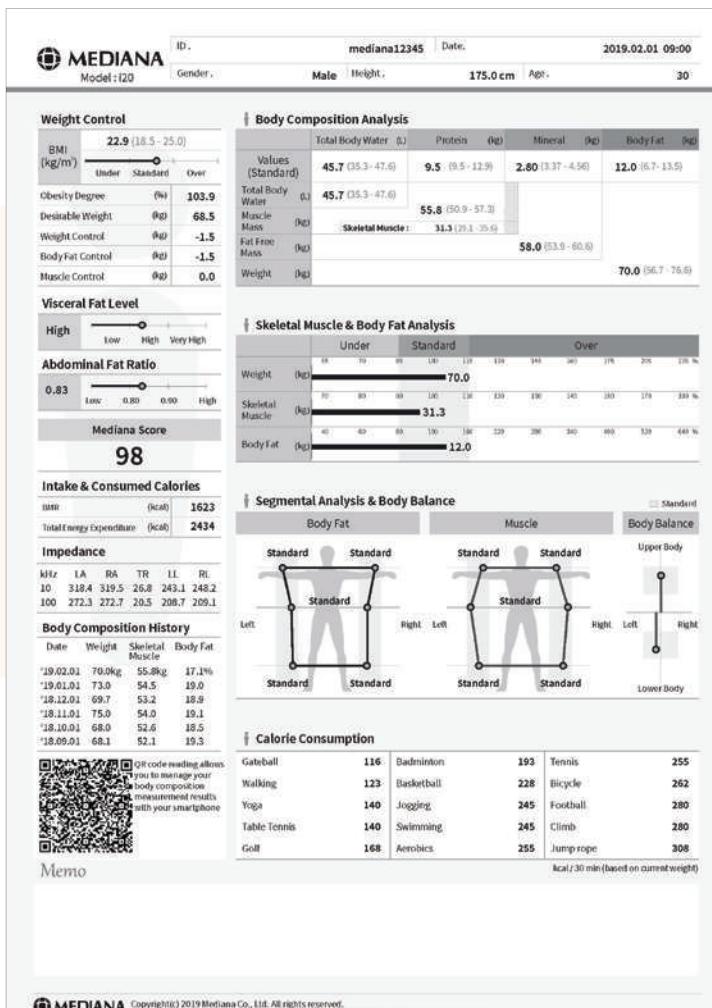
Result Sheet
General

Personal Information

ID, Gender, Height, Age,
Measurement date and time

Weight Control Guide

BMI, Obesity degree,
Desirable Weight, Weight Control,
Body Fat Control, Muscle Control

Impedance

Segmental Impedance Values

QR-code

Manage your body composition
measurement results with your
smartphone

Body Composition History

Previous measurement history up to
6 measurements

Body Composition Analysis

Total Body Water, Protein, Mineral,
Body Fat, Muscle Mass, Fat Free Mass,
Weight

Intake & Consumed Calories

BMR, Total Energy Expenditure

Muscle & Body Fat Analysis

Weight, Muscle Mass, Body Fat Mass
(Previous/Current)

Segmental Analysis & Body Balance

Segmental Muscle Assessment,
Segmental Body Fat Assessment,
Body Balance Assessment (Muscle Only)

Visceral Fat Analysis

Visceral Fat Level, Abdominal Fat Ratio

i20

Basic
Body Composition
Analyzer
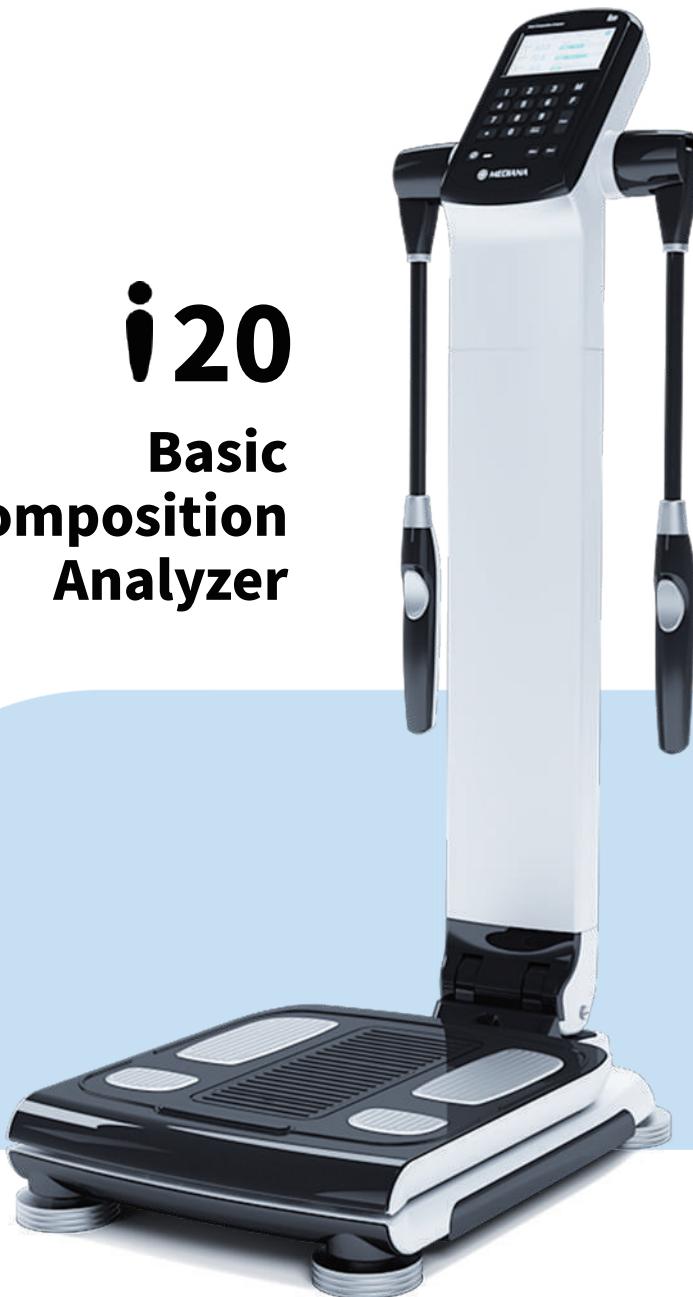
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Display : 4.3 inch (480 x 272), Color Touch LCD
Dimension : 360mm(W) x 559mm(D) x 992mm(H)
Weight : Appx. 17kg
Measurement Time : About 25 sec.
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Storage Environment : Temp. -10°C~60°C, Humidity 10%~80%, Air pressure 50~101.3kh