

อุปกรณ์ตรวจวัดวิเคราะห์องค์ประกอบร่างกาย  
**BODY COMPOSITION ANALYZER**

## Body Composition Analyzer

DSM-BIA professional humanbody composition analyzer, more than 50 sets of testing data to build a human data model, advanced IOT intelligent technology and IAP remote gateway technology, to meet various applications of Internet smart devices, with membership system and visitor Face recognition system, IC card and other usage system, easily and widely used in other



### Items



Height



Weight



BMI



Body Composition Analysis

### Product Features



1

Professional Body fat composition analysis

2

10.1 inch high resolution touch screen

3

Android 7.1 system

4

IoT intelligent networking technology

5

Face image identification technology

6

Multi-language selection, free switching between bilingual screens

7

DSM-BIA technology



Medical



Fitness



Nutrition



Wellness



Ultrasonic Probe For Height Measurement  
Accuracy:  $\pm 0.1$  cm

10.1-inch touch screen

Platform  
Accuracy:  $\pm 0.1$  KG

Body Fat Composition Measurement  
Accuracy for Fat:  $\leq 5\%$

Optional

Test Range	Gender: Male/ Female	
	Age range : 18-99 years old	
	Temperature: 10-40 °c Moderate 10-85RH	
Login Method	Swipe IC card	
	Face recognition login	
Display	Led 300 nit	10.1 inch,Resolution:1280*800
Height (Optional)	Measurement method:	Industrial grade ultrasonic measurement (including temperature compensation)
	Test Range	Height:70~210cm,
	Measurement accuracy	±0.5cm
Weight	Measurement method:	Weighing with precision balanced beam pressure sensor
	Measuring range:	weight:0.1~400Kg
	Maximum weight:	Less than 500Kg
	Measurement accuracy:	±0.1Kg
Fat measurement	Measuring system	8 electrodes
	Measuring frequency	5KHz, 50KHz, 250KHz, 500KHz, 1000KHz
	Analysis Project	Body fat, visceral fat, body water, muscle, bone quality
	Material	Plating materials
	Measuring current	below 90µA
	Resistance	75.0~ 1,500.000(0.1 ΩUnit)
	Measuring parts	Body, right leg, left leg, right arm, left arm
Data transmission	Ethernet	
API	provided	
Voltage	110-220V	
Rated power	50-60HZ	

## Human Body Composition Analysis Report

ID : 123456789012    Gender: Female    Type: Athlete size    Login way: Guest  
 Name: Beckham    Age: 32    Height: 175.5 cm    Date: 2020-11-22 10: 21

### 1 Body Composition Analysis

Weight 59.1 kg (43.9-59.5)		Body fat mass 21.8 kg (10.3-16.5)	
Non-fat mass 37.3 kg (35.8-43.7)			
Muscle mass 35.1 kg (33.8-41.7)	Skeletal muscle 19.6 kg (19.5-23.9)	Inorganic salt 2.63 kg (2.44-2.98)	
Body water 27.5 L (26.3-32.1)	Protein 7.2 kg (7.0-8.6)		
Intracellular fluid-ICF 16.6 L (16.3-19.9)	Extracellular fluid-ECF 10.9 L (10.0-12.2)		

### 2 Muscle Fat Analysis

	Low standard	Standard	Super standard	Standard Value
Weight (Kg)	75.6			68.2-79.5
Skeletal muscle (kg)	31.8			18.8-29.5
Body fat mass (Kg)	27.8			18.5-39.6

### 3 Obesity Analysis

	Low standard	Standard	Super standard	Standard Value
BMI	22.6			18.5-23.9
Body fat percentage (%)	25.3			16.8-23.5
Visceral fat grade	Standard	Height	Very high	Standard Value 1-9

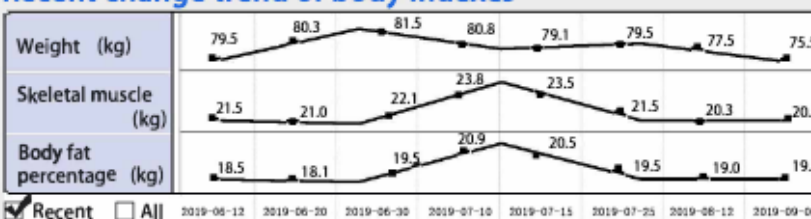
### 4 Extracellular water ratio analysis

	Low standard	Standard	Super standard	Standard Value
Extracellular water ratio (%)	0.397			0.360-0.390

### 5 Segmental Lean Analysis

Segment	Muscle mass	Fat mass	Fat ratio
1 Right Arm	2.9 Kg	1.0 Kg	25.2 %
2 Left Arm	3.1 Kg	1.0 Kg	23.8 %
3 Trunk	30.5 Kg	18.1 Kg	36.1 %
4 Right Leg	11.9 Kg	5.2 Kg	29.3 %
5 Left Leg	11.8 Kg	5.3 Kg	29.7 %

### 6 Recent change trend of body indexes



### 7 Overview

Physical examination score	69 points
Body age	45 years old

### 8 Other Items

Body water rate	32.8 % (30.5-38.6%)
Intracellular fluid-ICF	16.6 L (16.3-19.9)
Extracellular fluid-ECF	10.9 L (10.3-12.2)
Basal metabolic rate	1176 kcal
Protein ratio	25.2 % (18.2-30.1%)

### 9 Body type analysis result

- Invisible obese     Obese     Over obese  
 Insufficient type     Standard type     Standard muscle type  
 Thin     Lean muscle type     Muscular

### 10 Nutrition analysis

- Protein**  
 Insufficient     Normal     Overdose  
**Fat**  
 Insufficient     Normal     Overdose  
**Inorganic salt**  
 Insufficient     Normal     Overdose

### 11 Weight control

Target weight	75.2 kg
Weight control	- 1.4 kg
Fat control	- 8.6 kg
Muscle control	+ 6.9 kg

### 12 Bioelectrical impedance

	RA	LA	TR	RL	LL
5KHz	372.2	372.2	26.2	372.2	372.2
50KHz	357.8	357.8	25.8	357.8	357.8
250KHz	313.2	313.2	20.2	313.2	313.2
500KHz	321.3	321.3	19.3	321.3	321.3
1000KHz	321.3	321.3	17.3	321.3	321.3

### 13 Expert's comments