

Body Fat Analyzer

The body composition consisting of the human body is divided into four : body water, protein, minerals, and fat. This Body Fat Analyzer measures resistances when electric current flows through the human body to estimate body composition (Bioelectrical Impedance Analysis (BIA)). Containing water that conducts electricity well, muscles have low resistances; on the other hand, fat contains no water, having high resistances. Based on these differences, body composition is measured, and the measured information is provided by the app.

This product can be used with mobile devices.(iPhone 5S iOS 9.0 or later / Adroid OS 4.3.3 or later)

Safety Precautions When Measuring Body Composition

1. Body composition measurement may be affected by food/water intake, sweating or urination, menstrual cycles, changes in water content throughout the day, outside temperature, body temperature, and etc.
2. As water metabolism in body works by hour, make sure to measure at the same time of day at room temperature (20~25°C).
3. In order to avoid errors caused by water content in body, please measure after at least two hours since waking up.
4. In order to avoid errors caused by food, please measure while fasting before a meal or two hours after a meal.
5. Please measure after discharging feces and urine.
6. Measure before doing exercise or action that may reduce body water.
7. If you measure after extreme exercise or at high body temperature, the measurement result may change.
8. If you move or talk while measuring, the measurement result may change.
9. Please stand up for about five minutes before measuring body composition and sit without putting armpit and thigh on the body for the measurement.
10. It is recommended that women not take measurements when the body's water content increases during their menstrual cycle as the measurement result can be inaccurate in the period.
11. Please remove electronic devices or metal accessories from your body before measuring.
12. If you have metal implants in your body, please do not measure.

How to Measure Body Composition

* Smartphone iPhone 5S_iOS 9.0 or later version / Android_OS 4.3.3. or later version

1. Before Using IoT Body Composition Measuring Instrument

1) Please download Kuvigns Body Composition Measurement app at the App Store.

2) Once installed, run the app, create your user profile.

3) Button on  the back of the device, check for LED illumination. And sync the product and your smart phone.

4) Connect the app with your mobile phone and push  button on the back of the device to pull out embedded measuring instrument.

2. Using IoT Body Composition Measuring Instrument

- 1) Make sure your mobile phone and the app are connected.
- 2) Extend your arms to hold four electrodes correctly with your thumb and index fingers.



- 3) Please don't move or speak while measuring.

※ Keep your arms straight and do not talk or move during the measurement.

- 4) After measuring is completed, as shown in the picture , push the electrodes toward the center and insert to the device as shown in the image.

- 5) Check the measurement result on the app.

* Tips for More Precise Measurement

- 1) Please stand up for about five to ten minutes, and then sit for the measurement.
- 2) In order to avoid errors caused by food, measure while fasting before a meal or two hours after a meal.
- 3) Please don't move or speak while measuring.

* How to Manage the Instrument

- Please make sure the electrodes of the instrument are not stained with foreign substance.
(If there is any foreign substance on the device, remove it with a dry cloth before using.)

Directions for Body Composition Measurement

1. Consult with an expert first if you consider a diet/exercise program for the purpose of weight loss.
2. Do not use the measuring instrument near a device that generates and uses strong electromagnetic waves such as microwave oven. It may occur a measurement error.
3. Please be careful of any foreign substance on the electrodes of the measuring instrument. If there is any foreign substance on the device, remove it with a soft cloth, or with a minimum amount of water, cleaner and spray if required, before using.
4. The simultaneous use of the extraction function and the body composition measurement function may occur a measurement error.
5. Please do not take measurement while pregnant or suspected to be pregnant or during menstruation.
6. This product may affect pacemaker, ECG-related medical appliances, artificial heart, heart-lung machine and other medical devices. Thus, do not use this product if you are using one of those devices.
7. Do not use the instrument for the elderly or the physically and mentally weak.
8. Do not use the measurement instrument for purposes other than the specified.
9. Please use mobile devices (iPhone 5S iOS 9.0 or later / Adroid OS 4.3.3 or later) for the body composition measurement through the product.

SPECIFICATIONS

Product : Body Fat Analyzer

Model : BFA-1, BFA-2

Voltage : DC 5V

Frequency: 2402 ~ 2480 MHz (Bluetooth LE), F1D

Manufacturer : NUC Electronics Co., Ltd.

Origin : Made in Korea

Regulatory statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning : Changes or modifications not expressly approved by the manufacturer (or party responsible) for compliance could void the user's authority to operate the equipment