OMRON



Body Composition Monitor

HBF-255T

Thank you for purchasing the OMRON Body Composition Monitor.

Before using this unit, please be sure to read this Instruction Manual carefully to understand the safe and proper use.

Please store this Instruction Manual carefully for future reference.

All for Healthcare

HBF-255T Body Composition Monitor

This unit can measure and display the following parameters.

- Body Weight
- Visceral Fat (up to 30 levels)
- Resting Metabolism (in kcal)
- Body Age

- Body Fat (in %)
- Skeletal Muscle (in %)
- BMI (Body Mass Index)

This unit is intended to be operated by adults who can understand this instruction manual. It is not for professional use in hospitals or other medical facilities. It is intended for home use only.

Please read this instruction manual carefully before use and for further information on the individual functions.

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Before using the unit

Notes on Safety

Symbols and definitions are as follows:

Danger Improper use may cause danger resulting in death or serious injury.	
Warning	Improper use may result in possible death or serious injury.
≜ Caution	Improper use may result in injury or property damage.

Danger

· Never use this unit in combination with medical electronic devices such as:

- (1) Medical electronic implants such as pacemakers.
- (2) Electronic life support systems such as an artificial heart/lung.
- (3) Portable electronic medical devices such as an electrocardiograph.

This unit could cause these devices to malfunction, posing a considerable health risk to users of these devices.

Warning:

- Keep the unit out of the reach of infants, toddlers and children. Contains small parts that may cause a choking hazard if swallowed by infants.
- · Do not use the unit on slippery surfaces, such as a wet floor.
- Do not jump onto the unit, or bounce on the unit.
- Do not use this unit when your body and/or feet are wet, such as after taking a bath.
- · Stand on the unit bare-footed. Standing on the unit with socks on may cause you to slip and injure yourself.
- · Do not step on the edge or display area of the unit.
- Don't place the unit against the wall.
- · People with disabilities, or who are physically frail, should always be assisted by another person when using this unit.
- If battery fluid should get in your eyes, immediately rinse with plenty of clean water. Consult a physician immediately.
- This product emits radio frequencies (RF) in the 2.4 GHz band. Do not use this product in locations where RF is restricted, such as on an aircraft or in hospitals.
- · As this unit is a precision instrument, do not drop, vibrate, or apply strong shocks.

▲Caution:

- Do not disassemble, repair, or remodel the unit.
- Do not begin a weight reduction or exercise program without consulting a physician or healthcare specialist first. Self-diagnosis
 could injure your health.
- During measurement, make sure that no mobile phone or smartphone is near this device. This may result in incorrect operation of the device and/or cause an inaccurate reading.
- Use batteries specified for this unit. Do not insert the batteries with the polarities in the wrong direction.
- · Replace worn batteries with new ones immediately.
- · Do not use batteries of different manufacturers or brands together.
- · Do not use new and worn batteries together.
- Do not use batteries which have passed the recommended use-by date.
- Remove the batteries from this unit when you are not going to use it for a long period of time (approximately three months or more).
- · If battery fluid should get on your skin or clothing, immediately rinse with plenty of clean water.
- Do not dispose of batteries in fire.
- Always wash your feet before using the unit. If you are suffering from a foot infection or other skin disease, you may cause infection to other people.
- When the unit will be used by several people, wipe the unit with a damp cloth moistened with mild detergent after using it. Then wipe it dry.
- · Do not use this unit for purposes other than described in this manual.
- · This unit is not for professional use in hospitals or other medical facilities. It is intended for home use only.

Data Transmission

- Do not replace the battery while your measurement result is being transferred to your smart device. This may result in the incorrect operation of your monitor and failure to transfer your measurement result.
- Do not place integrated circuit cards, magnets, metal objects, or other devices that emit electromagnetic fields near this monitor while your measurement result is being transferred to your smart device. This may result in the incorrect operation of your unit and failure to transfer your measurement result.

Incorrect Measurement

Incorrect measurement might occur to the following users:

Elderly people (over 81 years old) / People with a fever / Body builders or highly trained athletes / Patients undergoing dialysis / Patients with osteoporosis who have very low bone density / Pregnant women / People with swelling.

· Because the body composition such as body water might greatly deviate from the average value.

1. Know Your Unit

Main Unit



0		 Power Touch Button Touch this button to turn on the power and confirm the value and turn off the power (3 seconds or longer).
2	\triangleleft	Back Touch ButtonTouch this button to confirm the result, select a personal number and set your personal data.
3	\triangleright	Advance Touch Button Touch this button to select a personal number, confirm the result and set your personal data.
4		Last ButtonPress this button to check the last value.
6	ВАСК	Back ButtonPress this button to change or delete the personal data.
6	©≒	Transmission Button • Press this button to pair the unit with your smart device.
7		OFF Button • Press this button to turn off the power.

Display

	Parent-child Symbol	
Weight Symbol Lights when only Gender Symbol measuring the body weight. Image: Constraint of the body weight.	Child Symbol f Lights when the subtracted body weight value is displayed.	Battery Symbol (low/depleted)
Personal Number Symbol	> ⊲ WEIGHTFATVISCERALFAT	Bluetooth Symbol Displays when the measurement results are being transferred.
Lights when personal number is displayed.		SYNC Symbol Blinks or displays when the
Birth Date, Date Symbol		measurement results need to be transferred because the stored memory is either almost,
Body Fat Perc	centage, Visceral Fat Level, Skeletal	or completely full.

Muscle Percentage Indicator

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2. Insert and Replace the Batteries

1. Open the battery cover on the back of the unit.

Push the clasp and remove the battery cover.



3. Close the battery cover.

Battery Life and Replacement

- Approximately 6 months (When AAA batteries are used with four measurements, two data transfers in BLE and two data transfers in manual BLE per day at a room temperature of 23°C)
 - The supplied batteries are for trial use only, they may have a shorter life.
- When the depleted battery symbol appears on the display, replace all four batteries with new ones.
 - It uses 4 single alkaline batteries.
 - Please do not use manganese dry batteries or rechargeable batteries, due to very short use times, become the cause of wrong operation.
 - Replace all four batteries with new ones (same type) at the same time.
 - When the low battery symbol 🖾 blinks, recommend to replace the batteries with new ones ahead of time.
- Replace the batteries after turning off the power.
 - Personal data stored in the unit are retained even if the batteries are removed.
 - Disposal of used batteries should be carried out in accordance with the national regulations for the disposal of batteries.
- When the batteries are replaced, you need to reset the date and time. (Refer to Section 4.)

About the Power OFF Function

- Press the OFF button to turn off the power.
- Touch the button (3 seconds or longer) to turn off the power.
- The power automatically turns off if the unit is not used for 1 minute when setting-up the date and time.









1. Turn on the Bluetooth of your smart device.

2. Download and install the "OMRON connect" app onto your smart device.

You can choose one of the following 2 methods.

Scan the code image to get access to the following address.



www.omronconnect.com/setup

code image

Search the "OMRON connect" app from "App Store" or "Google Play".



3. Open the app on your smart device and follow set-up and pairing instructions.

If you already have the OMRON connect app, go to: Menu>Device>Add Device

NOTES

- · One smart device manages the data of one user.
- · If an app other than "OMRON connect" is used, data might not be transferred correctly.
- · Please read the utilization method and usage instruction within the app for details.

Before using the unit

4. Set the Date and Time

Setting the date and time is necessary before taking a measurement for the first time or after replacing the batteries.

• Date and time can be set from "OMRON connect" app as well.

1. Touch the — button to turn on the power.

The year blinks on the display.

2. Select and confirm the year.

Touch the \triangleleft and \triangleright button to select the year and touch the \longrightarrow button to confirm.

• Setting range of year: 2014 to 2045.

3. Set the unit to the correct date and time.

Touch the \triangleleft and \triangleright button to adjust and touch the \implies button to confirm.

• Time is 24-hour system.



After all the settings for the year, month, day, hour and minute are displayed in that sequence, the power automatically turns off.

NOTES

- If any mistake is made during the setting, press the OOFF button to turn off the power and start from "Step 1" again.
- If, when setting-up the date and time, this monitor is not used for 1 minute, the power will automatically turn off. Set the date and time anew.
- To modify the date or time, remove the batteries and wait for at least 20 seconds. Then insert the batteries and reset again.

Before using the unit

5. Register the Personal Data

For the measurement of body composition, it is necessary to register your personal data (birth date, gender, height). The registered data can be stored for up to 4 persons.

• The personal data can be registered from "OMRON connect" app as well.

1. Touch the — button to turn on the power.

The power turns on. Personal number "1" blinks. Birth date (- / --) is displayed.

2. Select and confirm your personal number.

Touch the \triangleleft and \triangleright button to select your personal number and touch the — button to confirm.

3. Set the birth date.

Touch the \triangleleft and \triangleright button to set the birth date and touch the \Longrightarrow button to confirm.

• Setting range of year:1900 to 2045.









Day

4. Set the gender

Touch the \triangleleft and \triangleright button to set the gender \square (MALE) or \square (FEMALE) and touch the \longrightarrow button to confirm.

5. Set the height.

Touch the \triangleleft and \triangleright button to adjust the height and touch the \longrightarrow button to confirm.

· After all the settings are displayed for your confirmation, "0.00 kg" appears on the display.

6. Step onto the unit to take a measurement when "0.00 kg" is displayed.

The data of body weight and body composition are recorded in the unit to support automatic recognition. After a while, the measurement results are indicated as follows.



7. Step off the unit after the measurement results are displayed.

The personal data registration is completed.

- **8.** Press the \bigcirc OFF button or touch the button (3 seconds or longer) to turn off the power.
 - To add new personal data, start from the "Step 1".

6. How to Take a Measurement Accurately

6.1 Correct postures during the measurement



6.2 About the "0 kg correction" (Caution for storing)

The unit regularly corrects accuracy automatically when it is not in use.

• If the unit is placed as shown below this accuracy correction function does not work, implement the "0 kg correction" before taking measurement.



The unit is leaning against the wall or other objects



The unit is placed upside down



The unit is placed on an object



An object is placed on the unit

6.3 How to implement the "0 kg correction"

1. Place the unit on a hard and level floor.

- **2.** Touch the \longrightarrow button to turn on the power.

This completes the "0 kg correction". Wait for 5 seconds, and then take a measurement.



7. Take a Measurement

When person steps onto the unit, it will be powered on to recognize the personal number automatically and start the measurement.

Wrong personal number may be displayed in the following cases.

· Users of similar body type and body weight are · Your body weight has changed since last measurement. measured. C 75.05 kg C 70.05 kg A 70.10 kg B 70.15 kg 30 no 3 no 1 no 1 30 days later If inaccurate recognition continues, select your personal number to take a measurement. (Refer to Section 10.)

1. Take a measurement when the power of the unit is off.

- If the unit is not on a hard and level floor, please implement the "0.00 kg" correction before taking measurement. (Refer to Section 6.)
- · When you step onto the unit, the power automatically turns on, Estimated personal number and measurement results are displayed.



2. When personal number and measurement results are displayed, the measurement is completed.

Step off the unit.

3. Confirm your personal number.

If your personal number is correct...

Touch the — button to confirm your personal number.

Estimated personal number





Ima disappears, and last value is displayed.

If your personal number is incorrect...

Estimated personal number Before the power turns off, select your personal number with the

 \triangleleft and \triangleright button, and then touch the \Longrightarrow button to confirm.



If you confirmed your personal number incorrectly...

Before the power turns off, press the \bigcirc Back button and then touch the \triangleleft and \triangleright button so that you can select your personal number again.

4. Check the measurement results.

The results display rotates automatically as shown below.

Once you confirm your personal number, you can switch it to a measurement result you want to view with the \triangleleft and \triangleright button.

Note

- Use Body Fat Percentage, Visceral Fat Level, Skeletal Muscle Percentage, and BMI classification indicator as a guide to measurement.
- To better understand your measurement results, refer to the information and diagrams in Section 19 and 20.



5. Press the \bigcirc OFF button or touch — button (3 seconds or longer) to turn off the power.

8. View the Measurement Results on the unit

• This unit automatically stores up to 30 measurement results per user. On the unit, only the last measurement result can be seen. Other measurement results can be seen on the smart phone.

1. Press the OLAST button and turn on the power.

2. Select your personal number.

• Touch the <\[] and <\[> button to select the personal number you want to view.

3. Touch the — button to confirm the personal number.

• The last value is displayed.

4. Confirm the last value.

- Touch the \triangleleft and \triangleright button to switch the measurement result you want to view.

Note

· When the measurement result exceeds 30 times, it is deleted from the older measurement result in turn.

Operating instructions

9. View the Measurement Results on Your Smart Device

This unit can transmit measurement results to your smart phone. You can confirm weight and body composition changes simply with your smart phone.

1. Open the "OMRON connect" app on your smart device. (Refer to Section 3.)

2. After taking a measurement the result will be transmitted to your smart phone through "OMRON connect" app.

3. Follow the instructions from the "OMRON connect" app to view your measurement results.

Then you can confirm the variation of your weight and body composition parameters on your smart device.

10. Select Your Personal Number and Take a Measurement

If your personal number is not recognized frequently, you can select your personal number and take the measurement as follows.

1. Touch the \longrightarrow button to turn on the power.

The power turns on. Personal number "1" blinks.

2. Select your personal number.

Select your personal number with the \triangleleft and \triangleright button.

3. Touch the — button to confirm your personal number.

"0.00 kg" is displayed.

4. Take a measurement when "0.00 kg" is displayed.

Please confirm the correct measurement method before your measuring. (Refer to Section 6.)



5. Check the measurement results.

The results display rotates automatically.

6. Press the \bigcirc OFF button or touch the — button (3 seconds or longer) to turn off the power.



11. Guest Mode (Unrecorded Mode)

When this mode is used, your measurement results will not be recorded. When you use this mode, please set the birth date, gender, height before taking measurement.

1. Touch the \longrightarrow button to turn on the power.

The power turns on. Personal number "1" blinks.

2. Select the "GUEST (no.- -)" with the \triangleleft and \triangleright button.

Every time you touch the \triangleright button, "no.1" \rightarrow "no.2" \rightarrow "no.3" \rightarrow "no.4" \rightarrow "GUEST (no.- -)" \rightarrow " $\overleftarrow{\Box}$ (no.0)" \rightarrow "no.1" \cdots appear in sequence on the display.

3. Touch the — button to confirm the personal number.

"0.00 kg" is displayed.

4. Enter personal data.

4.1 Set the birth date

Touch the \triangleleft and \triangleright button to set the birth date and touch the \bigcirc button to confirm.

· Setting range of year: 1900 to 2045







4.2 Set the gender

Touch the \triangleleft and \triangleright button to set the gender \square (MALE) or \square (FEMALE) and touch the \bigcirc button to confirm.

4.3 Set the height

Touch the \triangleleft and \triangleright button to set the height and touch the \bigcirc button to confirm.

After all the settings are displayed for your confirmation, "0.00 kg" appears on the display.





5. Start Measurement when "0.00 kg" is displayed.

Please confirm the correct measurement method before your measuring. (Refer to Section 6.)



6. Check the measurement results.

The results display rotates automatically.

7. Press the \bigcirc OFF button or touch the — button (3 seconds or longer) to turn off the power.

Operating instructions

12. Measure Weight Only

When this mode is used, your measurement result will not be recorded.

1. Touch the \longrightarrow button to turn on the power.

The power turns on. Personal number "1" blinks.

2. Select " $\overline{\bigtriangleup}$ (no.0)" with the \triangleleft and \triangleright button.

Every time you touch the \triangleright button, "no.1" \rightarrow "no.2" \rightarrow "no.3" \rightarrow "no.4" \rightarrow "GUEST (no.- -)" \rightarrow " $\overleftarrow{\Box}$ (no.0)" \rightarrow "no.1" \cdots are displayed in sequence.

3. Touch the — button to confirm the personal number.

"0.00 kg" is displayed.

4. When the "0.00 kg" is displayed, step onto the unit.

• Please confirm the correct measurement method before your measuring. (Refer to Section 6.)



5. Check the measurement result.

Your weight is displayed and blinks to indicate that measurement is completed.

6. Press the \bigcirc OFF button or touch the \longrightarrow button (3 seconds or longer) to turn off the power.



13. Weight Subtraction Function

- This product has a function that displays the 1st and 2nd body weight differences. The measurement value that is measured with the weight subtraction function is not recorded on the unit.
- · Convenient for measuring the weight of your baby or pet.



1. Touch the \longrightarrow button to turn on the power.

• The power turns on. Personal number "1" blinks.

2. Touch \triangleleft and \triangleright button to select " $\overline{\square}$ (no.0)".

• Every time you touch the \triangleright button, "no.1" \rightarrow "no.2" \rightarrow "no.3" \rightarrow "no.4" \rightarrow "GUEST (no.--)" \rightarrow " $\overleftarrow{\Box}$ (no.0)" \rightarrow "no.1" \cdots are displayed in sequence.



3. Touch the — button to confirm the personal number.

• "0.00 kg" is displayed.

4. When the "0.00 kg" is displayed, step onto the unit and take the 1st measurement.

• Please confirm the correct measurement method before your measuring. (Refer to Section 6.)



The 1st measurement result is displayed.

5. When the measurement result is displayed, step down from the unit.

6. Touch the \longrightarrow button.

• The following screen appears after you hear the "Pi" sound.



7. When the "0.00 kg" is displayed, step onto the unit for the 2nd measurement.

• Please confirm the correct measurement method before your measuring. (Refer to Section 6.)



The 2nd measurement result is displayed.

8. When the measurement result is displayed, step down from the unit.

- The 1st and 2nd body weight difference is displayed after the 2nd measurement result is displayed.
- When the body weight difference is displayed, the child mark appears.



The 2nd measurement result is displayed.



body weight difference is displayed

Note

• The 1st and 2nd measurements show the same body weight difference regardless of which one is heavier. Take measurement in the order you feel comfortable in when stepping onto the unit.

14. Change or Delete Your Personal Data

4. Press the O Back button.

"0.00 kg" is displayed.

"CHANGE" and "DEL" blink.

5. Select "CHANGE" or "DELETE" the personal data.

3. Touch the \longrightarrow button to confirm the personal number.

1. Touch the — button to turn on the power.

The power turns on. Personal number "1" blinks.

• Even if the personal data are changed, the measurement results will not be changed or deleted. When using the personal number which has been used by another person, delete the personal data and then register the personal data again.









15. Delete the Communication Setting

If you want to stop the use of the "OMRON connect" app or delete the communication settings from your smart device, please operate as follows. All the communication settings recorded in the unit will be deleted.

1. Press and hold the BACK and C = button more than 3 seconds.

The screen below is displayed.



2. Touch the — button to confirm.

If you see "OK" as shown below, it is complete.



Care and maintenance

16. Maintenance and Storage

How to Clean the Unit

- · Always keep the unit clean before use.
- Wipe the unit with a soft dry cloth. If necessary, use a cloth moistened with water or detergent and squeeze it well before wiping the unit, then wipe off with a dry cloth.
- · Do not use benzene or thinner, or other volatile solvents to clean the unit.
- Do not wash the unit with water.

Care and Storage

- · Do not store the unit in the following conditions:
 - Humidity, where moisture or water may get into the unit
 - High temperatures, direct sunlight or dusty places
 - Places with the risk of sudden shocks or vibrations
 - In places where chemicals are stored or where corrosive gas is present
- Do not carry out repairs of any kind by yourself. This product is calibrated at the time of manufacture. If at any time you question the accuracy of measurements, please contact your authorized OMRON distributor.

17. Troubleshooting

In case of any of the below problems occur during the measurement, first check that no other electrical device is within 30cm. If the problem persists, refer to the table below.

Error Display	Cause	Correction
Err 1	You stepped off the unit during a measurement of body composition.	Do not step off the unit until the measurement of body composition is completed. (Refer to Section 6.)
	Your soles are not in firm contact with the electrodes.	Make sure that you are standing on the unit correctly by placing your soles firmly on the electrodes when taking a measurement. (Refer to Section 6.)
8003	The posture for measurement is incorrect, your soles are not in firm contact with the electrodes or your soles were dry.	Stand with your knees and back straight. Keep your feet firmly placed on the electrodes and do not move your feet when taking a measurement. (Refer to Section 6.) Slightly moisten your soles with a wet towel and try again.
ErrS	Abnormal operation.	Remove and then re-insert the battery. Once this is complete, please restart the device. If this error continues to display, consult the OMRON service representative.
		Turn off the power and try to communicate again. If this error is displayed again, contact the OMRON service representative.
~	You moved the unit before the "0.00kg" was displayed.	Don't move the unit until a measurement is completed.
Err	You moved during a measurement.	Stand still during a measurement.
	Your body weight was out of the	measurable range (2 ~ 135kg).
Err	Communication failure.	Confirm the display of your smart device and follow the instructions in "OMRON connect" app. Refer to "Help" from "OMRON connect" app.
no. 🖓	Personal data is not registered.	Register your personal data when your personal number blinks after displaying weight.
	Personal data is not registered.	If "year" blinks when you select personal number, please register your personal data.
	Batteries are low.	Recommend to replace the batteries with new ones ahead of time. (Refer to Section 2.)
	Batteries are depleted.	Replace the batteries. (Refer to Section 2.)

Problem	Cause	Correction				
blinks	24 sets of measurement results or more have been stored.	Transfer the measurement results to "OMRON connect" app, then the symbol will disappear.				
4	30 sets of measurements results have been stored.	If the number exceeds 30, the oldest results are deleted. Transfer the measurement results to "OMRON connect" app, then the symbol will disappear.				
	You pressed and held the \bigcirc button more than 2 seconds.	This is displayed when you pair your unit with your smart device. Follow the instructions on the "OMRON connect" app. Press the \bigcirc OFF button to stop the pairing.				
	You pressed the ©⇔ button.	This is displayed when the data is transferred to your smart device. Follow the instructions on the "OMRON connect" app. Press the OOFF button to stop the transmission.				
	You pressed and held the \bigcirc and \bigcirc OFF button more than 2 seconds when " P " and the Bluetooth symbol was blinking.	This is displayed when you delete the communication setting. (Refer to Section 15.) Press the OFF button to stop the operation.				
Even if you turn on the	No batteries are inserted.	Insert the batteries.				
power, nothing is displayed. Even if you step onto the	The batteries are inserted in the wrong direction.	Insert the batteries in the correct direction.				
unit, nothing is displayed.	The batteries are worn out.	Replace all four batteries with new ones.				
Only the weight and BMI are displayed.	People below 6 years old: weight and BMI can be measured.	Check whether your personal data is correct.				
Visceral Fat Level and Body Age aren't displayed.	People below 18 years old: Visceral fat level and body age cannot be measured.	Remove the battery and then re-inset it after about 20 seconds or more, check whether the date is correct.				
"" is displayed for some results. The registered data or body composition values were out of measurable range.		Check whether the settings of birth date, gender, and height are correct. Even if these settings are correct, "" is displayed if they are out of the displayable or supported age range.				
	Your posture is wrong during a measurement.	Take a measurement with a correct posture.				
The measurement result	You take a measurement on a carpet or cushioned floor surface, or an uneven floor.	Take a measurement on a hard and level floor.				
is higher or lower than the actual result. The result	Your soles and body are cold, impairing blood circulation.	Warm your body to get blood circulation back to normal before taking a measurement.				
varies widely for each measurement.	The foot electrodes are very cold.	Leave the unit in a warm room for a while before taking a measurement.				
	Your soles are dry.	Slightly moisten your soles with a wet towel before taking a measurement.				
	The "0 kg correction" was not implemented correctly.	Implement the "0 kg correction". (Refer to Section 6.3.)				
	Your body weight has changed widely since the last measurement.					
You are not recognized correctly.	Your body type is similar to another registered person.	Select personal number before taking a measurement. (Refer to Section 10.)				
	The measurement results of another user has been registered.					
You want to measure the body composition, but only the body weight is displayed.	Personal number or GUEST is not selected. (Personal number or GUEST is not displayed.)	Select personal number or GUEST before taking a measurement.				
	You pressed a button when you stood on the unit.	Step off the unit, and then press a button.				
A button does not respond.	The button is wet or contaminated.	Wipe off the water or stain before taking a measurement.				
	You pressed two or more buttons simultaneously.	Press one button at a time.				
Failure to send data.	Refer to "Help" in "OMRON connect	" арр.				
the above corrections are not effective, contact the OMRON service representative						

If the above corrections are not effective, contact the OMRON service representative.

There is a possibility that there may be an error on the constitution rarely.

When the product is damaged or repaired, the measurement record is erased.

18. Technical Data

Product Description	OMRON Body Compo	osition Monitor	
Model	HBF-255T		
Display*1	Body Weight:	2.0 to 100.0 kg with an increment of 0.05 kg	
2.00100		100 to 135 kg with an increment of 0.1 kg	
	Body Fat percentage:		
	Skeletal Muscle	5.0 to 60.0% with an increment of 0.1%	
	percentage:		
	BMI:	2.5 to 90.0 with an increment of 0.1	
	Resting Metabolism:	385 to 3999 kcal with an increment of 1 kcal	
	Body Age:	18 to 80 years old with an increment of 1 year	
	Visceral Fat Level:	30 levels with an increment of 1 level	
		Skeletal muscle percentage classification: + (High) / ++ (Very High) 4 levels with 3 sublevels each	
	Visceral fat level clas	sification:	
	, , , , , , , , , , , , , , , , , , , ,	++ (Very High) 3 levels with 3 sublevels each	
	• •	e Body Fat percentage, Body fat percentage classification, Skeletal Muscle	
		I Muscle percentage classification, Resting Metabolism is Over 6 years old. e Visceral Fat level, Visceral Fat level classification and Body Age is Over 18	
	years old.		
Transmission Protocol	Bluetooth [®] low energy	/ technology	
Wireless communication	Frequency range:	2.4 GHz (2400 - 2483.5 MHz)	
	Modulation:	GFSK	
	Effective radiated pov		
Setting Items*2	The following informati	on can be stored for up to 4 persons.	
	Measurement unit	kg&cm	
	Birth date	January 1st, 1900 to December 31st, 2045	
	Gender	Male / Female	
	Height	100.0 to 199.5 cm with an increment of 0.5 cm	
		a person is less than 100.0 cm or more than 199.5 cm, BMI and body ement results are for reference.	
Weight Accuracy	2.0 kg to 40.0 kg: ± 0.4	kg	
	40.0 kg to 135.0 kg: ±	1%	
Accuracy (S.E.E.* ³)	Body Fat percentage:	3.5%	
	Skeletal Muscle perce	entage: 3.5%	
	Visceral Fat Level:	3 levels	
Durable Period	5 years		
Power Supply	4 AAA alkaline batterie		
Battery Life		ns (When AAA alkaline batteries are used in four measurements, two data vo data transfers in manual BLE per day at a room temperature of 23°C)	
Operating Temperature/	+5°C to +40°C, 30% to	85% RH (no-condensing), 860 hPa to 1060 hPa	
Humidity/Air Pressure Storage and Transport	20°C to ±60°C 400/ ±	a 0.5% PH (na condensing) 960 hDa ta 1060 hDa	
Temperature/Humidity/	-20°C to +60°C, 10% to 95% RH (no-condensing), 860 hPa to 1060 hPa		
Air Pressure			
Weight	Approx. 1.7 kg (includi	ng batteries)	
External Dimensions	Approx. 327(W) x 30(H	• ·	
Contents		itor, 4 AAA alkaline batteries (LR03),	
	, ,	truction Manual, Caution Sheet, Quick Start Guide	

*³ S.E.E: standard error of estimation



Note • Subject to technical modification without prior notice.

*Below 6 years old: Only Body weight and BMI can be measured. Below 18 years old: Visceral fat level and body age cannot be measured. Over 81 years old: Body composition is for reference value.



This Product operates in the unlicensed ISM band at 2.4GHz. In case this Product is used around the other wireless devices including microwave and wireless LAN, which operate same frequency band of this Product, there is a possibility that interference occurs between this Product and such other devices. If such interference occurs, please stop the operation of other devices or relocate this Product before using this Product or do not use this Product around the other wireless devices.

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	Direct current	SN	Serial number			
	This product should not be used by persons with medical implants, e.g. heart pacemakers, artificial heart, lung or other electronic life support systems.	ł	Temperature limitation			
	Atmospheric pressure limitation))	Humidity limitation			
Need for the user to consult the instructions for use						

Information on body composition

19. Information on Body Composition

Principle of body composition calculation

Body fat has low electric conductivity

HBF-255T measures the body fat percentage by the Bioelectrical Impedance (BI) method. Muscles, blood vessels and bones are body tissues with a high water content that conducts electricity easily. Body fat is tissue that has little electric conductivity. The unit sends an extremely weak electrical current of 50 kHz and less than 500 µA through your body to determine the amount of fat tissue. This weak electrical current is not felt while operating the unit.

In order for the scale to determine your body composition, it uses the electrical impedance, along with your height, weight, age and gender information to generate results based on OMRON's data of body composition.

Recommended measurement times

Understanding the normal changes in your body fat percentage can help you in preventing or reducing obesity. Being aware of the times when the body fat percentages shift within your own daily schedule will assist you in obtaining an accurate trending of your body fat. It is recommended to use this unit in the same environment and daily circumstances. (See chart)



Avoid Taking Measurements Under the Following Conditions:

- Immediately after vigorous exercise, after a bath or sauna.

- After drinking alcohol or a large amount of water, after a meal (about 2 hours).

If a measurement is taken under these physical conditions, the calculated body composition may differ significantly from the actual one because the water content in the body is changing.

What is BMI (Body Mass Index)?

BMI uses the following simple formula to indicate the ratio between weight and height of a person.

BMI = weight (kg) / height (m) / height (m)

The OMRON HBF-255T uses the height information stored in your personal number or when entering information in the Guest Mode to calculate your BMI classification.

If the fat level revealed by BMI is higher than the international standard, there is an increased likelihood of common diseases. However, not all types of fat can be revealed by BMI.

What is Body Fat Percentage?

Body fat percentage refers to the amount of body fat mass in regards to the total body weight expressed as a percentage.

Body fat percentage (%) = {Body fat mass (kg) / Body weight (kg)} × 100

HBF-255T uses the BI method to estimate your body fat percentage. Depending on where the fat is distributed in the body, it is classified as visceral fat or subcutaneous fat.

What is Visceral Fat Level?

Visceral fat = fat surrounding internal organs

Too much visceral fat is thought to be closely linked to increased levels of fat in the bloodstream, which can lead to common diseases such as hyperlipidemia and diabetes, which impairs the ability of insulin to transfer energy from the bloodstream and using it in cells. In order to prevent or improve conditions of common diseases, it is important to try and reduce visceral fat levels to an acceptable level. People with high visceral fat levels tend to have large stomachs. However, this is not always the case and high visceral fat levels can lead to metabolic obesity. Metabolic obesity (visceral obesity with normal weight) represents fat levels that are higher than average, even if a person's weight is at or below the standard for their height.

What is Subcutaneous Fat?

Subcutaneous fat = fat below the skin

Subcutaneous fat not only accumulates around the stomach but also around the upper arms, hips and thighs, and can cause a distortion of the body's proportions. Although not directly linked to increased risk of disease, it is thought to increase pressure on the heart and other complications. Subcutaneous fat is not displayed in this unit, but is included in the body fat percentage.

What is Skeletal Muscle?

Muscle is divided into two types, muscle in internal organs, such as the heart, and skeletal muscle attached to bones that is used to move the body. Skeletal muscle can be increased through exercise and other activity. Increasing the ratio of skeletal muscle means that body can burn energy more easily, which means that it is less likely to turn to fat, and makes it easier to lead an energetic lifestyle.

What is Resting Metabolism?

Regardless of your activity level, a minimum level of caloric intake is required to sustain the body's everyday functions. Known as the resting metabolism, this indicates how many calories you need to ingest in order to provide enough energy for your body to function.

What is Body Age?

Body age is based on your resting metabolism. Body age is calculated for you as a guide that indicates whether your overall body composition profile (based on weight, body fat percentage and skeletal muscle percentage) is above or below the average for your actual age. To know your body age is useful to improve your health condition.



Subcutaneous Fat



20. Measurement Results Interpretation Diagrams

Interpreting the Body Fat Percentage Result

Body Fat Percentage			Classification	
Male	Female	4 Level	12 Level	Display
5.0 ~ 6.6%	5.0 ~ 9.9%		1	—
6.7 ~ 8.3%	10.0 ~ 14.9%	– (Low)	2	—))
8.4 ~ 9.9%	15.0 ~ 19.9%		3	— • • •
10.0 ~ 13.2%	20.0 ~ 23.2%		4	
13.3 ~ 16.5%	23.3 ~ 26.5%	0 (Normal)	5	
16.6 ~ 19.9%	26.6 ~ 29.9%		6	
20.0 ~ 21.6%	30.0 ~ 31.6%		7	+
21.7 ~ 23.3%	31.7 ~ 33.3%	+ (High)	8	+
23.4 ~ 24.9%	33.4 ~ 34.9%		9	+
25.0 ~ 33.3%	35.0 ~ 39.9%		10	++
33.4 ~ 41.7%	40.0 ~ 44.9%	++ (Very High)	11	++]]
41.8 ~ 50.0%	45.0 ~ 50.0%		12	++]]]

Based on the obesity values proposed by Lohman (1986) and Nagamine (1972).

Interpreting the Visceral Fat Level Result

Visceral Fat Level		Level Classification	
VISCEIAI FAL LEVEI	3 Level	9 Level	Display
1 ~ 6	0 (Normal)	1	
7		2	
8 ~ 9		3	
10 ~ 11		4	+
12	+ (High)	5	+
13 ~ 14		6	+
15 ~ 16		7	++
17	++ (Very High)	8	++]]
18 ~ 30		9	++]]]

According to OMRON HEALTHCARE figures

Interpreting the Skeletal Muscle Percentage Result

Skeletal Muse	le Percentage		Classification	
Male	Female	4 Level	12 Level	Display
5.0 ~ 14.2%	5.0 ~ 11.8%		1	—
14.3 ~ 23.5%	11.9 ~ 18.8%	– (Low)	2	—))
23.6 ~ 32.8%	18.9 ~ 25.8%		3	—]]]
32.9 ~ 33.7%	25.9 ~ 26.5%		4	
33.8 ~ 34.7%	26.6 ~ 27.2%	0 (Normal)	5	
34.8 ~ 35.7%	27.3 ~ 27.9%		6	
35.8 ~ 36.2%	28.0 ~ 28.2%		7	+
36.3 ~ 36.7%	28.3 ~ 28.6%	+ (High)	8	+
36.8 ~ 37.3%	28.7 ~ 29.0%		9	+
37.4 ~ 41.5%	29.1 ~ 36.0%		10	++
41.6 ~ 45.7%	36.1 ~ 43.0%	++ (Very High)	11	++]]
45.8 ~ 60.0%	43.1 ~ 60.0%		12	++]]]

According to OMRON HEALTHCARE figures

Interpreting the RM Result

		Male			Female	
AGE (Years old)	Resting Metabolism Base Value (kcal/kg Body Weight/Day)	Reference Body Weight (kg)	Resting Metabolism (kcal/Day)	Resting Metabolism Base Value (kcal/kg Body Weight/Day)	Reference Body Weight (kg)	Resting Metabolism (kcal/Day)
1~2	61.0	11.5	700	59.7	11.0	660
3~5	54.8	16.5	900	52.2	16.1	840
6~7	44.3	22.2	980	41.9	21.9	920
8~9	40.8	28.0	1,140	38.3	27.4	1,050
10 ~ 11	37.4	35.6	1,330	34.8	36.3	1,260
12 ~ 14	31.0	49.0	1,520	29.6	47.5	1,410
15 ~ 17	27.0	59.7	1,610	25.3	51.9	1,310
18 ~ 29	24.0	63.2	1,520	22.1	50.0	1,110
30 ~ 49	22.3	68.5	1,530	21.7	53.1	1,150
50 ~ 69	21.5	65.3	1,400	20.7	53.0	1,100
70	21.5	60.0	1,290	20.7	49.5	1,020

* Ministry of Health, Labor and Welfare: Dietary Reference Intakes of Japanese people (2015 version)

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