

Combi

Combi Infrared Ear Thermometer

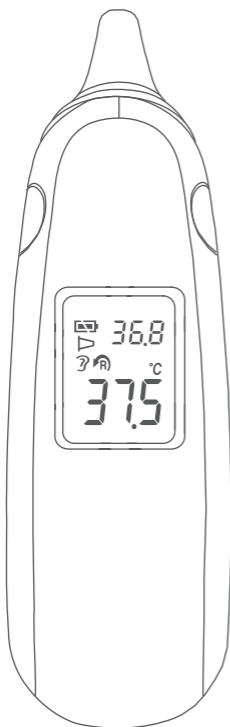
User Manual

康貝紅外線耳溫槍

使用說明書

콤비 적외선 귀 체온계

사용설명서



Thank you for purchasing the Combi Ear Thermometer. Please read this manual carefully before use and use accordingly. Please keep this manual for future reference. If you transfer this product to others, please also attach this manual to the product.

多謝閣下選用Combi紅外線耳溫槍。使用本產品前，請詳細閱讀本說明書，並正確使用。請妥善保存本說明書以供日後參考。若將本產品轉讓予他人使用時，請將本說明書一併移交對方。

콤비 적외선 귀 체온계를 구입해 주셔서 감사합니다. 사용하기 전에 본 설명서를 숙지하신 후 설명서의 내용에 따라 사용 해 주십시오.

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Before use

- This product is able to measure the body temperature in 1 second.
- The especially small diameter (5.9mm) of probe can comfortably fit the probe into small baby's ear canal and measure baby's body temperature in a speedy way.
- The storage case is used to keep the thermometer clean.
- Please do not use for other than the above purpose.
- Pull out the insulated strip from the battery compartment before use.

Age reference : From newborn

To use it safely

• When using

CAUTION

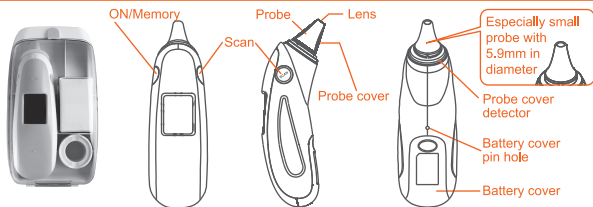
- Do not use this product other than for the purpose mentioned.
- Never leave child unattended while using this product.
- Do not place the product near fire.
- Do not drop or bang the product or storage case, as it may cause damage.
- Check for damage before every use. Stop using this product immediately, if any crack or damage is found.
- Keep thermometer, probe covers and storage case out of child's reach.
- Do not immerse the thermometer into any liquid, otherwise it may be damaged.
- Do not try to remodel, disassemble, or repair the product.
- Stop using the thermometer if it produces a strange odour, makes a strange sound or smoke appears.
- Do not place the thermometer close to any object that emits strong static electricity or electromagnetic wave such as television, microwave oven, mobile phone etc. Otherwise, product may be damaged.
- Keep battery out of child's reach. If child swallows it, contact doctor immediately.
- Battery must be replaced by adult.
- Misuse of battery may cause it to leak, overheat or explode. People may get injured, product may be broken and an accident may occur. Therefore, please note the following cautions.
 - Read battery warning and caution, and use accordingly.
 - Remove battery when not in use for extended periods.
 - Wash the clothes immediately if liquid from battery leaks.
 - In the event battery liquid comes into contact with eyes or skin, rinse the affected area thoroughly with water, and see doctor immediately.
- The thermometer must only be used with Combi Probe Cover. Never use the thermometer without a new, clean probe cover attached.
- The product is intended for household use only.
- Do not measure body temperature within 30 minutes after meals, exercise or bath.
- When the environmental conditions change, for example from indoor to outdoor, please stay in the new environment for about 30 minutes before measuring the new temperature.

• Storage

CAUTION

- Always put a probe cover on the probe and store the thermometer in the storage case for protection.
- If the storage case gets wet, please dry it before storing the thermometer. Otherwise, the thermometer may become damaged.
- Do not leave the product in direct sunlight, in the car, in a dusty area or near water. Otherwise, it may become damaged.

Names of parts and sales package



• Sales packaging:

- Infrared ear thermometer
- Storage box with probe cover fixer
- 12 probe covers
- User manual

Body Temperature

The Combi Infrared Ear Thermometer uses an infrared sensor to detect the temperature at the eardrum. Since the axillary and oral temperature are easily influenced by other factors, such as sweating, eating, drinking or breathing, the measured temperature is relatively low. However, measuring the temperature at eardrum can best reflect the core body temperature, because the eardrum shares the same blood vessels with the section of the brain that controls core body temperature.

Normal body temperature will fluctuate throughout the day. The body temperature varies by age, person, gender, time of day and position of body. It can be affected by activity, emotion, clothing, medications, ambient conditions, hormones and other factors. A normal temperature range tends to decrease with age. Below table shows the normal temperature ranges by age.

Temperature ranges by age:

0 - 2 years	36.4 - 38.0°C	97.5 - 100.4°F
3 - 10 years	36.1 - 37.8°C	97.0 - 100.0°F
11 - 65 years	35.9 - 37.6°C	96.6 - 99.7°F
> 65 years	35.8 - 37.5°C	96.4 - 99.5°F

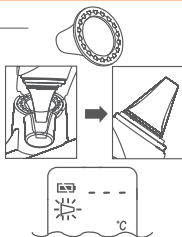
The range of normal temperature also varies from person to person and fluctuates throughout the day. It is important to check your temperature regularly to determine your own normal temperature range by using Combi Infrared Ear Thermometer.

Operation

Temperature taking

Attaching probe cover

1. Place the probe cover into the probe cover fixer in the storage case. Place the adhesive side of probe cover upwards.
2. Align the center of the probe cover to the center of the probe.
3. Insert the probe into the probe cover fixer until you feel a click, which means the probe cover has been put on the probe firmly.
4. If the probe cover has not been installed well, \blacktriangleright will be flashing on the display. Please check the installation of the probe cover again.



⚠ CAUTION

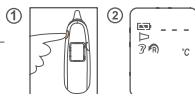
- If probe cover is not installed or has not been installed well, temperature reading cannot be taken.
- To get an accurate reading, ensure a new, clean and unbroken probe cover is used before each measurement.

⚠ WARNING

- Keep the probe covers away from children. If a child swallows the probe cover, contact a doctor immediately.

Switch on the thermometer

1. Press \odot "ON/Memory" button at the left of the display.
2. Two beep sounds will be heard and \mathcal{P} shown on the display.



Taking temperature reading

1. Gently pull the ear back to straighten the ear canal and snugly position the probe into the ear canal, aiming towards the membrane of the eardrum to obtain an accurate reading.




<For children under 2 years old> Pull the ear straight back.

<For children over 2 years old and adults> Pull the ear straight up and back.

2. Press the "Scan" button at the right of the display. The measurement is completed when a beep sound is heard. The result would be shown on the display.
- ※ If body temperature is over 37.5°C, fever alarm will be heard with a long beep sound following with 3 short beeps.



⚠ CAUTION



- Do not take out the probe from ear canal before the beep sound is heard, otherwise the reading may be inaccurate.
 - To obtain an accurate reading, always put the thermometer into the ear canal with the same direction and same depth.
3. For a second reading, remove the used probe cover, and put on a new and clean probe cover. Wait until the icon  stops flashing on the display with 2 beep sounds. Then, it is ready for the next measurement.

⚠ CAUTION


- It is recommended to measure the same ear 3 times. If the 3 readings are different, select the highest temperature.
- Right ear measurement may differ from the one taken at the left ear. Always measure the temperature at the same ear.
- Excess earwax may influence the reading.
- Holding the thermometer too long may cause a higher ambient temperature reading of the probe. This could make the body temperature measurement lower than usual.

Other functions

Memory mode

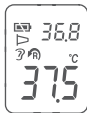
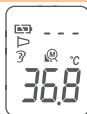
When power on, press  "ON/Memory" button to see the temperature records with . Up to 25 readings can be stored in memory.

Last reading

After getting a new temperature reading, the last reading will be shown on the display (at top right corner) with .

Power off

The thermometer automatically turns off if left idle for more than 1 minute.



Method of battery replacement

1. Insert a pointed object, such as a toothpick, into battery cover pick hole. At the same time, use thumb to push battery cover out.
2. Hold the device and flip the battery out with a small screwdriver.
3. Insert the new battery (CR2032) under the metal hook on the side, and press the battery down until you hear a click.
4. Slide the battery cover back until it is locked.





⚠ CAUTION

- Insert battery with the positive (+) side is up facing while the negative (-) is down facing.
- Dispose the battery at appropriate collection sites according to national or local regulations.

⚠ WARNING

- Keep battery out of child's reach. If child swallows it, contact doctor immediately.

Troubleshooting

Error Message	Situation	Solution
	<ol style="list-style-type: none"> 1. No probe cover is attached. 2. The probe cover has not been installed well. 	<ol style="list-style-type: none"> 1. Attach new, clean probe cover. 2. Check the setting of the probe cover again. (Refer to "Attaching probe cover")
Er	Error 5~9, the system is not functioning properly.	Unload the battery, wait for 1 minute and re-power it. If the message reappears, contact the retailer for service.
Er 1	Measure before thermometer stabilization.	Wait until all the icons stop flashing.
Er 2	Thermometer shows a rapid ambient temperature change.	Allow the thermometer to rest in a room for at least 30 minutes at room temperature: 10°C and 40°C.
Er 3	The ambient temperature is not within the range between 10°C and 40°C.	
Hi	Temperature reading is higher than 42.2°C.	Check the integrity of the probe cover and take a new temperature measurement.
Lo	Temperature reading is lower than 34°C.	Make sure the probe cover is clean and take a new temperature measurement.
	Thermometer cannot be powered on to the ready stage.	Replace battery.

Maintenance and storage

- The probe is the most delicate part of the thermometer. Handle with care when cleaning the lens to avoid damage.
- ※ Replace the probe cover after each use to ensure an accurate reading and avoid cross contamination.
- Storage temperature range is -20~+50°C, relative humidity <85%
- Keep the product dry and away from any liquids and direct sunlight.
- Do not submerge the probe into any liquids.
- <If the thermometer is accidentally used without a probe cover, clean the probe as follows>
- After the measurement, please use the cotton swab with alcohol (70% concentration) to clean the lens (on the inside of the probe).
- Allow the probe to fully dry for at least 1 minute.
- Do not wipe the probe with an organic solvent, such as thinner. Otherwise, it may be damaged.
- Please check if the product is damaged, if it is dropped before reusing.



Materials and Specifications

Materials

Storage box : ABS
 Ear thermometer : ABS
 Probe cover : LLDPE

Specifications

Temperature measurement range: 34~42.2°C
 Operating temperature range: 10~40°C
 Storage temperature range: -20 ~ +50°C, RH ≤ 85%
 Display resolution: 0.1°C
 Accuracy: ±0.2°C during 35.5~42°C
 ±0.3°C out of the above range
 Clinical repeatability : +0.18°C (<1 year old), +0.17°C (1-5 year old), +0.15°C (>5 year old)
 Battery life: 3,000 readings (Normal use: 1 year)
 Compliance with EN12470-5:2003 Clinical thermometers-Part 5:
 Performance of infra-red ear thermometers (with maximum device) standard.