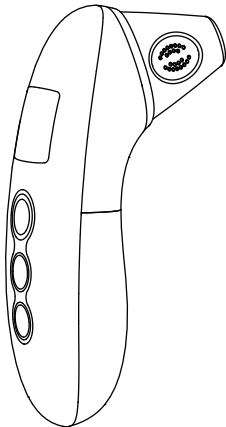


momcozy

Infrared Thermometer Operating Manual



Manual Ver.: 1.0
Issuing Date: 2023/09/25

Read this manual carefully before using this product and keep it for future reference.

Introduction

Thank you for purchasing this Dual-mode Infrared Thermometer. It is carefully developed for accurate, safe and fast temperature measurements in the ear and forehead.

Please read these instructions carefully before using this product.
Keep the instructions and the thermometer in a safe place.

Package Contents

Name	Quantity
Infrared Thermometer	1
Pouch	1
AAA Batteries	2
User Manual	1

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WARNINGS AND PRECAUTIONS

1. Keep out of reach of children under 12 years of age.
2. Never immerse the thermometer into water or other liquids (not waterproof). For cleaning and disinfecting please follow the instructions in the “care and cleaning” section.
3. Never use the thermometer for purposes other than those it is intended for. Please follow the general safety precautions when using on children.
4. Keep the thermometer away from direct exposure to the sun and keep it in a well ventilated, dust-free, dry area at a temperature between 50°F (10°C)–104 °F(40°C). Do not use the thermometer in environment of high humidity. (>95% RH)
5. Do not use the thermometer if there are signs of damage on the measuring sensor or on the instrument itself. If damaged, do not attempt to repair the instrument! Please contact the manufacturer.
6. This thermometer consists of high-quality precision parts. Do not drop the instrument. Protect it from severe impact and shock. Do not twist the instrument or the measuring sensor.
7. Please consult your doctor if you are diagnosed with symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
8. Even in the absence of fever, those who show a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature readings to determine the severity of their illness.
9. Rise in temperature may signal a serious illness, especially in adults who are old, frail, have a weakened immune system.or neonates and infants. Please seek professional advice immediately when there is a rise in temperature and if you are taking temperature for whom are:
 - Over 60 years of age (Fever may be blunted or even absent in elderly patients)
 - Having diabetes mellitus or a weakened immune system (e.g., HIV positive, cancer, chemotherapy, chronic steroid treatment, splenectomy)
 - Bedridden (e.g., nursing home patient, stroke, chronic illness)
 - A patient has undergone organ transplantation (e.g., liver, heart, lung, kidney)

10. This thermometer is not intended for pre-term babies or small-for-gestational age babies. This thermometer is not intended to interpret hypothermic temperatures. Do not allow children to take their temperatures unattended.
11. Use of this thermometer is not intended as a substitute for consultation with your physician or pediatrician. It is for household use only.
12. Clean the thermometer probe after each use.
13. Do not use the thermometer on newborns or for continuous temperature monitoring purposes.
14. Do not take a measurement simultaneously or immediately after nursing a baby.
15. Patients should not drink, eat, or be physically active before/while taking the temperature measurement.

Product Description

Overview

Infrared Thermometer measures the body temperature based on the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the temperature probe in the ear canal or forehead.

Normal body temperature is a range. The following tables shows that this normal range also varies by site. Therefore, readings from different site should not be directly compared. Tell your doctor what type of thermometer you used to take your temperature and on what part of the body. Also bear this in mind if you are diagnosing yourself.

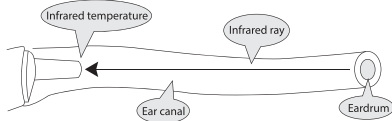
Measurements	
Forehead temperature	36.1°C to 37.5°C (97°F to 99.5°F)
Ear temperature	35.8°C to 38°C (96.4°F to 100.4°F)

Structure

The thermometer consists of a shell, a LCD, a measure button, a beeper, an infrared temperature sensor, and a microprocessor.

Operating principle

The infrared temperature sensor collects infrared energy emitted by the eardrum or the skin surface. After being focused by a lens, the energy is converted into a temperature reading by the thermopiles and measurement circuits.



1.1 Indications for Use/Intended Use

1.1 Intended for purpose

The Infrared Thermometer is intended for the measurement of human body temperatures in the home setting and medical institutes.

1.2 Intended User

Intended User: Both Healthcare Professional and Lay person

Intended Use Environment: Both Hospital/Healthcare Facility and Home

1.3 Indication

The infrared thermometer measures the infrared radiation exchange with the measured object (ear cavity or surface skin) and the appropriate correction value through the detector, and quickly outputs the body temperature. It is suitable for the use of acutely ill patients, the elderly, infants and young children.

1.4 Contraindications

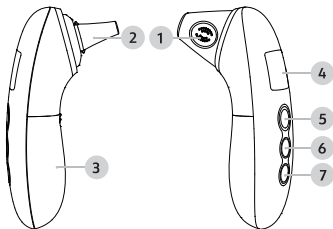
Do not use the thermometer if the ear is infected with otitis or suppurative.

Features

- Accurate and reliable
- Switchable baby mode
- Multi-functional : can measure temperature of ear, forehead, room, milk, water and object
- 35 sets of memories, easy to recall
- Switch between mute and un-mute mode
- Fever alarm function
- Switch between °C and °F
- Auto shut-down and power-saving

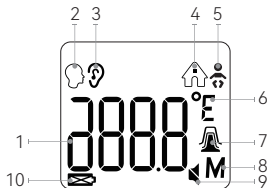
Product Structure

1. Probe cover (take it off when measuring ear temperature)
2. Probe
3. Battery cover
4. LCD display screen
5. Measure button (Head & ear button)
6. Memory / Baby button
7. Mute / / button



Display description

1. Temperature value
2. Forehead temperature mode
3. Ear temperature mode
4. Object temperature mode
5. Baby mode
6. Fahrenheit/ Celsius degrees
7. Ear cover
8. Memory recall
9. Mute /Un-mute icon
10. Battery level

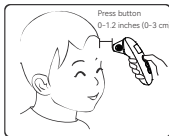


How To Use Your Thermometer

When using the thermometer for the first time, please load the batteries.

Take your forehead temperature

Hold the thermometer within 0-1.2 inches (0-3cm) of the forehead and aim it at the center, start measuring with a short press of "Measure" button, then you can read the value.



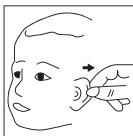
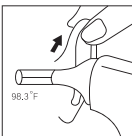
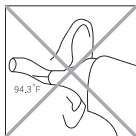
NOTE: The measured forehead measurement is an indicative reading. The measured forehead temperature can fluctuate up to 1F/0.5 °C from your actual body temperature. Please be aware of the factors that influence the accuracy as described in the section "Temperature taking tips", and "WARNINGS AND PRECAUTIONS".

- ⚠ If the eyebrow area is covered with hair, sweat or dirt, please clean the area beforehand, to improve accuracy of the reading.
- ⚠ Always check whether the lens is clean.
- ⚠ Always make sure the user and the thermometer will be in the same room for at least 30 minutes prior to the measurement.

Take your ear temperature

Take off the probe cover, and the probe snugly into the ear canal. Press and release the Measure button in 1 second, the beep is heard, you can read the value.

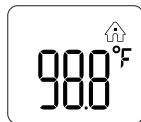
- ⚠ Please make sure that the ear is clean, with no earwax or obstructions. The right ear reading may differ from the reading taken at the left ear,
- ⚠ Therefore, always take the temperature in the same ear.



- ⚠ Do not force the thermometer into the ear canal. Otherwise, the ear canal may get injured.
- ⚠ When taking the temperature on an adult, gently pull the ear up and back to make sure the ear canal is straight, so that the temperature probe can receive an infrared ray from the eardrum.
- ⚠ Be careful when taking temperature on a child, whose ear canal is small.

Take room/object temperature

When the thermometer is powered off, long press the Memory/Baby button for 5 seconds until it shows “” Then press the Memory/Baby button to measure. Keep the thermometer about 1-5cm away from the object. Press and release the Measure button in 1 second, you can read the value after hearing the beep



Switch to Baby mode

Short press the Memory/baby button in 1s when powered on. Then it will switch to baby mode.

Baby mode is suitable for baby aged from 0-36 month.

After a measurement

When the reading is completed, remove the thermometer away from the forehead/ear and observe temperature.

After each measurement, you can enter the recall mode and check earlier temperature readings.

- ⚠ Do not hold the thermometer for a long time, because it is sensitive to the ambient temperature.
- ⚠ After each measurement, clean the temperature probe with a soft cloth, and put the thermometer in a dry and well-ventilated place.
- ⚠ You should wait at least 10 seconds between each measurement.
- ⚠ It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For above reasons, please consult a doctor.

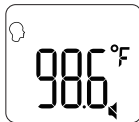
Read your temperature

T indicates a temperature reading. In forehead or ear mode.

1. If $89.6^{\circ}\text{F} \leq T \leq 99.2^{\circ}\text{F}$ ($32^{\circ}\text{C} \leq T \leq 37.3^{\circ}\text{C}$), the green light will last for 3 seconds, with one long beep.
2. If $99.3^{\circ}\text{F} \leq T \leq 100.3^{\circ}\text{F}$ ($37.4^{\circ}\text{C} \leq T \leq 37.9^{\circ}\text{C}$), the orange light will last for 3 seconds, with 3 short beeps, and the value in LCD flickers, which is a warning that you may have a light fever.
3. If $100.4^{\circ}\text{F} \leq T \leq 109.2^{\circ}\text{F}$ ($38^{\circ}\text{C} \leq T \leq 42.9^{\circ}\text{C}$), the red light will last for 3 seconds, with 5 short beeps and the value in LCD flickers, which is a warning that you may have a high fever.

Switching between mute and un-mute

When the thermometer is turned on, by keep pressing the mute $^{\circ}\text{C}/^{\circ}\text{F}$ button for 4 seconds, to switch from un-mute to mute.



Checking 35 sets of memory data

When the thermometer is turned off, short pressing the Memory/Baby button in 1s to go to the memory mode, press this button again to check the 35 sets of memories one by one. If it shows no value, it will display “---M”.

°F/°C conversion

When the thermometer is turned on, short pressing the °C/°F button in 1s to change the °C/°F.

Temperature compensation adjustment

When the thermometer is turned on, press both the Measure button and Memory/Baby button for 5 seconds to go to the temperature compensation mode. By pressing the Memory/Baby button to adjust the temperature from +0°C to +2.0°C. Note: All the future temperature you are taking will automatically add the value you have adjusted.

Turn off

The unit will shut down automatically after 10 seconds of no use. Or you can keep pressing the Measure button for 10 seconds.

Caution

1. All memory records will be lost when the battery is removed or reinstalled.
2. All settings will come to default when removing the battery. If the settings need to be adjusted, please power on and make the new settings.

Replace the battery

Slide the battery cover off along the marked direction. Put two AAA batteries correctly into the compartment.

-  Remove the batteries if the thermometer will not be used for more than two months.

Temperature Taking Tips

1. It is important to know healthy individual's normal temperature. This is the only way to accurately diagnose a fever. Record readings twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate normal oral equivalent temperature. Always take the temperature in the same location, because the temperature readings may vary from different locations on the forehead.
2. A child's normal temperature can be as high as 99.9°F (37.7°C) or as low as 97.0°F (36.11 °C). Please note that this unit reads 0.9 °F (0.5 °C) lower than a rectal digital thermometer.
3. External factors may influence ear temperatures, including when an individual has:
 - been lying on one ear or the other
 - had their ears covered
 - been exposed to very hot or very cold temperatures
 - been recently swimming or bathing

In these cases, remove the individual from the situation and wait 20 minutes prior to taking a temperature.

Use the untreated ear if prescription ear drops or other ear medications have been placed in the ear canal.

4. Holding the thermometer for too long in the hand before taking a measurement can cause a rise in temperature of the device. This means the measurement could be incorrect.
5. Patients and the thermometer should be maintained in a steady room condition for at least 30 minutes.
6. Before placing the thermometer sensor on the forehead, remove dirt, hair, or sweat from the forehead area. Wait 10 minutes after cleaning before taking measurement.
7. Use an alcohol swab to carefully clean the sensor and wait for 5 minutes before taking a measurement on another patient. Wiping the forehead with a warm or cool cloth may impact your reading. It is advised to wait 10 minutes before taking a reading.

8. In the following situations it is recommended that 3-5 temperatures in the same location be taken and take the highest one as the reading:

- Newborn infants in the first 100 days.
- Children under three years of age with a vulnerable immune system and for whom the presence or absence of fever is critical.
- When the user does not know how to use the thermometer for the first time until he/she has familiarized himself/herself with the instrument and obtains consistent readings.

Care and Cleaning

1) Cleaning and user maintenance must not be performed by children unless supervised.

2) Cleaning the device use an alcohol swab or cotton swab moistened with 75% alcohol to clean the thermometer casing and the measuring probe.

3) After the alcohol is completely dried out, you can take a new measurement (minimum of 10 minutes).

4) Ensure that no liquid is left in the interior of the thermometer.

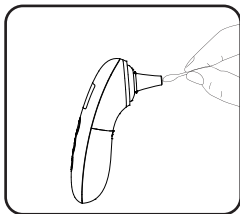
5) Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids.

6) Be careful not to scratch the surface of the LCD screen.

7) Remove the batteries from the device before cleaning.

8) Clean the device after use with a soft, slightly damp cloth. If they are very dirty, you can also moisten the cloth with a mild soapy solution.

9) Ensure that no water is left in the device. If this happens, only use the device again once it is fully dried out.



Error and Troubleshooting

Symptom	Possible Cause	Description & Solution
Failed to power on.	The battery level is too low	Replace with a new battery
	Polarities of the batteries are reversed	Ensure the batteries are in the right position
	The thermometer is damaged	Contact dealer
The reading is too low.	The lens of the probe is dirty	Clean the lens with a cotton swab
	The distance of the item and target is too far	Keep the thermometer in contact with forehead, or put the probe into the Ear Canal
	You have just come from a cold environment	Stay in a warmer room for at least 30 minutes before taking a reading
The reading is too high.	You have just come from a hot environment	Stay in an adequately cool room for at least 30 minutes before taking a reading
	The ambient temperature is not in the range	3 short beeps and red backlit for 3 seconds. Take a measurement under an ambient temperature between 50.0°F (10°C) and 104°F (40°C)

Symptom	Possible Cause	Description & Solution
	Memory Error	3 short beeps and red backlit for 3 seconds. Contact dealer
	In ear or forehead mode, $T > 108.6^{\circ}\text{F}$ (42.9°C)	3 short beeps and red backlit for 3 seconds
	In ear or forehead mode, $T < 89.6^{\circ}\text{F}$ (32°C)	3 short beeps and red backlit for 3 seconds
	$2.5\text{V} \pm 3\% \leq \text{power voltage} \leq 2.6\text{V} \pm 3\%$	The battery level is low, it suggests you to replace the battery, but you can continue to use it
	The power voltage is lower than $2.5\text{V} \pm 3\%$	It will turn off automatically after 30 seconds. Please replace with a new battery

Specifications

Product name	Infrared thermometer	
Model	FC-IR300	
Power supply	DC1.5Vx2	
Measurement range	Ear & Forehead: 89.6°F-109.2°F (32.0°C-42.9°C)	
	Object: 32 °F - 212 °F (0°C-100°C)	
Accuracy (Laboratory)	Ear & Forehead mode	±0.4°F/±0.2°C
	Object mode	±1.8°F/1.0°C
Display resolution	0.1°C/°F	
Automatic shutdown	10s±1s	
Memory	35 groups of measured temperature.	
Battery	2 AAA, can be used for more than 3000 times	
Weight & Dimension	60.8g (without battery), 120 x 53 x 43 mm	
Operating conditions	Operating environment: 10°C-40°C Relative Humidity: ≤85% moisture condensation Atmospheric pressure: 70 - 106kPa	
Storage	Storage Temperature: -20 °C~55 °C Relative Humidity: ≤95% moisture condensation Atmospheric pressure: 70-106kPa	
Service Life	5 Years	

Symbols

Symbol	Description
	Type BF applied part
	Information about a manufacturer
	Please read the instructions carefully
	Waste electrical materials should be sent to a designated collection point for recycling
	Serial number
	Batch number
	IMPORTANT Inaccurate reading or thermometer damage may occur if the thermometer is not correctly used
	Medical device
	CE mark

EMC information

IEC 60601-1-2:2014/AMD1:2020 ME EQUIPMENT and ME SYSTEMS identification, marking and documents for Class B product The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Warning: This equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Warning: Accessories transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."

Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Infra-red. Thermometer (FC-IR300), including cables specified by the manufacturer. Otherwise, weakening performance of this equipment could cause.

If any: a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect

compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY).

ACCESSORIES may be specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

If any: the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or weakened to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE" need not be used).

Technical description:

- 1.all necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the expected service life.
2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	N/A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	N/A

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/ burst IEC 61000-4-4	Power supply lines: ±2 kV input/output lines: ±1 kV 100 kHz repetition frequency	N/A
Surge IEC 61000-4-5	line(s) to line(s): ±1 kV. line(s) to earth: ±2 kV.	N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% 0.5 cycle At 0°C, 45°C, 90 °C, 135°C, 180 °C, 225°C, 270°C and 315°C 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 250 cycle	N/A
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz

Conducted RF IEC61000-4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	N/A
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
NOTE UT is the a.c. mians voltage prior to application of the test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity							
	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Modulation (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
Radiated RF IEC61000 -4-3 (Test specifica- tions for ENCLO- SURE PORT IMMUNITY to RF wireless communi- cations equipment)	385	380 – 390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27
	450	430–470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	2	0.3	28
	710	704 – 787	LTE Band 13,17	Pulse modulation 217 Hz	0.2	0.3	9
	745						
	780						
	780	800 – 960	GSM 800/ 900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	0.2	0.3	28
	930						

Radiated RF IEC61000-4-3 (Test specifications for ENCL-OSURE PORT IMMUNITY to RF wireless communications equipment)	1720	1700 –1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz	2	0.3	28
	1845						
	1970						
	2450	2400 –2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
	5240	5100 –5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9
	5500						
	5785						

Warranty and After-Sale Service

The device is under warranty for 12 months from the purchase date.

The batteries, the packaging, and any damage caused by improper use are not covered by the warranty.

Excluding the following user-caused failures:

- 1.Failure resulting from unauthorized disassembly and modification.
- 2.Failure resulting from an unexpected dropping during when using or transporting.
- 3.Failure resulting from not following the instructions in the operating manual.

Product Name: Infrared Thermometer
Model: FC-IR300

U.S. Agent
CTI U.S. Inc.
Suite 230,1455 Cti U.S. Inc.
Lincoln Parkway, Atlanta, Ga, 30346

 Shenzhen Finicare Co., Ltd
201, No.50, the 3rd Industrial Park, Houting Community,
Shajing Street, Bao'an District, Shenzhen 518104 China
Web: www.finicare.com

Email: support@momcozy.com

FCC Compliance:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Note:

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.