



**MEDIC
THERAPEUTICS**

TOUCHLESS THERMOMETER



User Manual

INTRODUCTION

Thank you for purchasing this Touchless Thermometer. It has been carefully developed for accurate, safe and fast temperature measurements.

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

PACKAGE CONTENTS

No.	Name	Quantity
1	Infrared Thermometer	1
2	Pouch	1
3	Battery (AAA)	2
4	User Manual	1

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WARNINGS AND PRECAUTIONS

- Keep out of reach of children under 12 years.
- 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.
- Never use the thermometer for purposes other than those it has been intended for. Please follow the general safety precautions when using on children.
- Keep the thermometer away from direct exposure to the sun and keep it in a dust- free, dry area, well-ventilated place at a temperature between 50°F (10°C) - 104°F (40°C). Do not use the thermometer in high humidity environments. (>95% RH)
- 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 dealer.
- 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.
- Please consult your doctor if you see 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.
- Even in the absence of fever, those who exhibit 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.
- Temperature elevation 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 temperature elevation 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 transplant patient (e.g., liver, heart, lung, kidney)
- This thermometer is not intended for pre-term babies or small-for-gestational age babies. This thermometer is not intended to interpret hyperthermic temperatures. Do not allow children to take their temperatures unattended.
- Use of this thermometer is not intended as a substitute for consultation with your physician or pediatrician. It is for household use only.
- Clean the thermometer probe after each use.

- Do not use the thermometer on newborns for continuous temperature monitoring purposes.
- Do not take a measurement while or immediately after nursing a baby.
- Patients should not drink, eat, or be physically active before/while taking the measurement.

PRODUCT DESCRIPTION

Overview

Infrared Thermometer measures the body temperature based on the infrared energy emitted from the forehead. Users can quickly get measurement results after properly scanning the forehead. Normal body temperature is a range. The following tables show 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	97.0°F to 99.5°F (36.1°C to 37.5°C)
Ear temperature	96.4°F to 100.4°F (35.8°C to 38.0°C)
Oral temperature	95.9°F to 99.5°F (35.5°C to 37.5°C)
Rectal temperature	97.9°F to 100.4°F (36.6°C to 38.0°C)
Axillary temperature	94.5°F to 99.1°F (34.7°C to 37.3°C)

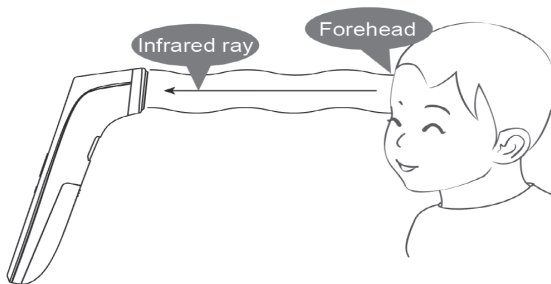
WARNINGS AND PRECAUTIONS

Structure

The thermometer consists of a shell, an 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 skin surface. After being focused by a lens, the energy is converted into a temperature reading by the thermopiles and measurement circuits.



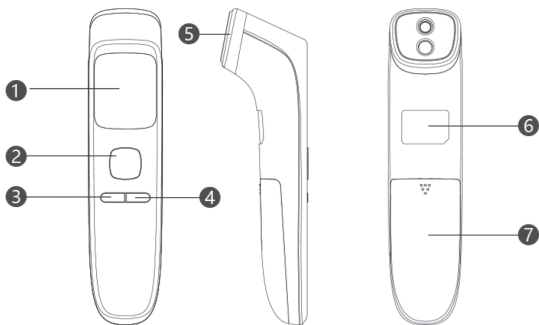
Indications for use

The Touchless Thermometer is intended for the measurement of human body temperatures. The forehead mode is indicated for people of all ages.

FEATURES

- Non-Contact Design, Safe and more hygienic to use.
- Quick measurement, less than 1 second.
- Accurate and reliable.
- Easy operation, one button design.
- Multi-functional, can measure forehead, room, liquids, and object temperature.
- 35 sets of memories, easy to recall.
- Switching between mute and un-mute mode.
- Fever alarm function, displayed in orange and red light.
- Switching between °C and °F.
- Auto shut-down and power-savings.

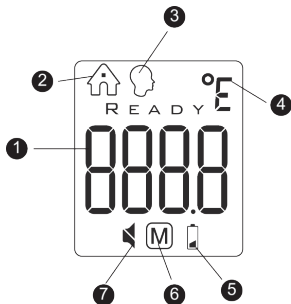
PRODUCT STRUCTURE



1. LCD display screen
2. Measure button
3. Mem (Memory Recall)
4. Mute-unmute button (or °C/°F conversion)
5. Sensor
6. Rating label
7. Battery Cover

DISPLAY DESCRIPTION

1. Temperature value
2. Object temperature mode
3. Forehead temperature mode
4. Fahrenheit / Celsius degrees
5. Battery level
6. Memory recall
7. Mute /Un-mute



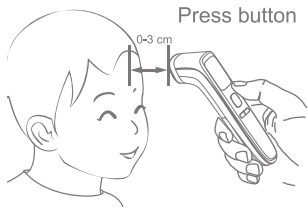
HOW TO USE YOUR THERMOMETER

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

Take your forehead temperature

Press the **Measure** button to power on. Only aim at forehead at a distance of 0-3cm, no need to make skin contact. Press the **Measure** button again, the thermometer will beep once it has completed the measurement and it will display the temperature on the display screen.

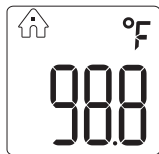
NOTE: The forehead measurement is an indicative reading. The measured forehead temperature can fluctuate up to 1 °F/0.5 °C from your actual body temperature. Please be aware of the factors that influence the accuracy as described in the section 'Temperature taking tips' and 'WARNINGS AND PRECAUTIONS'*1.



- ⚠ If the eyebrow area is covered with hair, sweat or dirt, please clean the area beforehand to improve the reading accuracy.
- ⚠ Always check if the lens is clean.
- ⚠ Always make sure the user and the thermometer will have been in the same room prior to the measurement.

Take room/object temperature

Make sure the thermometer is powered off. Press the Mem button for 3 seconds. The thermometer will turn on and switch to room/object temperature mode. Press the measure button to measure room/object. Keep the thermometer about 1-3cm away from the object. Press the Measure button, the thermometer will beep once it has completed the measurement and it will display the temperature on the display screen.



After a measurement

- ⚠ Once the reading has been completed, remove the thermometer away from the forehead and observe temperature. After each measurement, you can enter the recall mode and query 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 such purposes, please consult a doctor.

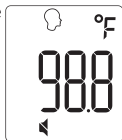
READING YOUR TEMPERATURE

T indicates a temperature reading in forehead 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 12 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 12 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 12 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, keep short pressing the Mute-unmute button for less than 1 second, to switch from un-mute to mute.



CHECKING 35 SETS OF MEMORY DATA

When the thermometer is turned on, by short pressing the Mem to go to the memory mode, press this button again to check the 35 sets of memories one by one. If no value, it will display "---M"

°C/°F CONVERSION

When the thermometer is turned on, long press the **Mute- unmute button** for 5 seconds, to change the temperature setting between °C/°F.

TEMPERATURE COMPENSATION ADJUSTMENT

When the thermometer is turn on, press both the Mute-unmute button and Mem button for 2-3 seconds to go to the temperature compensation mode. By pressing the Mem to adjust the temperature from ± 0.0 to ± 2.0 .

NOTE: All future temperature you take will automatically add the value you selected.

TO TURN OFF

The unit will shut down automatically after 10 seconds of no use. Or you can long press the Measure button for 6 seconds to turn the device off.

CAUTION

1. All memory records will be lost when you uninstall/reinstall the batteries.
2. All settings will come to default when uninstalling the battery. If settings need to be adjusted, make sure to power on the device and apply the new settings.

REPLACING 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

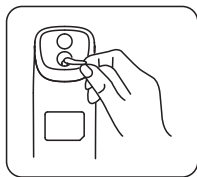
1. It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. Record readings twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate normal oral equivalent temperature. Always take the temperature in the same location, since 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. Holding the thermometer for too long in the hand before taking a measurement can cause the device to warm up. This means the measurement could be incorrect.
4. Patients and the thermometer should stay in steady-state room condition.
5. 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.
6. 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.

7. In the following situations it is recommended that 3-5 temperatures in the same location be taken and the highest one taken as the reading:
- Newborn infants in the first 100 days.
 - Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.
 - When the user is learning 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







Use an alcohol swab or cotton swab moistened with 95% alcohol to clean the thermometer casing and the measuring probe. After the alcohol has completely dried out, you can take a new measurement.

Ensure that no liquid enters the interior of the thermometer. Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the LCD screen.



ERROR AND TROUBLESHOOTING






Error Type	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	Ensure the thermometer measuring the forehead center within 3cm
	Individual came from a cold environment	Individual must remain in a warmer room for at least 30 minutes before taking a reading
The reading is too high	Individual came from a hot environment	Individual must remain in an adequately cool room for at least 30 minutes before taking a reading

	<p>The ambient temperature is not in range</p>	<p>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)</p>
	<p>Memory Error</p>	<p>3 short beeps and red backlit for 3 seconds. Contact dealer</p>
	<p>In forehead mode, T > 109.2°F (42.9°C)</p>	<p>3 short beeps and red backlit for 3 seconds</p>
	<p>In forehead mode, T < 32°C (89.6°F)</p>	<p>3 short beeps and red backlit for 3 seconds</p>
	<p>$2.5V \pm 3\% \leq$ power voltage $\leq 2.6V \pm 3\%$</p>	<p>The battery level is low, it suggests you to replace the battery, but you can continue to use it</p>
	<p>The power voltage is lower than $2.5V \pm 3\%$</p>	<p>It will turn off automatically after 30 seconds. Please replace with a new battery</p>

SPECIFICATIONS

Product name	Infrared thermometer	
Power supply	DC1.5Vx2	
Measurement range	Forehead: 32.0°C-42.9°C (89.6°F-109.2°F)	
	Object: 0°C-100°C(32°F-212°F)	
Accuracy (Laboratory)	Forehead mode	±0.2°C/±0.4°F
	Object mode	±1.0°C/1.8°F
Display resolution	0.1°C/°F	
Measuring distance	0-3cm	
Automatic shutdown	10s±1s	
Memory	35 groups of measured temperature	
Operational conditions	Temperature: 10°C-40°C (50°F-104°F)/ Humidity: 15-95%RH, non-condensing Atmospheric pressure: 86-106 kPa	
Battery	2*AAA, can be used for more than 3000 times	
Weight & Dimension	66.8g (without battery), 36x42x153.5mm	

SYMBOLS

Symbol	Description
	Type BF applied part
	Information about a manufacturer
	Please read the instructions carefully
	Waste electrical materials should be sent to a dedicated collection point for recycling
SN	Serial number
LOT	Batch number
	IMPORTANT Inaccurate reading or thermometer damage may occur if the thermometer is not correctly used.
IP22	2 Protected against solid foreign objects of 12,5 mm Ø and greater; 2 If keep the thermometer in 15 degree angle, it still can prevent the water drop.

EMC INFORMATION

Guidance and manufacturer's declaration-electromagnetic emissions		
The infrared thermometer is intended for using in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment		
Emissions test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR11	Group 1	The infrared thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause and interference in nearby electronic equipment
RF emissions CISPR11	Class B	The infrared thermometer is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations/ flicker emission IEC	N/A	Network that supplies building used for domestic purpose


Guidance and manufacturer's declaration-electromagnetic immunity

The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.

Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment -guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±2, ±4, ±6, ±8kVfor Contact discharge ±2, ±4, ±8, ±15kV air discharge	±2, ±4, ±6, ±8kVfor Contact discharge ±2, ±4, ±8kV, ±15kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for a.c. power lines ±1 kV for d.c. power lines	N/A	Main power quality should be that of a typical commercial or hospital environment
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	N/A	Main power quality should be that of a typical commercial or hospital environment
Voltage dips, short interruptions and voltage variations in power supply input lines IEC 61000-4-11	<5% UT (>95 dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT for 5 s	N/A	Main power quality should be that of a typical commercial or hospital environment. If the user of the thermometer requires continued operation during power main interruptions, it is recommended that the thermometer be powered from an uninterrupted power supply or a battery

Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer *s declaration-electromagnetic immunity			
The infrared thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the infrared thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment -guidance
Conducted RF IEC 61000-4-6	3Vrms 150kHz to 80MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the infrared thermometer including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d=1.2 P$

IEC 6100043	3V/m 80kHz to 2.5GHz	3V/m	<p>d=1.2P80MHz to 800MHz d=2.3P 800MHz to 2.5MHz Here P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and dis the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance b level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
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NOTE 1 At 90MHz and 800MHz, the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations.
Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

- a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the thermometer is used exceeds the applicable RF compliance level above, the thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the thermometer.
- b) Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communications equipment and the infrared thermometer

The infrared thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the infrared thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the infrared thermometer as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
Rated maximum output power of transmitter W	150kHz to 80MHz $d=1.2 P$	80MHz to 800MHz $d=1.2 P$	800MHz to 2.5GHz $d=2.3 P$
0.01	0.01	0.12	0.23
0.1	0.1	0.38	0.73
1	1	1.2	2.3
10	10	3.8	7.3
100	100	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80MHz and 800MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

LIMITED LIFETIME WARRANTY

Your Medic Therapeutics product is backed by a limited lifetime manufacturer's warranty. Medic Therapeutics will repair or replace your device at any time should it fail due to a defect in material or workmanship, subject to the certain limitations.

This limited warranty does not cover any damage that results from unauthorized or improper use, service, or repair. Further, it does not cover damage caused by accident, impact, negligence, or normal wear and tear. Should you discover your Medic Therapeutics product is not functioning properly, please send your device to our repair center for evaluation. If your product cannot be repaired or serviced, we will reserve the right to change it for a similar or newer model.

Please note that a flat rate of \$10.00 will be charged to cover a service evaluation fee and return shipping of your device. All warranty claims must be accompanied by a copy of your proof of purchase from an authorized retailer. Please send your device, proof of purchase, and a check or money order in the amount of \$10.00 made out to Medic Therapeutics to:

Address:

Medic Therapeutics Service Center
3069 Taft Street
Hollywood, FL 33021

Contact:

warranty@medictherapeutics.com

Product Name: Infrared Thermometer Model: FC-IR202

U.S. Agent:

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

Manufacturer:

Mil Shenzhen Finicare Co., Ltd
201, No.50, the 3rd Industrial Park, Houting Community,
Shajing Street, Bao'an District,
Shenzhen 518104 China
E-mail: info@finicare.com

Made in China



