

**Infrared Thermometer
User Manual**



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Introduction

Thank you for choosing Choicemmed infrared Thermometer (CFT-308).

This thermometer is a high-quality product incorporating the latest technology and tested in accordance with international measurement.

Please read these instructions carefully before using this product.

Precautions










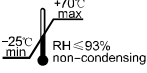




Attentions

- Use of this thermometer is not intended as a substitute for consultation with your physician.
- Never use the thermometer for purposes other than those for which it has intended.
- Never immerse the thermometer into water or other liquids.
- Never insert a sharp object into the scanner or any other opened surface on the thermometer.
- Do not scratch the probe membrane, if not the thermometer shall lose the efficacy.
- Do not expose the thermometer to sunlight.
- Do not expose this thermometer to electric shock.
- Do not use near strong electromagnetic fields, i.e. Keep it away from any radio systems and mobile phones.
- Do not modify this device without authorization of the manufacturer.
- Do not impact the thermometer, otherwise it may affect the accuracy of the measurement.
- Do not let children take their temperatures unattended.
- This device must always be kept in a clean, dry area.
- This device includes small parts, don't inhale or swallow it.
- Follow local ordinances and recycling instructions regarding disposal or recycling of the device and device components, including batteries.
- The thermometer needs to acclimate to the temperature of the room in which the measurement will be taken for 10 minutes.
- This equipment complies with IEC 60601-1-2:2014 for electromagnetic compatibility for medical electrical equipment and/or systems. However, because of the proliferation of radio-frequency transmitting equipment and other sources of electrical noise in healthcare and other environments, it is possible that high levels of such interference due to close proximity or strength of a source might disrupt the performance of this device.
- The material that contacts with the user's skin contains ABS plastic enclosure and passes the ISO10993-5 Tests for invitro cytotoxicity and ISO10993-10 Tests for irritation and delayed-type hypersensitivity.
- 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 device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- The essential performance of the device: display the body temperature accurately. If the Essential Performance is lost or degraded due to EM disturbances, the reading may inaccurate. Please do not reference.

Intended Use

Infrared Thermometer is a reusable thermometer intended for the intermittent determination of human body temperature in a no touch mode using the center of the forehead as the measurement site on people of all ages. It can be used by consumers in the household environment and by healthcare provider.

Symbol Definitions

Symbols	Definitions
	Follow instructions for use
	Attention
	Manufacturer's name and address
	Manufacturing Date
	Type BF applied part
	WEEE disposal
	Serial No.
	Authorized representative in the European community
	European union approval
	Storage temperature and relative humidity
IP22	Protected against dust and Water
	Battery Indication
	Object Temperature Mode
M10	Memory Symbol/Record Count
°C °F	Temperature Scale
	Normal Temperature Range (human temperature mode)
	Fever Temperature Range (human temperature mode)

Product Features

◆ EASY TO USE

Smart appearance with only 2 buttons, very easy to use.

◆ MULTI-MODE THERMOMETER

The infrared thermometer is designed for all ages, adults, infant and elders. It not only supports for human, but is able to take room/object temperature. Two modes are easily switchable.

◆ **BEST THERMOMETER FOR BABY**

1 second fast measurement with instant reading, just take the temperature without wake your baby up.

◆ **FEVER INDICATING SYSTEM**

Equipped with fever warning system, the thermometer for fever will indicate temperature status with corresponding face expression and beeps. Get better noticed of your temperature, urge you to take corresponding actions.

◆ **CONVENIENT MEMORY FUNCTION**

10*2 sets of readings are recorded for better tracking the changes of body temperature.

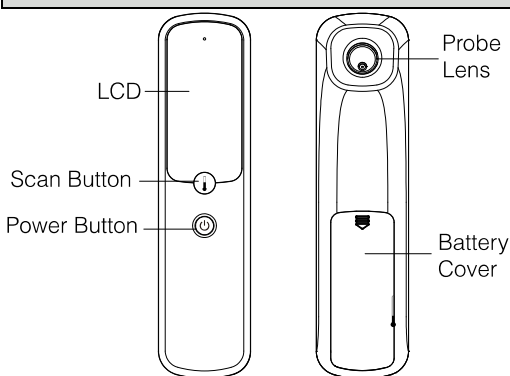
◆ **SAFE AND HYGIENIC**

No touch helps minimize spreading of germs, completely safe for use on Children and adults.

◆ **AGE TEMPRERATURE DISTINCTION**

Clinical research shows the definition of fever changes as newborns grow into Children grow into adults. Select the appropriate age setting, take a temperature and the display will be different face expression and beeps.

Appearance



Battery Installation

To install or replace the batteries, follow the steps:

1. Slide the battery cover off.
2. Install two AAA batteries into the battery compartment. Make sure to align the positive and negative ends properly as indicated inside the compartment.
3. Replace the battery cover.

Notes:

- Please remove the batteries from the product if it is not required for extended periods of time in order to avoid leakage.
- To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.

Select Age Range

1. Power the thermometer on with a short press on power button. Each time you power it on, the device will default to age range selecting mode.

2. Press and release power button to cycle through three age ranges. You may select: 36+months, 0-3 months, 3-36 months, the device will display as below:



Note:

The default age range is “36+months”.

Measure Forehead Temperature

Prepare for measurement:

Follow these guidelines to take an accurate and reliable measurement.

1. The individuals being measured should be indoors for 30 minutes before taking a measurement.
2. Individuals should not drink, eat, or be physically active before/while taking the measurement.
3. Ensure that the individual’s forehead is prepared for measurement.
 - Remove any sweat prior to measurement.
 - Remove hats and wait 10 minutes before taking the measurement.
 - Remove dirt or hair from the forehead area and wait 10 minutes after cleaning before taking the measurement.
 - Avoid any cooling or warming cloths on the forehead for at least 30 minutes prior to measurement.
4. Keep the measurement sensor and lens clean. Avoid directly touching the sensor.

Take a measurement:

1. Select an age range (refer to selection “Select Age Range”);
2. Press scan button to enter “measuring” operation sequence;
3. Short press power button to toggle between human temperature mode (face symbol 😊) and object temperature mode (house symbol 🏠).
4. Position the thermometer on or up to 0.4 inch (1cm) away from center of the forehead, between eyebrows. Do not directly contact with the forehead.



Notes:

- Always take the temperature exactly as directed. Temperature results may vary if positioned in wrong locations.
 - Do not take temperature measurement over scar tissue, open sores, or abrasions.
 - Hold the device and forehead steady.
5. Press scan button again. Read the temperature from the screen.

If the individual temperature being measured is normal, one “beep” will sound and smile face icon 😊 will appear on the screen (see Fig. 1).






Fig. 1

If the individual temperature being measured is in the fever range, four “beeps” will be heard and upset face icon ☹ will appear on the screen (see Fig. 2). If so, please take three temperatures at same location and take the highest one as the reading (Wait at least 5 seconds between consecutive readings).



Fig. 2

Notes:

- The measurements can be recorded and transmitted via Bluetooth (Bluetooth transmission is optional). The Bluetooth symbol  will be lighted once the Bluetooth starts up, otherwise it will keep flashed.
- The battery symbol  indicates the remaining battery capacity. When voltage of the battery is low, the display flashes the low battery warning symbol . The device can still work until the battery life has 0% left.

Read temperature

Age range	Normal	Fever	High fever
0-3 Months	$\geq 35.8 - \leq 37.4^{\circ}\text{C}$ ($\geq 96.4 - \leq 99.4^{\circ}\text{F}$)	N/A	$> 37.4^{\circ}\text{C}$ ($> 99.4^{\circ}\text{F}$)
3-36 Months	$\geq 35.4 - \leq 37.6^{\circ}\text{C}$ ($\geq 95.7 - \leq 99.6^{\circ}\text{F}$)	$> 37.6 - \leq 38.5^{\circ}\text{C}$ ($> 99.6 - \leq 101.3^{\circ}\text{C}$)	$> 38.5^{\circ}\text{C}$ ($> 101.3^{\circ}\text{F}$)
36+ Months	$\geq 35.4 - \leq 37.7^{\circ}\text{C}$ ($\geq 95.7 - \leq 99.9^{\circ}\text{F}$)	$> 37.7 - \leq 39.4^{\circ}\text{C}$ ($> 99.9 - \leq 103.0^{\circ}\text{F}$)	$> 39.4^{\circ}\text{C}$ ($> 103.0^{\circ}\text{F}$)

Measure Object Temperature

1. Short press power button to turn the thermometer on;
2. Press scan button to enter “measuring” operation sequence;
3. Press power button to alternate and set object temperature mode (refer to “Take a Measurement”);
4. Position the object being measured;
5. Press scan button again, read the temperature from the screen (the display will show the result after an audible “beep”).

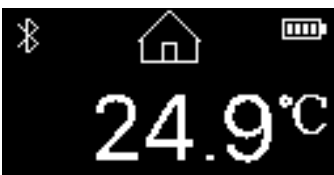


Fig. 3

Change the Temperature Scale

Long press power button to turn the device on and wait until temperature scale appears. Press and hold power button to switch displays between °C and °F (shown as below). Release the button to confirm.



Fig. 4

Memory Search

1. Short press power button + scan button, the device will be powered on and default to records.
2. Short press scan button to alternate and check last ten measurements (M1-M10), shown as in Fig. 5.




Fig. 5


Notes:

- Latest ten measurements of human temperatures can be memorized.
- Long press the scan button to revert to age range selecting mode.

Power Off

- Long press power button for about 4s to turn the thermometer off.
- The thermometer shall automatically shut off without manipulating in 30 seconds.
- The thermometer will power off if the batteries expire completely. The device will display the low battery warning symbol “” and make beep sound.

Troubleshooting

Symbol	Situation	Solution
Hi	When the measured forehead temperature is higher than 43°C	Re-measure the temperature
Lo	When the measured forehead temperature is lower than 32°C	Re-measure the temperature
	Battery exhausted	Replace batteries

Maintenance and Storage

Please protect the thermometer from mechanical shock or heavy impact. Do not disassemble the unit or attempt to repair it.

Cleaning:

1. Clean the lens before and after each use.
2. Use an alcohol swab or cotton swab moistened with alcohol (70% medical alcohol) to clean the thermometer casing and the measuring probe. Wait 10 minutes and allow the thermometer to air-dry before take a measurement. Ensure that no liquid enters the interior of the thermometer.
3. Never use abrasive cleaning agents, thinners or detergents for cleaning and never immerse the instrument in water or other cleaning liquids. Take care not to scratch the surface of the probe membrane or display.

Storage:

1. Store thermometer in a dry location free from dust and contamination and away from direct sunlight.
2. The ambient temperature at the storage location should remain fairly constant and within the range of 13°F to 158°F (-25°C~70°C).

Specifications

Type: No touch forehead thermometer

Model: CFT-308

Lifetime: 5 years

Power: 2 x AAA batteries

Measuring distance: $\leq 0.4\text{in}$ ($\leq 1\text{cm}$)

Measurement Range: 89.6°F~109.4°F (32°C~43°C)

Resolution temperature range: 0.1°F (0.1°C)

Laboratory Accuracy: 0.4°F for 95°F~107.6°F (0.2°C for the range 35°C~42°C) ; Outside that range $\pm 0.5^\circ\text{F}/0.3^\circ\text{C}$

Operation Temperature: 41°F~104°F (5°C~40°C)

Storage/transport temperature: 13°F~158°F (-25°C~70°C)

Ambient Humidity: 15%~93% (non-condensing) in operation;
 $\leq 93\%$ (non-condensing) in storage/transport

Atmosphere pressure: 70kPa~106kPa

Dimension: 6.0*1.5*2.0 inches (151*38*50.2 (mm))

Weight: 103 \pm 5g (including batteries)

Classification

According to the type of protection against electric shock: INTERNALLY POWERED EQUIPMENT

According to the degree of protection against ingress of water: IP22

According to the mode of operation: CONTINUOUS OPERATION

Warranty and Repair

The warranty is valid for 12 months from the date of supply of Choicemmed.

User Guarantees

- a) Please read user manual carefully before operation.
- b) Please operate and make daily maintenance as request of manual and guarantee.
- c) Power supply and environment must be maintained under manual specifications.

Exempt and limitation:

- a) During the period of validity of the warranty, Choicemmed will repair and/or replace free of charge all the defected parts due to production reasons. Labor costs and personnel traveling

expenses and packaging not included.

- b) All components subject to wear are not included in the warranty.
- c) The repair or replacement performed during the warranty period shall not extend the warranty.
- d) The warranty is void in the following cases: repairs performed by unauthorized personnel or with non-original spare parts, defects caused by negligence or incorrect use.
- e) The warranty does not apply to damage caused by improper handling, unreasonable use, accidents, not following the operating instructions or alterations made to the instrument by third parties.

Box Content

Chocemmed Infrared Thermometer
 Two AAA Batteries
 Color Box
 User Manual
 Quick Start Guide

Declaration

FCC DECLARATION

Please take attention that changes or modification 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.

Guidance and Manufacturer's declaration – electromagnetic emissions-For all EQUIPMENT and SYSTEMS


Guidance and Manufacturer's declaration - electromagnetic emission		
The CFT-308 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of CFT-308 Infrared Thermometer should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic Environment – guidance
RF emissions CISPR 11	Group 1	The CFT-308 Infrared Thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The Infrared Thermometer (CFT-308) is suitable for use in all establishment, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Not Applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not Applicable	

Guidance and Manufacturer’s declaration – electromagnetic immunity-For all EQUIPMENT and SYSTEMS

Guidance and Manufacturer’s declaration - electromagnetic immunity			
The CFT-308 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the CFT-308 Infrared Thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance Level	Electromagnetic Environment – guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	+/- 2,4,6,8kV contact +/-2, 4, 8, 15kV air	+/- 2,4,6,8kV contact +/-2, 4, 8, 15kV air	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristics of a typical location in a typical commercial or hospital environment.

**Guidance and Manufacturer’s declaration – electromagnetic immunity-
For all EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING**

Guidance and Manufacturer’s declaration - electromagnetic immunity			
The CFT-308 Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the CFT-308 Infrared Thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance Level	Electromagnetic Environment – guidance
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.5 GHz	10 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Infrared Thermometer (CFT-308), including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 0.35\sqrt{P}$ 80 MHz to 800 MHz $d = 0.7\sqrt{P}$ 800 MHz to 2.5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a,

			<p>should be less than the compliance level in each frequency range. b</p> <p>Interference may occur in the vicinity of equipment marked with following symbol:</p> 
<p>NOTES 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTES 2 These guidelines may not apply in all situations, Electromagnetic propagation is affected by absorption and reflection structures, objects and people.</p>			
<p>a Field strengths from fixed transmitters, such as base station 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 Infrared Thermometer (CFT-308) should be observed to verify normal operation. If abnormal performance is observed, additional measurements may be necessary, such as reorienting of the relocating the Infrared Thermometer (CFT-308).</p> <p>b Over the frequency range 150 kHz to 80 MHz, fields strengths should be less than 3 V/m</p>			

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEMS - For all EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

<p>Recommended separation distances between portable and mobile RF communications equipment and Infrared Thermometer (CFT-308)</p>		
<p>The Infrared Thermometer (CFT-308) is intended for use in electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared Thermometer (CFT-308) can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared Thermometer (CFT-308) as recommended below, according to the maximum output power of the communications equipment.</p>		
Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)	
	80 MHz to 800 MHz $d = 0.35\sqrt{P}$	800 MHz to 2.5 GHz $d = 0.7\sqrt{P}$
0.01	0.035	0.070
0.1	0.111	0.222
1	0.35	0.70
10	1.107	2.214
100	3.5	7.0
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distanced 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.</p> <p>NOTES 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>NOTES 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>		