

Infrared Thermometer User Manual



Introduction

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

⚠️ Attention

- 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 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.
- Virus checking and killing is required regularly for applications that receive data to protect the device from virus infection.

- Save backups to a secure location to avoid data damage or loss.
- The material that contacts with the user's skin has passed 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 is to display the body temperature accurately. If the essential performance is lost or degraded due to EM disturbances, the reading may be inaccurate. Please do not refer to it.
- Anti-virus software and firewalls are needed to be installed on applications that receive data (such as APP, etc.) and upgraded regularly to detect and prevent malicious software intrusion.
- It is not for continuous monitoring.

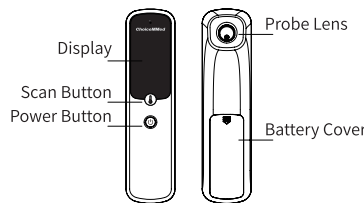
Product Features

- 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 also is able to take room/object temperature. Two modes are easily switchable.
- BEST THERMOMETER FOR BABY**
1 second fast measurement with instant reading, take the temperature without waking your baby up.
- UNNORMAL INDICATING SYSTEM**
Equipped with unnormal warning system, the thermometer will indicate temperature status with corresponding face expression and beeps. Get better noticed of your temperature and urge you to take corresponding actions.
- CONVENIENT MEMORY FUNCTION**
32 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 TEMPERATURE DISTINCTION**
Clinical research shows the definition of normal temperature range changes as newborns grow into children and then grow into adults. Select the appropriate age setting, take a temperature and the display will show different facial expressions with a corresponding number of audible beeps.

Intended Use

Infrared Thermometer is a reusable thermometer intended for the intermittent determination of human body temperature in a non-contact 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.

Appearance



Battery Installation

To install or replace the batteries, follow the steps:

- Slide the battery cover off;
- Install two AAA batteries into the battery compartment. Make sure to align the positive and negative ends properly as indicated inside the compartment;
- Close 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.

Measure Forehead Temperature

Prepare for measurement

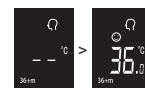
Follow these guidelines to take an accurate and reliable measurement.

- The individuals being measured should be indoors for 30 minutes before taking a measurement.
- Individuals should not drink, eat, or be physically active before/while taking the measurement.
- 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.
- Keep the measurement sensor and lens clean. Avoid directly touching the sensor.

Take a measurement

- Short press the power button to turn the thermometer on, the screen will light up with a short beep sound. The device is ready for forehead temperature measuring.
- Position the probe on or up to 0.4 inch (1cm) away from center of the forehead between eyebrows and press the scan button. Read the result on the screen.



- 👤: Forehead Mode
- 😊: Normal Temperature (one "beep" sound)
- 😬: Above Normal (four "beep" sound)
- 36+m: Default Age Range

Notes:

- Always take the temperature exactly as directed. Readings may vary if positioned in wrong locations.
- Do not take temperature over scar tissue, open sores, or abrasions.
- Hold the device and forehead steady. Do not directly contact with the forehead.
- Forehead mode is entered by default each time you power it on.
- Age range setting for forehead temperature measuring: During the measurement, press and hold the scan button to toggle between three age ranges: 36+m, 0-3m and 3-36m.
- When the symbol "Hi" or "Lo" appears instead of a reading, please take another measurement.
- If the temperature is above normal, please take three temperatures at same location and take the highest one (wait at least 5 seconds between consecutive readings).
- Replace the battery when the low battery indicator "🔋" blinks in the display, although the device can still work until the battery life has 0% left.

Read temperature

Age Range	Normal	Above Normal
0-1 Month	≥35.8-≤37.4°C (≥96.4-≤99.4°F)	>37.4°C (>99.4°F)
1-3 Months	≥35.8-≤37.4°C (≥96.4-≤99.4°F)	>37.4°C (>99.4°F)
3-36 Months	≥35.4-≤37.6°C (≥95.7-≤99.6°F)	>37.6°C (>99.6°F)
36+ Months	≥35.4-≤37.7°C (≥95.7-≤99.9°F)	>37.7°C (>99.9°F)

The unit will power off:

- by a long press on the power button for 4 seconds.
- without manipulating in one minute.
- when the batteries expire completely.

Measure Object Temperature

- Short press the power button to turn the unit on;
- Press the power button to switch to object mode;
- Position the probe to the object and press the scan button. The display will show the reading in 1 second with an audible "BEEP".



Memory Search

- Press the power button&scan button together, the unit will be powered on and display an "M" in the up left corner.
- Short press the scan button to check records from 01 to 32.






Notes:

- Latest 32 readings can be memorized.
- Press the power button, the device will revert to forehead mode.













Change Temperature Scale

Press and hold the power button, the unit will be powered on and display °C and °F alternatively. Release to confirm your choice, the thermometer will instantly enter forehead mode.

Troubleshooting

Symbol	Situation	Solution
	When the measured forehead temperature is higher than 43°C	Remeasure
	When the measured forehead temperature is lower than 32°C	Remeasure
	Battery exhausted	Replace batteries

Symbol Definitions

	Follow instructions for use
	Manufacturer's name and address
	Manufacturing Date
	Attention
	WEEE Disposal
	Serial Number
IP22	Protected against dust and water
	Type BF applied part
	Storage temperature and relative humidity
°C °F	Temperature Scale
	Battery Indication (it appears and flashes in the display only when battery is low)
M	M/Memory symbol
	Normal Temperature Range (human temperature mode)
	Above Normal Temperature Range (human temperature mode)
	Object Temperature Mode

Maintenance and Storage

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

Cleaning: Clean the lens before and after each use.

- Use an alcohol swab or cotton swab moistened with alcohol (70% medical alcohol) to clean the unit case and the measuring probe. Wait 10 minutes and allow the thermometer to air-dry before taking a measurement. Ensure that no liquid enters the interior of the unit.
- 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: Store the thermometer in a dry location free from dust and contamination and away from direct sunlight. The ambient temperature at the storage location should remain fairly constant within the range of -13°F to 158°F (-25°C~70°C) with the non-condensing relative humidity below 93%.

Specifications

- Type: No touch forehead thermometer
- Model: CFT-308C
- Lifetime: 5 years
- Power Supply: 2 x AAA batteries
- Measuring Distance: ≤0.4in (≤1cm)
- 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 ±0.5°F/0.3°C

- Operation Temperature: 59°F~104°F (15°C~40°C)
- Storage/transport temperature: -13°F~158°F (-25°C~70°C)

- Ambient Humidity: 15%~93% (non-condensing) in operation; ≤93% (non-condensing) in storage/transport
- Atmosphere pressure: 70kPa~106kPa
- Dimension: 6.0*1.5*2.0 inches (151*38*50.2 (mm))
- Weight: 72±5g (excluding 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:

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

Exempt and limitation:

- During the period of validity of the warranty, our company will repair and/or replace free of charge all the defected parts due to production reasons. Labor costs and personnel traveling expenses and packaging are not included.
- All components subject to wear are not included in the warranty.
- The repair or replacement performed during the warranty period shall not extend the warranty.
- 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.
- 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

ChoiceMMed Infrared Thermometer
Two AAA Batteries
User Manual

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:

- This device may not cause harmful interference,
- This device must accept any interference received, including interference that may cause undesired operation.

Declaration

Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not applicable
Voltage fluctuations / flicker emissions IEC 61000-3-3	Not applicable

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Immunity Test	IEC 60601 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
NOTE U _T is the a.c. mains voltage prior to application of the test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Immunity Test	IEC 60601 Test level	Compliance level
Radiated RF IEC61000-4-3	3 V/m 80 MHz – 2,7 GHz	3 V/m 80 MHz – 2,7 GHz
NOTE 1 At 80 MHz and 800 MHz, 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 device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.		
^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.		

Table 4

Guidance and manufacturer's declaration - electromagnetic Immunity							
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment							
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Modulation b) (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
	385	380 – 390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27
	450	380 – 390	GMRS 460, FRS 460	FM c) ± 5 kHz deviation 1 kHz sine	2	0,3	28
	710	704 – 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9
	745						
	780	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0,3	28
	810						
	870						
	930	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0,3	28
	1720						
1845							
1970	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28	
2450							
5240							
5240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9	
5785							

NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

The MANUFACTURER should consider reducing the minimum separation distance, based on RISK MANAGEMENT, and using higher IMMUNITY TEST LEVELS that are appropriate for the reduced minimum separation distance. Minimum separation distances for higher IMMUNITY TEST LEVELS shall be calculated using the following equation: $E=6/d \sqrt{P}$

Where P is the maximum power in W, d is the minimum separation distance in m, and E is the IMMUNITY TEST LEVEL in V/m.

说明书确认单

文件编号: BD-BZ-03D

产品型号	CFT-308C	物料编码	1.15.22.235	版本	Ver1.0
物料名称	CFT-308C红外体温计英文说明书(美国)				

产品说明书

产品硬件审核内容 ▼	产品软件审核内容 ▼	产品结构审核内容 ▼	产品测试审核内容 ▼
<ul style="list-style-type: none"> • 产品概述: 特点; 适用范围、禁忌症、注意事项; 图形与符号等的解释; • 产品功能(硬件方面), 测量原理与工作原理; • 技术特性: 工作环境; 硬件性能参数; • 使用方法: 使用前的准备; 使用前、中、后的安全注意事项; 使用具体方法。 • 故障分析与排除: 故障现象; 原因分析; 排除方法; • 保养维护: 日常维护和保养; 运行时维护及保养; 检修周期; • 运输贮存: 环境条件、贮存期限。 	<ul style="list-style-type: none"> • 产品按键及接口功能介绍; • 性能参数(软件方面); • 测量、菜单及其他界面介绍; • 报警及可设置参数的范围与默认值; • 各种功能操作方法及注意事项; • 软件故障分析与排除。 	<ul style="list-style-type: none"> • 产品外观介绍; • 结构特点、震动及防水特性说明; • 电池、探头及其他附件或配件安装方法; • 外形尺寸; 	<ul style="list-style-type: none"> • 产品安装与测量方法及步骤正确; • 产品各种状态介绍信息与测试相符; • 产品仪器的性能指标与测试相符; • 报警发生条件与报警现象描述与测试相符; • 产品运行和储藏环境要求与测试相符;
硬件负责人:	软件负责人:	结构负责人:	测试负责人:

维修手册

硬件审核内容 ▼	软件审核内容 ▼	结构审核内容 ▼	工艺审核内容 ▼
<ul style="list-style-type: none"> • 产品整机概述; • 硬件原理及框图; • 仪器内部连线图; • 仪器维修方法; • 仪器保养与维护; 	<ul style="list-style-type: none"> • 软件原理介绍及原理框图; • 工程师菜单的使用方法; • 测量参数检验与校准; 	<ul style="list-style-type: none"> • 产品外部与内部结构图; • 主要部件或模块位置图; 	<ul style="list-style-type: none"> • 产品外部与内部结构图; • 主要部件或模块位置图;
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快速操作指南

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软件说明书

软件负责人审核内容 ▼	测试验证审核内容 ▼
<ul style="list-style-type: none"> • 软件安装与卸载方法步骤; • 软件操作的各个步骤、界面与提示信息。 • 软件安装、操作等相关注意事项。 • 软件使用中相关要求。 	<ul style="list-style-type: none"> • 软件安装方法及步骤正确; • 软件使用方法与步骤与测试相符; • 软件的性能指标与测试相符;
软件负责人:	测试负责人:

设计更改的原因

无

此文档内容符合相关法规与标准要求。	认证负责人:
文档中文字和词语使用正确, 语言表述准确。	语言负责人:
文档中企业名称、地址、联系方式等相关信息符合相关要求。	业务负责人:
任务确认	项目负责人:

印刷要求 (此部分内容由排版人员审核)

封面用纸	无	封面颜色	无
内页用纸	70g轻涂纸	内页颜色	黑白单色印刷
页面尺寸	160 X 360mm (公差: 1mm)	样式	单页双面, 六折页
备注	若源电子文件在其他计算机上出现跑位乱版、图片或文字丢失, 请根据我们提供的PDF版电子文件调整版式; 若有严重问题请及时与相关设计人员联系确认。		

编制:	排版:	审批:
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注: 在 勾选审核文档类型, “√”选择, “X”不选择。

说明书折叠方式

注:

1. 每个折痕纸张需对齐;
2. 虚线为折叠线。

折叠后此面朝上为正面。



ChoiceMed
Infrared Thermometer
User Manual

Beijing Choice Electronic Technology Co., Ltd.
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100041 Beijing, PEOPLE'S REPUBLIC OF CHINA

VER1.0_2022.06

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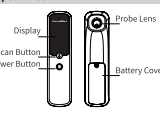
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Clinical research shows the definition of normal temperature range changes as newborns grow into children and then grow into adults. Select the appropriate age setting, take a temperature and the display will show different facial expressions with a corresponding number of audible beeps.

Intended Use

Infrared Thermometer is a reusable thermometer intended for the intermittent determination of human body temperature in a non-contact 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.

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. Close 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.

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.

Read temperature


Age Range	Normal	Above Normal
0-1 Month	36.5-37.4 °C (98.4-99.4 °F)	37.4 °C (99.4 °F)
1-3 Months	36.3-37.4 °C (98.4-99.4 °F)	37.4 °C (99.4 °F)
3-6 Months	36.4-37.6 °C (98.7-99.8 °F)	37.6 °C (99.8 °F)
3-6 Months	36.4-37.7 °C (98.7-99.9 °F)	37.7 °C (99.9 °F)

The unit will power off:

- By a long press on the power button for 4 seconds, without manipulating in one minute, when the batteries expire completely.


Measure Object Temperature

1. Short press the power button to turn the unit on.
2. Press the power button to switch to object mode.
3. Position the probe to the object and press the scan button. The display will show the reading in 1 second with an audible "BEEP".



Memory Search

1. Press the power button+scan button together, the unit will be powered on and display an "M" in the top left corner.
2. Short press the scan button to check records from 01 to 32.



Notes:

- Latest 32 readings can be memorized.
- Press the power button, the device will revert to forehead mode.

Change Temperature Scale

Press and hold the power button, the unit will be powered on and display "C" and "F" alternately. Release to confirm your choice, the thermometer will instantly enter forehead mode.