

# IR Forehead Thermometer



Fever Warning



Automatic Shutdown



Memory Quantity



Rapid Measurement



High Precision



Non Contact



Correct Measurement



Measure the forehead at a distance of 3-5cm



## 非接触式温度計 JT-E020



### カタログ

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### 1.解説(Description)

この商品は人体の額を専門に測定する、非接触型赤外線体温測定計です。  
人体の皮膚の違いにより、測定温度も変わります。

### 2.安全使用の為のマニュアル(Use safety manual)

- \*使用前にこのマニュアルを注意深く読んでください。
- \*使用環境温度は10° ~40° (最適温度環境25° )
- \*40° 以上や0° 以下の環境では使用しないでください。
- \*電気ショックを避けるために帯電物の近くに置かないでください。
- \*湿度が85%以上の高い環境では使用しないでください。
- \*電磁範囲(例えば:ラジオ、携帯等)に近づき過ぎた場所に置かない。
- \*直鎖日光にさらしたり、ストーブの近くや水にさらしたりしない。
- \*商品をぶつけたり、落下させたりしない、また、損傷した場合には使用しない。
- \*額に汗、髪、帽子、スカーフ等は計測の正確性に影響を与えます。
- \*計測距離は5cm以内で行ってください。
- \*額の汗とか、その他の理由で正常に体温を反映しない場合には、耳たぶを計測してください。
- \*きれいにするときには、メーターの表面をアルコールで軽く拭き取ってください。
- \*商品に何らかの不具合が生じ、自分で直せない場合には、販売元に問い合わせください。
- \*周囲温度が大きく変化する場合、体温測定を行うことは禁止されています。

### 3.仕様(Features)

- 1) 非接触高精度体温測定器
- 2) 摂氏温度(°C)か華氏温度(°F)を選択
- 3) 警報値を設定可能
- 4) ブザー機能(オン/オフ設定)
- 5) バックライト付きの液晶画面は暗闇でも使用可能
- 6) 自動選択範囲:解像度は0.1°C単位
- 7) 少なくとも20件の測定データを保存
- 8) 自動データ保持と自動シャットダウン

#### 4. その他(Other instruction)

非接触型赤外線額体温計は人体の額の専門体温計です。  
一般家庭で広く使用されます。  
この商品は医師の診断を置き換えるものではありません。

#### 5.使用前の注意(Precautions before use)

パワーオンセルフテスト: 測定対象物に向かって、測定スイッチを押すと、液晶画面にセルフテストのすべての数字と文字が表示されます。  
この画面は約1秒間表示されます。

#### 6.商品構造(Product structure)

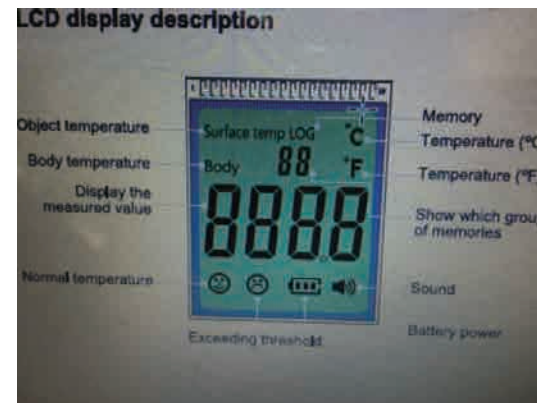
Model: JT-E020

構造構成: 主に赤外線プローブアセンブリ、  
主要な回路基板アセンブリ、液晶画面表示アセンブリ、  
及び、本体ケースアセンブリ。

- a. 赤外線センサー
- b. 液晶表示
- c. 計測スイッチ
- d. セットキー
- e. アップボタン(+)
- f. ダウンボタン(-)
- g. ハンドル
- h. バッテリーカバー



#### 7.液晶表示(LCD display description)



#### 8. 製品の範囲と禁忌(Product scope and contraindic)

##### 8.1製品の計測方法

額からの熱放射を測定して体温を測定表示

## 9. テクニカルインデックス(Technical index)

### 9.1 ベーシック パラメータ

0.1°C単位の計測

電源: DC3V(2 AAA/バッテリー)

サイズ: 149mmx97mmx45mm

重量: 110g

生産日: 商品プレート参照

### 9.2 計測範囲

人体の体温測定範囲: 32°C ~ 42.9°C

測定距離範囲: 3cm ~ 5cm

自動シャットダウンタイム 約10秒

### 9.3 測定精度

32°C~34.9°C 精度: ±0.3°C

35°C~42°C ±0.2°C

42.1°C~42.9°C ±0.3°C

### 9.4 サービス寿命

3年間

### 9.5 ソフトリリース バージョン

V1.0

### 9.6 作業、保存、運搬、要求環境

#### 1) 作動環境

- ・作動温度: 10°C~40°C(最適温度25°C)
- ・湿度: 85%以下
- ・大気圧: 70kpa~1060kpa
- ・電力: DC3V (2xAAA/バッテリー)

#### 2) 保存及び運搬環境

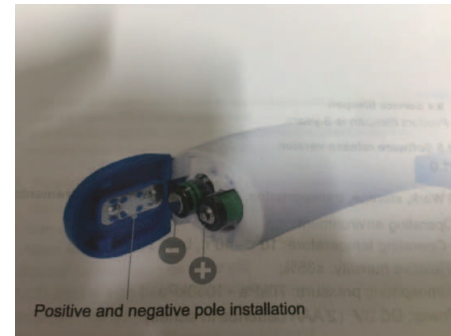
- ・保管温度: -20°C~55°C
- ・湿度: 93%以下
- ・腐食性ガスの内、喚起の良い部屋

## 10. 操作説明(Operating instruction)

### 10.1 バッテリー組み込み

本体のハンドルの底の楕円形にバッテリーの組み込みがあります。

正極(+)/負極(-)の極を間違わないように組み込む。

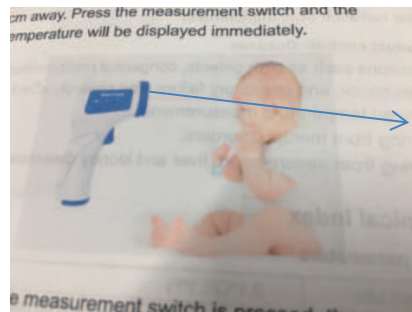


#### \*\*注意: バッテリーの組み込み、交換

- 1) バッテリーカバーを開けたら、バッテリーの正極/負極を間違わないように差し込む
- 2) 初めて、または新しいバッテリーを挿入した直後にウォームアップするまで10分待ってください。
- 3) バッテリー容量が少なくなった場合には、画面に表示されますので、速やかに、新しいバッテリーと交換してください。交換時に正極(+)側と負極(-)側を間違わないように挿入してください。間違いますと商品故障の原因になります。
- 4) 長期間本体を使用しない場合には、本体寿命を長引かせたり、バッテリーの液漏れで、本体にダメージが発生しないようにバッテリーを取り外してください。

## 10.2 体温測定ステップ

- 1.測定距離より3-5cm離して、額の中央に赤外線センサーを向ける。  
計測スイッチを押すと、体温表示がすぐに液晶表示に表示されます。



3-5cmの距離

- 2.計測スイッチを押すと、現在の体温が液晶画面に表示され、自動的に記録保存されます。

(注意)

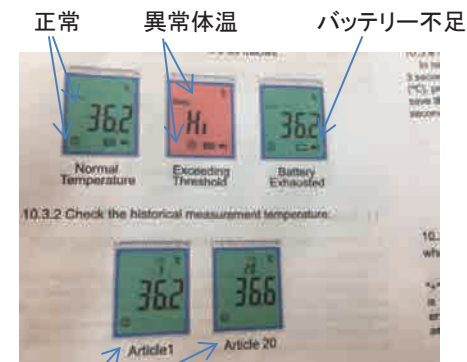
- 1) 計測前に額に、髪が被さらない、汗、化粧、帽子等計測に障害がないことを確認。
- 2) 額の汗やその他の理由で計測が正常に測定できないばあいには、耳タブ(裏側)で計測。



- 3) 本商品を長時間使用していないと、最初に使用する時に起動時間が1-2秒長かかります。
- 4) 人体の体温は時間によっても、また、その他の外的状態によっても影響を受け代わります。(年齢/性別/皮膚等)

## 10.3 機能表示

- 10.3.1 表示には3種類あります。

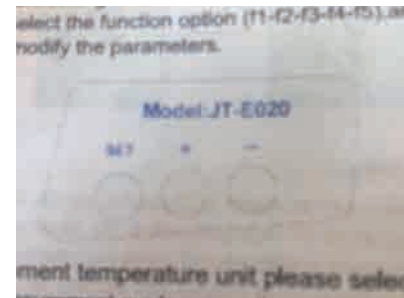


- 10.3.2 過去の測定結果を表示

- 10.3.3 設定

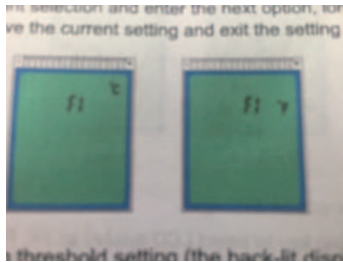
約3秒ほど長く設定キー(SET)を押して、設定モードに移行したり、設定モードから退室します。

設定モードにおいて、設定キーを短押しし、機能オプション(f1-f2-f3-f4-f5)を選択し、(+/-)キーを押して、パラメーターを変更する。



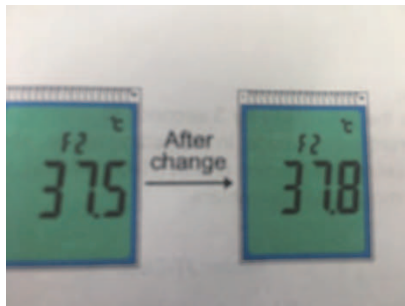
### 10.3.4 体温測定選択(摂氏°C/華氏°F)(F1)

通常の測定モードにおいて、液晶画面表示にf1が表示されるまで3秒以上押す。(+)を短押しすると摂氏温度表(°C) > 短押しで設定が登録され、次のオプションに移行。  
3秒以上の長押しで現在の設定を登録して、設定機能から退室。



### 10.3.5 異常体温警告設定(設定温度をオーバーした時に表示画面が赤)

設定キーを押してf2オプションを選択、+/-キーを押して警告温度に変更する。(最低は37°C以上)  
短押しで設定警告温度を登録し、次のオプションに移行する。  
3秒以上の長押しで、現在の設定を登録して設定機能から退室。

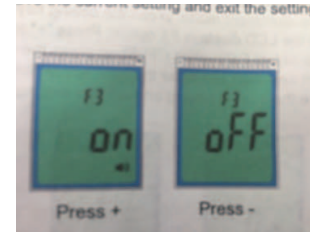


(設定警告温度を37.8°Cに変更の意)

(37.8°C以上になると画面が赤の警告温度になる)

### 10.3.6 ブザーの設定

設定キーを押して、f3オプションを選択し、+ボタンを押して、ブザーをオン/オフボタンを押してブザーをオフにする。設定したら、短押しで現在の設定を登録し、次のオプションに進む。  
3秒以上の長押しで、現在の設定を登録し、設定機能から退室。



### 10.3.7 エラー修正設定

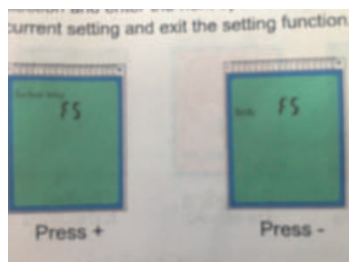
設定キーを押してf4を選択、+/-キーを押して



### 10.3.8 物体/人体温度変換

設定キーを押してf5を選択。(+)キーを押すと、物体の温度測定選択、(-)キーを押すと、人体体温測定。短押しで現在の設定と登録し、次のオプションに移行。

3秒以上の長押しで現在の設定を登録して設定機能から退室。



(+)で物体温度測定 (-)で人体体温測定

## 11. 参考基準温度 (Reference temperature)

### 11.1 それぞれの測定場所における正常な人体体温範囲:

人体は大変複雑な生物学的組織で作られています。

人の体温は生命活動において重要なデータを示しております。

通常、我々は額、耳朶、肛門、口、わきの下の体温を測ることにより、健康の尺度にしております。

それぞれの違った場所により、体温には違いがあります。

計測場所	通常体温
肛門	36.6°C~38°C
口	35.5°C~37.5°C
わきの下	34.7°C~37.3°C
耳朶	35.8°C~38°C
額	36°C~37.2°C

### 11.2 年齢による正常体温範囲

人の体温は一日の時間によっても変わりますし、年齢や性別、肥満度等によっても違いが出ます。

#### 年齢による違いの参考

年齢	通常体温
0~2歳	36.4°C~38°C
3~10歳	36.1°C~37.8°C
11~65歳	35.9°C~37.6°C
>65歳	35.8°C~37.5°C

(注意)

女性の体温は男性の体温とは違いが出ます。一般的に排卵時には約0.3°C~0.5°C程度通常より高くなります。

## 12. アドバイス (Advice)

- ・液晶画面の保護ガラスは大変重要で、破損しやすいです。丁寧に扱ってください。
- ・リチャージ出来ないバッテリーを充電したり、火に入れたりしない。
- ・商品本体を直射日光に当てたり、水のさらしたりしない。

## 13. ケアとメンテナンス (Care and Maintenance)

### 13.1 商品ケアとクリーニング

- 1) センサー感知部分は最も精密な部分で、丁寧に保護してください。
- 2) 商品をクリーンする場合、研磨剤クリーナーを使用しない。
- 3) 商品を絶対に水に浸したり、その他の液体に浸したりしない。
- 4) ホコリ、汚染、直接太陽に当てない乾燥した場所に保管する。
- 5) 非接触電子体温計部を定期的に月1度程度の割合でクリーンしてください。

商品の汚れに従ってクリーンしてください。

非接触電子体温計部は柔らかい布でクリーンしてください。汚れがひどい時には、アルコール度70%を含ませた綿布か綿棒でケース部やセンサー頭部をクリーン消毒する。(赤外線感知部は拭き取らない)。体温計の内部に液体が入らないように注意してください。

## 13.2 商品メンテナンス

使用中に下記の問題に直面した場合には、問題解決の為にメンテナンス指示に従ってください。

### 1) 液晶画面が正確に表示しない

もし体温測定値が32℃以下か42.9℃以上の場合には、液晶表示はデータを表示しなく、“Lo”か“Hi”を表示。

### 2) 液晶表示が“Hi”表示

非接触電子体温タイマーを使用すると、測定範囲を超えたり、人体体温測定モードで42.9℃以上の場合に表示されます。

### 3) 液晶表示が“Lo”表示

非接触電子体温タイマーを使用すると、測定範囲を超えたり、人体体温測定モードで、32℃以下の場合に表示されます。

“Lo”“Hi”が表示される場合

\*\*髪の毛や汗の影響……計測時に障害物等ないことを確認

\*\*風/空気気流の変化による影響……計測時に変化がないこと確認

\*\*測定距離が離れすぎ……計測器との距離を5CM以内とする

\*\*温度の低い/高い室外から室内に入った場合……約10分程待って、測定環境と同じになってから測定

## 14. 廃棄物処理指導

\* 電子品やバッテリーをごみ箱に直接廃棄しない、環境破壊を起こします。あなたの地域の法律に従って処理してください。

\*非接触電子体温計を捨てないでください。あなたの地域の法律に従って処理してください。

## 15. 電磁両立性警告

\*非接触電子体温計は国際的標準IEC60601-1-2:2004に準拠しております。

\*

\*強い電磁波干渉により、非接触電子体温の測定精度に影響を与えかねませんので、近くで携帯電話や電子オープン等を使用しない。

## 16. シンボル表示



Product Model:JT-E020

# Product Manual

## IR Forehead Thermometer

Manufacturer / After-sales service: Yichang Jiangjing Optoelectronic Co., Ltd.  
Production Address: No.66, Changning Third Road, Maoping Town, Zigui County,  
Yichang City, Hubei Province, China

Yichang Jiangjing Optoelectronic Co., Ltd.

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### 1. Description

This product is a non-contact infrared forehead thermometer that professionally measures the temperature of the forehead of the human body. According to the difference of human skin, the measured temperature will be different; The temperature caused by different parts of the human body will be different because the more exposed the human body. The part is more "affected" by the ambient temperature.

### 2. Use safety manual

- Please read this manual carefully before use.
- The operating temperature of this product is 10°C ~ 40°C, the optimal temperature is 25°C.
- Do not use this product in an environment above 40°C or below 0°C.
- Do not place this product near charged objects to avoid electric shock.
- Please do not use this product in an environment with relative humidity greater than 85%.
- Do not place this product too close to the electromagnetic range. (E.g. radio, mobile phone, etc.).
- Please do not expose this product to the sun, or near the stove, or contact it with water.
- Do not bump or drop the product, and do not use it if it is damaged.
- Sweat, hair, hat or scarf on forehead can affect the accuracy of the measurement.
- Make sure the measurement distance is within 5 cm.
- When forehead sweating or other reasons cause the forehead temperature does not reflect the body temperature normally, please measure from the earlobe.
- When cleaning is required, wipe the surface of the meter lightly with alcohol.

- Contact the distributor if there is any problem with the product and cannot repair the product by yourself.
- It is forbidden to take body temperature measurement when the ambient temperature changes greatly.

### 3. Features

- 1) Non-contact high-precision temperature measurement
- 2) Can choice of °C or °F
- 3) Alarm value can be set
- 4) Buzzer function (can be on or off)
- 5) LCD display with backlight can be used by users in dark
- 6) Automatic range selection; resolution is 0.1°C (0.1°F)
- 7) Can store the latest 20 measurement data
- 8) Automatic data retention and automatic shutdown.

### 4. Other instructions

Non-contact infrared forehead thermometer is a professional thermometer for measuring human forehead. It is widely used in home use. This product cannot replace the diagnosis of doctors.

### 5. Precautions before use

Power On Self Test: Aim at the measured object, press the measurement switch, the LCD will display all the numbers and characters of the self-test, and the self-test screen appears. This screen is displayed for about 1 second.

### 6. Product structure

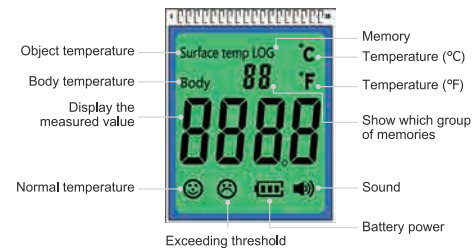
**Model: JT-E020**

Structural composition: It is mainly composed of infrared probe assembly, main circuit board assembly, LCD display assembly and housing assembly.



- a. Infrared sensor
- b. LCD display
- c. Measurement switch
- d. Set key
- e. Up button
- f. Down button
- g. Handle
- h. Battery cover

### 7. LCD display description



## 8. Product scope and contraindications

### 8.1 The scope of products

The body temperature of the subject is displayed by measuring the heat radiation from the forehead.

### 8.2 Product contraindications

- 1) Conditions such as birth defects, congenital malformations, septic shock, and circulatory failure may severely affect forehead temperature measurement.
- 2) Suffering from mental disorders.
- 3) Suffering from severe heart, liver and kidney diseases.

## 9. Technical index

### 9.1 Basic parameters

Show exact bits	0.1°C(0.1°F)
Power	DC 3V (2 AAA batteries in series)
Size	149mm*97mm*45mm / 5.8"*3.8"*1.7"
Weight	110g / 0.24lb
Production date	See product nameplate for details

### 9.2 Measuring range

Human body mode temperature range	32.0°C ~ 42.9°C / 89.6°F ~ 109.2°F
Measuring distance range	3cm-5cm / 1.1"-1.9"
Automatic shutdown time	About 10s

### 9.3 Measurement accuracy

32°C ~ 34.9°C	±0.3°C
35°C ~ 42°C	±0.2°C
42.1°C ~ 42.9°C	±0.3°C

### 9.4 Service lifespan

Product lifespan is 3 years.

### 9.5 Software release version

V1.0

### 9.6 Work, storage, transportation, and environmental requirements

#### 1) Operating environment:

- Operating temperature: 10°C ~ 40°C, best 25°C;
- Relative humidity: ≤85%;
- Atmospheric pressure: 70kPa ~ 1060kPa
- Power: DC 3V (2 AAA batteries in series)

#### 2) Storage and transportation environment:

- Storage temperature: -20°C ~ +55°C;
- Relative humidity: ≤93%;
- Non-corrosive gas, well-ventilated room.
- The transportation requirements are stipulated in the order contract, and the severe impact, vibration and rain and snow splashing during transportation must be prevented.

## 10. Operating instructions

### 10.1 Battery instructions

At the bottom of the handle, there is an oval with an arrow on it. Please push the battery cover forward with your hand in the direction of the arrow.



Positive and negative pole installation

■ **Note for battery installation and replacement:**

- 1) After the battery cover is opened, place the battery in the direction of the positive and negative electrodes at the place where the batteries are installed. Pay attention to the correct orientation of the positive and negative electrodes.
- 2) Wait for 10 minutes to warm up for the first time or immediately after inserting a new battery.
- 3) When the battery power is low, the symbol will appear on the display, prompting to replace the new battery, open the battery compartment cover (see 6 product structure), pay attention to the positive and negative polarity when replacing the new battery. Improper placement may cause damage to the product.
- 4) Remove the battery when it has not been used for a long time to prolong its service life and prevent damage due to battery leakage.

**10.2 Temperature measurement steps**

1. Point the thermometer at the center of the forehead(above the center of the eyebrow) and keep it vertical, about 3-5 cm away. Press the measurement switch and the temperature will be displayed immediately.



2. When the measurement switch is pressed, the current measurement temperature value is displayed on the display, and the measurement data can be automatically stored Note:

- 1) Before measuring, make sure that there is no hair, sweat, makeup or hats on it.
- 2) When forehead sweating or other reasons cause the forehead temperature does not reflect the body temperature normally, please measure after aiming at the earlobe, and make sure that there is no hair, sweat, cosmetics or hat covering.
- 3) The non-contact infrared forehead thermometer has not been used for a long time, the first time the machine is opened for environmental temperature detection, and the boot time is extended by 1 to 2 seconds.
- 4) A person's body temperature changes at different times of the day and is also affected by other external conditions, such as age, gender, and skin color.



### 10.3 Function description

10.3.1 The three display states are as follows:



Normal Temperature

Exceeding Threshold

Battery Exhausted

10.3.2 Check the historical measurement temperature:

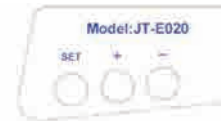


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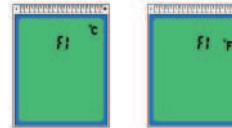
### 10.3.3 Setup:

Long press the setting key for 3 seconds to enter the setting mode or exit the current setting mode; In the setting mode, short press the setting key to select the function option (f1-f2-f3-f4-f5), and press the "+" / "-" key to modify the parameters.



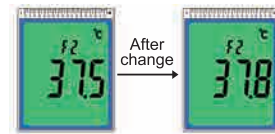
10.3.4 Measurement temperature unit please select (F1):

In normal measurement mode, press the setting key for more than 3 seconds until the LCD displays F1 option; Press "+" to select Celsius (°C), press "-" to select Fahrenheit (°F); Short press the setting key to save the current selection and enter the next option, long press 3 seconds to save the current setting and exit the setting function.



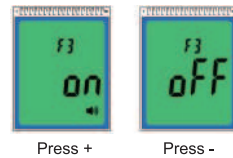
10.3.5 Warning threshold setting (the back-lit displays red color when the measurement exceeds this threshold):

Press the setting key to select the LCD display as F2; Press the "+" / "-" key to modify the alarm temperature value (the lowest alarm is 37 °C); Short press the setting key to save the current selection and enter the next option, long press 3 seconds to save the current setting and exit the setting function.



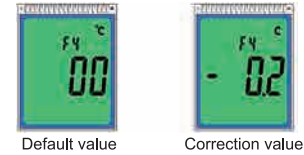
#### 10.3.6 Buzzer setup:

Press the setting key to select LCD display as F3; Press "+" to select buzzer on, press "-" to select buzzer off; Short press the setting key to save the current selection and enter the next option, long press 3 seconds to save the current setting and exit the setting function.



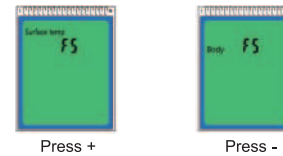
#### 10.3.7 Error correction settings:

Press the setting key to select LCD display as F4; Press the "+" / "-" key to set the correction value (range - 3.0 °C - + 3.0°C; for example, the measured result of the human body in a special environment is 35.9 °C, while the actual temperature is 36.6°C. In this state, the temperature value can be adjusted to the correct 36.6 °C via the value set by "F4", to obtained the correct temperature value.); Short press the setting key to save the current selection and enter the next option, long press 3 seconds to save the current setting and exit the setting function.



#### 10.3.8 Object / human body temperature conversion:

Press the setting key to select LCD display as F5; Press the "+" key to select the object temperature, and press the "-" key to select the human body temperature; Short press the setting key to save the current selection and enter the next option, long press 3 seconds to save the current setting and exit the setting function.



## 11. Reference temperature

### 11.1 Normal body temperature range at different measurement locations.

The human body is a very complex biological comprehensive system. Body temperature is an important data indicating whether human life activities are normal. Usually we measure our health by measuring the temperature of the forehead, cochlea, anus, mouth and armpit. It is measured in different parts. Body temperature will vary, please refer to the table below for specific differences:

Measurement Parts	Normal Temperature(°C)	Normal Fahrenheit(°F)
Anus	36,6-38	97,8-100,4
Oral cavity	35,5-37,5	95,9-99,5
Armpit	34,7-37,3	94,4-99,1
Ear	35,8-38	96,4-100,4
Forehead	36-37,2	97,4-98,4

#### 11.2 Normal body temperature range at different ages

A person's body temperature changes at different times of the day, and is also affected by other external conditions, such as age, gender, skin color, fatness, etc. For the normal temperature range of different age groups, please refer to the table below:

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

Note:

Women's body temperature is different from men's, generally about 0.3 °C higher than men's, body temperature during ovulation will rise 0.3 °C -0.5 °C than usual.

#### 12. Advice

- The protective glass outside the LCD frame is very important, and it is also the fragile part of the instrument. Please use it carefully.
- Do not charge non-rechargeable batteries and do not throw them into fire.
- Do not expose the product to the sun, and do not touch the water.

### 13. Care and Maintenance

#### 13.1 Product care and cleaning

- 1) The probe part is the most precise part of the product and must be carefully protected.
- 2) Do not use abrasive cleaners to clean the product.
- 3) Never immerse the product in water or other liquids.
- 4) Keep this product in a dry place to avoid dust, pollution and direct sunlight.
- 5) Please clean the non-contact electronic thermometer regularly, usually once a month. If necessary, you can clean it properly according to the actual soiling of the product. Use a dry soft cloth to clean the non-contact electronic thermometer. If the instrument is extremely dirty, use a cotton cloth or cotton swab with an alcohol content of 70% to clean and disinfect the case and sensor head (the infrared detector cannot be wiped). Be careful not to allow liquid to penetrate the inside of the thermometer.

#### 13.2 Product Maintenance

If you encounter the following problems during use, please follow the instructions in the maintenance instructions to find a solution. If the problem persists, please contact our customer service.

##### 1) LCD cannot display the value

If it is lower than 32°C or higher than 42.9°C in the body measurement state, the LCD will not display data, and display "Lo" or "Hi".

##### 2) LCD display message "Hi"

Use non-contact electronic body temperature timer, LCD display message "Hi", indicating that it has exceeded the measurement range or the temperature is higher than 42.9°C in human temperature measurement mode.

##### 3) LCD display message "Lo"

Using a non-contact electronic body temperature timer, the LCD displays the message "Lo", indicating that the measurement temperature is lower than the measurement range or the temperature is lower than 32°C in the human body temperature measurement mode.



The information "Lo" or "Hi" appears in the following situations for reference:

Reasons for "Lo" or "Hi"	Advice
Temperature value is affected by hair and sweat.	Ensure no obstructions during temperature measurement.
Temperature is affected by changes in airflow.	Ensure that the air remains stable during temperature measurements.
The measurement distance is too far.	Please note that the measurement distance should not be greater than 5 cm.
Enter indoors from low or high temperature outdoors.	Please wait for 10 minutes and wait for the subject's temperature to adapt to the measurement environment before measuring.

#### 14. Waste disposal instructions

- Disposing electronic products and batteries directly in the trash can cause harm to the environment. Please dispose of them in accordance with the laws in your area.
- Do not discard the non-contact electronic thermometer at the end of its use. Please dispose of it according to the laws in your area, or contact the manufacturer for recycling.

#### 15. Electromagnetic compatibility warning

 **Note:**






- The non-contact electronic thermometer meets the requirements of IEC60601-1-2:2004 standard electromagnetic compatibility.

- The user should install and use the electromagnetic compatibility information provided in the random files.
- Portable and mobile RF communication equipment may affect the performance of non-contact electronic thermometers, and avoid strong electromagnetic interference when using, such as near mobile phones, microwave ovens, etc.
- Guidelines and manufacturer's declarations are detailed in the attachment.

 **Warning:**

- The equipment or system should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed to verify that it can operate normally in the configuration in which it is used.

#### 16. Symbol Description


Symbol Graphics	Meaning	Symbol Graphics	Meaning
	Note, refer to the attached file		Refer to manual
	Low voltage alert		BF type application part
	Trash can		

#### 17. Product accessories list

1 Thermometer, 1 Manual, 1 Certificate, 1 Pair of 7 Battery.

**EMC Declaration**

Guidance and manufacturer's declaration – electromagnetic immunity			
The "JT-E020" is intended for use in the electromagnetic environment specified below. The customer or the user of the "JT-E020" should ensure that it is used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – guidance
Electrostatic discharge (ESD) IEC61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	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 power supply lines ±1 kV for input	Not Applicable	Mains 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	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on 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 sec	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the "JT-E020" requires continued operation during power mains interruptions, it is recommended that the "JT-E020" be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/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 "JT-E020" is intended for use in the electromagnetic environment specified below. The customer or the user of the "JT-E020" should ensure that it is used in such an environment.			
Immunity Test	IEC 60601 Test level	Compliance Level	Electromagnetic Environment – guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the "JT-E020", including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance
Conducted RF IEC 61000-4-6	3 Vrms150 kHz to 80 MHz	Not Applicable	$d = [ 3,5 ] \sqrt{P} V1$ $d = [ 3,5 ] \sqrt{P} 80MHz$ to 800MHz E1 $d = [ 7 ] \sqrt{P} 800MHz$ to 2,5 GHz E1
Radiated RF IEC 61000-4-3	3 V/m80 MHz to 2,5 GHz	3 V/m	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 should be less than the compliance level in each frequency range. <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol 

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 "JT-E020" is used exceeds the applicable RF compliance level above, the "JT-E020" should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the "JT-E020".
b	Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

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 80 MHz and 800 MHz, 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.

**Use period: 3 years**  
**Manual version: V1.0**  
**Manual preparation date: February 25, 2020**

Recommended separation distances between portable and mobile RF communications equipment and the JT-E020			
The "JT-E020" is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the JT-E020 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the "JT-E020" 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		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,5 GHz
0,01	/	0,12	0,23
0,1	/	0,38	0,73
1	/	1,2	2,3
10	/	3,8	7,3
100	/	12	23