

User manual

Peace of mind

Wireless Thermometer

Product model: UCT-CMT1
Version: V1.0

Precaution ! ! !

In order to avoid unnecessary issues, please read the following information before using the wearable thermometer.

1. Warning: Any form of modification to this device is forbidden.
2. To avoid risk of explosion, do not use device with flammable anesthetic gas.
3. A qualified doctor should make the diagnosis of clinical manifestation and symptoms, with device as a subsidiary tool.
4. Please check device regularly to make sure that it is in firm contact with the skin. Otherwise data may be inaccurate.
5. Soaking device in liquid or disinfectant may lead to incorrect date or breakage.
6. Sudden movement of the users may lead to incorrect data.
7. Make sure to keep receiver charged when using it to monitor body temperature for a long period time
8. The temperature monitoring feature of device is primarily applicable to children. Muscle and fat affect wireless transmission, so range of transmission decrease if an adult or obese child uses device.
9. Pay attention to operating temperature and humidity. Using device in conditions that do not satisfy requirements may lead to measurement error.
10. Device is for indoor use only.
11. DO NOT apply pressure to device. If the cover is broken, stop using the device.
12. DO NOT use device together with MRI or CT equipment.
13. DO NOT use the patch for any other purpose besides measuring human body temperature.
14. DO NOT place the patch over wounds, sores or abrasions.

15. DO NOT excessively bend or twist the patch prior to application.
16. DO NOT immerse the patch in water. Patch may be removed for a bath or shower and then re-applied afterwards.
17. DO NOT use the patch if it has been damaged or immersed in water.
18. DO NOT attempt to take apart the patch.
19. DO NOT wear successive patches under the same arm. When removing one patch and starting another, place the second patch on the other side of the body.

Package contents

1. Baby thermometer host x 1pc
1. CR2025 battery x 1pc
2. Silicon rubber case x 1pc
3. Medical Patches x 10pcs
4. User manual x 1pc

Functional description

1. Monitoring and recording
APP can monitor body temperature continuously and keep data record for your doctor reference when needed any time.
2. Reminding
When body temperature reaches threshold you already set up;
when your phone is out of the "thermometer" Bluetooth range;
When medicine is administered;
When the device is in a low battery;
3. Remote Monitoring via WIFI
WIFI connectivity (connect via Bluetooth to thermometer) allow to access real time data with another smart phone which connects to the WIFI network.
4. Remote Monitoring via Sever
One smart phone via Bluetooth access real time data indoor and login in account, when another phone with same app and login in same account then can share any data. Ease at work. (待核对)

Specifications

Product name: Wireless Thermometer

Product model: UTC-CMT1

Battery : 3V CR2025 (Can be replaced)

Battery life: 150 days at 8 hours per day

Product dimension: 45 X 27 X 6 (mm)

Weight :7g (Excluding rubber case)

Response time :10S

Measurement range:25°C-45°C

Accuracy : $\pm 0.05^{\circ}\text{C}$ (35°C-38.5°C), $\pm 0.1^{\circ}\text{C}$ (<35°C and >38.5);

Or $\pm 0.09^{\circ}\text{F}$ (95°F-101.3°F), $\pm 0.18^{\circ}\text{F}$ (<95°F and >101.3°F)

Operation environment: Temperature 5°C-40°C(41°F-104°F),

Humidity:15%RH - 85%RH

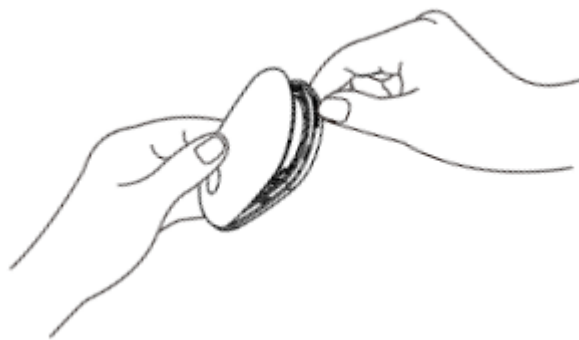
Receiver: iOS: BLE4.0&iOS8.0 and above

Android: BLE4.0&Android4.3 and above

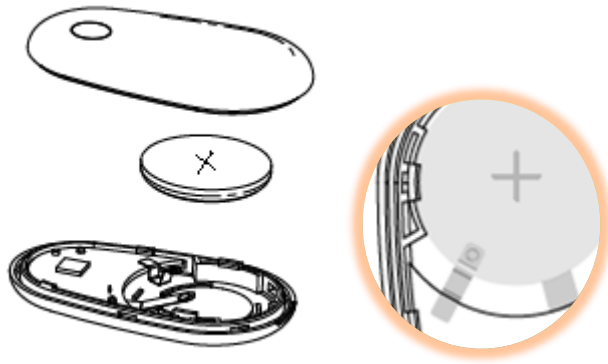
Getting Started

1.Insert Battery

-Take the rubber case off and find the "Opening position" on side of host to open case even using your fingernail.



-Put the battery in (+ - attention) then close the case .



2.Download APP

-Scanning the QR code
(QR code need)

Or search for **"Baby thermometer"** in Google play or Apple store.

-Download and install APP on your smart phone.

3.Setting up connection

-Turn on your smart phone and its Bluetooth.

-Switch on the device (Press the button for 2 seconds. A single LED blink in Blue 5times quickly indicates power is on.)



-Open the **"Baby thermometer"** APP and create a new user.

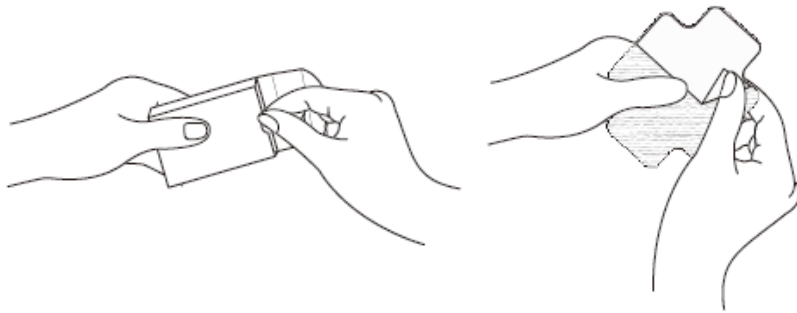
-Connection will be established automatically and APP synchronize the current data.

For the most accurate results, make sure the device has been at room temperature for at least 5 minutes before using it.

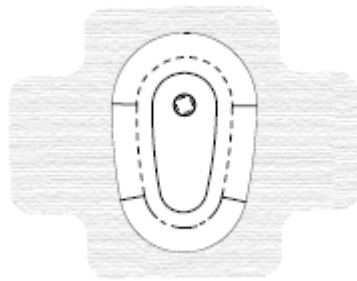
4.Wearing preparation

Make sure the device being on power before followings :

-Take one patch from box and remove the cover away.

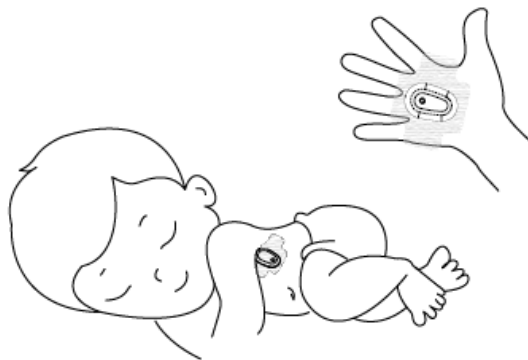


-Face the temperature sensor up and stick the other side (with button) to the patch. Make sure the device is in the center of the patch.



5.Wearing

-Lift the arm naturally then apply the device just below the armpit.



-Hold arm tight against side for at least 8 minutes.

Note:

-Make sure the area of the skin that contacts with the device stays flat and smooth.

-Make sure the device taken the rubber case on when working for child.

6.Switch the device off

Press the button 2 seconds a single LED blink in RED indicates power is off.

Make us feel at ease even forget turning device off after using ,since “thermometer” will switch off in **2mins** automatically when monitor less **30°C(____°F)**.

Warning: Children **MUST** be used with the help of the guardian.

Maintenance

The probe should be cleaned and disinfection.

- Replace the battery when low battery is indicated on app, otherwise the device will not function as intended.
- Clean the surface of the device and rubber case with 75% concentrated medicinal alcohol before and after using.
- Do not soak the device in any liquid.
- Do not sterilize or use an autoclave on the device.
- If you notice any deterioration or damage, stop using the device immediately.

Troubleshooting

1.The device is not switched on?

Please check if low or no battery power. If yes, please replace battery.

2.App cannot read data?

Please check if device switch on and worn correctly; if your phone’s Bluetooth on; if the deice and your phone being on valid range.

3.Unusual temperature data?

Please check the wearing position; make sure held tight for first 8mins; make sure device already being indoor for 5mins before using.



Read instructions before use.



Device classification: Type BF



Waste Electrical and Electronic Equipment Directive



EMC DESCRIPTIONS

The EMC declaration according to the requirement of EN 60601-1-2

Cautions:

- User must regard EMC, please install and put in service **K-020** according to the EMC information provided in the accompanying documents.
- Portable and mobile RF communications equipment can affect medical electrical equipment.
- The performance of the EQUIPMENT and SYSTEM that was determined to be essential performance.
- Table 201-Guidance and manufacturer's declaration-electromagnetic emissions-for **K-020, as following table.**
- Table 202-Guidance and manufacturer's declaration-electromagnetic immunity -for **K-020, as following table.**
- Table 204 -Guidance and manufacturer's declaration-electromagnetic immunity -for **K-020, as following table.**
- Table 206 Recommended separation distances between portable and mobile RF communications equipment and **K-020, as following table.**

Table 201

Guidance and manufacturer's declaration – electromagnetic emissions		
The K-020 is intended for use in the electromagnetic environment specified below. The customer or the user of the K-020 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The K-020 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 K-020 is suitable for use in all establishments, including domestic establishments.
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 202

Guidance and manufacturer's declaration – electromagnetic immunity			
The K-020 is intended for use in the electromagnetic environment specified below. The customer or the user of the K-020 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	$\pm (2, 4, 6)$ kV contact $\pm (2, 4, 8)$ kV air	$\pm (2, 4, 6)$ kV contact $\pm (2, 4, 8)$ 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/output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	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	$< 5\%$ U_T ($> 95\%$ dip in U_T) for 0,5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the K-020 requires continued operation during power mains interruptions, it is recommended that the K-020 be powered from an uninterruptible power supply or a battery.

	<5 % UT (>95 % dip in UT) for 5 sec		
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/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.			

Table 204

Guidance and manufacturer's declaration – electromagnetic immunity			
The K-020 is intended for use in the electromagnetic environment specified below. The customer or the user of the K-020 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 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	Not applicable 3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the K-020, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1,2\sqrt{P}$ $d = 1,2\sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2,3\sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>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).</p> <p>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^s</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p>


			
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.			
<p>^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 K-020 is used exceeds the applicable RF compliance level above, the K-020 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the K-020.</p>			
<p>^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Table 206

Recommended separation distances between portable and mobile RF communications equipment and the K-020			
The K-020 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the K-020 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the K-020 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		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,5 GHz
	$d = 1,2\sqrt{P}$	$d = 1,2\sqrt{P}$	$d = 2,3\sqrt{P}$
0,01	0.12	0.12	0.23
0,1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	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 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.

Manufacturer

Company Name: Ultra Creation Limited

Address: Unit 10-18, 32/F, Tower 1, Millennium City 1,
388 Kwun Tong, Kowloon, Hong Kong

www.ultracreation.com.hk

EC Representative (详细特定)

Representative Name:

Address:

Contact person:

Telephone No:

Fax No:

Email:

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Caution:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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

RF Exposure

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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