



Touch-free Infrared Thermometer



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Instruction Manual

Introduction

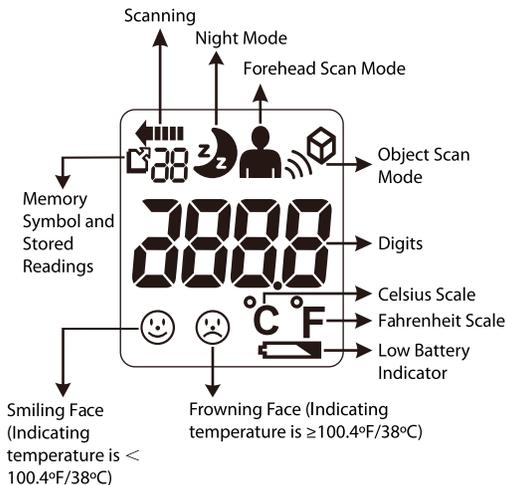
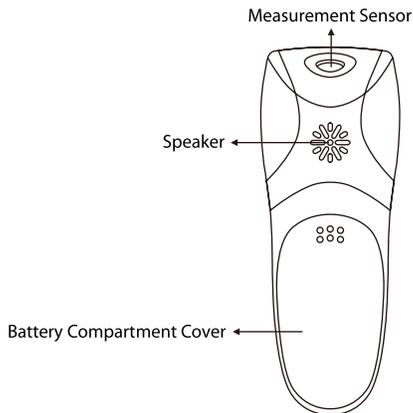
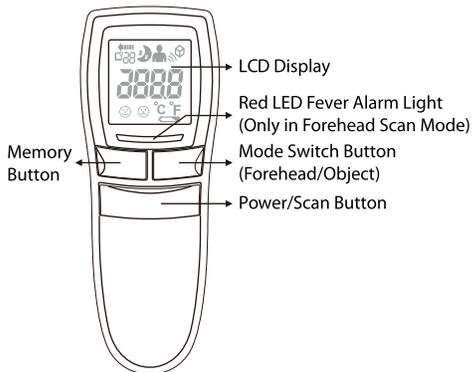
Thank you for purchasing 1byone Touch-free Infrared Thermometer. This home thermometer utilizes infrared technology to measure the surface temperature of both human skin as well as heat generated by other objects' surfaces, such as a baby bottle.

READ ALL INSTRUCTIONS BEFORE USE AND SAVE THIS MANUAL FOR FUTURE REFERENCE.

When using this product, please be sure to follow all the instructions listed below. Not following these instructions may lead to injury or affect thermometer accuracy.

1. Do not disassemble, repair, or remodel the thermometer.
2. Be sure to clean the thermometer lens each time after use.
3. Avoid direct finger contact with the lens.
4. No modifications to this thermometer are allowed.
5. It is recommended to take 3 temperature readings during measurement, using the highest reading.
6. Do not expose the thermometer to extreme temperature, very high humidity, or direct sunlight.
7. Avoid extreme shocks to the thermometer. Carefully hold the thermometer to avoid dropping it.
8. If the thermometer or person being measured moves from one environment to another with different ambient temperatures, it is recommended to wait 30 minutes before measuring.
9. Avoid taking readings in the 30 minutes after exercise, bathing, or returning from outdoors.
10. To protect the environment, dispose of used batteries at appropriate collection sites according to national or local regulations.
11. Please use the thermometer only for its intended purpose.
12. Allow one minute between successive readings as slight variations may occur if readings are taken too quickly one after the other.
13. There are no absolute body temperature standards. Keep reliable personal records as a reference to help judge possible fevers.
14. Do not use temperatures from the thermometer as the ONLY reference before taking any medical action. Always consult a medical physician before deciding any medical actions.

Product Description

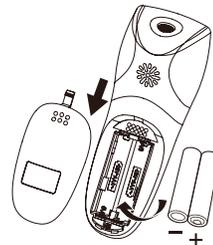


Installing Batteries

1. Remove the battery cover by gently sliding it down.
2. Place two AAA batteries into the battery compartment using correct polarities.
3. Close the battery cover by sliding it up until it clicks.

Note:

Please remove the batteries if the thermometer will not be used for a long period of time.



Low Battery Warning:

The LCD will display " if the voltage of the batteries becomes low. The thermometer can still be used during this time, but the batteries should be replaced as soon as possible. The LCD will display "Lo" and " if the batteries run out of power completely. In this case, the batteries will need to be replaced before the thermometer can be used again.

Changing Between °F and °C

Select the preferred temperature unit using the steps below.

1. When the screen is on, press and hold both the Mode Switch button and Memory button for 3 seconds. The LCD display will flash between °F and °C. Release the buttons when the desired unit is being shown on the display.
2. Once selected, the thermometer is ready for use.



Changing The Scan Mode



Forehead Scan Mode



Object Scan Mode



Forehead/Night Mode



Object/Night Mode

1. When the screen is on, press the Mode Switch button to switch between different scan modes. There are 4 modes: Forehead, Object, Forehead/Night and Object/Night mode.
2. The thermometer will make a 'beep' sound when taking readings in Forehead and Object scan mode. The thermometer will be silent when taking readings in the two night modes. These night modes allow the thermometer to be used in quiet environments, such as around sleeping babies.

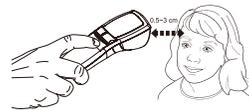
Tips for Measuring Forehead Temperature

- Attempting to take temperature readings from sites on the body other than the forehead may produce inaccurate results.
- The person being measured should remain still while the reading is being taken.
- Infrared forehead temperature readings are equivalent to oral temperature readings. Please consult a medical professional before taking medical actions based on the readings.
- Readings taken while asleep should not be compared directly to readings taken while awake, as body temperature is typically lower while asleep.
- Do not take body temperature readings within 30 minutes of being outdoors, exercising or bathing.

- If the thermometer is moved from one environment to another with a different ambient temperature, it is recommended to wait 30 minutes before measuring.

Measuring Forehead Temperature

1. Press the Power button to turn on the thermometer. The thermometer will run a self-test and all symbols will momentarily appear on the display.
2. Make sure Forehead Scan mode is selected.
3. Aim the measurement sensor at the center of the forehead, holding the thermometer approximately 0.2"~1.2" (0.5~3cm) from the forehead. The thermometer should not touch the forehead.



4. Press and release the Scan button. The thermometer will 'beep' and display the measured temperature.
5. The thermometer may be removed from facing the forehead after the thermometer 'beeps'.
6. If the temperature reading is below 100.4°F (38°C), a smiling face ☺ will appear next to the reading. If the reading is 100.4°F (38°C) or above, a frowning face ☹ will appear and the red LED will light up warning of a fever.

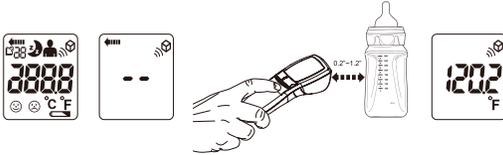


7. The thermometer will automatically 'beep' and shut off after 30 seconds of inactivity.

NOTE: Measuring range: 93.2°F~109.4°F/34°C~43°C. The fever alarm is only active in Forehead Scan mode and Forehead/Night mode.

Measuring Object Temperature

1. Press the Power button to turn on the thermometer.
The thermometer will run a self-test and all symbols will momentarily appear on the display.
2. Make sure Object Scan mode is selected.
3. Aim the measurement sensor at the object, holding the thermometer approximately 0.2"~1.2" (0.5~3cm) from the object. The thermometer should not touch the object.
4. Press and release the Scan button. The thermometer will 'beep' and display the measured temperature.

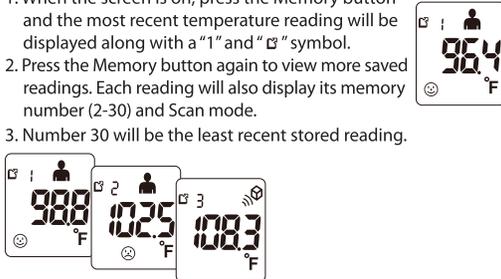


5. The thermometer may be removed from the object after the thermometer 'beeps.'
6. The thermometer will automatically 'beep' and shut off after about 30 seconds of inactivity.

NOTE: Measuring range: 32°F~212°F/0°C~100°C.

Memory Function

1. When the screen is on, press the Memory button and the most recent temperature reading will be displayed along with a "1" and "M" symbol.
2. Press the Memory button again to view more saved readings. Each reading will also display its memory number (2-30) and Scan mode.
3. Number 30 will be the least recent stored reading.



Deleting Saved Readings

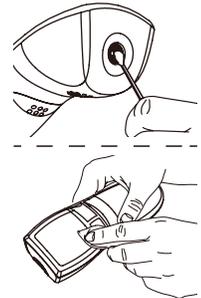
1. When the screen is on, press and hold the Memory button for more than 3 seconds to delete all stored readings.
2. A "--" will be displayed and four short 'beeps' will sound to indicate all stored measurements have been deleted.

Error Messages

| Symbol | Cause | Solution |
|--------|---|---|
| H1 | The temperature measured is higher than: Measuring Forehead mode: 109.4°F (43°C) Measuring Object mode: 212°F (100°C) | Operate the thermometer only between the specified temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact Customer Service. |
| Lo | The temperature measured is lower than: Measuring Forehead mode: 93.2°F (34°C) Measuring Object mode: 32°F (0°C) | Operate the thermometer only within the specified ambient temperature range. |
| Err | The ambient temperature is not in the normal operating range from 59°F~95°F (15°C~35°C) | Operate the thermometer only within the specified ambient temperature range. |

Care and Maintenance

Lens/Measurement Sensor: Gently clean with an alcohol swab. Do not use water to wash the thermometer lens directly.



Thermometer: Clean with a soft, dry cloth. Do not use water to rinse the thermometer.

Specifications

| | |
|-----------------------------------|---|
| Power Supply | 2 x 1.5V AAA alkaline batteries |
| Operating Distance | 0.2"~1.2" (0.5~3cm) |
| Measuring Range | Forehead mode: 93.2°F~109.4°F/34°C~43°C Object mode: 32°F~212°F/0°C~100°C |
| Calibration Accuracy | Forehead mode: 95°F~107.6°F ± 0.2°F 35°C~42°C ± 0.2°C Object mode: ≤104°F ± 35.6°F >104°F ± 5% |
| Measurement Resolution | 0.1°F/0.1°C |
| Operating Conditions | Temperature: 59°F~95°F/15°C~35°C Humidity: <95%RH, non-condensing |
| Storage/Transportation Conditions | Temperature: -13°F~131°F/-25°C~55°C Humidity: <95%RH, non-condensing |
| Weight | Approx. 2.82oz/80g (with batteries) |
| Dimensions | 5.1" x 1.9" x 1.5" (128.5 x 48.8 x 38.8mm) |

Complied Standards

This product conforms to the provisions of the EC directive MDD (93/42/EEC). The following standards apply to design and/or manufacturer of the product:

- **ISO 14971**

Medical devices-Application of risk management to medical devices. The Classification according to IEC/EN 60601-1 sub-clauses 5:

- Internally powered equipment
- IPX0
- Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide
- Continuous operation
- **ISO 80601- 2- 56**

| | |
|---|--|
|  | TUV NO. |
|  | Refer to instruction |
|  | Type BF equipment (sensor) |
|  | The device shall be disposed in accordance with national laws after their useful lives |
|  | Manufacturer's name and address |
|  | Wellkang Ltd 29 Harley st. W1G 9QR LONDON, U.K. |
| IP 22 | An IP22 rating means the product is protected from 12.5mm or greater foreign objects and vertical drip with the product tilted 15° |

| Guidance and manufacturer's declaration – electromagnetic emission | | |
|--|----------------|--|
| The thermometer is intended for use in the electromagnetic environment specified below. The customer of the user of the device should assure that it is used in such an environment. | | |
| Emission test | Compliance | Electromagnetic environment – guidance |
| RF emissions CISPR 11 | Group 1 | The 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. |
| RF emission CISPR 11 | Class B | The thermometer is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| 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 | | | |
|---|----------------------------|----------------------------|---|
| 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 | Electromagnetic environment - guidance |
| Electrostatic discharge (ESD) IEC 61000-4-2 | ±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%. |
| Power frequency (50Hz/60Hz) 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. |

| Guidance and manufacturer's declaration – electromagnetic immunity | | | |
|---|-------------------------------|------------------|---|
| The thermometer 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 | Electromagnetic environment - guidance |
| Radiated RF IEC 61000-4-3 | 3 V/m 80 MHz to 2.5 GHz | 3 V/m | <p>Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance $d=1,2\sqrt{P}$ $d=1,2\sqrt{P}$ 80MHz to 800 MHz $d=2,3\sqrt{P}$ 800 MHz to 2,5 GHz</p> <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 metres (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.</p> <p>b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> |
| <p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> | | | |
| <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 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.</p> <p>b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p> | | | |

| Recommended separation distances between portable and mobile RF communications equipment and the device. | | | |
|--|---|-------------------|--------------------|
| The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device 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 |
| | $d=1,2\sqrt{P}$ | $d=1,2\sqrt{P}$ | $d=2,3\sqrt{P}$ |
| 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 |
| <p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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>NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> | | | |

Disposal

Disposal of the Product



Under no circumstances should you dispose of the product in normal domestic waste.
This product is subject to the provisions of European Directive 2012/19/EU.

Dispose of the product via an approved disposal company or your municipal waste facility. Please observe currently applicable regulations.

Please contact your waste disposal center if you need any further information.

Disposal of Batteries



Used batteries may not be disposed of in household waste.

All consumers are statutorily required to dispose of batteries at a collection point provided by their local municipality or retail store.

The purpose of this obligation is to ensure batteries are disposed of in a non-polluting manner. Only dispose of batteries when they are fully discharged.



The product's packaging is made from environmentally friendly material and can be disposed of at your local recycling plant.

Customer Service/Kundenservice Service Clients/Atención al cliente Assistenza Clienti/カスタマーサービス

US

To ensure speedy handling of your issue, please call or email us for assistance.
Phone: +1 909-391-3888
(Mon-Fri 9:00am - 6:00pm PST)
Email: ushelp@1byone.com

CA

To ensure speedy handling of your issue, please email us for assistance.
Email: cahelp@1byone.com

UK

To ensure speedy handling of your issue, please call or email us for assistance.
Phone: +44 158 241 2681
(Mon-Fri 9:00am - 6:00pm UTC)
Email: ukwebhelp@1byone.com

DE

Für eine zügige Bearbeitung ihres Problems, melden Sie sich bei uns wie folgt.
Email: euhelp@1byone.com

FR

Pour vous assurer une assistance rapide en cas de problème, veuillez envoyer un e-mail.
Email: euhelp@1byone.com

ES

Para garantizar una rápida atención de su problema, favor envíenos un email para ayudarlo.
Email: euhelp@1byone.com

IT

Per supporto immediato in caso di bisogno, la invitiamo a contattarci via email.
Email: euhelp@1byone.com

JP

お客様の問題が直ちに解決されるため、ぜひメールにて弊社までご連絡ください。
Eメール：jphelp@1byone.com