

## Instruction manual

Non-contact infrared thermometer

Model: AET-R161

This equipment supports Bluetooth connect mobile terminals

Thank you for choosing our Non-contact infrared thermometer, type AET-R161. Please read this manual before use.

### Product information

Name: Non-contact infrared thermometer

Mode: AET-R161

Manufacturer: Alicn Medical (Shenzhen), Inc.

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Website: <http://www.alicn.com>

### Caution

1. The device complies with RF specifications when the device used at 0mm from your body. This product can be used across EU member states.
2. This thermometer is calibrated at the time of manufactured, if the thermometer is use according to the instruction, periodic recalibration is not required. Do not scratch the probe, or may cause inaccuracy.
3. This thermometer is intended for household and clinic use.
4. Remove the batteries if the thermometer is not going to be used for long period time.
5. 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. This device should be installed and operated with minimum distance 0mm between the radiator & your body.

## Recommendations

Don't use this product for other purposes

Children less than 11years use this unit must be accompanied by adult

It is not waterproof device. Clean it only with damp cloth gently

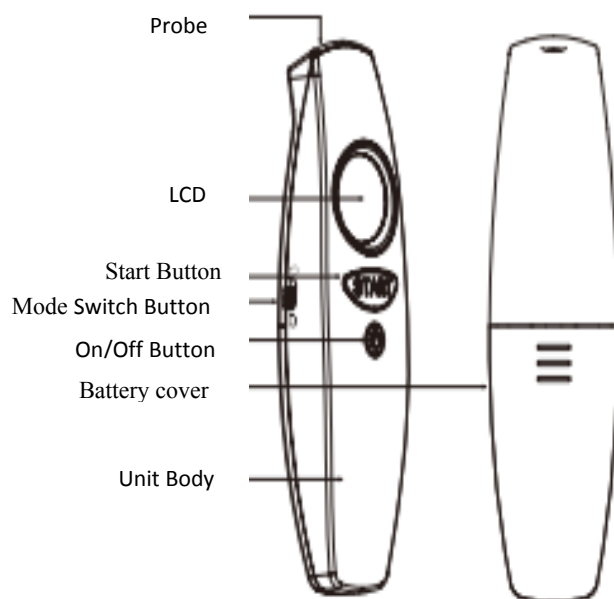
It is forbidden to leave the product exposed to any chemical solvent, direct sunlight or high temperature

Do not drop, tramp or impose any vibration or impact on the product

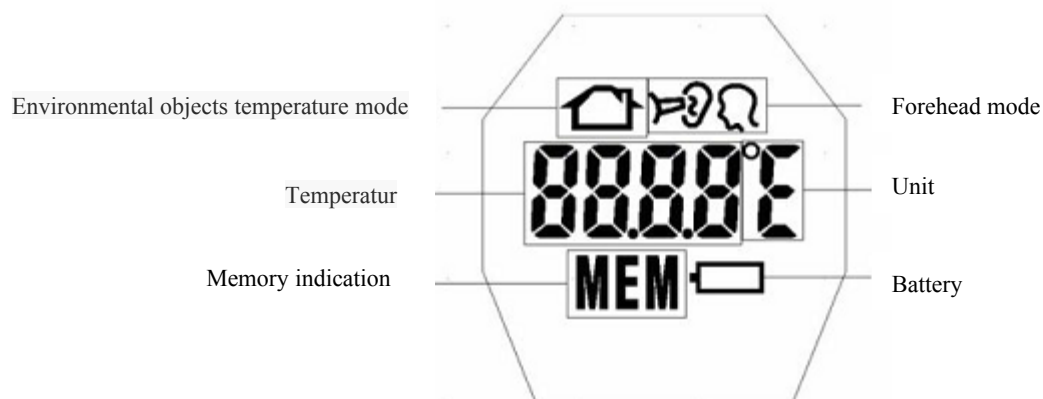
If you are not going to use this thermometer for a long period of time Please take out the batteries

When dealing with disused battery, please refer to the native laws and environment regulations

## Unit description



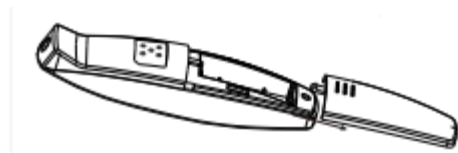
## LCD Display



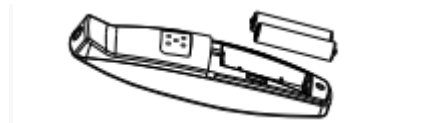
### Load and replace the battery

When the low voltage symbol “” is flashing, replace the battery immediately. The steps showed as follows:

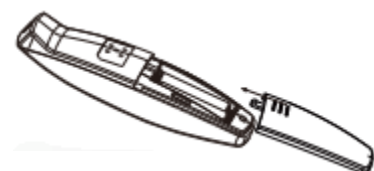
Press the cover of the battery, and push it down, then the battery cover is pushed away



Place two AAA batteries according to the current negative pole



Close the battery cover



### Directions for use

Before measuring, you need to notice:

1. Recommend try it out before formal measurement, so as to operation this thermometer familiarly.
2. Don't expose the thermometer to temperature extremes (below -20°C/4°F, or over 50°C/122°F) or humidity extremes (below 15%RH or over 95%RH). Please place the thermometer in the temperature range 16°C~35°C at least rest 30 minutes before start measuring, failing to do may cause inaccuracy
3. Don't use the thermometer under temperature extremes (below 0°C/32°F or over 100°C/212°F) or humidity extremes (below 15%RH or over 85%RH)
4. The user should stay indoors at least 20 minutes to balance the body temperature
5. After strenuous exercise, rest at least 30 minutes before taking the measurement
6. Better repeat the measurement at least twice In order to get the most accurate temperature, and please remove the probe and wait at least 5 seconds before repeat the measurement, failing to do may cause inaccuracy
7. Normal body temperature is about 35.5°C~37.8°C, regular temperature measurement help to know about your healthy temperature.
8. Clean the infrared sensor with a soft cloth moistened with some clinical alcohol in a gentle manner after every measurement, failing to do may cause inaccuracy
9. Don't touch or blow infrared sensor, or may cause inaccuracy
10. This product is taken to measure human body temperature by measuring the forehead temperature
11. During the measurement, move the temperature away immediately after hear a “beep”, or may

cause inaccuracy

Connect the Bluetooth:

1. Turn on the thermometer by press the on/off button
2. Turn on the Bluetooth that carried on the mobile terminal, search and connect
3. After measurement, the measurement result transmit to the mobile terminal automatic

Quickly start: this product can booth measure forehead temperature and environmental object temperature (like milk, water)

1. Select measurement pattern

Push the "mode switch" button to the upper end, enter the Forehead measurement pattern.

Push the "mode switch" button to the lower end, enter the Environmental measurement pattern.



2. Turn on the thermometer by press the on/off button



3. Aim the infrared forehead thermometer at the forehead or the environment object, stay a distance of 15mm-50mm



4. Press the start button



5. Read the temperature showed on the LCD



6. Complete the measurement, turn the thermometer off by press the on/off button



**Warning:** Pay attention not to press the on/off button and the start button at the same time.

**Notice:**

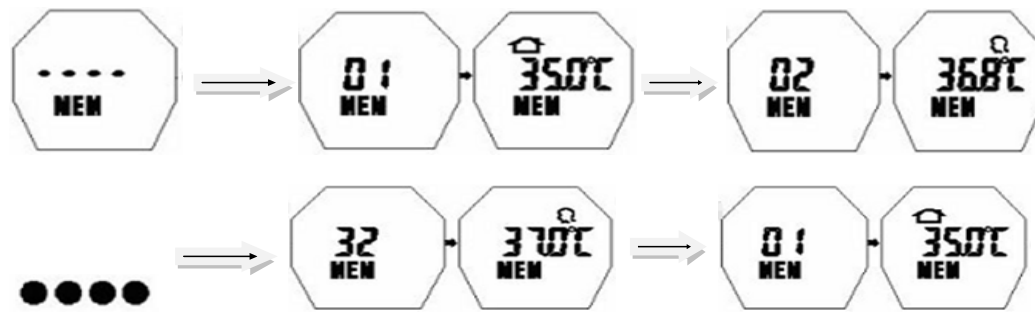
Forehead measurement: blue backlight and LCD indicates “Lo” hint that the temperature is lower than 32.0°C ,two short beeps ,blue backlight and LCD indicates “Hi” hint that the temperature is over than 42.2°C , a long beep and orange backlight hint that the temperature is below 36.0°C , a long beep and blue backlight hint that the temperature is below 37.8.0°C ,six short beeps and red backlight hint that the temperature is equal to or over 37.8°C

Object measurement: LCD display blue backlight at this measure pattern.

### **Recall 32 readings in memory mode**

This thermometer can recall the last 32 readings.

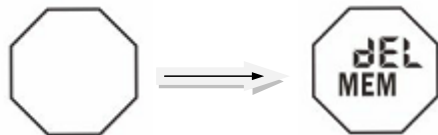
1. Turn off the unit
2. Press the start button enter the memory mode, and press start button again it will display last memory 01.(01 is the last memory)
3. Press the start again button to check next memory



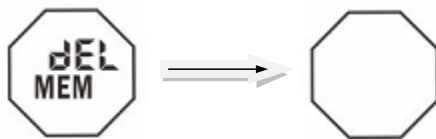
Notice: Automatically turn off after 12 seconds no operation in this pattern

### Delete memory

1. Turn off the unit
2. Press the start button for 4 seconds, LCD display “<sup>MEM</sup>DEL” means enter the delete memory mode



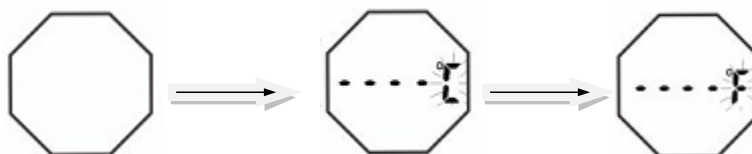
3. Press the start button again, LCD display nothing, means that memory has been deleted



Notice: Automatically turn off after 3 seconds no operation after enter this pattern, and the memory will not be deleted.

### Change between Celsius and Fahrenheit

1. Turn off the unit
2. Press the start button for 8 seconds, LCD display “----°C”, means enter the mode of change between Celsius and Fahrenheit
3. Press the star button again to switch “°C” or “°F”



Notice: Automatically turn off after 3 seconds no operation in this pattern

### Maintenance

1. Remove any stains on the body with a soft dry cloth
2. Always clean the probe, wipe the surface very gently with a cotton swab or soft cloth moistened with clinical alcohol, after the alcohol completely dried out, you can use it
3. Don't wash with water or detergent containing abrasive or benzene
4. Don't immerse in liquids

5. Don't place the equipment under the sunlight, high temperature, moisture, dust, or extrusion environment
6. Do not drop or apart the thermometer
7. If you do not use the thermometer for a long time, please remove the battery.

### Explanation of marks or symbol



Applied part of type BF



Recycling



Environment-friendly use period



Notices: In case of improper use, it may result in personal injury or property damage.



Refer to instruction manual



Don't dispose this product as unsorted municipal waste



CE mark: Conforms to essential requirements of the Medical Directive 93/42/EEC

### Error messages

| Error messages                                                                      | Problem                                                                                                                                      | Solution                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nothing is displaying after on/off Button is press                                  | Battery may be run out                                                                                                                       | Replace the battery, Or check if the battery is inserted correctly or not                                                                                   |
|  | Low batteries                                                                                                                                | Replace a new batteries                                                                                                                                     |
| ErrE                                                                                | EEPROM is abnormal                                                                                                                           | Contact your retailer or customer Services                                                                                                                  |
| Err                                                                                 | Sensor not welded                                                                                                                            | Contact your retailer or customer Services                                                                                                                  |
| Hi                                                                                  | (1)Forehead temperature mode: Temperature is higher than 42.2°C(108°F)<br>(2)Object temperature mode: Temperature is higher than 95°C(203°F) | Operate the thermometer only between the specified temperature ranges. In the event of a repeated error message, contact your retailer or customer Services |
| Lo                                                                                  | (1)Forehead temperature mode: Temperature is lower than 32°C(89.6°F)<br>(2)Object temperature mode: Temperature is lower than 5°C(41°F)      | Operate the thermometer only between the specified temperature ranges. In the event of a repeated error message, contact your retailer or customer Services |

**Technical specifications**

|                                         |                                                                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Name                                    | Non-contact infrared thermometer                                                                                                            |
| Mode                                    | AET-R161                                                                                                                                    |
| Measurement units                       | Celsius(°C) and Fahrenheit(°F)                                                                                                              |
| Operating conditions                    | 10-40°C(5-104°F), 15%-80%RH, 70-106kpa                                                                                                      |
| Storage conditions                      | -20°C -50°C (-4-122°F), 15%RH-80%,70-106kpa                                                                                                 |
| Measurement distance                    | 15-50mm                                                                                                                                     |
| Forehead measurement range and accuracy | Measurement range: 32.0°C-42.2°C (89.6°F-108°F)<br>Measurement accuracy: ±0.2°C(±4°F)<br>In the remaining measurement range: ±0.3°C(±0.5°F) |
| Object measurement range and accuracy   | Measurement range: 5°C-95°C (41°F-203°F)<br>Measurement accuracy: ±1.0°C<br>In the remaining measurement range: ±0.3°C(±0.5°F)              |
| Resolution of display                   | 0.1°C(0.1°F)                                                                                                                                |
| Memories recall                         | 32 measurement recalls                                                                                                                      |
| Display                                 | LCD                                                                                                                                         |
| Dimensions                              | 144*39.5*28mm                                                                                                                               |
| Weight                                  | About 78g (with batteries)                                                                                                                  |
| Battery                                 | DC3V(2×AAA batteries)                                                                                                                       |
| Switch off                              | Automatically turn off after 60 seconds                                                                                                     |
| Included in delivery                    | Non-contact infrared thermometer, user manual                                                                                               |

**Standard List**

Alicn Medical (Shenzhen), Inc. declares that the AET-R161 complies with following applicable standards:

IEC 60601-1, IEC 60601-1-2, IEC 60601-1-11, ASTM E 1965-98, ISO 10993-5, ISO 10993-10 and ISO80601-2-56. FCC rules part15.247

**Disposal**

Dispose of the device in accordance with the regulations applicable at the place of operation.

If you have any queries, please refer to the local authorities responsible for waste disposal.