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.
Address: 4/F, No.5 Building, 2nd Section BaiWangxin Hi-Tech Park, Xili, Nanshan District, Shenzhen City, China
Tel: 0086-0755-26501548   Fax: 0086-0755-26504849   Email: Infor@alicn.com.hk
Website: http://www.alicn.com

Caution
1. The device complies with RF specifications when the device used at 0mm form 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

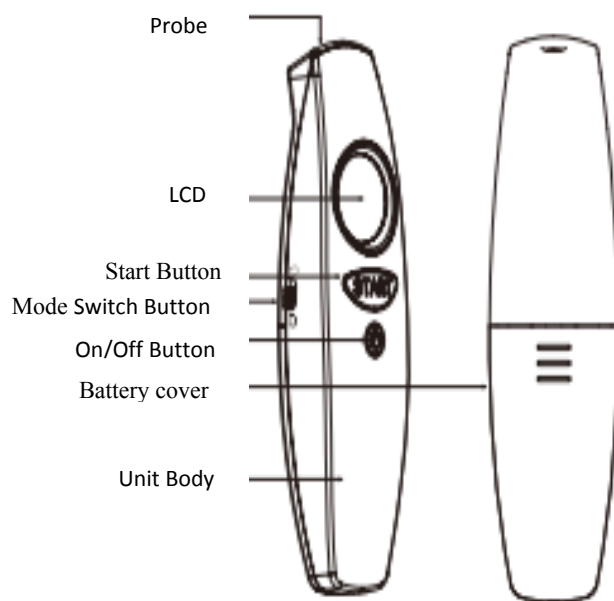It is not waterproof device. Clean it only with damped cloth gently

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

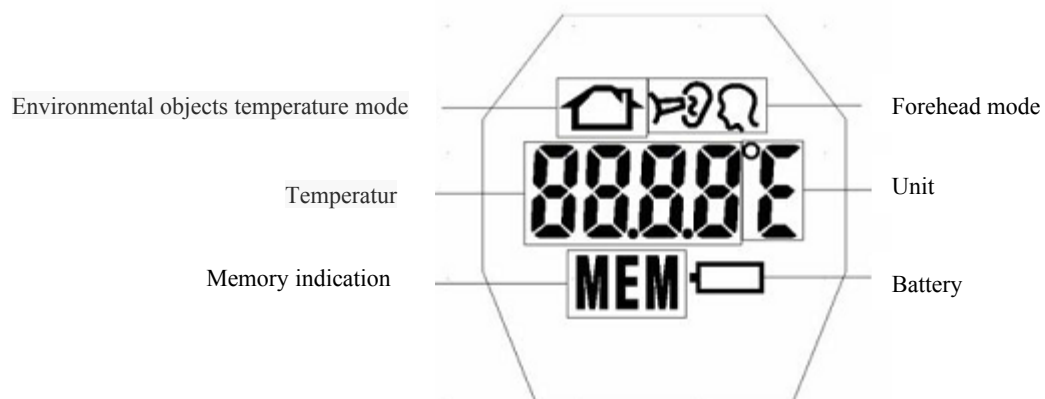Do not drop, tramp or impose any vibration or impact on the product

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
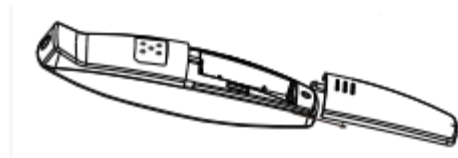
Unit description

Probe

LCD

Start Button
Mode Switch Button
On/Off Button
Battery cover

Unit Body

LCD Display

Environmental objects temperature mode

Forehead mode

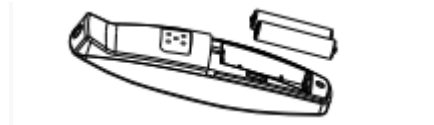Temperatur

Unit

Memory indication

Battery

Load and replace the battery

When the low voltage symbol " ⬜ " is flashing, replace the battery immediately. The steps showed as follows:
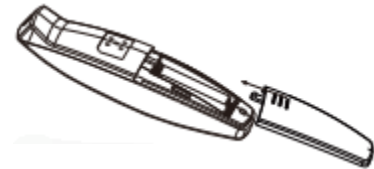
Press the cover of the battery, and push it down, then the battery cover is pushed away

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℃/4℉, or over 50℃/122℉) or humidity extremes (below 15%RH or over 95%RH).Please place the thermometer in the temperature range 16℃~35℃ 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℃/32℉ or over 100℃/212℉) 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℃～37.8℃, 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.
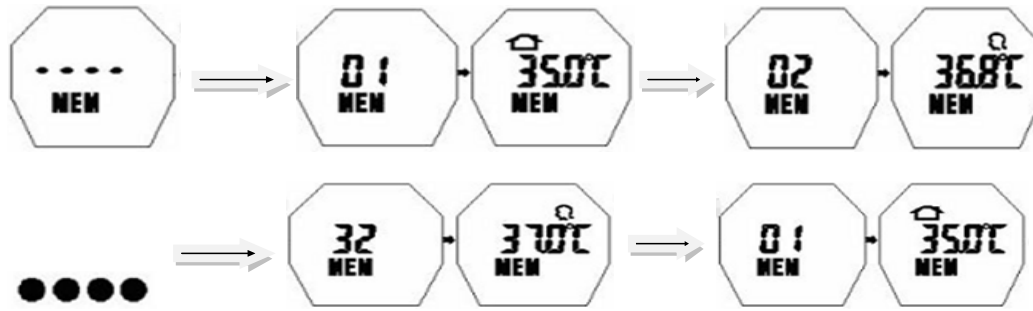Notice:
Forehead measurement: blue backlight and LCD indicates "Lo" hint that the temperature is lower than 32.0℃ ,two short beeps ,blue backlight and LCD indicates "Hi" hint that the temperature is over than 42.2℃, a long beep and orange backlight hint that the temperature is below 36.0℃，a long beep and blue backlight hint that the temperature is below 37.8.0℃,six short beeps and red backlight hint that the temperature is equal to or over 37.8℃
Object measurement: LCD display blue backlight at this measure pattern.

Recall 32 readings in memory mode
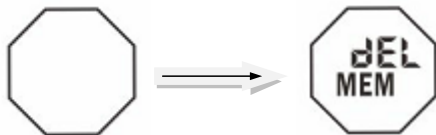This thermometer can recall the last 32 readings.
1. Turn off the unit
2. Press the start button enter the memory mode, and press start button again it will display last memory 01.(01 is the last memory)
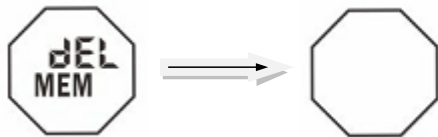3. Press the start again button to check next memory

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 " _{dEL} " means enter the delete memory mode
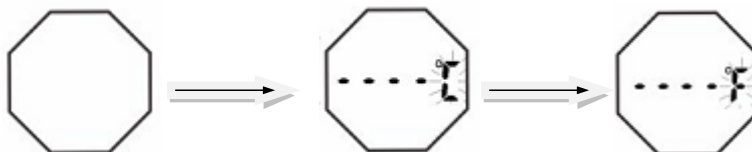

3. Press the start button again, LCD display nothing, means that memory has been deleted

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 "----℃", means enter the mode of change between Celsius and Fahrenheit

3. Press the star button again to switch "℃" or "℉"

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) (2)Object temperature mode: Temperature is higher than95°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) (2)Object temperature mode: Temperature is lower than5°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

Alicn Medical (Shenzhen), Inc.

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℃-50℃(-4-122°F), 15%RH-80%,70-106kpa
Measurement distance	15-50mm
Forehead measurement range and accuracy	Measurement range: 32.0℃-42.2℃（89.6°F-108°F） Measurement accuracy: ±0.2℃(±4°F) In the remaining measurement range: ±0.3℃(±0.5°F)
Object measurement range and accuracy	Measurement range: 5℃-95℃（41°F-203°F） Measurement accuracy: ±1.0℃ In the remaining measurement range: ±0.3℃(±0.5°F)
Resolution of display	0.1℃(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 1SO80601-2-56. 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.