



### Intended use

Thank you for purchasing our Infrared Thermometer, type AET-R1B1. This Infrared Thermometer is a non-sterile, reusable, handheld device. It can be used by consumers in homecare environment and doctors in clinic as reference. It is intended for measuring human body temperature of three months and above of people by detecting infrared heat from the center of the forehead.

-For safe and proper use of this product, be sure to read and fully understand Safety Precautions contained in this user manual.

- Keep this manual with you for a convenient reference.

- Keep this manual in a proper way and avoid any loss.

- If you need other information, please contact the manufacturer (See the PRODUCT INFORMATION).

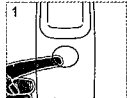


### Quick Start Guide



The correct measurement method to follow: Measure the forehead. Distance 15mm to 50mm

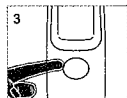
### Correct measurement method



1. Turn the thermometer on by pressing the "ON/OFF/MEASURE" button. To choose mode press "ON/OFF/MEASURE" on the shutoff mode. A beep sound will be heard following which the screen will flash with "--C" indicating the unit is ready for use.



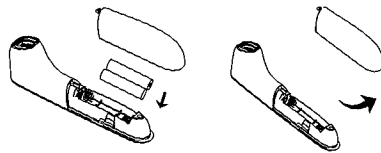
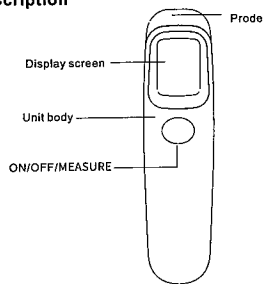
2. Place the thermometer probe point near the forehead and press "ON/OFF/MEASURE" and release after ~ 1 second and the thermometer will beep and display the accurate temperature. Whenever consecutive readings are required, please wait for the "--C" to flash. The above procedure can be repeated as many times as required.



3. To turn off the device press and hold the "ON/OFF/MEASURE" switch for ~ 5 seconds and the thermometer will turn off automatically after ~ 60 seconds.

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### Unit description



Warning: Please take out the battery if you do not use the thermometer for a long time. Please refer to the relevant laws and regulations for the disposal of waste batteries.

### Before take a measurement

- It is suggested to try the device by yourself first, so as to know how to use it.
- In order to avoid affecting accuracy of the device due to the external too cold or too hot environment, it must be placed in general environment of room temperature of 16°C-35°C for at least 30 minutes before use to avoid incorrect measurement results.
- The person measured should be kept at room temperature for at least 20 minutes to make body temperature balanced.
- After strenuous exercise, you should rest for at least 30 minutes before taking measurement.
- Wipe the skin dry and push aside hair strands before commencing.
- When repeated measurements are made continuously, move away the probe between each measurement and rest for at least 5s before making the next to obtain the most correct result.
- The normal reading value is about 35.5°C~37.8°C. The user should take more temperature to know his or her own health temperature. Pay attention to physical changes or consult your doctor if there is any abnormality.
- Check the probe is clean before each measurement to ensure accuracy.

### Correct posture to measure

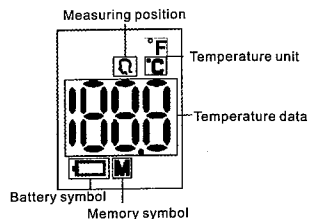
#### Forehead temperature mode



Measure the forehead, the cap must be close to forehead.

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### Display information



Location indication: The icon flashes to indicate the correct measuring position when measuring.

Temperature data indication: The temperature reading is displayed after measuring.

Temperature unit indication: Unit of measuring temperature shows °C or °F.

Low battery symbol indication: the icon prompts you to replace the battery when the power is low.

Memory symbol indication: it shows in memory query mode currently.

### Load and replace batteries

When the battery icon "⎓" is flashing, please replace a new battery immediately. The steps as follow: Press and hold the battery cover, and push it upward diagonally to push the cover away. Install 2\*AAA batteries as shown in the positive and negative pole. Close the battery cover.

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### Instructions for Use

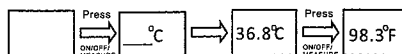
- Turn the thermometer on by pressing "ON/OFF/MEASURE" switch.
  - A beep sound will be then heard and the screen will then flash "--C". The unit is now ready for use. Place the thermometer's probe point to the forehead, press "ON/OFF/MEASURE" and release after ~ 1 second, the thermometer will beep and display the temperature. If a consecutive reading is required then please wait for the degree "C" to flash. Repeat the above procedure as often as required.
  - Press the "ON/OFF/MEASURE" switch for 5 seconds to turn off the thermometer. Or the unit will switch off automatically after 60 seconds.
- If a reading below 32°C is recorded a "Lo" sign will be displayed followed by 2 consecutive beeps.
- If a reading above 37.8°C is recorded there will be 6 consecutive beeps.
- If a reading above 42.2°C is recorded a "Hi" sign will be displayed followed by 2 consecutive beeps.

### Recalling Readings from Memory

- Ensure the thermometer is switched off.
- Press the "ON/OFF/MEASURE" button for 4 seconds to put the device on memory mode. The last reading will be displayed.
- Press and release the "ON/OFF/MEASURE" button again to display the next reading in a sequence from the last reading to the first reading.
- The thermometer has the memory to recall the last 32 readings.
- The thermometer will automatically turn off if it idles for more than 12 seconds.

### Changing Temperature Scales

- Ensure the thermometer is switched off.
- Press the "ON/OFF/MEASURE" button for 8 seconds to bring it into temperature mode. The current temperature unit will be displayed.
- Release and press the "ON/OFF/MEASURE" button again to toggle and select between °C and °F.
- The thermometer will switch off automatically if it idles for more than 4 seconds and will display the last reading.



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### [Explanation of Marks or Symbols]

The following symbols may appear on the manual, Infrared Thermometer and its accessories.

	<b>PROHIBITION</b> Means Forbidden with detailed items expressed in words or figures within or beside the mark. Left one means General Forbidden.
	<b>MUST OBSERVE</b> Means Obligatory with detailed items expressed in words or figures within or beside the mark. Left one means General Compulsory.
	Refer to instructions manual/booklet.
	<b>IMPLICATION OF SYMBOL</b> Type-BF applied part.
	CE Mark: conforms to essential requirements of the Medical Device Directive 93/42/EEC.
	Caution: Consult accompanying documents.
	Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
	Transport package shall be kept away from rain.
	Transport package shall not be exposed to sunlight.
	Indicates correct upright position of the transport package.
	Contents of the transport package are fragile therefore it shall be handled with care.
	Indicates temperature limits within which the transport package shall be stored and handled.
	Green dot.
	Non-ionizing electromagnetic radiation
	Recycling
	Environment-friendly use period
	Do not roll
	Lot number
	Production date

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### Warning

	Do not use the thermometer under temperature extremes (below 16°C/60.8°F or over 35°C/95°F) or humidity extremes (below 15%RH or over 80%RH). * Failing to do so may cause inaccuracy.
	Do not expose the thermometer to temperature extremes (below -20°C/-4°F or over 55°C/131°F) or humidity extremes (below 15%RH or over 93%RH). * Failing to do so may cause inaccuracy.
	Temperature probe has been shocked and lax. * Contact your retailer immediately.
	It is dangerous for patients to perform a self-evaluation and self-treatment based on the measuring results. Be sure to follow doctors' instruction. * A self-evaluation may cause deterioration of diseases.
	Don't touch or blow infrared sensor. * A polluted or broken infrared sensor may cause inaccuracy.
	Clean a polluted infrared sensor with a soft dry cloth in a gentle manner. * Clean with toilet tissue or paper towel may scratch the infrared sensor, causing inaccuracy.
	Install the battery in the right position according to the manual. * Incorrect replacement will cause battery heat.
	Do not immerse the thermometer in liquids. * This instrument is not waterproof.
	Do not use a mobile phone nearby when the thermometer is working. * Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT. Failing to do so may cause inaccuracy.
	The probe glass is made from special material which is not easy broken. * If there is any damage, stop using it and contact the retailer immediately.
	Do not modify this equipment without authorization of the manufacturer. * Contact the retailer immediately.
	The device is not repairable and contains no user serviceable parts. * If there is any problem, contact the retailer immediately.
	The device requires no calibration. * If there is any problem, contact the retailer immediately.
	No modification of this equipment is allowed. * If there is any problem, contact the retailer immediately.
	If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment. * If there is any problem, contact the retailer immediately.
	The operator shall not touch the thermometer and the patient simultaneously. Keep the machine out of children's reach. * For accidental swallow of battery or protective film, please consult the doctor at once.
	For temperature difference between storage area and measurement site, condition the thermometer for about 30minutes in room temperature (measurement site). * Failing to do so may cause inaccuracy.

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## Error Messages

Error Message	Problem	Solution
Hi	Temperature is higher than 42.2°C(108°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	Temperature is lower than 32°C(89.6°F).	Operate the thermometer only between the specified temperature ranges. In the event of a repeated error message, contact your retailer or Customer Services
Err	Sensor not welded	Contact your retailer or Customer Services
ErE	EEPROM is abnormal	Contact your retailer or Customer Services
	Low power	Replace new batteries
ErH	The temperature of the measuring environment is too high.	Decrease the temperature of the environment, keep it within 16°C-35°C.
ErL	The temperature of the measuring environment is too low.	Increase the temperature of the environment, keep it within 16°C-35°C.

## Maintenance, storage and calibration

### Maintenance:

- Remove any stains on the body with a soft and dry cloth.
- Clean the probe tip as follows: very gently wipe the surface with a cotton swab or soft cloth moistened with clinical alcohol, after the alcohol has completely dried out, you can use the thermometer.
- If the probe tip is damaged, please contact the maintenance center.
- Don't wash with water or detergent containing abrasive or benzene.
- Do not immerse in liquids.

### Storage:

- The device must not be stored or used at an excessively high or low temperature or humidity, in sunlight, in association with an electrical current or in dusty locations. Otherwise may occur inaccuracies.
- Remove the battery if non-use for long time.

### Calibration:

This thermometer is calibrated at the time of manufacture. If the thermometer is used according to the instruction, periodic recalibration is not required. If at any time you question the accuracy of the measurement, please contact the retailer immediately. Don't attempt to modify or reassemble the thermometer.

## Technical Specifications

Parameter	Specification
Measurement Mode	Forehead mode
Measurement Units	Celsius(°C)and Fahrenheit(°F)
Operating Conditions	16°C-35°C(60.8°F to 95 °F) with a relative humidity of 15%-80%
Storage Conditions	-20°C +52°C(-4°F to 131 °F) with a relative humidity of 15%-93%
Measurement distance	15mm to 50mm from the measuring point
Forehead temperature measurement range and accuracy	Measurement range: 32.0°C-42.2°C (89.6°F-108°F) Measurement accuracy: ±0.2°C (35.0°C-42.0°C)±0.4°F (95.0°F-107.6°F); ±0.3°C(±0.5°F) other range.
Memories recall	32 measurements recall
Dimensions	138mmx 37mmx 37mm
Weight	50 g without batteries
Battery	2xAAA batteries (DC.3V)
Switch off	Automatically switches off after 1 minute

## Guarantee

Two-year warranty is available from purchasing date, excluding user-caused failures listed below:  
 (1) Failure resulted in unauthorized disassembly and modification.  
 (2) Failure resulted in unexpected drop during application or transportation.  
 (3) Failure resulted in operation away from proper instruction in User's Manual.

## Included in delivery

infrared thermometer  
 Instruction for use  
 2xAAA batteries

## Manufacturer information:

Manufacturer: Alicn Medical Shenzhen, Inc.  
 Address: 4/F, B Building, Shenfubao Modern Optical Factory, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China, 518122  
 Tel: 0086-0755-26501548  
 Fax: 0086-0755-26504849  
 Email: Infor@alicn-med.com  
 Website: http://www.alicn-med.com

## Authorized EU Representative

Shanghai International Holding Corp. GmbH (Europe)  
 Address: Eifflstrasse 80, 20537 Hamburg, Germany  
 Tel: +49-40-2513175 Fax: +49-40-255726

Version:1.0

Date modified:2019-12-06

## Electromagnetic Compatibility

- This product needs special precautions regarding electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile radio frequency (RF) communications equipment.
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit. This may result in incorrect operation of the unit.
- Caution: This unit has been thoroughly tested and inspected to assure proper performance and operation!
- Caution: This machine should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, this machine should be observed to verify normal operation in the configuration in which it will be used.

1	Guidance and manufacturer's declaration-electromagnetic emission		
2	The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
3	Emissions test	Compliance	Electromagnetic environment-guidance
4	RF emissions CISPR11	Group 1	The product 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.
5	RF emissions CISPR11	Class B	The product 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.
6	Harmonic emissions IEC 61000-3-2	N/A	
7	Voltage fluctuations / flicker emissions IEC 61000-3-3	N/A	

Guidance and manufacturer's declaration - electromagnetic immunity - for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration - electromagnetic immunity			
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product 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 %.
Electrostatic transient / burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	N/A	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	N/A	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% Ur (>95% dip in Ur for 0.5 cycle) 40% Ur (60% dip in Ur for 5 cycles) 70 % Ur (30 % dip in Ur for 25 cycles) < 5 % Ur (>95 % dip in Ur for 5 sec	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Non-contact infrared thermometer requires continued operation during power mains interruptions, it is recommended that the Non-contact infrared thermometer be powered from an uninterruptible power supply or a battery.
Power frequency 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 Ur is the a. c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration - electromagnetic immunity - for EQUIPMENT and SYSTEM that are not LIFE-SUPPORTING

Guidance and manufacturer's declaration - electromagnetic immunity			
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product 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	3 Vrms 150 kHz to 80 MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the product, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.  Recommended separation distance $d = \frac{3.5 \sqrt{P}}{E_1}$ 80 MHz to 800 MHz $d = \frac{3.5 \sqrt{P}}{E_1}$ 800 MHz to 2.5 GHz $d = \frac{7 \sqrt{P}}{E_1}$ 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). <sup>a</sup>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m 80 MHz to 2.5 GHz	Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range.  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 is affected by absorption and reflection from structures, objects and people.

<sup>a</sup> 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 Non-contact infrared thermometer is used exceeds the applicable RF compliance level above, the Non-contact infrared thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Non-contact infrared thermometer.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM - for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the Non-contact infrared thermometer			
The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximum output power of the communications equipment			
Rated maximum output of transmitter W	Separation distance according to frequency of transmitter		
	150 kHz to 80 MHz $d = \frac{3.5 \sqrt{P}}{E_1}$	80 MHz to 800 MHz $d = \frac{3.5 \sqrt{P}}{E_1}$	800 MHz to 2.5 GHz $d = \frac{7 \sqrt{P}}{E_1}$
0.01	N/A	0.12	0.23
0.1	N/A	0.38	0.73
1	N/A	1.2	2.3
10	N/A	3.8	7.3
100	N/A	12	23

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.

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.