

150 mm

300 mm

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 "SCAN/ON" button. To choose mode, press "SCAN/ON" on the shut-off 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 "SCAN/ON" 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 "SCAN/ON" switch for ~ 5 seconds and the thermometer will turn off automatically after ~ 60 seconds.

Unit description

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.

Instructions for Use

1. Turn the thermometer on by pressing "SCAN/ON" switch.
2. 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 "SCAN/ON" 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.
3. Press the "SCAN/ON" 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

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

Changing Temperature Scales

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

Explanation of Marks or Symbols
The following symbols may appear on the manual, Infrared Thermometer and its accessories.

	MUST OBSERVE 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.
	IMPLICATION OF SYMBOL 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.
	Non-ionizing electromagnetic radiation
	Do not roll
	Lot number
	Production date
	Protected against solid foreign objects of 12.5mm diameter and greater, protected against vertically falling water drops when the device is tilted up to 15°.

Warning

- Do not use the thermometer under temperature extremes (below 10°C/50°F or over 50°C/122°F) or humidity extremes (below 15%RH or over 80%RH).
*Falling to do so may cause inaccuracy.
- Do not expose the thermometer to temperature extremes (below 20°C/68°F or over 50°C/122°F) or humidity extremes (below 15%RH or over 80%RH).
*Falling 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.
- Do not 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.
- 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. Falling 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 30 minutes in room temperature (measurement site).
*Falling to do so may cause inaccuracy.
- Ensure that children do not use the instrument unsupervised.
*Some parts are small enough to be swallowed.

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
EE	EEPROM is abnormal	Contact your retailer or Customer Services
□	Low power	Replace new batteries
EH	The temperature of the measuring environment is too high.	Decrease the temperature of the environment, keep it within 16°C-35°C.
EL	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:
1. Remove any stains on the body with a soft and dry cloth.
2. Gently wipe the dirt on the body with a soft cloth, use a cotton swab or soft cloth stained with alcohol, and gently wipe the lens of the temperature measuring head. After using the product, the product can be sterilized with 75% medical alcohol on the soft towel or cotton silver.
3. Don't wash with water or detergent containing abrasive or benzene.
4. Do not immerse in liquids.

Storage:
1. 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.
2. 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%-90%
Storage Conditions	-20°C ~ +55°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); ±0.2°C (±0.5°F) other range.
Memories recall	32 measurements recall
Dimensions	144mmx101mmx36mm
Weight	88 g without batteries
Battery	2xAAA batteries (DC 3V)
Switch off	Automatically switches off after 1 minute
Product life	5 years
New battery life	1000 times

Guarantee
Two-year warranty is available from purchasing date, excluding user-caused failures listed below:
(1) Failure resulted in unauthorized disassemble 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

Manufacturer information:
Manufacturer: Alicin 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: info@alicin-med.com
Website: http://www.alicin-med.com

Authorized EU Representative
Shanghai International Holding Corp. GmbH (Europe)
Address: Eifelstrasse 80, 20537 Hamburg, Germany
Tel: +49-40-2513175 Fax: +49-40-251726

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Electromagnetic Compatibility
The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

Warning: Don't near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

If any: a list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

If any: the performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE" need not be used).

1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the accepted service life.
2. Guidance and manufacturer's declaration - electromagnetic emissions and immunity.

Table 1
Guidance and manufacturer's declaration - electromagnetic emission

Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	N/A
Voltage fluctuations/ricker emissions IEC 61000-3-3	N/A

Table 2
Guidance and manufacturer's declaration - electromagnetic immunity

Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	Power supply lines: ±2 kV input/output lines: ±1 kV line(s) to line(s): ±1 kV line(s) to earth: ±2 kV, 100 kHz repetition frequency	N/A

Table 3
Guidance and manufacturer's declaration - electromagnetic immunity

Test Frequency (MHz)	Band (MHz)	Service (Modulation)	Modulation (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	380-390	TETRA 400	FM modulation 1.8 Hz	1.8	0.3 27
450	380-390	GSM-R FR3 400	FM modulation 1.8 Hz	2	0.3 28
710	704-714	LTE Band 17	Pulse modulation 217 Hz	0.2	0.3 9
810	800-960	GSM 1800, GSM 1900, GSM 2100, GSM 2200, GSM 2300, GSM 2400, GSM 2500, GSM 2600, GSM 2700, GSM 2800, GSM 2900, GSM 3000, GSM 3100, GSM 3200, GSM 3300, GSM 3400, GSM 3500, GSM 3600, GSM 3700, GSM 3800, GSM 3900, GSM 4000, GSM 4100, GSM 4200, GSM 4300, GSM 4400, GSM 4500, GSM 4600, GSM 4700, GSM 4800, GSM 4900, GSM 5000, GSM 5100, GSM 5200, GSM 5300, GSM 5400, GSM 5500, GSM 5600, GSM 5700, GSM 5800, GSM 5900, GSM 6000, GSM 6100, GSM 6200, GSM 6300, GSM 6400, GSM 6500, GSM 6600, GSM 6700, GSM 6800, GSM 6900, GSM 7000, GSM 7100, GSM 7200, GSM 7300, GSM 7400, GSM 7500, GSM 7600, GSM 7700, GSM 7800, GSM 7900, GSM 8000, GSM 8100, GSM 8200, GSM 8300, GSM 8400, GSM 8500, GSM 8600, GSM 8700, GSM 8800, GSM 8900, GSM 9000, GSM 9100, GSM 9200, GSM 9300, GSM 9400, GSM 9500, GSM 9600, GSM 9700, GSM 9800, GSM 9900, GSM 10000	Pulse modulation 18 Hz	2	0.3 28
930	1700-1990	DECT 1.8 GHz	Pulse modulation 217 Hz	2	0.3 28
1720	1700-1990	DECT 1.8 GHz	Pulse modulation 217 Hz	2	0.3 28
1845	1700-1990	DECT 1.8 GHz	Pulse modulation 217 Hz	2	0.3 28
1970	1700-1990	DECT 1.8 GHz	Pulse modulation 217 Hz	2	0.3 28
2450	2400-2570	Bluetooth 2.4 GHz	Pulse modulation 217 Hz	2	0.3 28
5240	5100-5800	WiLAN 802.11 n	Pulse modulation 217 Hz	0.2	0.3 9
5785	5100-5800	WiLAN 802.11 n	Pulse modulation 217 Hz	0.2	0.3 9

NOTE U: is the a.c. mains voltage prior to application of the test level.

备注:
成品尺寸:60*150mm
材质:80g书写纸, 风琴折

部门	签名栏	修改记录	文件编号	物料编号	40. R1B11C2R701
销售:		修改内容	W-YF-02610	型号	AET-R1B1
法规:		法规部分	罗雪莲	材料	80g书写纸
项目:			日期	审核	比例
研发:			2020-03-30	批准	1:1
BOM:				版本	MM
				A02	2020-03-30
深圳市爱立康医疗股份有限公司					