# **ALPHAMED** Instruction manual



### Introduction

▲Your new Infrared forehead thermometer uses advanced infrared (IR) technology to measure temperature instantly and accurately on the forehead or object.

▲Easy to use and less measurement time

This thermometer does not need to contact body or object to ensure the safety and hygiene. Its ergonomic design makes this thermometer be simple and very easy to check the temperature. It only takes 1 second to take measurement and reading

▲ Body and object modes

This thermometer supports to measure temperature of body and object. Measuring range of object mode is 0.0 to 100.0°C (32.0°F~199.9°F). That means except to take body temperature, it also supports to take the surface temperature of object as below,

Suirface temperature of milk in the bottle;

Surface temperature of baby bath;

Environment temperature

▲ Color visible indication of alarm and alarm sounds

When body temperature is over 37.5°C, color indicator will show red color and an alarm sounds for 10 times.

▲ Memory function

It stores up to 20 sets recent measurement data.

▲Auto power off

Automatically power off if left idle for Approx 60s.

▲ Measurement

Measurement time interval in 15s and the measurement distance is within 1~3cm.

Please read the manual carefully before you use the unit, and keep for future reference.

▲ Intended use

The Infrared Thermometer is intended for the intermittent measurement and monitoring of human body temperature from forehead or object. The device is indicated for use by people of all ages at homecare and in hospital.

# Safety Information

To assure the correct use of the product, basic safety measures should always be followed including the warning and the caution listed in the instruction manual

# Symbol descriptions

The following symbols may appear in this manual, on the label,on the device, or on it's accessories. Some of the symbols represent standards and compliances associated with the device and its use

$\square$	WARNING: This alert identifies hazards that may cause serious personal injury or death.
	CAUTION: This alert identifies hazards that may causeminor personal injury, product damage, or property damage.
*	Type BF applied part
	Manufacturer
SN	Specifies serial number
	<u>DISPOSAL</u> : Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
	Direct current
8	Follow instructions for use
$\overline{\mathbb{A}}$	CAUTION: Consult accompanying documents

折開始

- A This thermometer is not intended to substitute for a consultation with your physician. The forehead scan temperature serves as a reference only. It cannot be a judgment on fever
- ABasic safety precautions should always be observed, especially when the thermometer is used on or near children and disabled persons.
- A Please place the device unreachable by young.

Avoid direct sunlight.

切线

A Do not touch the lens

ANo modification of this device is allowed.

- The swallowing of small parks like packing bag, battery, battery cover and so on may cause the suffocation.
- $\Delta$ Please do not use a dilution agent, alcohol or petrol to clean the unit. Please

 $\Delta$ treat is gently and prevent the falling from a high place.

 $\triangle$ Please do not immersed it in liquid.

- Never leave battery in the battery compartment for a long time without use, as \_they may leak and cause damage to the unit. \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_
- $\triangle$ Please take off the battery if you do not intend to use within 3 months. Replace with new batteries if the unit display a low battery symbol.

 $\Delta$ Do not mix the old and new batteries together.

 $\triangle$ Do not use during the transportation.

### A WARNING:

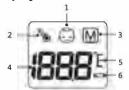
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facillities.Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

### Classification

- 1. Internally powered equipment;
- 2. Type BF applied part;
- 3. Protection against ingress of water or Particulate matter: IP21;
- 4. Not-category AP/APG equipment; -5. Mode of operation: Continuous operation.
- A The user must check that the equipment functions safely and see that it is in proper working condition before being used.

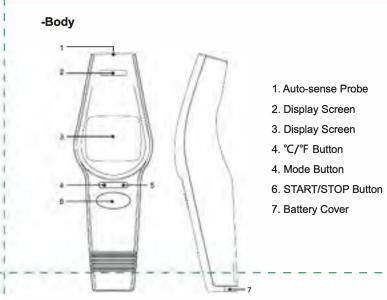
# **Product Structure**

### -Display



#### 1. Body temperature indicator 2. Object temperature indicator 3. Memory mode 4. Temperature reading 5. Temperature unit

6. Low battery indicato



# **Battery Installation**

Remove the battery cover from the battery compartment, insert the battery.

1. Remove the battery cover from .the battery compartment as the arrow direction accordingly.

2. Insert 2 AAA powerful batteries into the compartment and ensure each battery is in the proper direction, Positive (+) and Negative (-) are displayed on the back of battery cover.

3. Close the battery cover.



### Low battery and replacement

When power on, the low battery symbol 📼 will display once the unit s work, and you must replace with new batteries, otherwise the unit can't w

### Battery type and replacement

Please use 2pcs AAA identical 1, 5V alkaline batteries.

Do not use the batteries beyond their expiry date.

Please remove the batteries if you do not need to use for long time.

### WARNING

Dispose of the battery in accordance with all federal, state and local laws. avoid fire and explosion hazard, do not burn or incinerate the battery.

# Setting Mode

### How To Set

### 1. Mode setting:

Press Mode button # when power on after you hear 1 beep, the scree display (a) or *e*, Mode will change between (a) and *e*, when the button pressed. It will confirm the Body Mode automatically when you switch to \_C confirm the Object Mode automatically when you switch to d. Then Mode is finished.



Note: The Body Mode is used to measure the forehead temperature, then the Object is used to measure the object temperature.

### 2. Unit setting:

Press Mode button vr when power on after you hear 1 beep, the scree display [ or F, Mode will change between [ and F .when the button pressed. It will confirm the Celsius Unit automatically when you switch to confirm the Fahrenheit Unit automatically when you switch to F. Then setting is finished.





# **Proper Use Of The Unit**

### Pre-measurement

About Normal Body Temperature&Fever

The temperature in the forehead and temple area differs from the internal temperature, which is taken orally or rectally. Vasoconstriction, an effect which constricts the blood vessels and cools the skin, can occur during the early stages of a fever. In this case, the temperature measured by the Infrared thermometer may be unusually low. If the measurement therefore does not match the patient's own perception or is unusually low, re peat the measurement every 15 minutes. As a reference, you can also measure the internal body temperature using a

conventional oral or rectal thermometer.

Body temperature can vary from one individual/person to next.

It also varies by location on the body and time of day. Below shows the statistical normal ranges from different sites.

Please keep in mind that temperatures measured from different sites, even at the same time, should not be directly compared. Fever indicates that the body temperature is higher than normal. This symptom may be caused by infection. overdressing or immunization. Some people may not experience fever even when they are ill.

These include, but are not limited to, infants younger than 3 months old, persons with compromised immune systems, persons taking antibiotics, steroids or antipyretics (aspirin, ibuprofen, acetaminophen), or persons with certain chronic illnesses. Please consult your physician when you feel ill even if you do not have fever.

### Table\*1 Body Site Normal Temperature Range

	Body Site	Normal Temperature Range
start to ork.	Oral	0.6℃ (1°F) or more above or below 37℃ (98.6°F)
	Rectal/ear	0.3℃ to 0.6℃ (0.5℉ to 1℉) higher than oral temperature
1	Axillary (armpit)	0.3℃ to 0.6℃ (0.5℉ to 1℉) lower than oral temperature
1	Note: Body Tempera website: http://firstai	ture at WebMD; d.webmd.com/body-temperature;retrieved at 2010 Jan 7.
То	As a Body Thermo	meter
1		TOP button, all symbols appear on the 1 short beep, then unit °C/°F on the
	<ol> <li>Press the Mode temperature unit flashe</li> </ol>	button to select Body Mode ,the
en will Majis I	is flat and take measu	se to the forehead make sure the probe rement with a distance between 1-3cm. TOP button, The meter will take
and _ ⊢ setting	been completed you ca	vill be finished in 3 seconds, when it has an hear 3 short beeps, in the meantime, is on the display with green LED blinks.
	Note:	
	<ul> <li>If the reading is &lt; 37.5°C(</li> </ul>	99.5°F ), the display will show together with green LED.
1	●If the reading is≥37.5°C red LED and ten short bee	(99.5°F)and $<$ 43°C(109.4°F), the display will show together with aps.
t Mode	-	start to flash again, it can continue to take measurement.
i		ement temperature is likely to be affected by sweat, oil and the shall be taken as a reference only.
en will	<ul> <li>If the probe is placed at affected by surrounding te</li> </ul>	an angle close to the forehead measurement, the reading will be mperature.
i, an≊l I Mode I	temperature with the non-	quickly in the ambient temperature. Therefore, do not take thei contact thermometer during/after breastfeeding,because the skir than the internal body temperature.
1		
1		

### As a Object Thermometer

1). Press the START/STOP button, all symbols appear on the display, you can hear 1 short beep, then unit °C/°F on the display start to flash.

2). Press the Mode button to select Object Mode, the temperature unit flashes.

3). Move the probe close to the object, make sure the probe is flat and take measurement with a distance between 1-3cm. Press the START/STOP button. The meter will take measurement

4). The measurement will be finished in 3 seconds, when it has been completed, you can hear 3 short beeps, in the meantime, the reading will appears on the display with green LED blinks.

#### Note:

•As the object scan temperature is likely to be affected by the surroundings, the reading shall the taken as a reference only -

•If the probe is placed at an angle close the object scan, the reading will be affected by surrounding temperature

#### Memory-recall of measurements

This Non-contact forehead thermometer automatically stores 20 sets measurements value, the oldest record will be replaced by the latest measurement value when more than 20 sets.

#### Read memory record

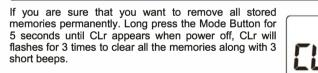
Press the Mode Button does not the memory mode when power off. Each time you press the Mode button, a number (from 1 to 20) will be displayed along with the symbol [M], 1 second later, the measurement will be shown, as well as subsequent measurements can be display one after the other by pressing the Mode Button & each time.

#### Note:

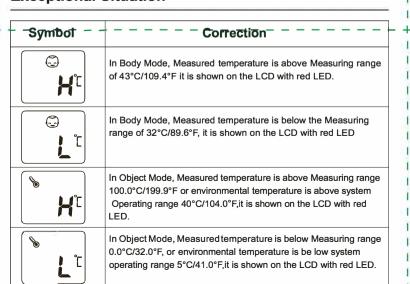
The reading number "1" is the latest measurement, "20" is the oldest measurement. When the oldest measurement is read, pressing the \_STARI/STOP Button again will read the reading\_"1\_again\_

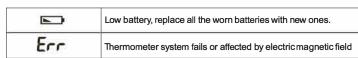


### **Memory-clear Of Measurements**



## **Exceptional Situation**





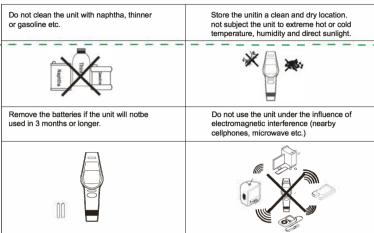
A Please contact the distributor if you can not solve the problem, do not disassemble the unit by yourself!

### **Care And Maintenance**

### Care for the main unit

•Keep the unit in the storage case when not in use.

•Clean the unit with a soft dry cloth. Do not use any abrasive or volatile cleaners



Note: We will not be responsible for any quality problem if you do not care and maintain the product as instructed

### **Specification**

	Description	Non-contact Infrared Forehead Inframometer
1	Display	LCD digital display
1	Measuring localization	Forehead and object surface
ſ	Measurement range	Body mode 32.0°C~ 43.0°C (89.6°F ~109.4°F); Object mode 0.0~100.0°C (32.0°F~199.9°F);
•	Temperature unit	℃/℉
	Display resolution	0.1°C/°F
	Accuracy	±0.2°C/±0.4°F (within 36.0°C~39.0°C/ 96.8°F~102.2°F)
Ν	Memory function	20 sets memory of measurement values
E	Beep alarm	One short beep when power on and start measurement One long beep when measurement reading is below 37.5°C/99.5°F. 10 short beeps when measurement reading is greater than or equal to 37.5°C/99.5°F 3 short beeps when system fails
L	ED color indicator	Green: Temperature < 37.5°C/99.5°F Red: Temperature≥37.5°C
F	Power source	2pcs AAA alkaline battery
4	Automatic power-off	In 60s
N	Main unit weight	Approx. 75g (batteries not included)
N	Main unit size	L151 mm x W 53mm x H41mm
E	Battery life	Could be used for 300 times for normal condition
7	Accessories	Instruction manual
(	Operating environment	Body mode 10.0°C~40.0 °C/50.0°F~104.0 °F Object mode 5°C~40.0°C/41.0°F~104.0°F
5	Storage environment	Temperature: -20°C~+50°C/-4.0°F~+122.0 °F Humidity: 15% ~95% avoid crash, sun burn or rain during transportation

#### **Clinical Measurement Accuracy And Safety Verification:**

The product has passed clinical trials. The measured results of the infrared forehead thermometer was compared with the measured results of mercury thermometers, the deviation average $\Delta t_{\rm h}$  = 0.011°C not exceeding 0.3°C; the clinical repeatability of the infrared forehead thermometer SR =0.100°C, not exceeding 0.3°C. The measured results up to the laboratory standard and the clinical standard. Therefore, the deviation average and the clinical repeatability of the infrared forehead thermometer are complied with the regulatory requirement ISO 80601-2-56. The conclusions are drawn from the clinical trials, the accuracy and safety are complied with the regulatory requirement.

### Warranty Information

▲The unit is guaranteed to be free of defects in workmanship and ma under normal use for a period of 1 Year from the date of purchase.

▲ For repair under this warranty. Our authorized service agent must be a of the fault within the period of the warranty. This warranty only covers par labor service under normal operations. Any defect resulting

from natural causes, eq. flood, hurricane etc. is not covered in this quar This guarantee also does not cover damage incurred by use of the uni accordance with the instructions, accidental damage, or being tampe serviced by unauthorized service agents.

▲ The fllowing will be excluded from this warranty-if the thermometer has misused, abused, or neglect in following the manual's instructions on pu and unauthorized repair or modifications.

▲ The device requires no calibration.

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▲ The device is not repairable and contains no user serviceable parts.

EMC		
Table 1		
Guidance	and manufactu	rer's declaration-electromagnetic emissions
		use in the electromagnetic environment specified below. The custo uld assure that it is used in such an environment
Emissions test	Compliance	Electromagnetic environment - guidance
PE emissions CISPP 11		The Infrared forehead thermometer uses RF energy only for its in

F emissions CISPR 11	Group 1	function. Therefore, its RF emissions are very low and are not like cause any interference in nearby electronic equipment.
F emissions CISPR 11	Class [B]	The Infrared forehead thermometer is suitable for use in all establishments other than domestic and those directly connected
armonic emissions IEC 61000-3-2	Class A	public low-voltage power supply network that supplies buildings u domestic purposes.
oltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Table 2 Guidance and manufacturer's declaration-electromagnetic emissions The Infrared forehead thermometer is intended for use in the electromagnetic environment specified below. The custo the user of the Infrared forehead thermometer should assure that it is used in such an environment

Test level	level	environment - guidan
±8 kV contact - — ±15 k¥ air— — —	±8 kV contact — — ±1 <del>5-</del> kV- <del>air</del> — — –	Floors should be wood, cond ceramic tile. If floors are cov with synthetic material, the r humidity should be at least 3
Power supply lines: ±2 kV input/output lines: ±1 kV	Power supply lines: ±2 kV input/output lines: ±1 kV	Mains power quality should of a typica commercial or ho environment.
line(s) to line(s): ±1 kV. line(s) to earth: ±2 kV. 100 kHz repetition frequency	line(s) to line(s): ±1 kV. line(s) to earth: ±2 kV. 100 kHz repetition frequency	Mains power quality should of a typica commercial or ho environment.
0% 0.5 cycle At 0°, 45 °, 90 °,135 °, 180 °, 225 °, 270° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	0% 0.5 cycle At 0°, 45 °, 90 °,135 °, 180 °, 225 °, 270 ° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0 0% 300 cycle	Mains power quality should of a typica commercial or ho environment.
30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz	Power frequency magnetic should be at levels characte a typical location in a typica commercial or hospital envir
a.c. mians voltage prior to ap	pplication of the test level.	

The infrared forehead the nometer is intended for use in the elect

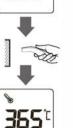
-	 -	-	-			 -	 -	 -	inia i	 -	-	 	-	 
					d thermo									 
					ieter is ir									

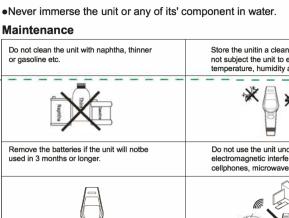
_	Immunity Test	IEC 60601 Test level	Compliance level		Electromagnetic environment - guidar
	Conduced RF IEC61000- 4-6	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz	used no clo thermometer separation	d mobile RF communications equipment sh ser to any part of the Infrared forehead ar, including cables, than the recommended distance calculated from the equation appro- uency of the transmitter. Recommended sep $d=0.35\sqrt{P}$ , $d=1.2\sqrt{P}$ ;
	Radiated RF IEC61000- 4-3	10V/m, 80% Am at 1kHz	10V/m, 80% Am at 1kHz	80MHz to 800MHz: $d=1.2\sqrt{P}$ ; 800MHz to 2.7GHz: $d=2.3\sqrt{P}$ ;	Where, P is the maximum output power rat the transmitter in watts (W)according to the transmitter manufacturer, d is the recomms separation distance in meters (m) Field str from fixed RF transmitters, as determined electromagnetic site survey, should be less the compliance level in each frequency range.Interference may occur in the vicinity equipment marked with the following symb

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and from structures, objects and people.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobili amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To ass electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the environment due to fixed RF transmitters for electromagnetic site survey should be considered. If the environment due to fixed RF transmitters for electromagnetic site survey should be considered. If the environment due to fixed RF transmitters for electromagnetic site survey should be considered. measured field strength in the location in which the Infrared forehead thermometer is used exceeds the applicable R compliance level above, the Infrared forehead thermometer should be observed to verify normal operation. If abnorm performance is observed, additional measures may be necessary, such as re-orienting or relocating the Infrared for

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





M

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Table 4										
Recomme	ended separatio	n distances	between portable	and mobile F	RF communica	tions equipm	ent and the			
are controlled. The by maintaining a m	The Infrared forehead thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared forehead thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared forehead thermometer as recommended below, according to the maximum output power of the communications									
equipment.										
Rated maximum output power of		Se	paration distance a	according to m	frequency of transmitter					
transmitter W		Iz to 80 MHz = $3.5\sqrt{P}$ ;		to 800MHz 1.2√₽;	8	300MHz to 2.7 d=2.3 √F	-			
0,01		/		.12		0.23	,			
0,1		1	0.	.38		0.73				
1		1		.2		2.3				
10		/		8.8 12		7.3				
can be estimated u rating of the transm NOTE 1 At 80 MH	using the equatic mitter in watts (W z and 800 MHz, idelines may not	on applicable /) according the separation apply in all s	wer not listed above, to the frequency of to the transmitter ma on distance for the hi situations. Electroma	the transmitte anufacturer. igher frequen	er, where P is th	e maximum o s.	utput power			
Table 5	idanaa and	monufoo	turorio do aloro	tion clock	como con otio					
The Infrared forehe	ead thermometer	is intended	for use in the electro	magnetic en	vironment speci	fied below. Th				
	Test	Band a)	Service a)	Modulatio	Modulation b)	Distance				
Radiated RF IEC61000-4-3 (Test	Frequency (MHz)		Service aj	n b) Pulse	(W)	(m)	LEVEL (V/n			
specifications for ENCLOSURE	385	380-390	TETRA 400	modulation b) 18 Hz FM c)± 5 kHz	1,8	0,3	27			
PORT IMMUNITY to RF wireless	450	380 - 390	GMRS 460, FRS 460	deviation 1 kHz sine	2	0,3	28			
communications equipment)	710 745 780	704 - 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9			
	810	800 - 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation b)	2	0,3	28			
	930 1720	1700 - 1990	GSM 1800; CDMA 1900; GSM 1900;	18 Hz Pulse modulation b)		1				
	1845 1970		DECT; LTE Band 1, 3, 4, 25; UMTS Bluetooth, WLAN,	217 Hz	2	0,3	28			
	2450	2400-2570	802.11 b/g/n,RFID 2450, LTE Band 7	modulation b) 217 Hz	2	0,3	28			
	5240 5240	5100-5800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9			
	5785			217112						
using higher IMML separation distanc The MANUFACTU using higher IMML	JNITY TEST LEV ses for higher IMI JRER should con JNITY TEST LEV	/ELS that an MUNITY TES isider reducion /ELS that and	ng the minimum sep e appropriate for the ST LEVEL .S shall be ng the minimum sep e appropriate for the ST LEVEL .S shall be	aration distan	imum separatio sing the followi ice, based on R imum separatio	n distance. Mi ng equation: ISK MANAGE n distance. Mi	nimum MENT, and			
	-			$\frac{6}{d}\sqrt{P}$	-		ST LEVEL in			
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