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Foreword

Chapter 1 Safety Instructions

1.1 Warning

vice out of reach of infants, children or pets, since inhalation or swallowing of small parts (e.g. batteries) can be dangerous or even fatal.

Do not use the thermometer for any other purpose than intended.

The thermometer is not waterproof, do not immerse it in water or other liquids of

Please keep a distance of 0-5cm from the forehead center, better in between the eye and brow when measuring.

If the infrared thermometer is kept in a place where the temperature is lower or higher than that of the place where it is used, please put it in the room where it is to be used 30 minutes in advance.

The device contains no user serviceable parts.

The user must check if the equipment can work safely, and see that it is in proper working condition before using.

No modification of this equipment is allowed.

The thermometer measurement does not substitute for diagnosis by physicians , if you feel unwell and the temperature has been measured above 37.5° C several times, consult your doctor.

Do not allow children to take their own temperature without supervision Do not remove the thermometer until you hear the beep.
Please try to take the temperature in the same place, otherwise you may get different results.

Do not hold the sensor when measuring to avoid the error code due to tempera-

ture instability.

●The device is not suitable for use in the presence of flammable anesthetic mixtures with air ,oxygen or nitrous oxide.

The operator shall not touch battery container and the patient simultaneously.

When the device is in use, there should not be any great power appliances such as high voltage cables, X-ray machine, ultrasound equipment and electrizer

nearby.
■Electromagnetic field are capable of interfering with the proper performance of the thermometer. Therefore, make sure that all external devices operated in the vicinity of the thermometer comply with the relevant EMC requirements. Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies or MRI devices are a possible source of interference as they may emit higher levels of electromagnetic radiation.
■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.

high.

• 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.

operating normally.

• Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.*

• Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment, including cables specified by the manufacture

1.2 Precaution●Please follow some instructions offered in Cleaning and Maintenance to clean

<u>↑</u> Upward

Keep away from sunligh

No step

Refer to instruction manual

Atmospheric pressure

Please follow some instructions offered in Cleaning and inaminerial to clean the thermometer.

Remove the battery when the thermometer will not be used for a long time.

The thermometer contains high quality precision parts; do not crash the thermometer and avoid severe shock or vibration; do not twist the thermometer or its sensor.

Seek medical treatment in time in case of dysphoria, vomiting, diarrhea,

Keep dry

Keep away from sunligh

Type BF applied part

Fragile, handle with care

Manufacturer

CE Mark And Identification Number Of Notified Body

CE Mark And Identification Number Of Notified Body

EC REP

Authorized Indicates the authorized representative European Community

European Community

1.4 Environmental protection
The company designs and manufactures products for body temperature measurement according to the safety and environmental protection requirements. The equipment will not cause any harm to people or the environment if any outer cover of the product is not taken apart or the equipment is always used in a correct

Caution Keep dry

Limit four-storey

Use-by date

Warning:
Do not dispose wastes generated by the thermometer products with industrial or household waste together, please use separate collection facilities.
Please handle wastes generated by thermometer equipment based on proper method and dispose of instruments when they reach its service life in accordance with local and national environmental regulations.
Please make recycling use of wastes if they are reusable after handled by qualified company to reduce equironmental pollution. company to reduce environmental pollution. Related issues please refer to the company's services, or deal with them in the proper way according to local garbage collection requirements. ●Protect the thermometer sensor from dirt and dust.

1.3 Description of graphic symbols Symbol Description Symbol Description

2.1 Intended Purpose

Chapter 2 Product Description

2.1.2 Contraindication

2.1.3 Intended patient population
The device is intended for adults and infants, except premature.

2.1.4 Intended Users
The device is intended to be used by medical professionals or lay person who can express themself normally. 2.1.5 Clinical benefits to be expected

2.2 Residual Risks and Undesirable Side-effects

Fire or explode
 Inconvenience to user, such as too noisy, poor usability, inaudible sound, too hot surface
 Delay measurement, such as Damage of integrity, Short circuit, Electromagnetic interference, No output, Can not normally work, Can not normally operate, Button or shell failure, LCD failure, Wrong operation

2.3 Structural composition

THE INTRARED torehead thermometer is composed of display, mode button, sensor probe, on/off button, bottom shell, memory button.

2.4 Product photo





Memory button

Review the stored temperature values.
Set the voice.
Delete the stored temperature values.

Deterter the Storest terriperature values.

Mode switch button Switch among body mode, calibration mode and room mode. Switch between 'C and 'F.

Display Display measurement value and symbols

Bottom shell Protect the battery, PCBA

Sensing probe Measure temperature

9 **4 6 6 6 7**

Body mode symbol 6. Decimal point

Calibration mode symbol
 7. Memory group

Room mode symbol
 8. Memory icon

4. Low-power icon 9. Sound icon

5. Unit icon 10.Temperature display value

2.5 Display screen

_	-		
		Names of articles	
	-	Instruction manual, including warranty card and certificate of conformity	
		9V dry battery	
		Main engine	
_	-	* Product packaging should contain the items of	descri

2.6 Packing list

cribed above. In case of any shortage, please contact Shenzhen the agent distributor in time.

el: +86 0755-86952278 Fax: +86 0755-86952278 ustomer Service E-mail: service@lepu-medical.con Vebsite: www.lepucare.com

The Netherlands

Company name: Lepu Medical (Europe) Cooperatief U.A. ompany address: Abe Lenstra Boulevard 36, 8448 JB, Heerenveen,

Tel: +31 - 515 - 573399 Fax: +31 - 515 - 760020

Shenzhen LEPU Intelligent Medical Equipment Co., Ltd.

ndustrial Park Songbai Road, Xili Street, Nanshan District 518055

Chapter 3 Why the Infrared Forehead

3.2 Accurate and reliable

Thermometer is Required?

5.2 ACCURATE AND TEILABLE By measuring the heat energy emitted from the forehead and calculating the bod temperature accordingly, accurate readings can be obtained as long as it is held within a range of 5cm when measuring.

3.3 Simple and easy to use

The infrared forehead thermometer is about inductive measurement. It can easily measure the body temperature, even for sleeping children. ompared with the rectal thermometer, a non-contact frontal thermometer ca reduce the discomfort of children, and it is simpler and more practical than othe

3.4 Safe and hygienic Contactless measurement can prevent the spread of bacteria; It is absolutely safe for children and adults;

Chapter 4 Product Installation and Use

4.1 Check Please check the packing case carefully before unpacking. In case of any damage

found, please contact the carrier immediately. Open the package correctly, take out the infrared forehead thermometer and other components from the case with care, and check them one by one against the packing list. When the equipment is moved a different environment, the difference in temperature or humidity may lead to condensation to it, in which case no use is allowed before

4.2 Install or replace batteries

The first step after unpacking is to install the battery. The battery holder is on the back of the infrared thermometer. The battery installation steps are as follows:

battery holder. (3)Close the battery cover.

4.3 Starting up Press the "ON/OFF" button, then the backlight of the screen comes on, the LCD is shown in full screen and displays the latest group of memory values, the equipment enters the waiting state for measurement; If there is no operation for about 60 seconds, the equipment will enter standby state.



center of the forehead; In non-contact mode, the blue pilot light will point to the area you are aiming at. If the

er and forehead still when measuring, as movement will negatively

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2)Insert the battery and keep +, - poles of the battery in line with +, - poles of the

Note: Please use 9V dry battery.

Please use 94 ory battery.

Remove the battery if the thermometer will not be used for a long time.

When the symbol " " appearing on the screen indicates that the battery runs out.

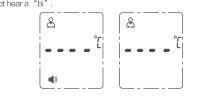
Please replace the battery before measuring.



4.4 Placement

eter between the evebrows, at a distance within 5cm from the

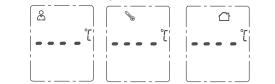
|----[[]| |----'



Note: If there is no operation for 60 seconds, the equipment will enter idle state. The lates setting will be saved by default. 10

4.8 Body temperature measurement

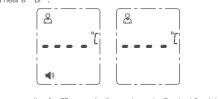
4.5 Mode switch wer-on state, switch to select Body mode / Calibration mode or Room mo

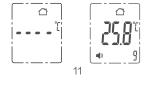




4.7 Sound switch settings
In shutdown mode, press and hold the "memory" button, it fist displays "----M", which flashes along with the symbol "M"; press and hold the memory button for more than 4 seconds, it displays "----C+human icon + sound icon"; if the sound is on currently, a "bi" will be heard when entering this mode.

When release the button "memory", will enter the sound setting mode, press the "memory" button, if the sound is on, a "bi" can be heard and sound icon will disappear; press the "memory" button again, the sound icon pops up and it is mute, so cannot hear a "bi".





ON/OFF button to enter measurement state, place the trom the forehead. Press "ON/OFF" button again when two



hen the measured temperature is below $37.5\,$ °C, the LCD backlight is green. hen the measured temperature is between $37.5\,$ °C– $38.5\,$ °C, the LCD backlight llow, reminding of low fever. /hen the measured temperature is higher than 38.5 $^{\circ}$ C, the LCD backlight is re minding of high fever with sound of "Bi", "Bi", "Bi".

4.9 Object temperature measurement

Press "ON/OFF" button and then press "mode" switch to calibration mode, point at the object and press "ON/OFF" button again when two concentric circles are overlapping. Then the object temperature will display on the screen after a bi (no "bi" if the sound is shut down) in about 1 second. The number of memory groups will show the right down corner at the same time.



When the measured temperature is <40.0°C, the LCD backlight is green; when the

4.10 Ambient temperature measurement



4.11 Memory query



4.12 Memory deletion

4.14 Shutdown/Idle



Press "memory" button briefly (no matter what state), the screen displays "---M" and the symbol "M" flashes. Press "memory" button again, it displays with
latest value + symbol "M" and number of groups. In body mode, different temperature
ranges display with different backlights. In calibration mode, the backlight will turn to



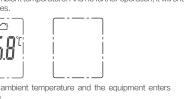
4.12 Memory deletion
In shutdown mode, press "memory" button for a long time, at the first 4 seconds, it will show up sound setting, please don't release and keep pressing for another 4 seconds (up to 8 seconds), then can delete memory values with flashing "CLr+M" on the screen. It will shut down automatically after three "Bi-Bi-Bi".

4.13 Low battery indicator before measuring.





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Chapter 5 Special Instructions for Safe Use

should know the normal body temperature of individuals when they are health n will help you to accurately judge whether they have a fever. To get the norm arge or by authorized fee-paying maintenance services.

The human body can regulate the temperature to keep the normal body temperatur within a certain fluctuation range, up to 1°C within a day. Besides, the internal temperature of the human body, i.e. the body core temperature, is different from the surface temperature of the skin, so we cannot simply define what temperature is 'normal', as the body temperature is always in connection with to the measurement site. The level of body temperature is also affected by ambient temperature, age, sleep inc. hormonal readiness and physical activity.

void taking the temperature until stay in the room for 30 minutes (the subject to b measured and the infrared forehead thermometer should be at the same ambient mperature for at least 30 minutes). eep the infrared forehead thermometer and forehead still when measuring, do no

a few minutes before taking the temperature after waking up. not eat, drink or do any other physical activity before or during the temperature ment. If there is a hat on head, please take it off and wait for 10 minutes before ease clean the dirt or hair on forehead before taking the temperature. Front band

e the thermometer before the last been is heard.

v cause readings to rise. Wait for 10 minutes before taking the temperature after reasing the forestedd. Please take the temperature in strict accordance with the instructions. Temperature or the following circumstances, it is recommended to measure the same site nree times, and take the highest one as the final.

Children under three years old, with low immunity and greatly affected by fever on The user learns to use the infrared forehead thermometer for the first time, who has patients intend to take body temperature by their own, we recommend contact

Chapter 6 Calibration

The infrared forehead thermometer has been calibrated before delivery from the actory. If you have any doubt about its accuracy, please contact the customer service.

We recommend technical inspection for the measurement every two years, and it is required to comply with the applicable national regulations of the local place. Technical nspection for the measurement may be carried out by the government agencies in charge or by authorized fee-paying maintenance services.

Chapter 7 Troubleshooting

Chapter 8 Cleaning and Maintenance

Error message on screen	Meaning of show	Possible causes and solutions		
HIT	Measured body temperature is too high (above 43.0°C/109.4°F)	The result exceeds the measurement range limit		
HI	Measured object temperature is too high (above 100°C/212°F)	The result exceeds the measurement range limit		

2 Measured temperature too low

Lo	Measured object temperature is too low (below 0°C/32.0°F)	The result exceeds the measurement range limit		
Ambient temperat	ure out of range			
rror message on screen	Meaning of show	Possible causes and solutions		
_·-·-				

The ambient temperature is lower than 5°C/41°F Move to another warm roon

Possible causes and solution Please contact the after-sales service. Measurement environment is not stable

of the body temperature is required. Clean the thermometer shell and sensor with alcohol swab or cotton ball dipped in alcohol (70%), and be careful to avoid liquid entering the thermometer. No use of corrosive detergent, diluent or benzene solvent is allowed. Do not immerse the thermometer in water or other cleaning solutions of any kind.

Chapter 9 Warranty Service e warranty period of the product is 1 year from the date of sale (see the package for nufacturing date).

damage caused by improper use, battery leakage, failure to operate in accordance

Any damage caused by improper use, battery leakage, failure to operate in accordance with the requirements or transfer of the thermometer to other users is out of warranty. We will not provide free warranty service for the failure caused by the user's reasons as follows: Repair service beyond warranty will be charged accordingly.

(1) Failure caused by unauthorized disassembly or refitting of the product.

(2) Failure daused by dropping during use or handling.

(3) Failure due to lack of proper maintenance.

(4) Failure to operate in accordance with the correct instructions in the operating manual Failure caused by failing to operate correctly as instructed by the operation manual, etc.

Warning:

· Manufacturer will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair.

Remove the battery when the thermometer will not be used for a long time.

Chapter 8 Cleaning and Maintenance

10	0.1 Product safety specifica	ation
t	Parameter	Specification
	Shock protection type	Equipment supplied with internal power
	Shock protection grade	Type BF
t	Operating mode	Continuous
ol	Movement level	Transportable equipment
3	EMC group	Class B, Group 1

10.2 Product environment specification

	Environment	Specification			
		Operating temperature: 5°C ~ 40°C			
	Temperature range	Storage temperature: -20°C~+55°C			
	Humidity range	Working humidity: ≤ 85%			
	numuny range	Storage/transport humidity: <95%			
	Operating air	Working air pressure: 70 kPa ~106 kPa			
	pressure range	Storage air pressure: 70 kPa ~106 kPa			
	The degree of protection against harmful ingressof water and	IP22			

Parameter	Specification
Product name	Infrared Forehead Thermometer
Product model	LFR50
Product model	LFR60
Size	LFR50:About 132(L) mm x 42(W)mm x 173.5(H) mm
0.20	LFR60: About 129(L) mm x 41.5(W)mm x 171(H) mm
Weight	LFR50:About 192g (including battery)
T T OIGHT	LFR60:About 188g (including battery)
Display screen	Segmented LCD display screen
Power supply	d.c.9V
Data Storage	Up to 99 sets of measurements can be stored
Product service life	5 years

10.4 Product measurement specification

Parameter	Specification
Measuring position	Forehead (between eyebrows)
Reference body site	Axilla
Measurement range	32.0°C ~ 43.0°C (89.6°F ~ 109.4°F)
Resolution	0.1°C/0.1°F
Unit	°C/°F
Laboratory Accuracy	Between 34℃ and 43℃: ±0.3℃ Not within this range: ±0.4℃
Minimum measuring time	One second
Minimum measuring interval	One second

Chapter 11 Guide of FMC

Guidance and manufacturer's declaration - electromagnetic emissions

| Test | Service | Modulation |

Guidance and manufacturer's declaration - electromagnetic Immunity

ectrical fast transient/burst C 61000-4-4	Not applicable	Not applicable
ırge C 61000-4-5	Not applicable	Not applicable
oltage dips, short interruptions nd voltage variations on power apply input lines C 61000-4-11	Not applicable	Not applicable
ower frequency magnetic field	30 A/m 50Hz/60Hz	30 A/m

Conducted RF Not applicable Not applicable IEC61000-4-6 Not Vim Bo MHz = 2,7 GHz 10 V/m 80 MHz = 2,7 GHz Radiated RF 10 V/m 80 MHz = 2,7 GHz 10 V/m 80 MHz = 2,7 GHz IEC61000-4-3 80 % AM at 1 kHz 80 % AM at 1 kHz NOTE UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration - electromagnetic Immunity Chapter 12 Guide of E-Instruction

Mobile phone:

Configuration item Requirements

System platform Android 4.0 and above or IOS 5.0 and above

Required software Adobe Acrobat Reader or PDF reader software to the same type If you cannot download it on the website, please contact the manufacturer:

Tel: +86 0755-86952278 Fax: +86 0755-86952278

100 12 23 23 he maximum output power rating of the transmitter and the recommended separation distance d in meters in) not listed in above table may be determined by the equation in the corresponding transmitter frequency olumn, where, P is the maximum output power rating of the transmitter in watts (W) according to the ansmitter manufacturer. Olde 1: At 80 MHz and 800 MHz, the higher frequency range applies. Olde 1: These guidelines may not apply in all situations. Electromagnetic propagation is affected by oscorption and reflection from structures, objects and people.

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H.REVISION 历史版本	UPDATE 更改内容	DESIGNER 设计/更改者	DATE 发布日期

折后尺寸: 82mm x 140mm

单黑85%,双面印刷

I FPII 9		汐	平 圳	 乐	普 /	智能	上医;	疗	器械有	限公司	PART NAME	LFR50&60-CE	说明书
LEPU 乐普 深圳乐普智能医疗器械有限公司								MATERIAL	80g书纸				
These Drawings and specifications are the property of Shenzhen Lepu Intelligent Medical Equipment Co., Ltd and shall not be reproduced or used as the basis for the manufacture or devices without permission													
used as the basis for the manufacture or device							or dev	rice	s without p	permission	PROCESS	风琴折	
DIMENSIONAL	MI	M2	SI	S2	PI	P2			PROJECTION	⊕ 🕞		ا ۱۲ ₋ ج_۱۸۸	1
TOLERNACES ±		_					0.5				PART NO:		DEVICION
0-6 0.05 0.10 0.15 0.20 0.05 0.10 0.5 6-30 0.10 0.20 0.15 0.25 0.10 0.15 1.0						UNITE	mm	SZ02-WG	-47-000136	REVISION:			
30-80						0.40			SCALE	1.1	DESIGN		A0
80~180	0.15	0.30	0.25	0.45	0.40	0.80	3.0		SCALE	1.1	DESIGN		AU
180~315						1.20			SIZE		CHECKED		DATE:
315~800	0.30	0.80	0.70	1.10	0.80	1.50	4.0		SIZL		CHECKED		I DATE:
REMARK				Rο	НS				SHEET	2 OF 2	APPROVED		2020/7/4