

Service	13
Specification	14
Operation	15
Specification	15
Specification	15
Specification	15
Section	16
TC	16

Chapter 1 Safety Instructions

1.1 Warning

- 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 any kind.
- Do not keep the thermometer in extreme environment.
- Please keep a distance of 0-5cm between the thermometer sensor and 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.
- If the thermometer itself or its scanning device is damaged, do not continue to use, do not repair the damaged thermometer without authorization, and do not insert any sharp objects into the scanning area or other openings of the thermometer.
- 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 temperature instability.

1.2 Note:

- Please follow some instructions offered in Cleaning and Maintenance 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 drop the thermometer or expose it to shock or vibration; do not twist the thermometer or its sensor.
- Protect the thermometer sensor from dirt and dust.

1.3 Description of graphic symbols

Symbol	Description	Symbol	Description
	Warning		Liquids
	Avoid rain		Avoid sunlight
	Type of application part		Fragile
	Sequence number		Production date
	Temperature limit		Humidity limit
	Detailed instructions for electronic devices		Consult the instruction manual
	Valley		Atmospheric pressure
	Manufacture		

1.4 Environmental protection

The company designs and manufactures temperature measurement products according to the requirements of safety and environmental protection. This equipment will not cause any harm to people or the environment if any cover of the product is not disassembled, or if the equipment is always used correctly. If permitted by law, materials that may be harmful to the environment must be disposed of in the correct manner.

Warning:

Do not dispose of waste from infrared temperature measurement products with industrial or household waste. According to the requirements of local and national environmental regulations, the waste generated by ultrasonic equipment should be treated in a correct way, and the equipment should be discarded when it reaches its service life. Reusable materials can be recycled by qualified waste disposal companies to reduce environmental pollution. Relevant matters, please ask our company's service agency, or properly dispose of in accordance with the methods of local garbage collection facilities.

Chapter 2 Product Description

2.1 Scope of application

It is suitable to display the temperature of the measured object by measuring the thermal radiation of the measured object.

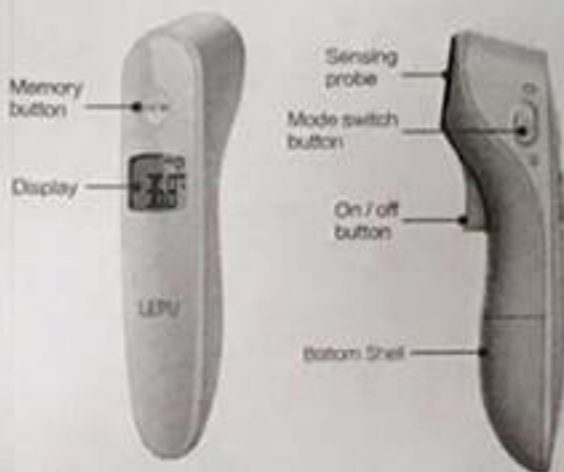
2.2 Contraindication

N/A

2.3 Structural composition

The infrared thermometer is composed of a sensor, a button, a display screen, a battery cover and a main engine.

2.4 Product photo



2.5 Display screen



1. Object mode symbol	5. Unit symbol
2. Temperature display value	6. Maximum symbol
3. Sound switch symbol	7. Low battery symbol
4. Measurement mode symbol	8. Decimal point

2.6 Key parts

NO	Component name	Specification and model
1	Sensor	HTS-K01
2	MCU	HY2P54

2.7 Packing list

Names of articles	Quantity
Instruction manual, including warranty card and certificate of conformity	1
2 batteries, AAA 1.5V	1
Main engine	1

Product packaging should contain the items described above. In case of any shortage, please contact Shenzhen LEPU Intelligent Medical Equipment Co., Ltd. or the agent distributor in time.

Chapter 3 Why the Infrared Forehead Thermometer is Required?

3.1 Quick

Using innovative infrared technology, temperature measurements can be made quickly in non-contact mode.

3.2 Accurate and reliable

Measure the thermal energy emitted by the measured object, and use this to calculate the temperature of the measured object. As long as it is kept within 5cm, accurate readings can be obtained.

3.3 Simple and easy to use

Infrared thermometer is an inductive measurement, which can easily measure the temperature even without touching it.

3.4 Safe and hygienic

Avoid contact measurement to avoid bacterial transmission.

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 to a different environment, the difference in temperature or humidity may lead to condensation on it, in which case no use is allowed before condensation disappears.

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 forehead thermometer. The battery installation steps are as follows:

- (1) Open the battery cover.
- (2) Insert the battery and keep +, - poles of the battery in line with +, - poles of the battery holder.
- (3) Close the battery cover.

Note:

Please use 2 AAA alkaline batteries. Please use batteries of the same type, do not mix used and new batteries. Remove the battery when the thermometer will not be used for a long time. The symbol "▼" appearing on the screen indicates that the battery runs out; please replace the battery before measuring.

4.3 Starting up

Press the "ON/OFF" button, then the backlight of the display 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; at this time, the backlight goes out, the LED keeps flashing, and the equipment gets ready for measurement. If there is no operation for about 60 seconds, the equipment will shut down automatically.

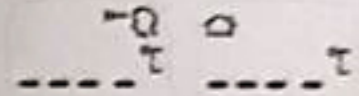
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4.4 Placement

Place the infrared thermometer within 5cm from the measured object. In non-contact mode, the blue guide light will point at the part you are aiming at. If the part to be measured is covered by dirt, please clean the part in advance to improve the accuracy of the reading. When measuring, remember to keep the infrared thermometer and the measured object still, the activity will affect the temperature reading.

4.5 Mode switch

Toggle the slide switch to select the temperature measurement / calibration mode.



4.6 Sound switch settings

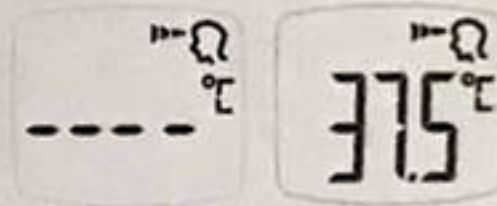
In shutdown mode, press and hold the button "Memory", it first displays "M", which flashes along with the symbol "M"; press and hold the memory button for more than 4 seconds, it displays "C + human icon + sound icon"; if the sound is on currently, a "bi" will be heard when entering this mode.

Note:

The equipment will shut down automatically if there is no button press for 60 seconds. It defaults to the current setting after rebooting, while it will save previous settings in case of power failure.

4.7 Measurement

Put the slide switch in the measurement mode, press the "switch measurement" button to turn on the thermometer, point the thermometer sensor head at the object to be measured, press the "switch measurement" button, and hear a beep after about 1S. "bi" sound (no sound if the sound is turned off) indicates that the temperature has been measured, and the test result is displayed on the LCD screen.



Note:

When the measured temperature is <40.0°C, the LCD backlight is green; when the measured temperature is ≥40.0°C, the LCD backlight is green red and gives a warning with sound of "Bi", "Bi", "Bi".

4.9 Memory query

Press the button "Memory" to start up the thermometer, the screen displays "---- M" and the symbol "M" flashes. Press the button "Memory" again to display the number of memory groups + M icon, and about 1 second later, show the display memory value + the symbol "M" flashes.



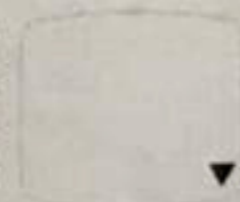
4.10 Memory deletion

In shutdown mode, press and hold the button "Memory", the sound setting appears 4 seconds later at first, and keep holding to clear the memory value 8 seconds later, at this time, it shows "CLr + M", which flashes with the sound of "Bi-Bi-Bi". After clearing, the equipment will shut down automatically.



4.11 Low battery indicator

When the battery voltage is below 2.60V, only the low-voltage symbol will appear after starting up, and it cannot be used for measurement before replacement of the battery.



4.12 Shutdown

The equipment will shut down automatically if there is no operation for 60 seconds.



Chapter 5 Troubleshooting

5.1 Measured temperature too high

Error message on screen	Meaning of show	Possible causes and solutions
	Measured temperature is too high (above 42.9°C)	The result exceeds the measurement range limit
	Calibration measurement temperature is too high (above 100°C)	The result exceeds the measurement range limit

5.2 Measured temperature too low

Error message on screen	Meaning of show	Possible causes and solutions
	Measuring temperature is too low (below 32.0°C)	The result exceeds the measurement range limit
	Calibration measurement temperature is too low (below 0°C)	The result exceeds the measurement range limit

5.3 Ambient temperature out of range

Error message on screen	Meaning of show	Possible causes and solutions
	The ambient temperature is lower than 5°C	Move to another warm room
	The ambient temperature is higher than 40°C	Move to another cold room

5.4 Other error messages

Error message on screen	Meaning of show	Possible causes and solutions
	Espron error	Please contact the after-sales service.
	Ambient temperature is unstable	Please wait for the ambient temperature to stabilize

Chapter 6 Cleaning and Maintenance

Clean with a dry soft cloth. If the engine is particularly dirty, wipe with a wet and wrung out cloth and then dry it with a dry cloth. Disinfect the product only when necessary; disinfection is recommended to carry out by wiping the product surface twice with disinfectant. Do not soak or use gas for disinfection. Use medical alcohol is recommended. If necessary, when repeatedly measuring temperature, please clean the infrared thermometer first. Use an alcohol cotton swab or a cotton ball dipped in alcohol (70% alcohol) to clean the infrared thermometer case and temperature head, take care to avoid liquid from entering the infrared measurement. Do not use corrosive cleaning agents, thinners or benzene solvents inside the thermometer, and do not immerse the infrared thermometer in water or other cleaning solutions.

Do not expose the equipment to high temperature, high humidity, dust or direct sunlight.

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

