

KENTRO

INSTRUCTIONS FOR **NECK MASSAGER**



KENTRO

Shenzhen Kentro Medical Electronics Co.,Ltd

2nd Floor, No. 11, Shanzhuang Road, Xikeng Village,
Yuanshan Street, Longgang District, Shenzhen City,
Guangdong Province, China

[Tel]: +86(755)33825998, [Fax]: +86(755)33825996



KTR-140

Product Introduction

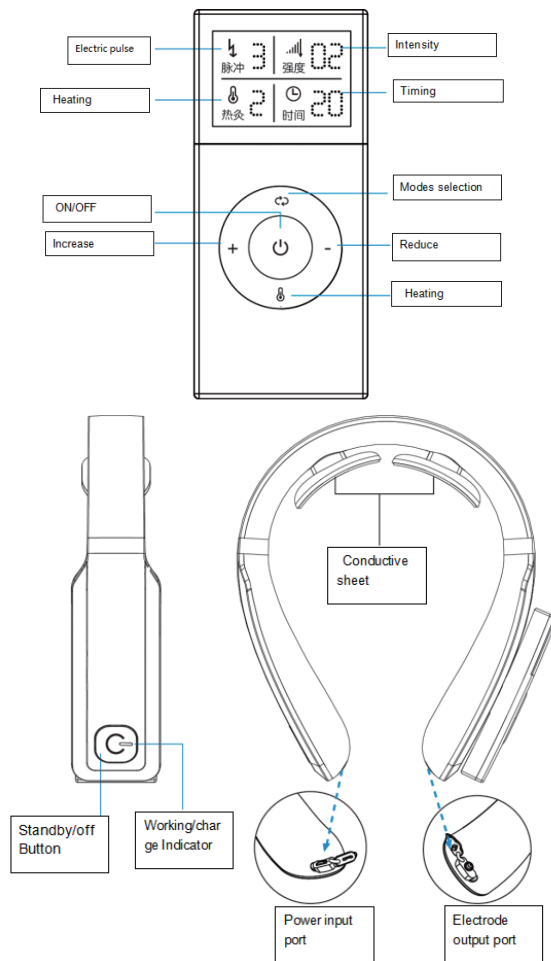
The KTR-140 intelligent neck massager adopts a streamlined ring design that conforms to the physiological curvature of the human cervical spine. It uses low-frequency electrical pulses, magnetic effects, hot compresses, and circular traction to form a composite energy field for simultaneous multi-channel health care. Always maintain the correct physiological posture, providing a platform for the health of the cervical spine. Let you relax and enjoy the multifunctional system health care at home, so that you can get more value-added enjoyment!

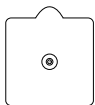
The scope of products

For people with cervical discomfort

Product Features

- Designed according to ergonomics, beautiful and scientific, in line with the neck curve
- Low-frequency electric pulse, magnetic effect, hot compress and circular traction four-in-one synchronized health care form a composite energy field
- Hot compress, using three levels of low temperature, medium temperature and high temperature, you can choose according to your own needs and ambient temperature
- Using 3D smart fitting technology, you can easily adjust the electrodes according to your neck curve, making it more comfortable to use
- 2 automatic combined massage modes, 4 manual massage modes, can be selected according to different needs, suitable for a wider range of people
- Built-in multiple healthy magnets
- Built-in rechargeable battery





Electrode sheet (optional)



USB charging cable

How to Operate

1. Powersupply

1) USB power supply

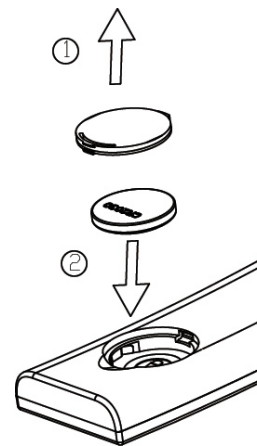
Insert the output end plug of the Micro USB cable into the lower hole (DC interface) of the massager, and then plug the input end pin of the Micro USB cable into the mobile phone charger or power bank (5V DC 1A or 2A)

1) Built-in rechargeable battery power supply。 When no external power supply is needed, the built-in rechargeable battery can supply power

2) Remote control battery installation

Install the button battery CR2032 in the battery compartment on the back of the remote control. The installation method is as shown in ①-② as shown in the figure below. Use your fingers to unscrew the battery cover from the groove of the battery cover, and turn the button battery CR2032 front (positive +) upward , Put it in the battery compartment of the remote control, insert the positioning pin on the top of the battery cover first, and then press the battery cover tightly.

Installation



2、 Function operation

1) Wet the cervical spine and the conductive sheet with a wet towel, and then put the massager close to the neck. If there is sweat on the cervical spine, it must be cleaned before use.



2) Press the host key " " to enter the waiting state for signal reception, and the main unit's working indicator flashes (the main unit maintains the waiting signal reception state for 1 minute, and it will automatically shut down if it does not receive a remote control signal within 1 minute) Press the "" button on the remote control to turn on, the main unit will beep once, the screen backlight will light up, and the main unit work indicator will stay on, that is, the following settings are available:

A、 Automatic combination mode 1 massage




B、0th gear massage intensity

C、 Moderate heat

D、 Timed 15 minutes

If you want to stop working, you can press and hold the remote control "  " button for 2 seconds to shut down, or press the host "  "Shut down directly.

3) "  "Key using

In the off state, press the "  " button on the host to enter the standby state, and press the "  " button on the remote control to turn on; When it is on, short press the "  " button on the host to turn off. When powering on, press and hold the remote control "" button for 2 seconds to power off

4) "  "Key using

Pulse mode switching button, you can select six pulse modes by pressing the remote control " " button, and the default setting is mode 1 (automatic combination 1 mode) when power on. The intensity is the first gear after each mode change. The six massage modes are

Mode 1: Automatic combination 1

Mode 2: Automatic combination 2

Mode 3: Scratch

Mode 4: Press

Mode 5: Roll

Mode 6: Beat


The automatic combination mode 1 and 2 are manual modes after the automatic cycle, which automatically switches every minute. It is recommended to use the automatic combination mode.


5) ""+" key using

Pulse intensity enhancement key. Each time you turn on the machine, the intensity is set to 0 level. Press the "+" key once to increase the intensity by one level. There are a total of 0-16 levels of intensity. The massage should be at a self-acceptable intensity. It is recommended for the first use Start to adapt with weak gears.


6) "-" key using

Pulse intensity weakening key, each time you press the "-" key, the intensity will be weakened by one level, with a total of 0-16 levels.

7) "  "key using

Press the "  " button on the remote control to switch between three heating modes, namely low heat (1), medium heat (2), and high heat (3). The corresponding indications on the screen. When switched to "0", the heat stops, and the default is medium heat

8) Timing adjustment

In the power-on state, short press the "  " button on the remote control to switch the timing time. The timing time is divided into 6 levels: 5, 10, 15, 20, 25, and 30 minutes. The default is 15 minutes.

It is recommended to use 1-2 times a day, electric pulse massage for 15 minutes each time, and heating for 15-30 minutes each time

>>>The use of remote control button battery

1、 The remote control uses a "CR2032" button battery, which can be used for about 3 months. (Use 30 minutes per day).

2、 When you press the button, the remote control L CD backlight brightness is significantly weakened or the remote control host is not sensitive, it means that the battery power is low, please replace with new batteries.

3、 When not using the product for a long time, please remove the battery. Otherwise, it may cause battery leakage and cause machine malfunction.

4、 Please do not use batteries other than the specified types.

5、 Do not install the wrong battery's positive and negative poles, with the positive pole facing up and the negative pole facing down.

6、 Do not use the battery in an environment above 45°C, otherwise it will affect the performance and life of the battery.

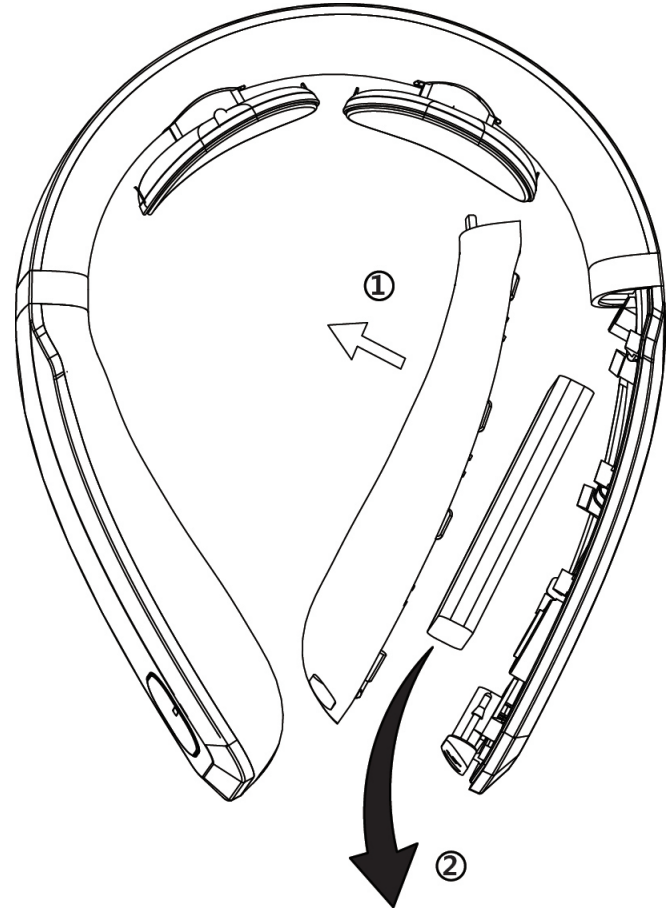
7、 Please dispose of the used battery in accordance with the city's relevant environmental protection regulations.

>>Use of rechargeable batteries

- 1、 In the process of using the smart cervical spine massager, when you hear the buzzer continuously prompting "di, di, di", it indicates that the built-in lithium battery is low, and you can use the USB power supply to charge. When the battery is fully charged, the green indicator light is always on, and it takes about 2 hours to fully charge.
- 2、 It can be used for about 5 days after fully charged (2 times a day).
- 3、 Under normal use, the life of this rechargeable battery is ≥ 500 times of charge and discharge, and it can be used for about 2-3 years (30 minutes per day).
- 4、 When the rechargeable battery is not used for a long time, the service life of the rechargeable battery will be shortened. It is recommended to fully charge it at least once a month.

>>How to remove therechargeable battery

- 1、 The built-in lithium battery of this product contains substances that may pollute the environment. Before disposing of this product, the built-in lithium battery should be removed.
- 2、 Before disassembling this product and removing the lithium battery, be sure to turn off the power or cut off the power.
- 3、 The detailed steps to take out the lithium battery are shown in the figure below. Disassemble the product in the order of ①-② and take out the lithium battery.
- 4、 The taken-out lithium battery should be safely disposed of in a place specified by the government or a recycling unit. (as the picture shows).



Cleaning Maintenance and Storage

1. Cleaning and Maintenance

- 1) If the massager becomes dirty, wipe it with a dry soft cloth or dry towel.
- 2) Please clean the conducting strips frequently with a wet soft cloth or towel dipped with water; if they are too dirty, use a soft cloth with a little medical alcohol (with a concentration of 75%) to wipe them.

2. Storage

- 1) Keep this massager out of the reach of children.
- 2) Don't store it in places with direct sunshine, high temperature or moisture.
- 3) Store it in a dry and good ventilated place.
- 4) Don't disassemble, repair and refit this massager without permission, or a trouble or accident will be caused.




Product scrapping





In order to avoid environmental pollution, when the massage device and accessories are aging and cannot be used, please do not discard them at random. Dispose of them. Dispose of the treatment according to local environmental protection requirements.



Safety Precautions





The warning symbols and illustrations shown in the manual are intended to enable you to use the product safely and correctly and to prevent injury to you and others.



Warning signs, legends and their meanings are as follows:

Warning Symbol	Meaning
 Danger	It indicates that there is a danger of personal casualty or serious injury in case of improper use of this product.
 Warning	It indicates that there is a risk of personal casualty or serious injury in case of improper use of this product.
 Attention	It indicates that there is a risk of personal injury or product damage in case of improper use of this product.

Legend Symbols	
	The symbol"  "means prohibition (things not permitted). The specific contents of such prohibitions are shown behind or near this symbol with words or illustrations. The symbol on the left means "Dis-assembly Prohibited".
	The symbol"  "means compulsive requirements (things that must be obeyed). The specific contents of such compulsive requirements are shown behind or near this symbol with words or illustrations. The symbol on the left means "general compulsive requirements".

 Danger	
Never use this apparatus with other electronic medical devices such as heart pacemaker, artificial heart-lung machine used to sustain life, EKG machine, etc., or otherwise it will lead to a dangerous situation. If the patient is being treated with high frequency surgical equipment and this massager, it is likely to give rise to a burn at the massager's electrode or damage this product. If this massager is used near short -wave or microwave therapeutic equipment (1 meter), it will be possibly unstable in output.	

 Warnings	
This apparatus cannot be used for pregnant women and those in menstrual period and people with sensitive skin, heart disease, abnormal blood pressure, malignant tumor, cerebral vascular disease, or acute disease, or others under treatment before consultation with the doctor.	
<ol style="list-style-type: none">1. Please don't use this massager near your heart, head, mouth or private part, skin with a disease.2. Prohibit using it for patients with perceptual disability.3. Prohibit using it for patients not sensitive to heat.4. Don't use it in high temperature, electromagnetic radiation, inflammable or damp places.5. Prohibit using it when bathing, sweating or sleeping.	
Please don't disassemble, repair and refit this massager without permission, or a trouble or electric shock will be caused.	

<div>  Attentions </div>	
1. Don't move this massager during use. To change the massage area, power it off first before changing, or otherwise a serious irritation will be caused. 2. Don't use this massager on children or those without expressing ability consciousness. 3. In case of any discomfort in using this massager, stop using immediately and seek a doctor.	

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning
Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment
<p>NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

Technical Parameters and Specifications

1、Product Specifications

Product: neck massager
 Model: KTR-140
 Power supply : 5V DC 1A
 lithium battery : 3.7V DC 1500mAh
 Input power: 5W
 Remote control size: 37x 82.5x11.8mm
 Host size : 166x134x42mm
 Net weight: 175g

2、Normal working conditions:

Ambient temperature: +5℃ ~ +40℃;
 Relative humidity: ≤80%;
 Atmospheric pressure: 86kPa ~ 106kPa;

3、Electrical performance

Pulse frequency: 1Hz-1000Hz;
 Pulse Width: 20μs~400μs;
 Pulse shape: Square wave;
 Rated load impedance: 500Ω, ±10% Tolerance is ±10%;
 Heating temperature: +38℃ ~ +48℃ (25℃ environment);
 Surface magnetic field strength: not less than 0.01T;
 Timing time of massager: 5-30 minutes, tolerance ±10%;

4、Transport and storage conditions

Environment temperature: -20℃ ~ +55℃;
 Relative humidity: ≤93%;
 Atmospheric pressure: 50kPa ~ 106kPa.

Troubleshooting and Solution

Problems	Inspection Item	Solution
Failure to Boot	Is the internal rechargeable battery of the host low?	If the internal rechargeable battery is low, please charge it.
	Is charging normal?	Check if the USB charging cable is plugged in. After the correct connection, the massager charging indicator will flash.
The massager displays normally, but it doesn't massage or the patient feels nothing.	Check whether the massager electrodes contact directly with the patient's neck skin.	The massager electrodes must contact directly with the patient's neck skin.
	Check whether there are some hairs, clothing or accessories appear at the contact of electrodes and skin.	Please remove or move the article.
	Is there any adjustment to the massage?	After the massage device is turned on, the default state is 0 gear strength, and it is necessary to adjust the strength, or some customers have no feeling for the 1-2 gear strength, please increase the intensity.
Patient feels a sharp pain.	Check whether the massager electrodes contact closely with the patient's neck skin.	Wet the patient's neck skin with a wet towel first and then contact the electrodes closely with skin and properly adjust the intensity and treatment mode.
	Check whether the massage lasts too long.	Suitable time for treatment is 15~20 minutes.
	Check whether the patient is massaged in a high intensity.	Properly reduce the intensity.
	Check whether the patient's skin is sensitive to electrodes.	Check if the patient's skin had any allergies in the past; if any slight allergy, please shorten the massage time; and if any serious allergy, please stop using this apparatus immediately and then offer desensitization treatment.

Patient feels a sharp pain.	Check whether the weather is cold and the patient's skin is dry.	Wet the patient's skin and the surfaces of electrodes with a wet towel.
	Use after staying up late	Please use the next day after the day and night due to electrolyte drop.
	Check whether there are some hairs, clothing or accessories appear at the contact of electrodes and skin.	Please remove or separate the jewelry and hair.
The stimulation is quite weak.	Check whether the massager electrodes contact closely with the patient's neck skin.	Please make the electrodes contact closely with the patient's skin and then properly adjust the intensity and massage mode.
	Check whether the electrodes become dirty or oily.	Clean the surfaces of electrodes.
	Check whether the battery is in low power.	If the power is low, please use an external power supply.
Red dot after use	Is there a strong tingling sensation during use, is it useful for other ointments?	Please stop using it, usually 3-5 days will disappear on its own.