



Smart Neck Massager

Model: 4098, 4098(RED), 4353

User Manual

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Smart Neck Massager

(Model: 4098, 4098 (RED), 4353)

1. PRODUCT INFORMATION

Intended use: this Smart Neck Massager has 3 kinds of electric pulse mode, 15 gear electric pulse force, electrical stimulation in the neck to relieve neck pain. It can also provide a constant temperature of 37°C to 43°C to relieve neck discomfort.

Frequently used functions: it is suitable for the adjuvant treatment of cervical pain, numbness, headache and dizziness caused by cervical spondylosis.

Applicable range: Fully charged state can promote local blood circulation, relax local muscles, achieve anti-inflammatory, swelling, analgesia, fatigue elimination.

The Smart Neck Massager adopts a streamlined ring-shaped therapeutic device conforming to the physiological curvature of the human cervical vertebra, which is mainly composed of a host (ring type), a conductive skin electrode (conductive plate), a hot moxibustion device, and adopts low frequency electrotherapy, magnetic effect, enthalpy, and circular traction. Four-in-one synchronous multi-channel therapy magnet, remote control and USB cable.

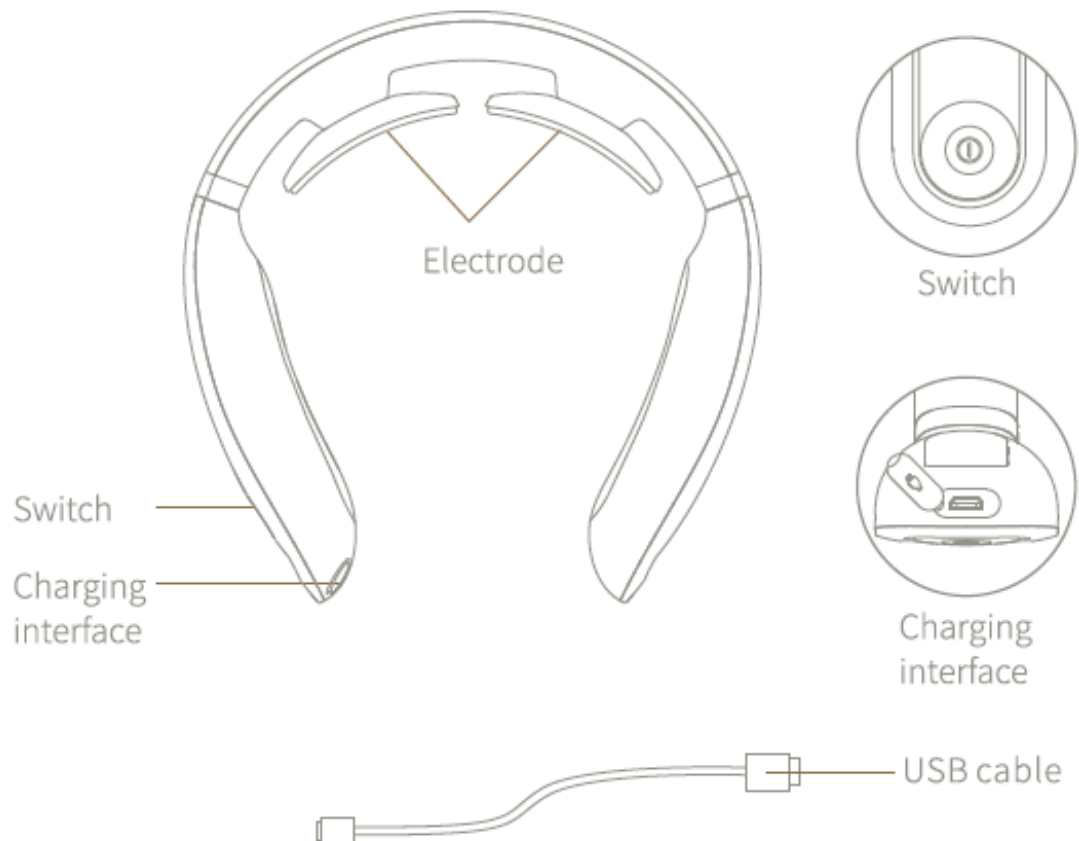
The main structure and components of the product are shown in the following figure in chapter 3, A composite energy field is formed, which reaches the deep tissue and the pelvis of the body. Throughout the treatment process, the performance of the correct physiological posture posture has always provided a platform for the correct treatment of cervical spondylosis. Let your home's easy and enjoyable multi-functional system treatment, so that you can enjoy more value!

2. LIST OF ACCESSORIES AND DETACHABLE PARTS

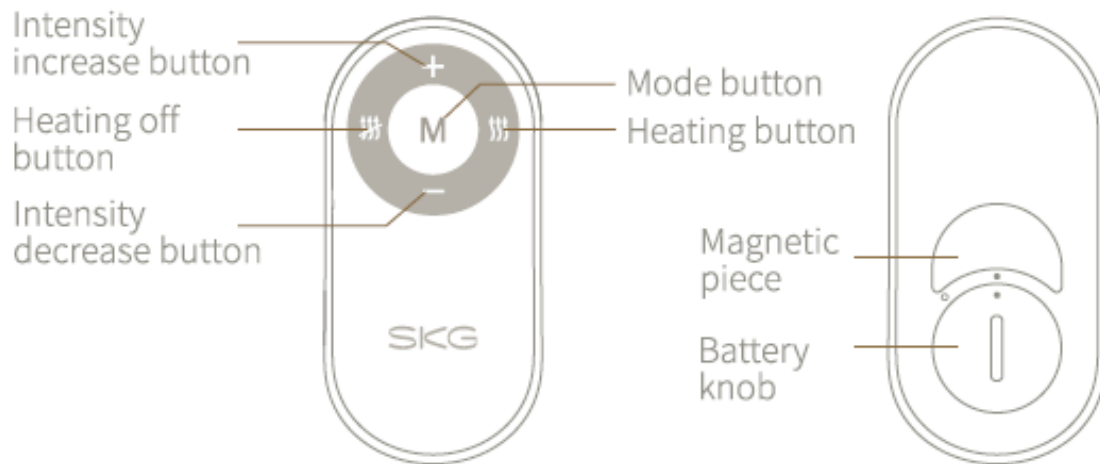
- Smart Neck Massager (host, Model:4098(or 4098 (RED), or 4353));
- User manual (including the warranty card);
- Remote control;
- Conforming Certificate;
- Button battery (for remote control, CR2032);
- USB cable

Note: Model 4098 (RED), Model 4353 and Model 4098 are the identical except for the colour of enclosure.

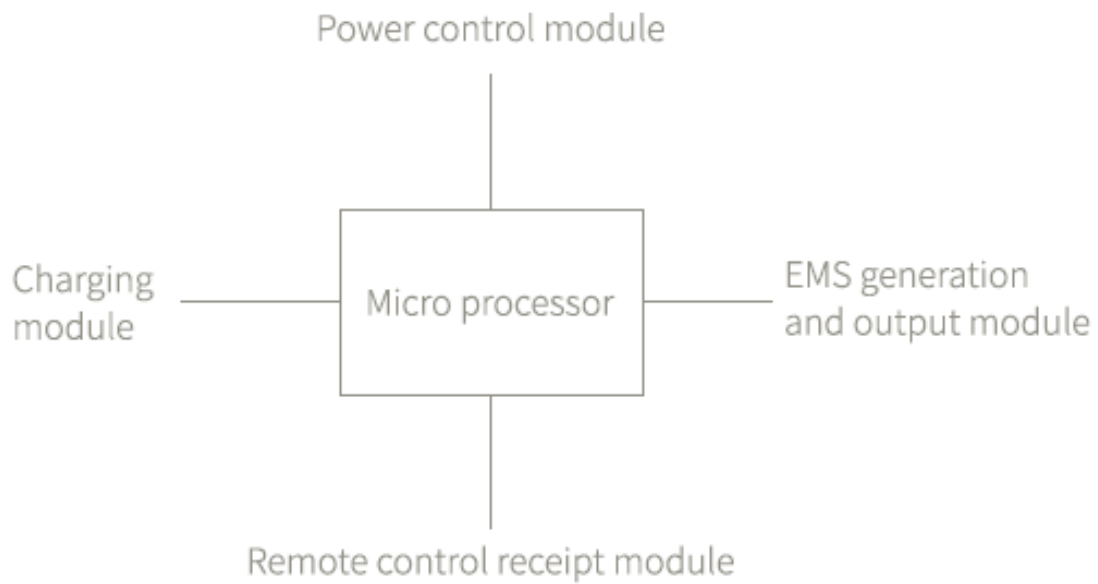
3. PRODUCT DIAGRAM



Remote control



Electrical schematic diagram



4. OPERATION METHOD

Wearing method



1. Before use, first wet the skin of the cervical spine with a wet towel, and then put the product around the neck, make the electrode close to the skin of the cervical spine, adjust the position of the product, turn on the host and adjust the appropriate massage intensity and mode.
2. Long press the host "ⓘ" button for two seconds, turn on the host (with the buzzer "beep" sound and prompt light), enter the default mode with the default level (0). Press the host button, add the intensity by one level with a "beep" sound. Until level 15, press the button and hear two "beep" sounds with no intensity change. Long press host "ⓘ" for two seconds when the machine is on, hear two "beep" sounds and turn off the products.
3. "M" on the remote control is the mode button. Press the mode button to switch the mode. There are three modes. After each press, it will send out "beep" sound and switch to higher mode. The three modes can be switched in cycle (Note: M1 mode, M2 mode, M3 mode). Each time a mode is switched, the intensity returns to the default 0 level.
4. "+" on the remote control is the intensity increase button. After each press, it will send out "beep" sound and switch to higher mode. The intensity is divided into 15 levels (0, 1, 2 ... 15). When the intensity is at level 15, when pressing "+", it will send out two "beep" sound with same intensity at level 15.
5. "-" on the remote control is the intensity decrease button. After each press, it will send out "beep" sound and switch to lower mode. The intensity is divided into 15 levels (15, 14 ... 0). When the intensity is at level 0, it will send out two "beep" sound with same intensity at level 0 after pressing "-".

6. Long press "⊕" button for two seconds, turn on voice prompts; long press "⊖" button for two seconds, turn off voice prompts.
7. "⏻" on the remote control is the heating button. Press the heating button and start host heating function with a "beep" sound. The two electrode will be hot at the temperature of 37~41°C.
8. "⏻" on the remote control is to heating off button. Press the heating off button and stop the heating function with two "beep" sounds.
9. The host is scheduled for 15 minutes. When the host is turned on, it will automatically shut down after 15 minutes.
10. When the host is turned on, the product will automatically shut down in 30 seconds when the product is not put on normally.

Product charging

1. When the host battery is running out, the power button lights up in orange. You can use the Micro-USB cable to plug into the other end of the host and plug in the charger with the Android head (the output is 5V1A). When charging, the orange light flashes. When it is full, the blue light flashes.
2. When the remote control battery is replaced, a coin can be inserted into the battery knob slot. Turn it counterclockwise to the alignment position to open the replacement battery. Note that the battery positive pole is facing up. (Battery model: CR2032)

Tips

- The product will be automatically turned off after 15 minutes of operation. It is recommended to use it for no more than 30 minutes per day.
- The product should be stored in a dry and ventilated place after use.
- Do not place other weights on the product.
- Don't pull on the rubber plug at the USB charging port, as it may cause rupture and falling off.
- At least 30 min required for ME equipment to warm from the minimum storage temperature between uses until it is ready for intended use. At least 30 min required for ME equipment to cool from the maximum storage temperature between uses until it is ready for intended use.
- Recommended adapter specifications

- Output: DC 5 V; 1 A
- Rated input voltage shall not exceed 250 V
- Classification of protection against electric shock: Class II
- The adapter need to comply with IEC 60601-1, and provide 2 MOPP (two means of patient protection) between primary circuit and secondary circuit.

Lithium Battery

Rechargeable Lithium Battery for Massager:

- 1) During the use of the therapy device, when the beep is “spit” for 3 consecutive times, it means that the built-in lithium battery is low, you can use the adapter to charge, put the toggle switch to “charge position, the power indicator flashes green. When the battery is fully charged, the power indicator indicates that the green light is always on, and it takes about 3 - 4 hours to fully charge.
- 2) It can be used for 5 - 7 days after full charge (30 minutes every 4 days).
- 3) Under normal use, the life of the rechargeable battery is > 500 charge and discharge, it can be used for about 2 - 3 years (by 30 minutes per day).
- 4) When the rechargeable battery is not used for a long time, the life of the rechargeable battery will be shortened. It is recommended to charge the battery at least once a month.
- 5) The rechargeable battery can only be replaced by a service person. Internally Lithium battery, DC 3.7 V, 1500 mAh. (Manufacture: Shenzhen EPT Battery Co., Ltd, Model:103048PH)

Battery for Remote Control:

- 1) The remote control uses the “CR2032” button battery (Lithium battery, DC 3 V, the battery need to comply with IEC 60086-4), which can be used for about 60 days. (by 30 minutes per day).
- 2) When the button is not working, it indicates that the battery is low. Please replace it with a new one.
- 3) When not using the product for a long time, remove the battery. Otherwise, it may cause the battery to leak and cause the machine to malfunction.
- 4) Do not use the machine in an environment exceeding 40°C, otherwise it will affect the performance and life of the battery.

Warning:

Do not use batteries other than the specified type. Incorrect replacement of lithium batteries would result in an unacceptable risk.

5. SAFETY PRECAUTIONS

5.1 Precautions

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



Danger

- Please never use the product with the following medical electronic devices:
 1. Heart pacemakers and other implantable medical electronic devices;
 2. Artificial heart and lungs and other life-supporting medical electronic devices;
 3. Electrocardiographs and other medical electronic devices;

* These medical electronic devices may cause malfunctions and can be life-threatening.
- The device can't be used with other medical electronic instruments, such as cardiac arresters, artificial heart and lungs, medical electronic devices such as medical electronic devices, electrocardiographs, etc., otherwise it will cause danger.
- Women with menstrual period, sensitive skin, heart disease, abnormal blood pressure, sub-sexual drip, cerebrovascular patients, acute patients or other doctors who are being treated by a doctor must consult a doctor before using this product.
- Do not use it for children or people who do not have the ability to express themselves.
- It is forbidden to use when bathing, sweating or sleeping.
- Patients with skin sensory impairment or those who are not sensitive to heat are prohibited from using it.
- Do not use this product in places with high heat, flammable, electromagnetic radiation or humidity.
- Do not use this product beyond the scope.



Warning

- If the patient applies high-frequency surgical device and the product on the body at the same time, the electrode of the product may cause burns and damage to the product.
- If the product is used near (1M)a short-wave or microwave therapy device, the output of the product may be unstable.
- The electrode should prevent contact with wounds and scars during treatment.
- When you use the product, don' t place the electrode near the chest heart, otherwise the risk of heart fibrillation will increase.
- The product is recommended for use by one user. When it' s used by different users, clean the electrode on the product before using it.
- When you use the product, stick the electrode tightly and evenly to the skin.
- The electrode of this product has a heat-generating function. When the hot compress function is applied on the same part for a long time (more than 15 minutes), it may cause low temperature burns.
- If you feel unwell during or after use, stop using it and seek medical attention.
- This product contains a lithium battery. Don' t disassemble, modify, flood the product, or throw it into fire, otherwise it may result in product damage and explosion.
- In the following cases, consult your doctor before use, otherwise it may cause accidents or cause physical discomfort.
 1. Patients under medical treatment and feel discomfort.
 2. Patients with abnormal heart and brain nerves.
 3. Patients whose body temperature exceeds 38 degrees (fever period).
 4. Patients with infectious diseases.
 5. Patients with skin perceptual disorders or skin abnormalities.
 6. Patients under medication
 - 7, patients with abnormal blood pressure.
 8. Patients who are not free to express their wishes.
 9. Patients with sensory impairment due to high peripheral circulatory disorders such as diabetes.
 10. Patients with skin allergies to stainless steel electrodes.

- Usage under the following conditions is prohibited:
 1. Malignant tumor patients
 2. Patients with bleeding tendency
 3. Pregnant women, lying-in women
 4. Acute suppurative inflammation patients
 5. Heart pacemaker users
 6. Patients with metal implant
 7. Near the heart
- Don't apply it near the heart, above the neck, head, mouth, genitals, or skin disorders and don't treat the soles of the feet simultaneously. In addition, don't compress the internal organs when using. Otherwise, an accident or physical discomfort may occur.
- Don't use with other medical devices or more than 2 products. Otherwise, nausea or physical discomfort may occur.
- Don't use for purposes other than the ones described in the instruction manual. Otherwise, accident or malfunction may occur.
- Don't use the electrode with a chipped or damaged surface. Otherwise, accidents or malfunctions may occur.
- Don't disassemble, repair or modify this product without authorization. Otherwise, malfunction or electric shock may occur.
- Do not applied the stimulation across or through the head, directly on the eyes, covering the mouth, on the front of the neck, (especially the carotid sinus) or from electrodes placed on the chest and the upper back or crossing over the heart, etc.
- Be careful to strangulation due to cables and hoses, particularly due to excessive length.
- Do not posit the adapter to make it difficult to operate the power plug which uses to isolate the equipment circuits electrically form the supply mains.
- Please use accessories and detachable parts specified or authorized by manufacture. Otherwise, it may cause damage to the unit or danger to the user or patients.
- Don't connect this equipment to other equipment not described in the instructions for use.



Note

- If you feel unwell due to an abnormality in this product, stop using it immediately.
- If your body or skin feel strange, consult your doctor and follow the doctor's advice.
- If you want to move the pad or place it on other person during massage, be sure to turn off the power before moving it. Otherwise, you may receive a strong electric shock.
- Don't treat while having electronic devices. Otherwise, the electronic device may malfunction (for example, the electronic watch disorder).
- If abnormal operation occurs, immediately switch off the power supply and remove it. Otherwise, high temperatures or short circuits may occur and lead to an accident. At the same time contact customer service for after-sales advice.
- Don't plug or unplug the USB charging cable with wet hands. Doing so may result in electric shock or accident.
- Don't use it for children or people who have no expressiveness, otherwise it may cause an accident or cause discomfort.
- Don't use it in a place with high humidity, such as a bathroom, or use it while bathing. Otherwise, you may receive a strong electric shock and damage the product.
- Don't use it when you are sleeping. Otherwise, it may cause the main body to malfunction. In addition, the pad may move to other parts and cause discomfort.
- Don't use while driving a car, otherwise it may cause physical discomfort due to excessive stimulation, resulting in an accident.
- Don't stick the electrode to the affected area for a long time, otherwise it may cause skin inflammation.

- When massaging, don't use the metal parts of belts, necklaces, etc., to touch the electrode, otherwise you may receive a strong electric shock.
- Don't apply the product on the same place for long time (more than 30 minutes), otherwise it may cause muscle fatigue at the massage site to cause physical discomfort.
- Please wear this product correctly and use it on the cervical spine. Wear it symmetrically. Otherwise, accidents or physical discomfort may occur.
- When unplugging the USB charging cable from the body, do not pull on the cable, but rather, pull the cable plug and pull it out. Otherwise, it may result in electric shock or damage to the product.
- The product electrode has a surface heating function for users who are not sensitive to heat or subject to heat allergies.
- Please consult a doctor before use.
- When the product is working for a long time, the surface will be hot, which is normal.
- When the remote control battery is idle for a long time (more than 3 months), remove the battery.
- When the remote control battery is exhausted, replace it with a new battery of the same model as soon as possible. Battery model: CR2032.
- When replacing the remote control battery, do not install the pole reversibly.
- After the remote control battery is exhausted, dispose of it according to the relevant regulations in your place of residence.
- If cause allergic reactions due to the use of this product, or the performance of ME equipment has changed, stop using it immediately and consult a doctor.
- The patient is an intended operator. The patient can perform electronic treatment, change battery of remote control and charging the rechargeable battery under normal circumstances. The patient can clean and maintain the device and its accessories according to the user manual when the device not in use.

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:

- 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

Changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

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.

Suggestion


- Please make sure that the host button is working properly.
 - When you use it for the first time, or if the battery loses power after the product has been left idle for a long time, please perform the charging operation according to the instruction manual to ensure that it can work normally.
 - When disposing of this product, please dispose of it in accordance with the relevant environmental protection regulations of the city, otherwise it may cause environmental pollution.
It is recommended for people aged 16 and above.
 - Don't use or store this product in the following locations:
 - Places exposed to direct sunlight
 - Places subject to high temperature and humidity
 - Places with water
 - Dusty places
 - Places near the fireworks
 - Places susceptible to vibration shocks
 - Strong electromagnetic places
- Keep out of reach of children

5.2 Product and component recycling instructions

Recycle indicative instructions

In order to protect the environment, when the product or its parts are discarded, as a consumer you have the responsibility to separate them from the domestic waste and send to a qualified recycling site, by which the product or its parts are disassembled and recycled in accordance with relevant national regulations.

Name and content of hazardous substances in products



Part name	Hazardous substances					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Hardware	○	○	○	○	○	○
PCB board	×	○	○	○	○	○
Plastic parts	○	○	○	○	○	○
<p>○: Indicates that the content of the hazardous substance in the homogeneous material of the component is below the limit requirement specified in GB/T 26572.</p> <p>×: Indicates that the content of the hazardous substance in at least one homogeneous material of the component exceeds the limit requirement specified in GB / T 26572.</p>						
 Green life	This product has a “green life” of 10 years according to the product design by the company. The term "green life" is valid only when the product is used under normal conditions as described in the operating instructions of this product.					

Note:

- 1.All other components and their homogeneous materials, which are not listed in the above table, do not contain harmful substances.
- 2.All the harmful substances of components and their homogeneous materials listed in the above table are in line with China RoHS restrictions on the use of hazardous substances strict requirements. Please be assured to use.

5.3 Precaution of scrapped product

Please support the recycling of the rechargeable battery (lithium ion battery).

 Danger	<p>The battery used for this product is a special rechargeable battery. Don't use it for other products. Don't charge the battery that is already removed.</p> <ul style="list-style-type: none">● Don't throw it in the fire and overheat it.● Don't pierce it with nail, impact it or decompose it.● Don't connect the battery directly with the metal.● Don't store it with the necklace, hairpin.● Don't charge, use and place the battery near the fire, under the sun and other places of high temperature. <p>The above circumstances can cause heating, fire and rapture.</p>
 Warn	<p>Please place the removed rechargeable battery out of the reach of infants and young children to prevent being swallowed.</p> <ul style="list-style-type: none">● If it's swallowed by accident, please go to doctor immediately.● Don't touch the liquid when the battery fluid leaks and handle it in the following way.● When the battery fluid gets into the eyes, it presents a danger of causing blind. Don't rub your eyes with your hands directly, instead, wash your eyes with water immediately and find a doctor for diagnosis and treatment. When the battery liquid stains the body or clothing, it may cause skin irritation or injury. Please wash with water and in case of discomfort after that, you will need to go to doctor immediately.● Decompose only when the product is scrapped. Otherwise, it may cause an accident such as fire, electric shock or injury. If you need to repair (except for battery replacement), please consult the store where purchase takes place

Lithium-ion batteries used in this product are recyclable and valuable resources. Please remove the lithium-ion battery and hand it over to the professional body which can carry out rechargeable battery recycling when the battery is not used up.

6. FEATURES

- According to ergonomic design, aesthetic science, in line with neck curve, with hot moxibustion, low frequency electric pulse, electromagnetic effect, circular traction, four-in-one synchronous treatment to form a high using the latest 3D smart fit technology, according to your neck. The curve is easy to adjust the electrode for more comfortable use;
- It can be used for ventilation, phlegm and dampness, and adopts low temperature and high temperature second gear, which can be selected according to its own needs and ambient temperature;
- 2 kinds of automatic combination therapy mode, 4 kinds of manual treatment modes, can be selected according to different needs, applicable to a wider range of people; using remote control operation, simple operation, clear and clear, more humane.

7. CLEANING, MAINTENANCE AND DISPOSAL

7.1 Cleaning and maintenance

- When cleaning and maintaining this product, please turn off the host, use a wet paper towel to clean the electrode. When it is particularly dirty, use a little medical alcohol (alcohol concentration 75%) to wipe and disinfect.
- Please wipe with neutral detergent and soft cloth during daily maintenance, do not use corrosive detergent and don't place it into water for soaking or washing.
- During the cleaning process, water or other liquids should be prevented from entering the body to avoid short circuit and electric shock during use.
- After each use, please clean the electrode. But don't clean and maintain the ME equipment and accessories while the ME equipment in use.

7.2 Disposal

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

8. TECHNICAL PARAMETERS AND SPECIFICATIONS

8.1 Product specifications

Model	4098	Product No.	30152
Item Code	1105050001	Rated Voltage	5V \approx
Rated Power	5W	Battery Capacity	1500mAh
Executive Standard	IEC60601-1:2012		

Model	4098(RED)	Product No.	34167
Item Code	1105070004	Rated Voltage	5V \approx
Rated Power	5W	Battery Capacity	1500mAh
Executive Standard	IEC60601-1:2012		

Model	4353	Product No.	34174
Item Code	1105070005	Rated Voltage	5V \approx
Rated Power	5W	Battery Capacity	1500mAh
Executive Standard	IEC60601-1:2012		

8.2 Technical parameters

Rated load resistance: 500 Ω			
Mode	Rated pulse duration (μ s)	Rated pulse repetition frequencies (Hz)	Maximum amplitude of output voltage (V)
1	40 – 130	12 – 67	62
2	74 – 120	10	62
3	70 – 138	33	62

- Output Waveform: see table above
- DC component: none
- Single pulses energy: <10 mJ (@ 1000 Ω)
- Output r.m.s: <10 mA or 10 mV (@ 500 Ω)
- No-load output: <500 V peak
- Adjustment of output amplitude: continuous uniformity, minimum output is not more than 2% of maximum output.
- Surface magnetic field strength: ≥ 0.01 T
- Heart therapy temperature: 37°C ~ 43°C
- Manufacturer will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to service personnel in parts repair.

9. TROUBLESHOOTING

- If you have problems using the product, please refer to the following tips and solutions.
- If the product is still in a fault condition or cannot be used, turn off the power.
- Users should not disassemble or repair the product by themselves. Dismantling or repairing by themselves will cause damage to the product and cause the invalidity of warranty. The company will not be responsible for any consequences caused thereby.

Problems	Possible cause/treatment
Failure to start	<ul style="list-style-type: none"> ● The internal rechargeable battery is running low ● The remote control battery is dead. ● Please confirm whether the host product switch has been pressed.
Failure to charge or no charge light	Please check if the USB cable and host and phone power adapter are connected.
Normal display but no stimulation	<ul style="list-style-type: none"> ● Does the pad contact the skin directly? Adjust the position so that it is close to the skin. ● Is there hair or clothing, jewelry, etc. between the pads and the skin? Move away or remove items. ● Is the intensity level at 0? Increase the massage intensity.
Tingling sensation	<ul style="list-style-type: none"> ● Is the massager's electrode and neck skin closely contacted? adjust the position so that it's stick to the skin. ● Is the massage time too long? It is recommended to massage for 15 minutes at a time, twice a day. ● Is the massage intensity too high? Adjust to low level ● Is the skin allergic to the electrode? Those with severe allergies need to be desensitized first. ● Is the climate cold and the skin dry? Use a wet towel to moisten the skin and use it. ● Does the skin have a wound? Do not put the electrodes on the wound for massage.

Weak simulation	<ul style="list-style-type: none"> ● Is the massager's electrode and neck skin closely contacted? adjust the position so that it's stick to the skin and adjust intensity. ● Is the electrode dirty or oily? Clean the electrode surface. ● Is the battery running low? Please charge if the battery is low. ● Is massage intensity level too low? Increase massage intensity.
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- **Use faults and solutions**

- 1) The internal rechargeable battery is low, unable to know, and the controller battery is dead.

Please confirm if the host product open button has been pressed.

- 2) Can't charge

Please check if the USB cable and the host and phone power adapter are normal.

- 3) Is the massage time too long?










It is recommended to take 15 minutes at a time, twice a day.

- 4) Have a severe tingling sensation

Is the skin allergic to the electrode sheets? Use it when the weather is cold and the skin is dry and wet with a wet towel.

- 5) The electrode pads are considered as one type BF applied part. When the device fails, the temperature of electrode may reach 58 °C at ambient temperature of 25 °C. If you feel too hot, stop using.

10. SYMBOLS AND SAFETY SIGN

Symbol	Description
	Refer to instruction manual/ booklet
	Type BF applied part
	Serial number
	Manufacturer
	Date of manufacture
IP22	<p>IP classification: IP22</p> <p>The first number 2: Protected against solid foreign objects of 12,5mm Φ and greater.</p> <p>The second number 2: Protected against vertically falling water drops when enclosure titled up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is titled at any angle up to 15° on either side of the vertical.</p>
	Waste electrical and electronic equipment
	“ON” / “OFF” (push button)
	General warning sign
	Charging interface


11. EMC GUIDANCE

Guidance and manufacture's declaration – electromagnetic emission		
The No touch Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the No touch Infrared Body Thermometer should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The No touch Infrared Body Thermometer use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class B	The No touch Infrared Body Thermometer is suitable for use in all establishments, other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacture's declaration – electromagnetic immunity			
The No touch Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of No touch Infrared Body Thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	Con:±8 kV Air:±2,4,8,15 kV	Con:±8 kV Air:±2,4,8,15 kV	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	Not applicable	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	Not applicable	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not applicable	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the No touch Infrared Body Thermometer requires continued operation during power mains interruptions, it is recommended that the No touch Infrared Body Thermometer be powered from an uninterruptible power supply or a battery.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE U_T is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacture's declaration – electromagnetic immunity			
The No touch Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the No touch Infrared Body Thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	Not applicable	Not applicable	<p>Portable and mobile RF communications equipment should be used no closer to any part of the No touch Infrared Body Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1,2\sqrt{P}$ <p>d= 1.2√P 80 MHz to 800 MHz</p> <p>d= 2.3√P 800 MHz to 2.7 GHz</p>

<p>Radiated RF IEC 61000-4-3</p> <p>Proximity fields from RF wireless communications equipment</p>	<p>10 V/m 80 MHz to 2.7 GHz</p>	<p>10 V/m</p>	<p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p> <p>a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and landmobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the No touch Infrared Body Thermometer is used exceeds the applicable RF compliance level above, the No touch Infrared Body Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the No touch Infrared Body Thermometer.</p> <p>b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Recommended separation distances between portable and mobile RF communications equipment and the No touch Infrared Body Thermometer.			
The No touch Infrared Body Thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the No touch Infrared Body Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the No touch Infrared Body Thermometer as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150 KHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2.7 GHz $d = 2,3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.			
NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.			
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

12. USER WARRANTY CERTIFICATE

User warranty certificate

(present it to the maintenance site during maintenance or scan QR code to follow SKG official service platform for online customer service, electronic warranty card, one-key report for installation and repair, service progress, after-sale outlets inquiry, membership benefits and latest benefits)

Product name	
Model	
Production area	
Warranty period	
Invoice number	
Purchase date	



Maintenance record

RTD date	
Delivery and Inspection date	
Malfunction, maintenance and troubleshooting	
Maintenance unit	
Signature of maintainer	

Warranty Card

Warranty provisions:

1. This card is valid only in China (except Taiwan, Macao and Hong Kong).
2. Consumers buy SKG electrical appliances for family use and the appliances enjoy one-year machine warranty since the date of purchase in normal condition;
3. If you need free maintenance for the above-mentioned failures during the warranty period, please take the card and invoice to the maintenance point.
4. No free maintenance can be enjoyed in case of any of the following circumstances. However, the paid maintenance will be offered.
 - a. Damage caused by improper use, maintenance and storage of the product by customers;
 - b. Damage caused by disassembly of Non-SKG “three-guarantee” service provider;
 - c. No “three-guarantee” certificate and valid invoice;
 - d. The certificate model does not match with the product model which requires repairing or has been altered;
 - e. Damage caused by the force majeure;
5. If the warranty card is lost, it will be renewed. Please keep it properly.
6. In addition to the maintenance issues specified in the product warranty card, the holders of valid warranty card can enjoy other rights within the scope of the relevant national laws and regulations.

13. CONTACT INFORMATION

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