

手部伸展復康治療器

Hand Stretching Rehabilitation Therapy Device



CATALOG

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節亮康護產品有限公司
Your Smart Health Care Solution Partners

SAB



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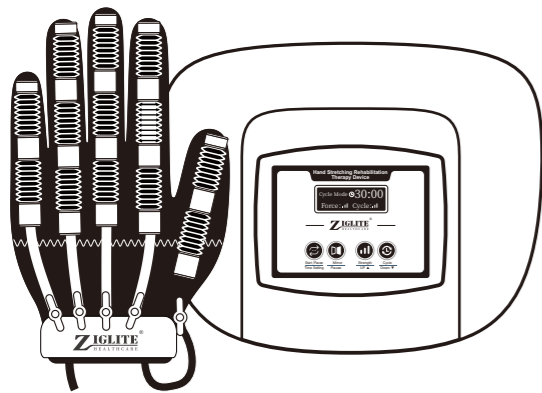
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Company Profile 公司簡介

ABOUT US 關於我們

Ziglite Smart Health Care Products Co., Ltd. Incorporated in 2018, we work with our partners to bring their products to the local market. Mainly engaged in the management of health care products, the main customers are hospitals and clinics, homes for the elderly and home patients.

We are committed to the development of excellent health care products, dedicated to the needs of a wide range of different customers, get the best care in the family treatment process, and greatly improve the effect of rehabilitation. Get the best care during the family treatment process and greatly improve the healing effect. We will provide quality products with stable quality and stable performance for customers.

We specialize in a wide range of products including: anti-virus and air freshening, incontinence care, mobility aids, decompression supplies, etc.

公司於2018年成立，我們與合作夥伴一起把他們的產品推向本地市場。以經營康護用品為主，主要客戶為醫院及診所，安老院及家居病人等。

我們致力於發展卓越的康護醫療產品，竭誠照顧廣大不同客戶的需要，在家庭治療過程中得到最好的護理，大大提高康復治療效果。在家庭治療過程中得到最好的護理，大大提高康復治療效果。務求為客戶提供品質優越及性能穩定的醫療產品。

我們專營的產品種類繁多，包括：抗病毒及空氣清新，失禁護理，助行用品，減壓用品等。



手部伸展復康治療器 Hand Stretching Rehabilitation Therapy Device



循環訓練
Cycle training



鏡像訓練
Mirror training



循環訓練+鏡像訓練 Cycle Training + Mirror Training

- 手部伸展復康治療器在患者整個恢復週期均可參與，通過對患者患肢的訓練，刺激患者神經、肌肉，協助患肢恢復功能，提高患者生活質量。
- 適用於受傷後患者的手指關節恢復或由腦損傷、腦卒中、腦癱、脊髓損傷、骨科術後、多發性硬化等引起的肢體障礙後遺症患者在家庭及機構中的康復訓練。
- The hand stretching rehabilitation device can participate in the patient's entire recovery cycle. Through training the patient's affected limb, it stimulates the patient's nerves and muscles, assists the affected limb to restore function, and improves the patient's quality of life.
- It is suitable for the rehabilitation of the finger joints of patients after injury or the rehabilitation training of patients with sequelae of limb disorders caused by brain injury, stroke, cerebral palsy, spinal cord injury, orthopedic surgery, multiple sclerosis, etc. at home and in institutions.

Product Introduction



Training Terminal

- Principles of human kinematics
- Flexible flexion and extension
- Stretching / fist clenching: large tilt angle
- Enhance joint mobility and muscle strength recovery, and promote active flexion and extension movement

Rehabilitation Therapeutic Device Host

- Two training modes: cycle training and mirror training are optional
- 5 levels of power adjustable
- The default is a 30-minute training countdown, and a maximum of 60 minutes of training can be set

Mirror Training Gloves

- Mirror linkage training
- The healthy hand drives the affected hand
- Real-time pressure sensing

Application Scenario



Rehabilitation institutions

Pension institutions



Patient home training



Product Features

Simulate Muscle Drive

The driving module is fitted with the human joint position, and the degree of freedom of movement is the same as the degree of freedom of hand joint movement. It simulates the human kinematics mechanism. The driving module can be dynamically adjusted according to the patient's movement state to avoid secondary injury to the patient.

Circulation Training To Relieve Muscle Tension

The circulation training mode adopts fully automatic design, which helps to promote the recovery of hand muscle strength, increase joint range of motion and promote the emergence of active flexion and extension movement.

Mirror Training Enhances Control

Mirror training can map the movement pattern of the healthy hand to the affected hand, and stimulate mirror neurons through mirror movement to promote the remodeling and recovery of brain function and hand function.

Home Training To Promote Hand Rehabilitation

Home based rehabilitation training for patients can maintain the results of hand rehabilitation training in medical institutions, help patients maintain the rhythm of hand extension training, and promote the process of hand rehabilitation.

Patients with movement disorders or patients in remote areas can also carry out rehabilitation training at home.

Technology Driven

Mirror training and passive training are combined to promote rehabilitation

Cycle Training

Mirror Training

LCD Display

According to the principle of brain reconstruction, task-oriented training is combined with hand rehabilitation robot training, Help patients complete controlled motor function training, Through repeated intensive training, it can promote the functional reconstruction of the brain central nervous system.

Product Introduction

Training Gloves



- The stretching / clenching angle is large.
- Flexible drive to avoid secondary injury such as strain injury to the patient

Rehabilitation Treatment Device Host



- 5 levels of strength selection, to help you quickly find the training intensity you need.
- The smart button can set the training time period at will.

Cycle Training



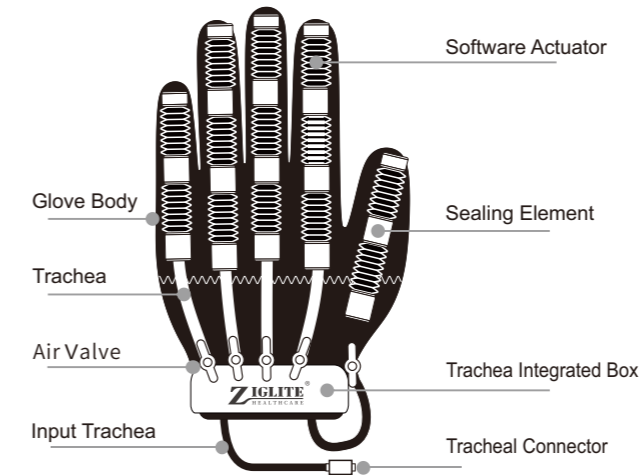
- Fully automatic design is adopted to promote the flexion and extension of affected fingers, muscle strength recovered and joint range of motion increased.

Mirror Training



- The healthy hand moves the affected hand, visual stimulation activates mirror neurons, promotes the emergence of brain active motor function, and solves the basic rehabilitation problems of hand patients in the early stage of rehabilitation period at will.

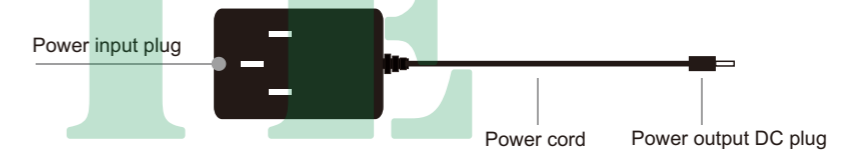
Training Gloves



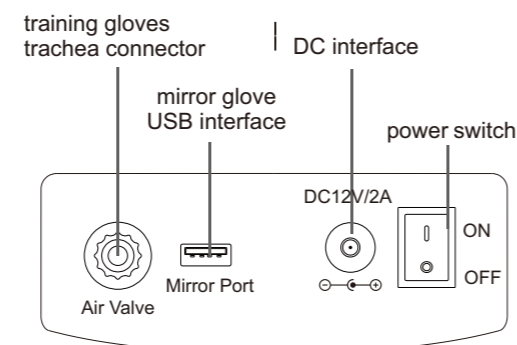
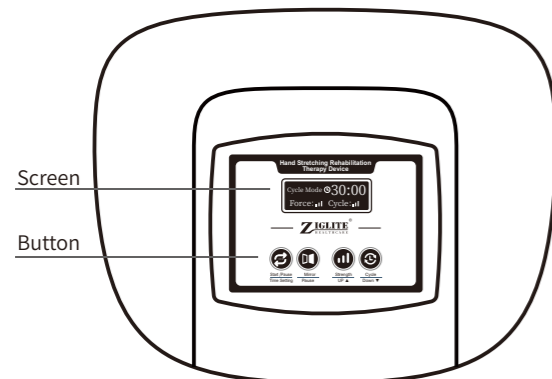
Mirror External Control Gloves



Power Adapter



Training Host



Function list of therapeutic device operation buttons

Number	Button	Function Description
1		"Cycle mode" button: press to switch to the cycle training mode, and press the "cycle mode" key again during the operation of this mode to pause.
2		"Mirror mode" button: press to switch to mirror training mode.
3		"Training strength" button: press to set the strength of training. The set values are: 1, 2, 3, 4 and 5, with a total of 5 levels of strength.
4		"Training cycle" button: press to set a grip and stretch training cycle time. The set values are: 1, 2, 3, 4 and 5, a total of 5 gears.

Special function settings

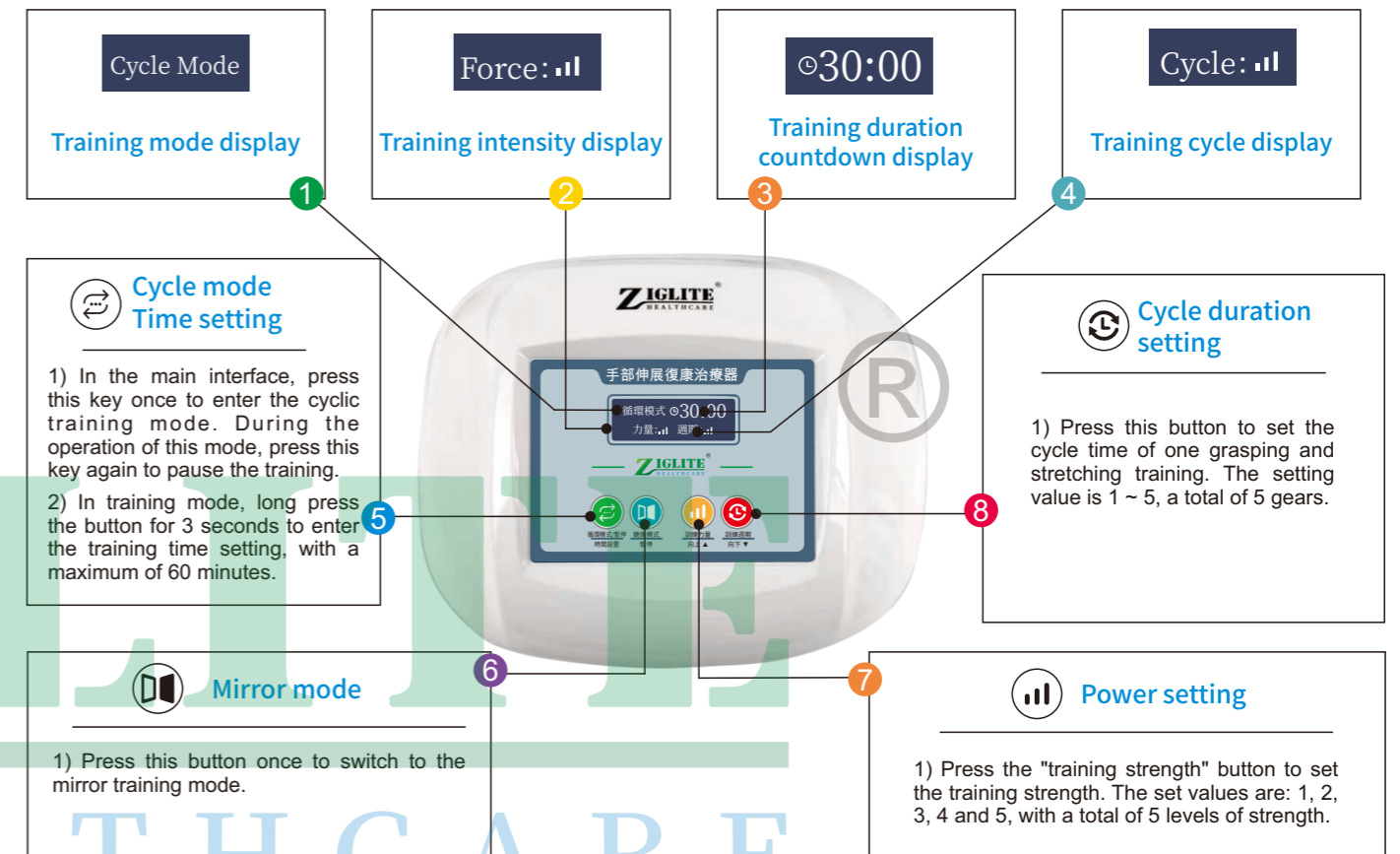
Number	Function	Functional operation description
1	Cycle training Time setting	In loop training mode, press and hold “⌚” button for 3 seconds to enter the time setting mode, and the movement time digit flashes. “⏪” and “⏩” can set the addition and subtraction of the training time. The minute setting division value is 5 minutes, and the training time can be up to 60 minutes.
2	Mirror mode Power setting	In the mirror mode, press “⏪” and “⏩” to set the addition and subtraction of training strength.

Therapeutic device operation interface display list

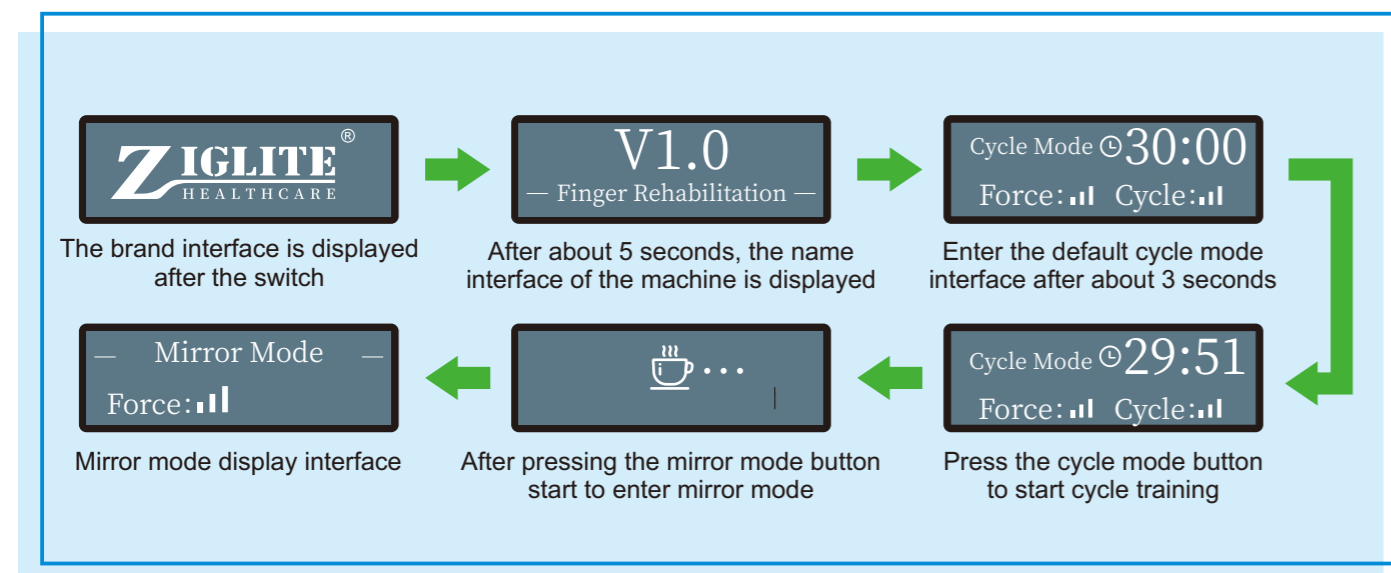
Number	Icon	Function description
1	⌚30:00	The total training time of the therapeutic device. The default startup time is set to 00:00 minutes to 30:00 minutes, and the maximum can be set to 60:00 minutes. After training for 30:00 minutes, the therapeutic device will automatically stop and return to zero.
2	Force: 1 1	The training strength of the therapeutic device shows that the strength can be set as 1, 2, 3, 4 and 5 strength.
3	Cycle: 1 1	The training cycle of the therapeutic device is displayed, and the cycle can be set to gear 1, 2, 3, 4 and 5.

Buttons, Screen Icons In Detail

Cycle mode interface

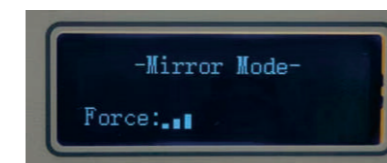


» The treatment interface display



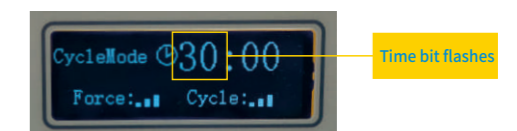
Other interface display

● Mirror mode interface



In the mirror mode, press the “⏪” and “⏩” buttons to set the training intensity of the mirror mode. There are 5 levels of intensity adjustment in total.

● Training time setting interface



In the cyclic training mode, long press the “⌚” key for 3 sec to enter the time setting mode, and the exercise time bit flashes. The “⏪” and “⏩” buttons can set the addition and subtraction of the training time. The minute setting division value is 5 minutes, and the training time can be up to 60 min.

User Guide



How to use the hand stretch rehabilitation therapy device?

1. Cycle Training

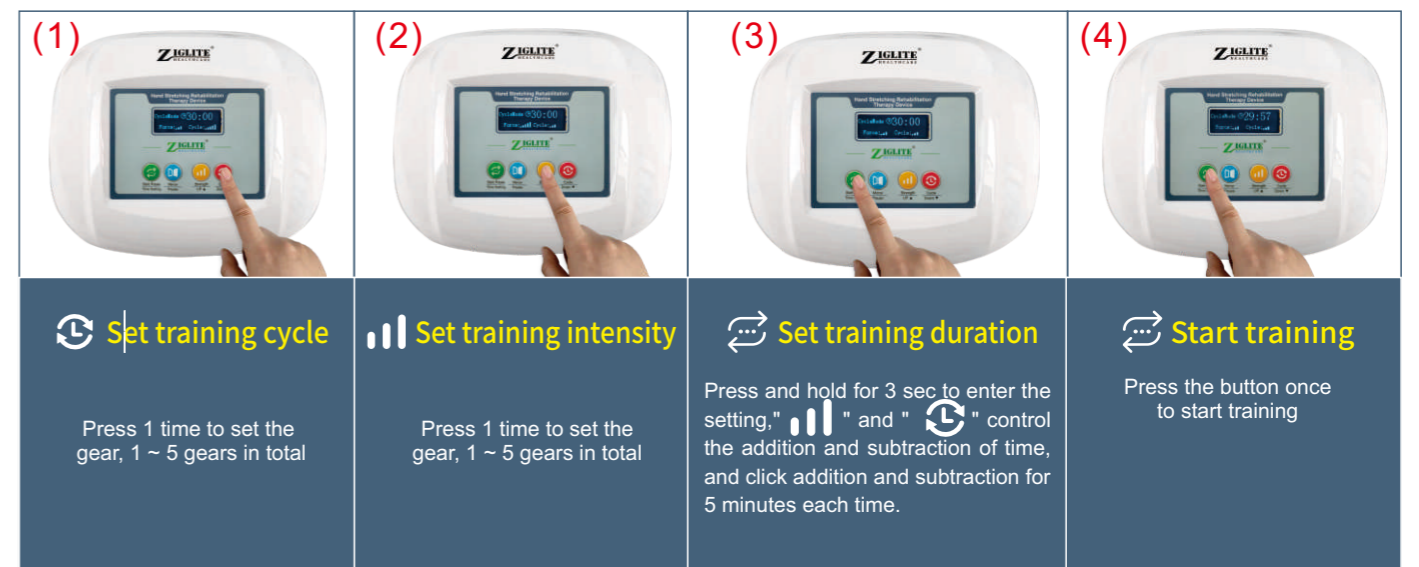
The circulation training mode adopts a fully automatic design. When the patient has no active control ability, it is recommended to use circulation training first, which will help to promote the recovery of flexor and extensor muscle strength of the affected hand, increase the joint's range of motion, and promote the emergence of active finger extension movement.



Default circuit training

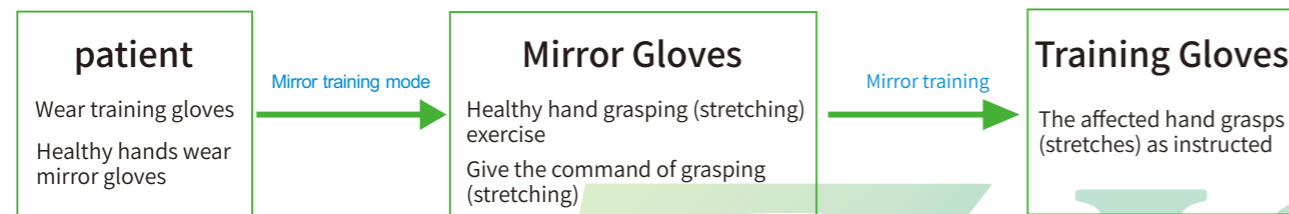


Force, cycle and time settings (Step 3 can be skipped without setting the time)



2. Mirror Training

Mirror mode refers to the mode that the patient drives the patient's hand to move synchronously through healthy hand movement. Through interactive visual feedback, it can stimulate different regions of the patient's brain to produce motor and sensory consciousness, start mirror neurons, and promote the reconstruction of motor function and brain function.



<p>(1)</p> <p>Mirror glove Training gloves</p>	<p>(2)</p>	<p>(3)</p>	<p>(4)</p>
<p>Wear gloves and turn on the machine</p> <ul style="list-style-type: none"> Wear training gloves on affected hands Healthy hands wear mirror gloves After startup, enter the main training interface 	<p>Enter mirror mode</p> <p>In the main training interface, press "Mirror Mode" once to enter the mirror training mode</p>	<p>Set training intensity</p> <p>Press "Intensity" once each time to set the training intensity, 1 ~ 5 gears in total</p>	<p>Start mirror training</p> <p>The healthy hand gives instructions for grasping (stretching) exercise, and the affected hand performs grasping (stretching) exercises according to the instructions</p> <p>Note: You need to grasp and press (release) the control button in the mirror glove to start the training glove grasp (release) action</p>

Technical Parameters

Product specification

Product Name	Hand Stretching Rehabilitation Therapy Device	Liquid inlet protection degree	IPX0
Product Model	SAB	Strength setting	1-5 files
Security Type	Type I	Time setting	5-60 minutes
Power Supply	AC100-240V, 50/60Hz	Operating noise	≤60dB
Host Size	251*204*111mm	Training mode	Cycle training, Mirror training

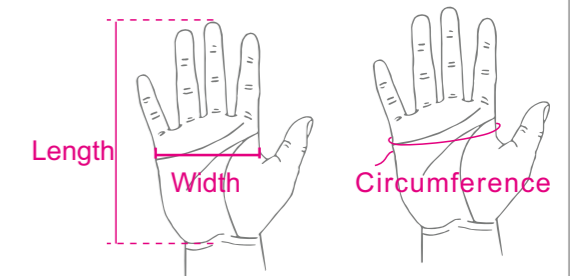
Glove size chart

Size	S	M	L	XL	XXL
Hand length (mm)	140-160	160-180	165-190	190-220	220-230
Hand width (mm)	60-80	70-90	80-100	100-120	120-130
Middle finger circumference (mm)	45-50	50-60	60-70	70-90	90-100

* The corresponding model can be selected according to the user's actual hand measurement situation.

If two or more measured values are at the critical point, it is recommended to choose one yard larger.

* Women generally choose s/m, men generally choose l/xl, and the larger hand is XXL.



! Safety Precautions

[Warning]

Failure to follow the following safety instructions may lead to serious accidents such as fire, electric shock and casualties!

- Do not disassemble, repair or modify the components of the equipment by yourself to avoid causing abnormalities of the therapeutic device.
- Do not store components inside or near the water heater, microwave oven, cooking equipment or high-pressure container to avoid fire caused by overheating.
- Do not sterilize or autoclave.
- Do not continue to use when there is an alarm prompt.
- It is suitable for hand circulation and mirror motion rehabilitation training. Do not use it for other purposes to avoid accidents.
- Do not store all parts in an overheated or supercooled place to avoid accidents.
- Please keep the power connector dry without water. Please do not plug and unplug the power with wet hands to avoid electric shock or injury.

I Storage and transportation

- During transportation, please fix the therapeutic device in a relatively stable place to prevent collision and damage of the therapeutic device.
- Please prevent liquid or foreign matters from entering the therapeutic device and avoid damaging internal electronic components and causing faults.
- Do not store in the environment of disinfectant gas or active gas to avoid damaging internal electronic components and causing faults.
- Do not place it in strong light irradiation places such as sunlight or ultraviolet for a long time to avoid discoloration of the shell.
- Do not place this product in a place accessible to infants and young children.
- When saving the product, do not place other items on the product.
- Do not let the product touch nails, needles and other sharp objects.
- Do not fold the gloves forcefully to avoid damaging the software actuator and causing failure.
- Do not store the therapeutic device in a humid environment or strong magnetic field interference, which is not suitable for the working environment of electronic equipment.

I Working environment

- Ambient temperature: 10 °C ~ 35% °C
- Relative humidity: 30% ~ 75%, excluding condensation
- Atmospheric pressure range: 700hPa ~ 1060hpa
- Power supply: AC100-240V, 50 / 60Hz (therapeutic device host power supply DC12V)

I Post processing

- Do not destroy the therapeutic device in the fire.
- Do not treat the therapeutic device as ordinary domestic waste. At the end, it shall be treated according to the requirements of medical device standards. Do not discard it at will.

Safety Precaution Include

- In case of skin allergy and other discomfort during the use of the product, please stop using and consult a doctor.
- For patients with diseases or wounds or being treated for them, or with previous medical history, please consult a doctor after being familiar with the following contents.
- If there is sprain, trauma, bone injury or fracture of unknown condition on the hand, people who have not been treated or need braking after treatment should not use this product without professional confirmation.



⊞ Contraindication

- Patients with severe blood flow disorders such as thoracic venous aneurysm and hemocolumn disease.
- Patients with ulcer, wound, purulent fruit, bleeding, scald, inflammation, etc. on the affected hand.

⊞ Other Precautions

- If you experience an abnormality during use or your body feels abnormal, you should stop using it and use it under the guidance of a doctor after consulting a doctor.
- Redness, itching, rash, etc. appear during use, stop use and seek medical attention.
- Do not use with other equipment at the same time or use it while applying medicine.
- Do not use it alone by unconscious people or young children.
- Do not use this product for purposes other than the purpose of use.

Before Use

- 1) Before wearing training gloves, please try to run the therapeutic device host for 1 minute to confirm that all parts function normally.
- 2) For patients with mandatory systolic spasm, massage before using the therapeutic device.
- 3) Note: before training, please confirm that the non muscle tension of the hand to be trained is too high (above grade II).

In Use

If the following conditions occur during operation, please stop using it immediately and disconnect the power supply!

- 1) Abnormal sound from the host
- 2) The surface temperature of the host is too high
- 3) The host accidentally enters water
- 4) The user feels pain, swelling or other discomfort
- 5) If spasm occurs during training, stop using it immediately

Usage Time

- 1) It is suggested to select appropriate training methods according to their own actual situation
- 2) The time of each use should not be too long. If the hand feels sore the next day after training, it is necessary to reduce the number and time of daily training
- 3) It is recommended to use 2-4 times a day for about 20 minutes each time, with an interval of at least 45 minutes
- 4) If you need to change or extend the use time, please consult professional medical personnel