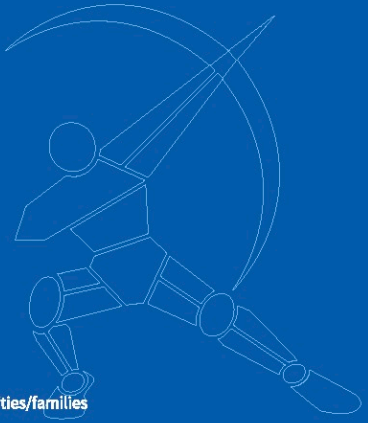
SIYI INTELLIGENCE

SYREBO

Soft Rehabilitation Glove SY-HRE12 User Manual



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Providing innovative rehabilitation products & services for hospitals/communities/families

Contact Information

Manufacturer:

Shanghai Siyi Intelligent Technology Co., Ltd.
Address: 2F,13 Building,No.2388,Xiupu Road,Pudong Dist, Shanghai, P.R.China
Tel: 0086 17317983724
Country of Origin: China
Website: www.syrebo.com
E-mail: info@syrebo.com

EC REP

Name: MedPath GmbH
Add: Mies-van-der-Rohe-Strasse 8, 80807 Munich, Germany
Tel: +49(0)89 189174474
Fax: +49(0)89 5485 8884
E-mail: info@medpath.pro

Important

Description of Operating Environment

The product falls into the common equipment for continuous operation (closed equipment that does not prevent liquid from entering), which cannot be used in the environment with the presence of mixture of flammable anesthetic gas and air or with mixture of oxygen or nitrous oxide.

The product may fail due to interference from electromagnetic waves emitted by portable TVs, radio transceivers, electric toys, etc. Please be sure to keep away from these products.

Electromagnetic compatibility: The product should be kept away from objects that produce strong electromagnetic waves or noises, such as nuclear magnetic resonance equipment, microwave generator, radiation equipment (X-ray, CT and other devices).
The product should be kept away from high-frequency surgical instruments, such as the high frequency electrotome and mobile phones.

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User Manual Version: V1.0

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After-sales Service Department: Shanghai Siyi Intelligent Technology Co., Ltd.
After-sales Service Address: 2F, Building 13, 2388 Xiupu Road, Pudong New Area, Shanghai, China 201315
After-sales Service Hotline: 400-6886-275
Manufacturing Date: See the product certificate for details.
Service Life: Three years

Notification

Before using the Soft Rehabilitation Glove, please read this manual carefully to have a clear understanding of its functions and operations.

Keep this manual handy so that it can be referred to whenever needed. Follow the operating procedures and usage described in this guide.

Do not modify the device, replace any parts, use non-specified parts, or remove protection devices, as these actions could result in a hazardous situation.

PLEASE READ THIS USER MANUAL BEFORE OPERATING the glove

	General Warnings
	Training is mandatory. Use this document as a guide during training and as a reference after training. This manual is not a substitute for training.
	Plug and unplug the power supply with the normal procedure! Otherwise, it will lead to serious injury or death!
	Do not plug and unplug the power supply with wet hands! Otherwise, it will lead to serious injury or death!
	Use the specified power supply , otherwise it will damage to equipment or failure to charge!
	The device must not be disassembled or repaired by non-professionals without permission, otherwise it will cause fire or electric shock!
	The power must be disconnected before opening the casing of the host. When the casing is opened, the device cannot be used.
	The power supply of the device is 100-240V~, 50/60Hz, Before using the device, it is necessary to verify that the power supply voltage matches with the voltage value of the adapter.

	General Cautions
	Do not use the device if users are distracted or not paying attention to the operation of the glove.
	This product is contraindicated in the following people: 1) Patients with severe disturbance of blood circulation; 2) Patients with comminuted fracture or bone cancer; 3) Patients with burn injury, bleeding condition, suppuration or uncontrollable infectious diseases; 4) Patients with severe deformation or spasm of hands; 5) Patients with obvious hand trauma or allergy to N Cloth and Lycra.
	Attention should be paid to avoid static electricity during use, which may cause damage to the device.
	Please remove the adapter and disconnect the power supply in time if the device is not used for a long time.
	Do not use unofficial accessories for the sake of safety.
	Shut down the device and unplug the power supply immediately in any one of following conditions during operation: 1) Lightning strike; 2) Occurrence of abnormal sound, smoke or peculiar smell; 3) Excessive surface temperature of the host; 4) Entry of water into the host; 5) The user feels pain, swelling or other discomfort.
	It is suggested that the duration of single training should be about 20 minutes. After 40 minutes of continuous training, the equipment enters the rest mode, and the training can be resumed after 40 minutes of rest.
	Working environment: Temperature, +5°C~+40°C; relative humidity, ⩽80%; atmospheric pressure: 860 hPa ~ 1060 hPa; Transportation and storage environment: Temperature: -35 °C~+60°C; relative humidity, ⩽93%; atmospheric pressure: 860 hPa ~ 1060 hPa.
	Please inform the manufacturer and competent authority in case of any adverse events related to the device occur.

	As gloves are often worn by patients, the following measures can be taken to ensure the safety and hygiene of gloves: 1) Patients need to wear disposable gloves for isolation during training; 2) Gloves shall be regularly wiped with 75% medical alcohol for five times or disinfected with ultraviolet radiation for one hour; 3) PG14 Power-assisted glove and DG12 Data Glove are consumables, with a service life of 3 months and 6 months respectively under continuous use. Failure to replace the gloves after their expiration may reduce rehabilitation effect and clinical experience.
	The following requirements on storage shall be observed: 1) Do not place weights on the device and its accessories; 2) Do not expose it to direct sunlight or high temperature; 3) Do not expose it to high humidity; 4) Do not store it in a place with intense vibration; 5) Do not store it in a place where children or pets can reach.
	It could be transported by general means or transported in the manner specified in the contract. During transportation, it shall be protected from sunlight, rain, severe vibration and impact, and shall not be transported together with toxic, corrosive or explosive substances.
	The device should be maintained regularly, and the routine maintenance should be carried out once a week to clean the dirt and dust outside the host and check whether all interfaces on the host function properly.
	When using the training system in a wheelchair, it is necessary to ensure that there is enough barrier-free space under the desktop to accommodate the wheelchair.
	The hand length of patients using this product must be in the range of 8 ~ 22 cm.
	The wearing parts need to be cleaned and disinfected regularly, and the PG14 Power-assisted glove is consumable and need to be replaced regularly to ensure hygiene and effectiveness.
	The therapist should evaluate the patients' hand function before training; The user should evaluate whether the product is suitable for patients by letting the device running for a trial cycle; If any questions, consult your therapist on time.
	Data Glove frequency: 433.92 MHz; Product Bluetooth: Bluetooth BLE mode.

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1. Product introduction

Combined with soft exoskeleton technology and neuroscience, the Syrebo® soft rehabilitation glove utilizes flexible pneumatic biomimetic muscle as the power source to output extension and flexion force at the hand joints to achieve stretch and bending reciprocating motions of finger joints. Based on the principle of "neural plasticity", targeting people with different stages of hand function conditions, the appropriate training mode can be selected. Moreover, pneumatic glove drives the hand of the pre-training side to carry out accurate and full-cycle hand functional rehabilitation training, which can accelerate neural plasticity, increase hand joint motion, and accelerate the hand function rehabilitation process.

Based on the ergonomic design concept, elastic fabric and indentation-free sewing technology is used for the rehabilitation glove to evenly force the hand without causing additional damage to the skin. Rehabilitation gloves are designed in a variety of sizes to suit users of different hand sizes. The output power of rehabilitation gloves is soft, and the rehabilitation training instrument is equipped with double safety measures, which can effectively avoid secondary injury to the user's hand.

The interior of the host is mainly composed of air source and air circuit components, i.e., when the glove is connected to the output port of the host, the host can output positive and negative pressure to the rehabilitation glove. Moreover, under the control of the software of the rehabilitation training instrument, it can complete the flexion and extension training modes of the hand with different gestures, frequency and intensity.

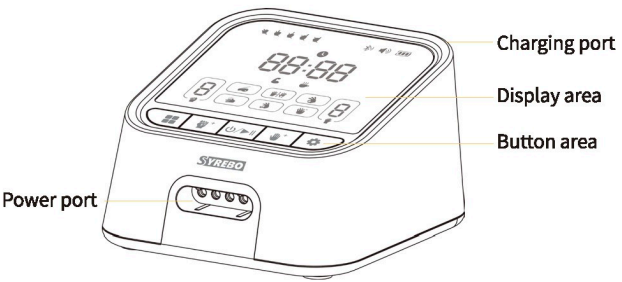
Based on the advanced theoretical system of hand function rehabilitation-"center-periphery-center" closed-loop rehabilitation intervention mode, the Syrebo® soft rehabilitation glove has developed six training modes: passive, finger-to-finger, flexion and extension, fine and functional trainings and finger-separating mirror image. By stimulating and interfering with the central and peripheral nerves of users, it can help users recover the motor function of the hands and enable the user's full cycle rehabilitation.

In addition to the stretch mode, in the other five major training modes, users can carry out task-oriented training according to their own conditions, and carry out training through daily life scenarios such as transferring items, pouring water, drinking water, and brushing teeth, to enhance the interest and sense of purpose of training. The use of Syrebo® soft rehabilitation glove can provide support and assistance to the hand at the early stage of rehabilitation, advance the time of task-oriented training, and speed up the rehabilitation process.

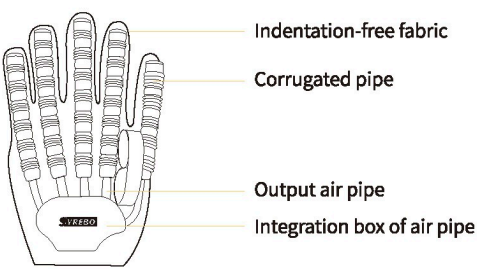
2. Product Structure Composition

The product mainly consists of four parts: host, power glove, data glove and the adapter.

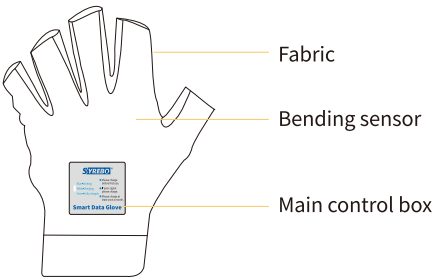
2.1 Product Diagram



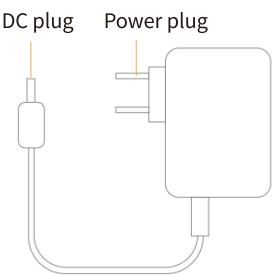
2.2 Power Glove



2.3 Data Glove

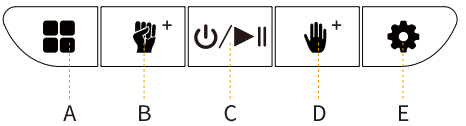


2.4 Adapter



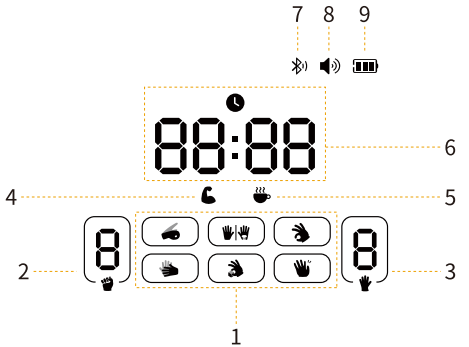
3. Button and Icon Instruction

3.1 Button instruction



A. "Mode" button:
Short press to cyclically switch the training modes, and the switching order is Passive-Mirror -Fine motor- Opposition -Pinch-Stretching.
B. "Flex +" button:
Short press to cyclically switch the flexion time/ flexion power gears.
C. "On-Off/Start-Pause" button:
Turn on: press and hold for startup in “Shutdown” state;
Start training: Short press in the “Pause” state to start training;
Pause: Short press during training to enter the “Pause” state.
D. "Extend +" button:
Short press to cyclically switch the extension time/extension power gears.
E. "Set" button:
Power adjustment: Short press to enter the power adjustment mode and the word "Power" will be steadily on. If the power gear is not adjusted for 3 seconds or short press again to exit the power adjustment mode;
Voice broadcast: press and hold to close voice broadcast; press and hold again to open the voice broadcast.

3.2 Icon Instruction



3.2.1 “ ” Passive training ; “ ” Mirror training; “ ” Fine motor training ; “ ” Opposition training; “ ” Pinch training ; “ ” Stretching mode;

3.2.2 Flexion gear: display the current flexion time gear or flexion power gear;

3.2.3 Extension gear: display the current extension time gear or extension power gear;

3.2.4 Power adjustment state: enter the power adjustment mode, and the icon will be steadily on;

3.2.5 Rest protection state: After entering the rest protection mode, the icon will be steadily on;

3.2.6 Time Remaining:

① Default 20 minute countdown for all training modes;

② 40-minute countdown of rest protection mode;

3.2.7 Bluetooth status: will be displayed in the disconnected status, and will be displayed in the connected status;
3.2.8 Voice broadcast: will be displayed in the ON state, and will be displayed in the OFF state;
3.2.9 Battery status: Battery status will be displayed after s tart-up; and it will not be displayed after shutdown. When in the charging status, the battery level will be in the state of constantly increasing to 3 cells, and it will be flashing at cell 0 when the battery level is low.

4. Instructions for use

4.1 Operating Principle of Product

According to the parameters set by the operator, the Syrebo soft rehabilitation glove issues control instructions through the control module, and realizes the flexion and stretch actions of power gloves through the positive and negative pressure switching of pneumatic drive technology, and then drives finger joints for rehabilitation training. Through repeated flexion and extension exercises, the physiological joint fluid can produce a virtuous circle, which can reduce joint swelling, and prevent or treat the reduction of joint motion amplitude and joint stiffness caused by trauma or insufficient exercise.

4.2 Scope of Application

Syrebo® soft rehabilitation glove is intended for finger joints, which can be used to restore or train finger functions, so as to achieve finger joint rehabilitation.

4.3 Contraindications and Indications

4.3.1 Contraindications

Syrebo® soft rehabilitation glove is not intended for the following symptoms:

① Users with severe blood circulation disorder

② Users with comminuted fracture and bone cancer;

③ Users with burns, bleeding, suppuration and uncontrollable infectious diseases;

④ Patients with severe hand deformation or severe spasm;

⑤ Users who have significant hand trauma or are allergic to (SBR) composite fabrics;

The above contraindications are incomplete. If you have further questions or discomfort, please follow the guidance of rehabilitation physicians or doctors for use. The following groups of patients should consult doctors before using:

1. Users after surgery;
2. Users with twisted finger joints;
3. Users with abnormal skin function;
4. Users with various acute diseases;
5. Users with blood circulation disorders;
6. Users with fever above 38 °C;
7. Users under medical treatment;
8. Users during the menstruation or pregnancy;
9. Users with heart diseases and implanted with medical electronic devices such as pacemakers.

4.3.2 Indications

Syrebo® soft rehabilitation glove is intended for the following symptoms:

① Users with hand that cannot be opened;

② Finger stiffness;

③ Hands shaking while eating;
④ Cold hands;
⑤ Inability to fetch things due to weakness;
⑥ Difficulty in movement;
In case of abnormal hand muscular tension, or severe hand swelling, pain and other discomfort symptoms during the training, please contact the manufacturer or your rehabilitation physician in time, and stop using the Syrebo® soft rehabilitation glove immediately where necessary.
Before using the Syrebo® soft rehabilitation glove, it is necessary to carry out the corresponding hand function rehabilitation treatment in combination with the suggestions of the manufacturer or the opinions of the rehabilitation physician.

4.4 Preparation Before Use

4.4.1 Take out all parts from the packaging, make sure that there are no abnormal conditions such as damage or missing parts, and place them on a horizontal and vibration-free table;
4.4.2 Connect the air source plug of the rehabilitation glove correctly with the rehabilitation glove interface on the front of the host;
4.4.3 While charging, insert the adapter connector into the charging port at the rear of the host;
4.4.4 Press and hold the power button of the host to turn on the host;
4.4.5 Wear power glove and prepare for training;
4.4.6 In case of the need to perform mirror training or active training, please wear the data glove before starting training;

4.5 Wearing Method of the Power Glove

The power gloves are designed for left and right hands and are available in different sizes so that patients can select gloves according to their own conditions. If the joints are stiff or the hand muscles are in high tension, massage the hand on the pre-training side for 3-5 minutes. Please follow the following steps to wear the glove:

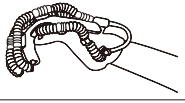
(1) Put fingers into the finger ends of the glove in turn.

(2) Pull the Velcro of the glove to the wrist and fasten it.

(3) Pull the Velcro from the thumb end of the back along the space between the index finger and thumb to the magic strap of the palm to finish the wearing.

Tip:
All fingers should reach the top of the glove.

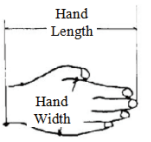
Tip:
Pull down the end of the finger sleeve on the palm side as far as you can.



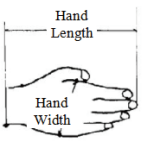
Tip:
Please wear it correctly and make sure that there is no gap between the wrist and the glove when making a fist.

4.6 Size Reference Table

Adult Size:

Glove Size	Hand Length (mm)	Hand Width (mm)	
XL	195~210	100~115	
L	180~198	90~105	
M	160~185	80~95	
S	145~165	70~80	
	Other sizes can be customized		

Child Size:

Glove Size	Hand Length (mm)	Hand Width (mm)	
5	108~126	50~57	
7	119~135	55~62	
9	126~145	60~67	
12	138~153	65~72	
	Other sizes can be customized		

5. Product Function

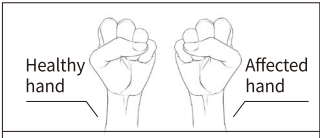
The functions of the product mainly include 6 training and auxiliary functions, among which the training functions include passive, mirror, fine motor, opposition, pinch and stretching training.

5.1 Passive Training

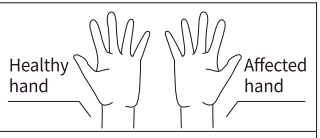
5.1.1 Insert the connector of the power glove into the "Power Port" of the host in parallel;
5.1.2 Press and hold ⏻/▶Ⅱ to start up the host; Short press ⊞ to switch to the passive training mode ;
5.1.3 When the glove is in the state of extension, put the power glove on the hand on the pre-training side;
5.1.4 Short press ✊+ and ✋+ to adjust the flexion/extension time gears respectively, and the range of adjustment is 1-9. The larger the gear number is, the longer the maintenance time of single flexion/extension action will be;
5.1.5 Short press ⚙ to enter the power adjustment. At this time, press ✊+ and ✋+ to adjust the flexion/extension power gears respectively, and the adjustment range is 1-9. The larger the gear number is, the faster the flexion and extension speed will be;
5.1.6 After adjusting the training parameters, place the hand on the pre-training side in the "functional position" or "neutral position" to prepare for training;
5.1.7 Press ⏻/▶Ⅱ button to start training, and power glove will drive the hand on the pre-training side to carry out cyclic flexion and extension movements in accordance with the set parameters;
5.1.8 After 20 minutes of training, press and hold ⏻/▶Ⅱ for shutdown, take off the power glove, and properly store it.

5.2 Mirror Training

5.2.1 Insert the connector of the power glove into the "Power Port" of the host in parallel;
5.2.2 Hold and press ⏻/▶Ⅱ to start up the host; short press ⊞ to switch to mirror training mode ✋|✋;
5.2.3 When the gloves are in the state of extension, put the power glove on the hand on the pre-training side; and hand on the normal side shall wear the data glove;
5.2.4 Short press ⚙ to enter the power adjustment mode. At this time, press ✊+ and ✋+ to adjust the flexion/extension power gears respectively, and the adjustment range is 1-9. The larger the gear number is, the faster the flexion and extension speed will be;
5.2.5 After adjusting the training parameters, place the hand on the pre-training side in the "functional position" or "neutral position" to prepare for training;

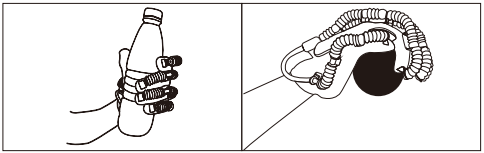


Collaborative hand grip



Collaborative hand opening

5.2.6 Press ⏻/▶Ⅱ button to begin training. The hand on the normal side will make a fist, and the hand on the pre-training side will be simultaneously driven to grasp. When the hand on the normal side is in the state of extension, the hand on pre-training side is extended simultaneously, so that hand on the normal side can drive the hand on the pre-training side and cooperative training of both hands can be carried out.
5.2.7 After 20 minutes of training, press and hold ⏻/▶Ⅱ for shutdown, take off the power glove and the data glove, and properly store them.



Tips: In training, it is necessary to take the initiative to focus on the coordinated movement of both hands, which contributes to improvement of the training effect. After mastering the training skills, the users can try to use the hand on the pre-training side to hold/pinch small items under the lead of the hand on normal side to increase autonomous consciousness and hand tactile stimulation.

5.3 Fine Motor Training

5.3.1 Insert the connector of the rehabilitation power glove into the "Power Port" of the host in parallel;
5.3.2 Press and hold ⏻/▶II for 2.5 seconds to start up the host, and short press ⊞ to switch to fine motor training mode 👌;
5.3.3 When the glove is in the state of extension, put the rehabilitation glove on the hand on the pre-training side;
5.3.4 Press ✊+ and ✋+ to adjust the flexion/extension gears respectively and the adjustment range is 1-3. The larger the gear number is, the longer the maintenance time of single flexion/extension action will be;
5.3.5 Short press ⚙ to enter the power adjustment mode. At this time, press ✊+ and ✋+ to adjust the flexion/extension power gears respectively, and the adjustment range is 1-9. The larger the gear number is, the faster the flexion and extension speed will be;
5.3.6 After adjusting the training parameters, place the hand on the pre-training side in the "functional position" or "neutral position" to prepare for training;

5.3.7 Press ⏻/▶Ⅱ button to start training, and the power glove will drive the hand on the pre-training side to carry out flexion and extension training according to the set parameters and the movement sequence shown in the action library;
5.3.8 After 20 minutes of training, press and hold ⏻/▶Ⅱ for shutdown, take off the power glove and store it properly.
Action Library: Opening the hand, flexing the thumb, stretching the thumb, flexing the index finger, stretching the index finger, flexing the middle finger, stretching the middle finger, flexing the ring finger, stretching the ring finger, flexing the little finger, stretching the little finger, holding the hand tightly , stretching the thumb, stretching the index finger, stretching the middle finger, stretching the ring finger, stretch the little finger and holding the hand tightly.

5.4 Opposition Training

5.4.1 Insert the connector of the rehabilitation glove into the "Power Port" of the host in parallel;
5.4.2 Hold and press ⏻/▶Ⅱ for 2.5 seconds to start up the host, short press ⊞ to switch and select the opposition training mode ;
5.4.3 When the glove is in the state of extension, put the rehabilitation glove on the hand on the pre-training side;
5.4.4 Press ✊+ and ✋+ to adjust the flexion/extension gears, and the adjustment range is 1-3; Short press ⚙ to enter the power adjustment. At this time, press ✊+ and ✋+ to adjust the power gears, and the adjustment range is 1-9;
5.4.5 After adjusting the training parameters, the hand on the pre-training side is placed in the "functional position" or "neutral position", which is conducive to the rehabilitation effect and ready for training.
5.4.6 Press ⏻/▶Ⅱ button to start training;
5.4.7 End the training 20 minutes later;

5.4.8 Press and hold ⏻/▶Ⅱ for shutdown; (Remarks: If no operation is performed on the host for 5 minutes, the host will automatically shut down.)
5.4.9 Take off the power glove and store it properly;
Action Library: Opening the hand, pointing to the index finger, opening the hand, pointing to the middle finger, opening the hand, pointing to the ring finger, opening the hand, pointing to the little finger.

5.5 Pinch Training

5.5.1 Insert the connector of the power glove into the "Power Port" of the host in parallel;
5.5.2 Press and hold ⏻/▶Ⅱ for 2.5 seconds to start up the host. Short press ▪ to switch and select the pinch mode ;
5.5.3 When the glove is in the state of extension, put the power glove on the hand on the pre-training side;
5.5.4 Press + and + to adjust the flexion/extension gears, and the adjustment range is 1-3; Short press ⚙ to enter the power adjustment. At this time, press + and + to adjust the power gears, and the adjustment range is 1-9;
5.5.5 After adjusting the training parameters, the hand on the pre-training side is placed in the "functional position" or "neutral position", which is conducive to the rehabilitation effect and ready for training.
5.5.6 Press ⏻/▶Ⅱ button to start training;
5.5.7 End the training 20 minutes later;
5.5.8 Press and hold ⏻/▶Ⅱ for shutdown;
5.5.9 Take off the power glove and store it properly;
Action Library: Opening the hand, pinching with two fingers, opening the hand, pinching with three fingers, opening the hand, pinching with four fingers, opening the hand, holding the hand tightly.

5.6 Stretching Mode

5.6.1 Insert the connector of the power glove into the "Power Port" of the host in parallel;
5.6.2 Press and hold ⏻/▶Ⅱ for 2.5 seconds to start up the host; Short press ▪▪ to switch and select the stretching mode ;
5.6.3 When the glove is in the state of extension, put the power glove on the hand on the pre-training side;
5.6.4 Press ▪▪ to switch to the stretching mode and short press ⚙ to enter power adjustment. Press + and + to adjust the power gears and the adjustment range is 1-9;
5.6.5 After adjusting the training parameters, the hand on the pre-training side is placed in the "functional position" or "neutral position", which is conducive to the rehabilitation effect and ready for training.
5.6.6 Press ⏻/▶Ⅱ button to start training;
5.6.7 End the training 20 minutes later;
5.6.8 Press and hold ⏻/▶Ⅱ for shutdown;
5.6.9 Take off the rehabilitation glove and store it properly.
Note:
① Action Library
② Users with high muscle tone should massage and stretch their wrists and fingers before training in this mode, and may also use a hot -water bag for hot compress or warm water for soaking (Beware of burns).
③ Opening the hand, relaxing the hand.

5.7 Active Training

5.7.1 Scan the QR code on the right with your Andriod phone or tablet to download and install Syrebo App (currently only supports Android system).
5.7.2 Open the Syrebo App on the mobile phone or tablet and follow the prompts to connect to the host (bluetooth needs to be turned on, and some

Scan & download APP

mobile phones need to turn on GPS at the same time).
5.7.3 Wear the data glove on the affected hand.
5.7.4 Tap the Game icon in the Syrebo App to start active training, and follow the in-app instructions for active game training.

5.8 Auxiliary Functions

5.8.1 Rest Protection Mode
Function Description: In order to prevent muscle fatigue caused by long-term exercise training, the host will enter the rest protection mode after running for a certain period of time. In the rest protection mode, training cannot be started, and the mode cannot be exited even after shutdown. Only the word "Rest" and countdown are displayed on the display interface.
5.8.2 Automatic Shutdown
If there is no training content or action for five minutes, the device will automatically shut down.
5.8.3 Key Protection
In order to prevent high-frequency operation, after a single key execution, other operations will not be executed within a certain period of time.
5.8.4 Automatic Pause
During training and switching modes, it will automatically pause and stop the power output to prevent slight injury to the user in case that the power is output when the user is not prepared.
5.8.5 Parameter Saving
① The device automatically saves the current mode/flexion gear/extension gear, and automatically recovers next time when you start up the device;
② If the last shutdown mode is an unpredictable abnormal state, it will automatically switch to passive mode when it is powered on again.

6. Simple Troubleshooting

6.1 Simple Troubleshooting

Abnormalities	Handling Method
After the host is connected to the power supply, it cannot be turned on.	1. Please check whether the adapter and power supply are normal; 2. Check whether the power button is physically damaged, or check whether there is water entering the host.
The movement range of power gloves is significantly reduced or there is no movement at all.	1. Please confirm whether the connector between the glove and the host is damaged; 2. Please confirm whether the glove hose is entangled, knotted, or pressed by weight; 3. Please confirm whether the corrugated pipe on gloves is damaged or missing;
Black Screen or Automatic Shutdown of the Host during Working	Please connect the adapter and power on to confirm the battery level
In mirror training mode, the action is not sensitive or there is no action at all.	Please charge the data glove and make sure that the indicating lamp is on.

If the abnormal phenomenon cannot be eliminated with the above methods, please contact the official after-sales service or official distributors.

6.2 Frequently Asked Questions (FAQ)

Q:	How long will it take to see the effect?
A:	After stroke, rehabilitation of motor pathways in the damaged brain is a long-term process. No immediate effect may be observed, but gradual improvement may be obtained through Physical Therapy (PT). According to the different conditions of the users, the courses of rehabilitation and the effects may vary significantly. Under normal circumstances, the recovery of hand function is slower than that of other parts. Therefore, in the process of rehabilitation training, only when both passive and active activities are taken into account, can the rehabilitation effect be satisfactory.
	Message from an expert: "Hand function rehabilitation brings great difficulties to users's life. However, the rehabilitation process is always difficult, which is the status quo that cannot be changed.To achieve the best rehabilitation effect, the most important thing depends on confidence and patience, scientific rehabilitation training and perseverance."
Q:	How should Syrebo soft rehabilitation glove be used?
A:	It is recommended that the appropriate training times and training methods should be selected according to the actual condition. It can be used 2 to 4 times a day, 20 minutes each time. The instrument should not be used for too long each time, and if the user has soreness in the hand on the second day after training, it is necessary to reduce the number of daily training.
Q:	What should the users do if they have relatively high muscle tone ?
A:	It is recommended to carry out stretching training first to help reduce hand muscle tension and adjust the flexion/extension gears appropriately according to the user's own condition.

Q:	What is the gear range for flexion and extension?
A:	The parameters need to be adjusted to meet the requirements of different users for the maintenance time and speed of the flexion and extension actions; The flexion/extension time range indicates the maintenance time of a single flexion and extension action; and the larger the number is, the longer the operation maintenance time will be; Flexion/extension power gear indicates the speed of a single flexion/extension movement; the larger the number is, the faster the movement speed will be.

7. Maintenance

7.1 Environmental Protection

The parts of the product cannot be discarded carelessly. Otherwise, it will pollute the environment. Before discarding products or accessories that have been scrapped and no longer in use, please consult or contact a professional waste treatment plant for disposal, or contact the distributor, or dispose of them in accordance with the requirements of local laws and regulations.

7.2 Cleaning and Maintenance

7.2.1 Host: After the host is powered off, dip a piece of fine fiber cloth in water and wring the water out, and wipe the surface. Besides, pay attention not to make water enter the host, and do not clean the product with corrosive liquid;
7.2.2 Glove: Please disinfect the product with 75% medical alcohol before and after use. power power and data glove are consumables and are recommended to be replaced regularly.

7.3 Product Warranty

Shanghai Siyi Intelligent Technology Co., Ltd. is the sole organization to judge and determine whether it is within the warranty scope.
Please refer to the warranty card for details of the warranty period of the product. During the warranty period, if the damage is caused by unauthorized disassembly, abnormal use of equipment, inconsistent use environment, improper maintenance/storage, material cost or service fee will be charged according to the specific circumstances.
Only when all the following requirements are met, shall Shanghai Siyi Intelligent Technology Co., Ltd. be responsible for the safety, reliability and performance of the products, i.e., the assembly, adjustment, maintenance and upgrade are conducted by or under the authorization of Shanghai Siyi Intelligent Technology Co., Ltd. The relevant electrical equipment shall comply with the national standards and the special requirements of the Manual; and product operation shall be carried out in accordance with the methods and procedures specified in the Manual.
Faults caused by improper use of equipment or equipment usage conditions not within the scope of the Manual are not covered in the warranty. Faults caused by wear or accident out of negligence, improper supervision or unauthorized disassembly and alteration of equipment use are not covered in the warranty.

7.4 Battery maintenance and maintenance

7.4.1 Please pay attention before charging
Do not charge the device in a humid environment;
Please use the original adapter and charging cable, non-original charger may cause damage to the device or not charge properly, and please note the following:

① First, check the socket/strip for safety hazards;
② Check whether the protective layer of the plug and cable is damaged, if so, please replace it in time!
③ When using continuously or for a long time, please pay attention to avoid the humid area (such as placing the product directly on the humid ground), and place the product in a dry and well-ventilated area, so as to avoid damage to key components caused by continuous high temperature and affect the service life of the product!
7.4.2 In order to ensure the normal use of the product and avoid unnecessary troubles, please follow the following requirements:
① Do not place the charger on the socket for a long time to avoid damage to the charger;
② If the device is not used for a long time, please place it in a dry environment and store it after charging. Charge 1-2 times a week, and charge for about 2h each time (when the power is greater than 90%, the indicator shows green on). If it is in a state of no power for a long time, it will affect the service life of the lithium battery;
③ After full charge, please unplug the charger in time, do not charge for a long time, continuous charging will affect the life of the lithium battery.
The above maintenance and maintenance is carried out by medical institutions.
7.4.3 Lithium Battery Parameters
Battery model: INR18650-3000
Voltage :7.4V
Battery capacity :3000mAh
Battery life: > 2 hours

8. Product Technical Parameters

Host	
Host dimension	127×134×85 (mm) (Length×Width×Height)
Rated charging voltage	9V
Rated charging current	2.5A
Rated power	22.5VA
Host weight	780g
Mode	6
Host noise	No more than 60 dB
Working Conditions	
Ambient temperature	5°C~40°C
Relative humidity	No more than 80%
Air pressure	86kPa~106kPa
Storage and Transportation Environment	
Ambient temperature	-40°C~+55°C
Relative humidity	No more than 93%

9. Packing list

Name	Quantity	Name	Quantity
Host	1	Adapter	1
Power glove	1	Charging cable for the data glove	1
Wireless data glove	1	User Manual (attached with warranty card)	1
Certificate of Conformity	1		

Appendix 1

Warranty Card

User name		Product serial no.	
Contact phone no.		Purchase time	
Mail address		Place of purchase	
Model type		User signature	
Maintenance records			

Appendix 2

Product Cable Information

Cable	Max. cable length, Shielded/unshielded		Number	Cable classification
AC Power Line	1.8m	Shielded	1 Set	AC Power

Important information regarding Electro Magnetic Compatibility (EMC)

This electrical medical equipment needs special precautions regarding EMC and put into service according to the EMC information provided in the user manual; The equipment conforms to this IEC 60601-1-2:2014 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

The equipment with no ESSENTIAL PERFORMANCE/Following ESSENTIAL PERFORMANCE is intended used in Professional healthcare facility environment except for 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. /Home healthcare environment

ESSENTIAL PERFORMANCE: None

WARNING: 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" .

The 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.

WARNING: 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 Model Name, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result."

STATEMENT: For the purpose of its operation, the equipment has wireless communication function, it includes RF transmitter and receiver, 2.4GHz, Pulse modulation.

STATEMENT: The equipment is a large, permanently-installed system. According to chapter 8.6 of IEC 60601-1-2:2014, the test was only performed at some discrete frequencies.

a) An exemption has been used and that the equipment has not been tested for radiated RF immunity over the entire frequency range 80 MHz to 6 000 MHz;

b) WARNING: This equipment has been tested for radiated RF immunity only at selected frequencies, and use nearby of emitters at other frequencies could result in improper operation" ;

c) Following frequencies and modulations are used to test the immunity of the equipment.

Selected Frequency (MHz)	Emitter	Frequency Range	Modulation
103.7	Radio	Business radio band	FM
433.92	Remote controller	ISM frequency	FM
446	Walkie-talkie	walkie-talkie	FM
915	Mobile phone	GSM900	Pulase
2400	Wireless router	WIFI	Pulase
5000	Wireless router	WIFI	Pulase

STATEMENT: The equipment is designed compatible with high frequency surgical equipment; the condition includes working or standby in close proximity to high frequency surgical equipment.

When the AC input voltage is interrupted, the equipment will shut down and if the power supply restored, it should be recovered by operator manually, this degradation could be accepted because it will not lead to unacceptable risks and it will not result in the loss of basic safety or essential performance.

Following degradation caused by Electrostatic Discharge or Electrical fast transients/burst could be accepted because it will not lead to unacceptable risks and it will not result in the loss of basic safety or essential performance:
Vertical bars appear on the screen, it can recover to previous condition by operator manually by restart the power switch.
Data transmission stopped, the transmission could be restarted by operator manually by restart the power switch or re-insert the data cable.

EMI Compliance Table (Table 1)

Table 1 - Emission

Phenomenon	Compliance	Electromagnetic environment
RF emissions	CISPR 11 Group 1, Class B	Professional healthcare facility environment and Home healthcare environment
Harmonic distortion	IEC 61000-3-2 Class B	Professional healthcare facility environment
Voltage fluctuations and flicker	IEC 61000-3-3 Compliance	Professional healthcare facility environment

NOTE: The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class B). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

EMS Compliance Table (Table 2-5)

Table 2 - Enclosure Port

Phenomenon	Basic EMC standard	Immunity test levels
		Professional healthcare facility environment
Electrostatic Discharge	IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air
Radiated RF EM field	IEC 61000-4-3	3V/m 80MHz-2.7GHz 80% AM at 1kHz
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	Refer to table 3
Rated power frequency magnetic fields	IEC 61000-4-8	30A/m 50Hz or 60Hz

Table 3 – Proximity fields from RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Immunity test levels
		Professional healthcare facility environment
385	380-390	Pulse modulation 18Hz, 27V/m
450	430-470	FM, ±5kHz deviation, 1kHz sine, 28V/m
710	704-787	Pulse modulation 217Hz, 9V/m
745		
780		
810	800-960	Pulse modulation 18Hz, 28V/m
870		
930		
1720	1700-1990	Pulse modulation 217Hz, 28V/m
1845		
1970		
2450	2400-2570	Pulse modulation 217Hz, 28V/m
5240	5100-5800	Pulse modulation 217Hz, 9V/m
5500		
5785		

Table 4 – Input a.c. power Port

Phenomenon	Basic EMC standard	Immunity test levels
		Professional healthcare facility environment
Electrical fast transients/burst	IEC 61000-4-4	±2 kV 100kHz repetition frequency
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV
Surges Line-to-ground	IEC 61000-4-5	±0.5 kV, ±1 kV, ±2 kV
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands between 0.15MHz and 80MHz 80%AM at 1kHz
Voltage dips	IEC 61000-4-11	0% U_T; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°
		0% U_T; 1 cycle and 70% U_T; 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11	0% U_T; 250/300 cycles

Table 5 – Signal input/output parts Port

Phenomenon	Basic EMC standard	Immunity test levels
		Professional healthcare facility environment
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands between 0.15MHz and 80MHz 80%AM at 1kHz

FCC Requirement:

Any 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.

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.

Responsibility · Quality · Cooperation · Innovation

SYREBO

Shanghai Siyi Intelligent Technology Co., Ltd.

Address: 2F,13 Building,No.2388,Xiupu Road,Pudong Dist,Shanghai, P.R.China

Office: (+86)400-6886-275

Mobile & whatsapp: (+86)17317983724

E-mail: info@syrebo.com

Website: www.syrebo.com