

Lower Limb Rehabilitation System

Please read the user manual carefully before using the machine

-- XYKXZFK-9

Introduction

1. Introduction: The lower limb rehabilitation system(Hereinafter referred to as "device") is designed as an innovative rising bed with automatic stepping function, which can train the knee and ankle joints. It not only makes it possible to start the preparation phase of intense exercise therapy, but also develops physical strength for the lower limbs.

2. Product features: The lower limb rehabilitation system is designed to do double-leg stepping exercises or single-leg stepping exercises, and it can be used for active training or passive training.

3. Hypertonia/spasm: The lower limb rehabilitation system can achieve the ideal effect of alleviating the progress of muscle hypertonia under the operation of the doctor or therapist and the guidance of the patient. If spasm occurs during treatment, the electronic circuit of the lower limb rehabilitation system will detect it, and immediately stop the motor from running, and the anti-spasm function will start.

Product performance

1. Working conditions:

a) Ambient temperature range: $+10^{\circ}\text{C}\sim+40^{\circ}\text{C}$;

b) The relative humidity range of the environment: $30\%\sim75\%$;

c) Atmospheric pressure range: $700\text{hPa}\sim1060\text{hPa}$.

2. Power supply: a.c. 230V, frequency: $50\text{Hz}\pm 1\text{Hz}$; Rated input power: 780VA.

3. Training time: 0 to 99min adjustable, with a step difference of 1min and a tolerance of $\pm 30\text{s}$.

4. Stepping speed: 1 to 80 steps/min adjustable, with a tolerance of ± 5 steps/min; stepping angle is adjustable from 0 to 30° , with a tolerance of $\pm 3^{\circ}$.

5. Standing angle: $0\sim 90^{\circ}$ adjustable, tolerance $\pm 3^{\circ}$, jog control.

6. Adjustable range of foot pedal length: $0\sim 200\text{mm}$ adjustable, tolerance $\pm 10\text{mm}$.

7. The up and down movement angle of the pedal: $\pm 15^{\circ}$, with a tolerance of $\pm 3^{\circ}$.

8. The backboard of the device: the forward tilt angle is adjustable from 0 to 15° , the backward tilt angle is adjustable from 0 to 10° , and the tolerance is $\pm 2^{\circ}$.

9. The lifting range of the bed surface of the trainer is adjustable from 0 to 300mm, and the tolerance is $\pm 20\text{mm}$.

10. Product dimensions (length \times width \times height): $2500\text{mm}\times 1050\text{mm}\times 980\text{mm}$, tolerance $\pm 5\%$.

11. Rated load of sling: 120kg, tolerance $\pm 10\text{kg}$.

12. Feedback evaluation function: the device tracks and displays the force of the thigh in real time, and evaluates the training situation according to the feedback data.

13. It has background music and language prompts during exercise.

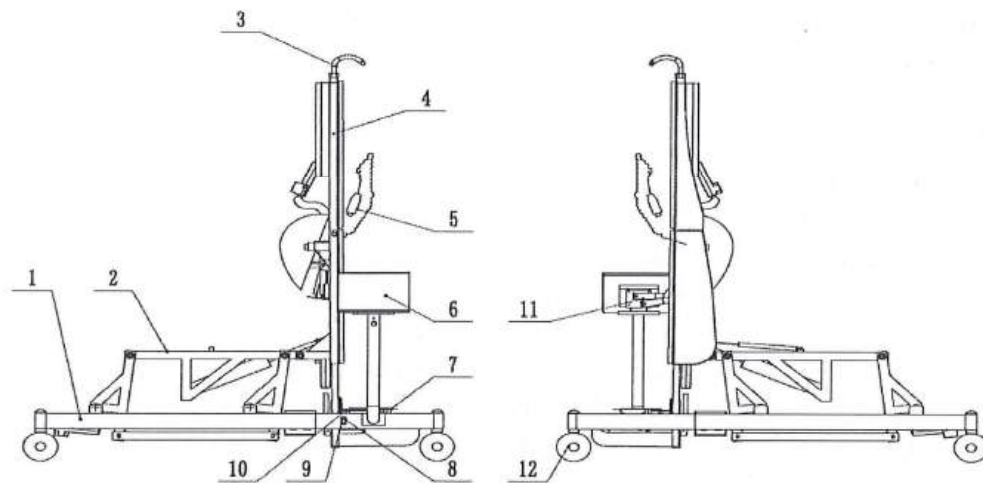
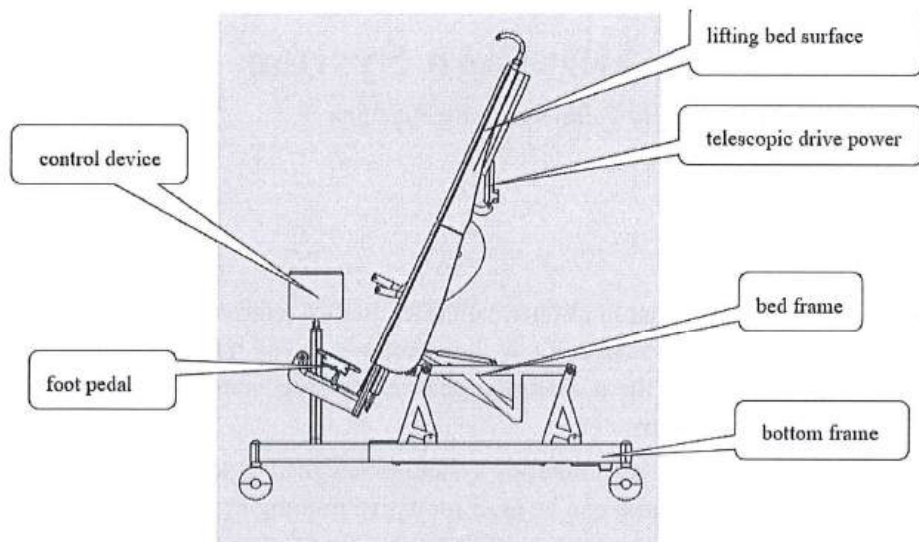
14. With spasticity function: Spasticity sensitivity and Spasticity interval have adjustable;

15. Weight reduction function

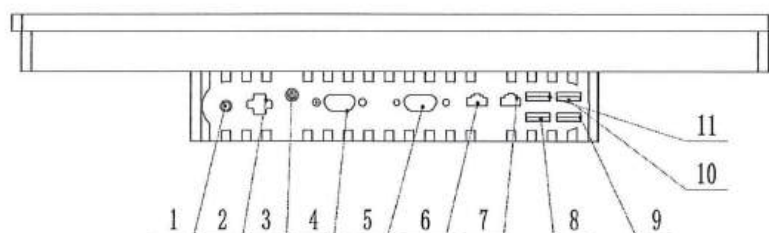
Product structure

The device is mainly composed of a bed frame, a lifting bed surface, a control device, a telescopic drive power, a foot pedal, and a bottom frame.





1	Bottom frame	Bed bottom frame
2	Bed frame	Bed frame
3	Weight loss bracket	For providing weight loss function
4	Forward and backward bed planks	For assisting to lean forward and backward.
5	Emergency stop button	Emergency stop button
6	Display	Human-computer interaction screen.
7	Foot pedal	Provide support for the patient to perform stepping movements.
8	Power interface	Power interface
9	Switch	For controlling device to turn on or off
10	Emergency stop switch	For emergency stop equipment, power outage
11	Support stand	Support stand
12	Caster	For moving device



1	Audio output port	For connecting to audio device
2	Power cord	For providing power supply to device
3	On-off key	For control computer switch on and off.
4	Data cable interface 1	For data transmission
5	Data cable interface 2	For data transmission
6	Network cable interface 1	For connecting network cable
7	Network cable interface 2	For connecting network cable
8	USB port 1	USB port
9	USB port 2	USB port
10	USB port 3	USB port
11	USB port 4	USB port

Scope of application

Standing and stepping training system is a rehabilitation training for lower limb and it stimulates passive training on knee joints and ankle joints. Applicable for long-term bedridden patients, lower extremity paralysis or motor impairment.

Contraindications

Pregnant and lactating women, physical trauma, bleeding and skin allergies, combined with severe primary diseases of the cardiovascular, cerebrovascular, liver, kidney and hematopoietic systems; mentally ill; patients with malignant tumors.

Precautions, warning and prompt

1. Before using the device, be sure to read the instructions carefully and operate according to the stated requirements.
2. Skills the operator should possess: The operator should read the software manual and operating procedures when using the software for the first time. This software is easy to operate, users can use it after mastering the operation steps.
3. The software that comes with the device can only run with the computer that is compatible with the device, and it is invalid to install on other non-matching computers.
4. Considering safety, personnel who do not master the device should not operate the device without authorization. The doctor will use the device after being familiar with the user manual and mastering the

operating skills. The user should use the device under the guidance of a doctor.

5. The system settings are not open to the outside world and are set by our company's professionals. Users are not recommended to configure without authorization. If you need to configure the port and add the logo, you can directly contact the maintenance personnel. Maintenance personnel can enter the password on the homepage to enter the setting page.

6. The elderly, emergency patients and patients without self-care ability should be used under the supervision of a doctor.

7. The training device cannot be used in humid, harsh or high temperature environments.

8. The device is only suitable for training when the body is supported by sling.

9. Wear tight-fitting clothes during training.

10. Before starting the treatment, make sure that the four movable casters at the bottom of the device have been locked.

11. During the operation of the device, do not approach or try to remove the moving parts.

12. For the purpose of relaxation, passive movement driven by the motor of the intelligent feedback training system of the limbs should be used.

13. If the patient has any abnormal symptoms during or after training, he should contact the doctor immediately.

14. Only when the plug is completely pulled out from the power socket, the device is completely powered off.

15. Operating the device close to shortwave or microwave therapy equipment (such as 1m) may cause the output of the trainer to be unstable.











16. Repairs can only be carried out by authorized professionals.










17. After shutting down, wait for more than 10s to restart.

18. Software operators should be trained by the company before they can operate the software.

19. Please use the power cord and hand controller specially equipped with the device. Do not change the power cord or hand controller provided by other manufacturers at will. Otherwise, the output may be unstable due to the mismatch with the trainer, which will affect the treatment effect or lower the minimum safety level.

Explanation of graphics, symbols, abbreviations, etc. used in labels

	Caution		OFF (power)
	ON (power)		Manufacturer
	Date of manufacture		Serial number
	Follow instructions for use		Type B applied parts
	Complies with Medical Device Regulation (EU) 2017/745		European community representative

	Medical device		This way up
	Keep dry		Do not roll
	Protective earth (ground)		Do not stack
	Non-ionizing electromagnetic radiation		Fragile, handle with care
	Unique device identifier		

Abbreviation

Spasm-Spasm: It is an abnormal increase in muscle tone that occurs after damage to the central nervous system. It is a motor dysfunction characterized by speed-dependent tonic stretch reflexes caused by increased excitability of the stretch reflex.

Spasm torque: In physics, torque refers to the tendency of force to rotate an object around the axis of rotation or fulcrum, that is, the physical quantity that force produces a rotational effect on physics. The spasm moment in this system refers to the moment when the user has spasm during exercise.

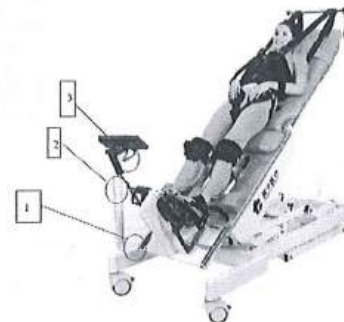
Spasticity sensitivity: Refers to the degree of change in the response of a method to the unit concentration or unit quantity of the substance to be tested. Spasticity sensitivity refers to the sensitivity when spasticity occurs.

The several times: The abbreviation of the number of treatment times. The word evaluation module can extract the data of a certain treatment for viewing, and the overall evaluation is a summary of the data of all treatments of the patient. The "several times" of the occurrence of cramps refers to the number of times that cramps occur. In a single treatment, the patient has several cramps, and the number of cramps will be stored several times.

Installation instructions

Hardware installation

1. When unpacking the device, do not disassemble it brutally, and pay attention to the protection of the packaging and device.
2. After unpacking, check the product and its accessories according to the product packing list. If there is any error, please contact Sunnyou dealer or directly contact Sunnyou Company.
3. As shown in Figure ①, connect the LCD support rod to the bed (fixed with 4 screws of 8*20mm).
4. As shown in Figure ②, insert the LCD screen into the support rod and fasten it with a 8*15mm screw. Rotate the LCD screen to a suitable operating position, and then tighten it with an 8*20mm adjustable wire.
5. As shown in ③, connect the connecting wire in the pole to the LCD screen (there are audio cables, display cables and USB cables).



11 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

6. After installation, turn on the power and you can use it.

7. The disassembly method of the above-mentioned accessories should first cut off the power of the device, and operate according to the reverse steps of the connection method.

Software installation

This software is installed in the same way as common desktop software. Professional installers decompress the software compression package to a suitable disk on the computer, double-click the application, and install it as prompted.

Software uninstall

When the software needs to be uninstalled and reinstalled, the maintenance personnel can uninstall it as follows: Control panel-uninstall program-find the software and uninstall it.

Operation instructions

(1) Operation steps:

Manual operation controller instructions



: Rise



: Decline

Rising: The bed surface is raised horizontally.

Tilt: The inclination of the bed surface is adjustable from 0 to 90°.

Weight loss: The shelf on the upper body with straps starts to rise, pull up the straps to achieve lightening the purpose of weight.

Pedal: According to the height of the patient, the patient can be fixed with straps more accurately by adjusting the position of the pedal.

Rear Panel: The patient can be adjusted to a suitable position during the treatment process, making the treatment process more comfortable.

(2) Software operation instructions

1. "Open the lower limb rehabilitation system" (hereinafter referred to as "system") software, the login interface appears as follows.

Note: The user can click the keyboard button to open the soft keyboard when inputting. The size of the soft keyboard is adjustable. The user can adjust the keyboard size as needed. Just close the keyboard when not in use.



Figure 1 Login interface

Unregistered physicians can click the '**Register**' button to enter the physician registration page, fill in relevant information and register. After successful registration, go back to the login interface and log in.

For registered physicians, input their name and password and log in directly.

The test and installation personnel do not need to register, just choose the simulated doctor "Sunnyou

Medical", the password is admin.

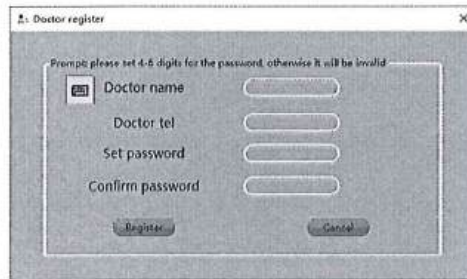



Figure 2 Physician registration interface

2. Click “change password” button in the upper right corner of the login interface to enter the modify password page, and the doctor can modify his login password by entering the corresponding information.



Figure 3 Modify password interface

After logging in to the system, go to the patient search page, click the settings button  in the upper right corner, enter the password (default password 1111) to enter the administrator settings page, you can add the hospital logo and name, change the port, and change the administrator password. Note: This item can only be operated by the installer or administrator when the software is installed for the first time.

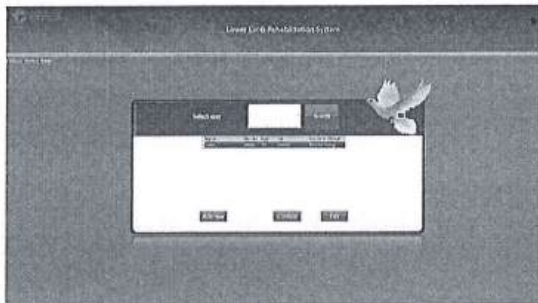


Figure 4 Patient retrieval interface

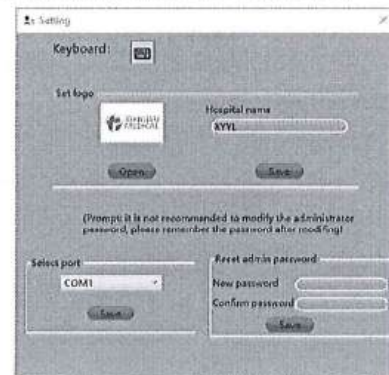


Figure 5 Administrator setting interface

As shown in Figure 5 above:

- A: Keyboard button: When you need to input, you can click to open the keyboard button;
- B: Set the logo bar: You can add the user's hospital logo and name (the hospital logo picture and name will be displayed in the header of the report sheet after being added, if not added here, the Sunnyou medical logo and name will be defaulted);
- C: Select the port column: For the first installation and use, the administrator needs to configure the port;
- D: Reset the administrator password field: the administrator can change the administrator password here (the administrator password is the channel through which installers and administrators can enter the

settings. It is not recommended to modify the administrator password. Please remember to modify it). Unregistered patient users can click “Add User” to enter the patient registration page, fill in the relevant information, register and log in.

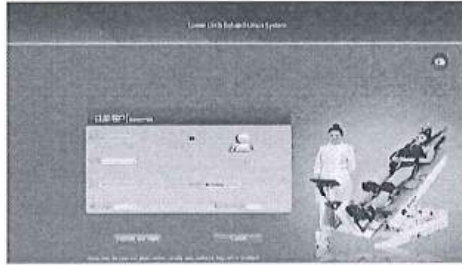


Figure 6 Patient registration interface

5. In the patient search interface, you can search for patients through the drop-down box or enter the name of the patient who has been treated. When there is a patient with the same name, the detailed information will be listed in sequence. After selecting the corresponding patient, click OK to enter the treatment system navigation page. Click “ok” button to log in with the currently selected user and connect to the device. If the connection is successful, there will be a voice prompt: “The device is connected”.

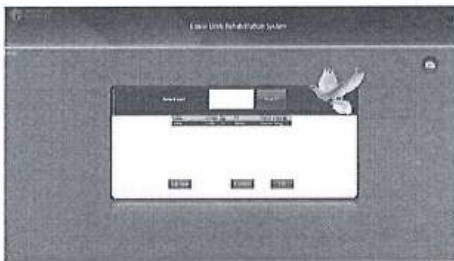


Figure 7 Patient search interface (patients have been searched)

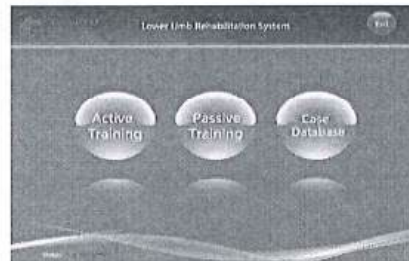


Figure 8

As shown in Figure 8 above:

A: Exit system button: After the patient is treated, the doctor user can click “exit” button to return to the login homepage;

B: Three module buttons: Click “active” button, “passive” button, “case database” button to enter the corresponding modules respectively;

C: Background music button: Click “Music” button to enter the background music operation area, as shown in the figure below:



Figure 9 System background music page

Click “Active” button to enter the active training page, as shown in Figure 10. In the active training mode, there are: left and right leg slide bars, treatment time, exercise steps, start training button, and query button. Click the start button, and the patient can start exercising. The sliding bar slides up and down according to the patient's movement; the display box displays the treatment time and the number of exercise steps.

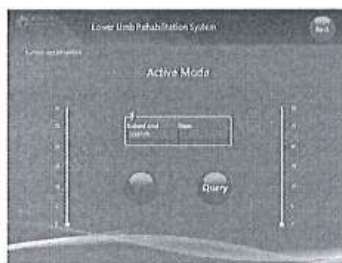


Figure 10 Active training page

Query button: Click this button to enter the active training result feedback page. The physician can view the feedback form of the current user's active training results. Patient users can actively train before and after each passive training. Physicians can feedback and compare the results of active training to learn about the patient's initial state and recovery:



Figure 11 Active training_query page

As shown in Figure 11 above:

A: Active training result feedback form;

B: “print” button: click to enter the print preview, you can view and print;

C: “previous” button: The previous page button of the active training result feedback form;

D: “next” button: Active training result feedback form next page button;

E: “delete” button: Physician can delete unnecessary records. Click the first time to load, then click the drop-down button of the display box, select the first time, and click the delete button.

7. Click the passive training button to enter the system treatment page, as shown in Figure 12. (If the COM port is not selected correctly in the second step, or the device is not connected correctly, a serial port open error prompt box will pop up at this time).

On the left and right sides of the treatment interface and below, there are: left and right leg sliding bars, treatment time, spasm intermittent time, step speed, decrease value after spasm, and leg spasm sensitivity. Click the corresponding numeric keyboard to input data. There is a prompt to enter the range value at the top of the display box. When the user enters a non-range value, the system will prompt "Please enter the range value". For the first treatment, the stepping speed should be set to be smaller, and the exercise intensity should be gradually increased according to the patient's condition to avoid excessive stretching. Speed setting range: 20~80 (steps/minute) adjustable. After setting the treatment parameters, click to start treatment.

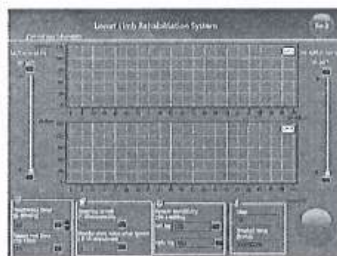


Figure 12 Treatment page

As shown in Figure 12 above:

- A. The current treatment user is displayed in the upper left corner;
- B. The upper right corner is the button to return to the navigation page;
- C. The moving range of the two slider bars can be set by the up and down small keyboard buttons on the left and right sides.
- D. Click the small keyboard buttons below to pop up a numeric keypad to set the corresponding parameters respectively. If the input parameter exceeds the preset value range, a prompt message will pop up (Figure 13).



Figure 13 Small keyboard window

E. After setting the treatment parameters, click “Start” button to start treatment, you will hear the voice prompt: "Start treatment", and the device starts to work at the same time. In the middle display part of the treatment page, you will see the real-time detected torque curve, and on the left and right sides, you can see that the middle slider is running on the line with the change of the equipment movement angle.

F. During the treatment, the display area next to the start treatment button will display the current number of exercise steps and exercise time. The number of steps that have been moved is compared according to the set speed and the time that has been moved, with a tolerance of ± 5 steps/min.

G. In the process of exercise, if the detected torque is greater than the set spasticity sensitivity value, the device will determine that a spasticity has occurred, and a voice prompt will appear: "Left leg (right leg) has spasm", the device will stop moving and enter the spasticity interval. At this time, the device enters the active training process, and the user can perform active exercises. When the active training stops, the legs are in a relaxed state and the time reaches the spasm interval, the system will automatically switch to passive training and start working.

H. After the treatment time reaches the set time, the voice prompt: "The treatment is over", the equipment stops moving.

I. After the treatment is over, click “back” button to return to the navigation page, and click the training record to view the training record (Figure 14). Enter the patient's name in the select patient input box and search, and then select the first treatment.

Click “check evaluation” button to jump to the single treatment evaluation page (Figure 15) and view the evaluation. Click Print to print the evaluation report.



Figure 14 Patient training record search page

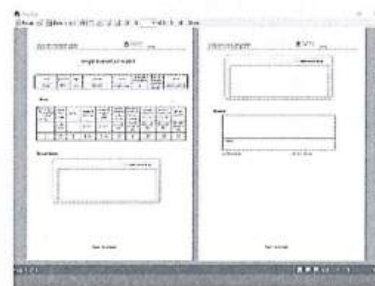


Figure 15 Single treatment evaluation page

On the training record page, you can also click “overall evaluation” button to enter overall evaluation page to view overall evaluation (Figure 16, 17). On the overall evaluation page, you can click “print”

button to print the overall evaluation page (Figure 17).



Figure 16 Patient training record search page

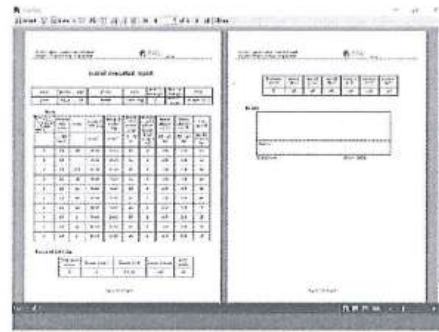



Figure 17 Overall evaluation page

10. Note: When the doctor forgets the password and needs to retrieve the password, he can contact the administrator. The administrator clicks the setting button  in the lower right corner of the login homepage, enters the password, and enters the login password initialization page.

Search for the name of the physician who needs to initialize the password. The physician's registration information will be shown in the table below. Select the matching information in the table, click "Reset Password" button, and the physician's password is restored and initialized (the initial password is uniformly admin).



Figure 18



Figure 19

When maintenance and installation personnel reinstall the old version of the software, they can click the "Import Data" button in the lower left corner of the first interface to import the contents of the old version of the data file. The upper right corner of the first interface has the functions of checking, updating and modifying the physician's password.

(3) Treatment guidance

Depending on the different patients, the purpose of treatment can be to stay active (preventive treatment), or to recover after surgery or injury, that is, to regain mobility or strength.

We recommend that the lower limb rehabilitation system be used as part of a training program prescribed by a doctor or therapist.

At the beginning of training, the stepping speed should be set to be slower, and the exercise intensity should be gradually increased according to the patient's tolerance to avoid excessive stretching.

(4) Operation steps

Note: When doing standing up treatment, the bed surface must be leveled up first. When you need to stand up to the maximum angle of 90°, you should first adjust the height of the lifting bed to a suitable position, and then perform the standing operation, and pay attention to the distance between the foot pedal and the chassis.

3.1. Preparations:

First, spread the lower limb straps and weight-reducing straps flat on the bed, and then let the patient lie flat on the straps.

3.2. Immobilize the patient

The lower limb straps are fixed 5 cm to 10 cm above the knee joint of the patient, and are firmly fixed. When the weight-reducing straps are used to fix the thighs, they should be turned out from the inner thighs and locked.

Fix the waist strap and tighten the upper body strap loop to make the strap tight.

3.3. Adjust the standing height, pedal height and backboard angle to a suitable position.

3.4. Open the software system, go to the treatment interface (old users directly select the patient to enter; new users need to "add user"), follow the panel operation instructions, set the appropriate training time, stepping speed and other parameters. Press the "Start Treatment" button to start working, and press the "Stop Treatment" button to stop working.

3.5. At the end of the treatment, turn off the power and release the bandage.

Note: ♦Before the treatment starts, first check whether the lower limb rehabilitation system is in a horizontal state. If it is not necessary to switch the power supply again, it can automatically return to the horizontal state before it can be used.

The physician or the user should let the device test operation for the first time: After opening the software, you can choose to simulate the user "Sunnyou", enter the treatment interface, and set the data. Then click the "Start Treatment" button to let the machine test operation, and roughly check the range of motion of the knee device and whether the upper and lower machines are abnormal. After the test operation is completed, exit the simulated user "Sunnyou" and return to the login home page.

Safety devices

During active or passive training, if the patient feels unwell, he can immediately press the emergency stop switch (safety switch) on the left side bed, and the lower limb rehabilitation system will stop working. If you need to resume treatment, you can reset the program and press the "Start treatment" button on the screen.

Maintenance

Hardware maintenance

The bed board, foot pedal, waistband and manual operation controller in contact with the patient should be cleaned and disinfected once a day, and the shell of the host should be cleaned once a week.

Detergent: Water, neutral soapy water

Cleaning steps:

- 1) Power off the device and unplug the power cord.
- 2) Use a soft cloth dipped in an appropriate amount of detergent to wipe the bed board, waistband, manual operation controller, foot pedal and shell.
- 3) Use a soft, dry cloth to remove any remaining detergent.
- 4) Air-dry the device in a cool, well-ventilated environment.

Disinfection tools: Medical alcohol cotton balls

Disinfection steps:

- 1) Turn off the power of the device and unplug the power cord.

2) Use a medical alcohol cotton ball to wipe and disinfect the bed board, manual operation controller and waistband.

3) Air-dry the device in a cool, well-ventilated environment.

2. Do not over bend, stretch, twist and tie the power cord and handle switch connection wires in use. Do not be pressurized by any heavy objects in order to prevent damage.

3. Keep the equipment clean, pay attention to moistureproof and dust-proof, do not close the power switch for a long time, unplug the power cord plug, cover the protective cloth, do not place heavy objects on the equipment.

4. It is recommended that preventive treatment should be performed before treatment, to confirm that the power cord is properly connected.

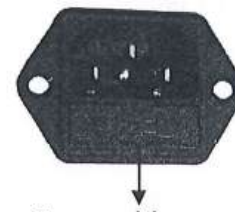
5. Do not use equipment for a long time, check every six months.

6. It is recommended to contact our company for maintenance and preventive inspection every two years to ensure the stable performance of the machine and its continued use.

7. Every time routine maintenance is performed, the power should be cut off to ensure safety.

8. Replace fuse.

- pull out the main power plug from the socket.
- lift off under the fuse cover with "—" screwdriver.
- remove the burned fuse.
- install fuses that comply with the label prompts.
- cover the fuse cap.
- fuse type: T3.15AL250V



Fuse position

9. If there is a malfunction, please ask professional maintenance personnel to repair it. If you need our company to provide services, please contact the distributor or the company's service department in time. Do not disassemble and repair at will.

Software maintenance

1. Port Settings: There is a port configuration button in the upper right corner of the first interface, where the password restricts user access and prevents port from being changed by non-professionals. When the port is first installed and needs to be changed, the installation and maintenance personnel can enter through the input password (initial password 1111) to configure the port, hospital name and Logo additions (hospital name and logo will be displayed in the case report header, default Sunnyou medical logo when leaving the factory), password settings, etc. If the port is not configured, the system will prompt the device is not properly connected when the user is in operation.

2. System pop-up prompt:

System pop-up prompt window "Not connected to the next machine!" "Indicating that the slave computer is not properly connected. Please check the connection machine.

System pop-up prompt window "device not connected correctly": indicating that the port is not configured, please contact the administrator to the settings page to reconfigure the port.

The system pop-up window "Port Lost" and "Port Opening Error": Please contact the administrator to reconfigure the port on the settings page.

System pop-up prompt window "data file abnormal damage": you can contact the installer to uninstall the software and reinstall it.

System pop-up prompt window "SQL Server database is not connected properly": the machine's

database driver may be deleted by mistake, please contact technicians to reinstall the database driver.

Software tip: no response, whether to close: close the program and reopen it.

For users to enter illegal values, the system will not be used, then pop-up window will pop up, users can enter the normative values as prompted.

When the user needs to see a treatment assessment and print, the number of times of treatment should be selected. If the user forgets to choose, the user will not be able to enter the single evaluation module, and the system will pop up the window to prompt "Please select the user and the treatment order";

When users retrieve patients and modify or delete treatment information, if patients are not selected, the system will prompt "Please select patients first".

In the course of treatment, we can't delete the information of this treatment which is being treated. If it is forcibly deleted, the system will prompt: "Current users can't delete it during treatment!".

3. There is an automatic update button on the front page of the software. Users can choose to update the software regularly.

4. The system has stable, efficient and complete database system. Users can not solve the problem when the software is running. Users can also contact our company's maintenance personnel to report errors. Our contact information can refer to the company introduction module of the software, or to the last page of this document.

5. When the software was opened, the system did not respond or failed. The software should be turned off and restarted. Users' improper operation, power failure, WIN crash, memory overflow and other sudden phenomena may cause unresponsiveness or disorder of the system. When the software failure occurs, shut down the lower limbs machine, shut down the software and restart it.

During the training process, if the patient feels unwell, he can press the emergency stop switch (safety switch) on the left bed immediately, and the system will stop working.

6. The software of this system only runs with the computer matched with the equipment, and can not be installed and used on the computer of the non-equipment.

Storage and transportation requirements

1. Transportation, storage conditions: ambient temperature : $-10^{\circ}\text{C}\sim+55^{\circ}\text{C}$

Relative humidity: $\leq 80\%$ Atmospheric pressure: $500\text{hPa}\sim 1060\text{hPa}$

2. Transportation: Foam plastic is added between the Device and package to prevent from shock, violent vibration and damp

Storage: The packaged equipment should be stored in a dry, non-corrosive gas, well ventilated warehouse with a relative humidity of no more than 80%.

Production date

Production date: see product label.

Environmental protection and others

If the device and its accessories are at the end of their normal service life or to be scrapped due to improper clinical use. It may cause harm to the environment if handled improperly and should be handled according to the local government's relevant laws and regulations on environmental protection.

Circuit diagram, component list

If necessary, please contact the manufacturer. Circuit diagrams, component lists, legends, calibration rules or other technical data can be provided on request. This device is a precision equipment, and there are no other parts that can be repaired by the operator or user. In the event of a failure, it should be repaired by the company or the repairer authorized by the company, and must not be disassembled at will.

Simple troubleshooting

Malfunction phenomenon	Reason analysis	Exclusion method
No display after booting	Poor contact in the power outlet	Check socket
	Fuse breakdown	Replace the fuse
	The power cord is blocked.	Replace the power cord
Can't stand upright or erect	Poor motor cable contact	Check plugin
	Fuse breakdown	Replace the fuse

If you can not troubleshoot, please contact us according to the contact information on the warranty card. Do not open the host to avoid damage to other parts.

Accessories list

Accessory name	Number of accessory
Power cord	1
Waistband	1

Contact information: 0372-7775555 1-12

Fax: 0372-7713696

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