GlassOuse

Assistive Device

www.glassouse.com

GT01- Finger Rehab Trainer

User Manual

GlassOuse Finger Rehab Trainer User Manual

Thank you for choosing the GlassOuse Finger Rehab Trainer. This advanced rehabilitation device integrates robotic technology and neuroscience principles to facilitate effective hand mobility restoration and recovery. By utilizing adaptive training modes and user-friendly features, the device supports patients in overcoming challenges related to hand function impairments.

Please read this manual thoroughly to understand the full capabilities of your Finger Rehab Trainer and retain it for future reference.

Inside the Box:

Name	Quantity	Name	Quantity
Control Unit	1	Power Glove	2
Mirror Glove (L,R)	2	Charging Cable	1
Training Ball	2	Power Adapter	1
User Manual	1	Power Adapter (For Heating)	2
Mirror Glove Cable	1	Gas-Type Fitting	2

Key Features

1. Multiple Training Modes:

Automatic Mode: Nine duration levels for passive rehabilitation, ideal for beginners at the initial stages of their rehabilitation journey.

Mirror Mode: Synchronized movements of the affected hand with the healthy hand to stimulate the brain’s motor cortex.

Simple Mode: Three duration levels for passive rehabilitation exercises, helping users build strength and control as they progress.

2. Precision Adjustments:

Palm Extension / Grip Duration: Adjustable durations from 1 to 9 seconds for each hand opening and closing action during passive rehabilitation.
Note: For simple mode, there're only 3 levels of duration (1-3 seconds).

3. Interactive Display Panel:

Real-time mode indicators (Automatic, Mirror, Simple).
Status display (Running, Paused).
Session duration tracking.

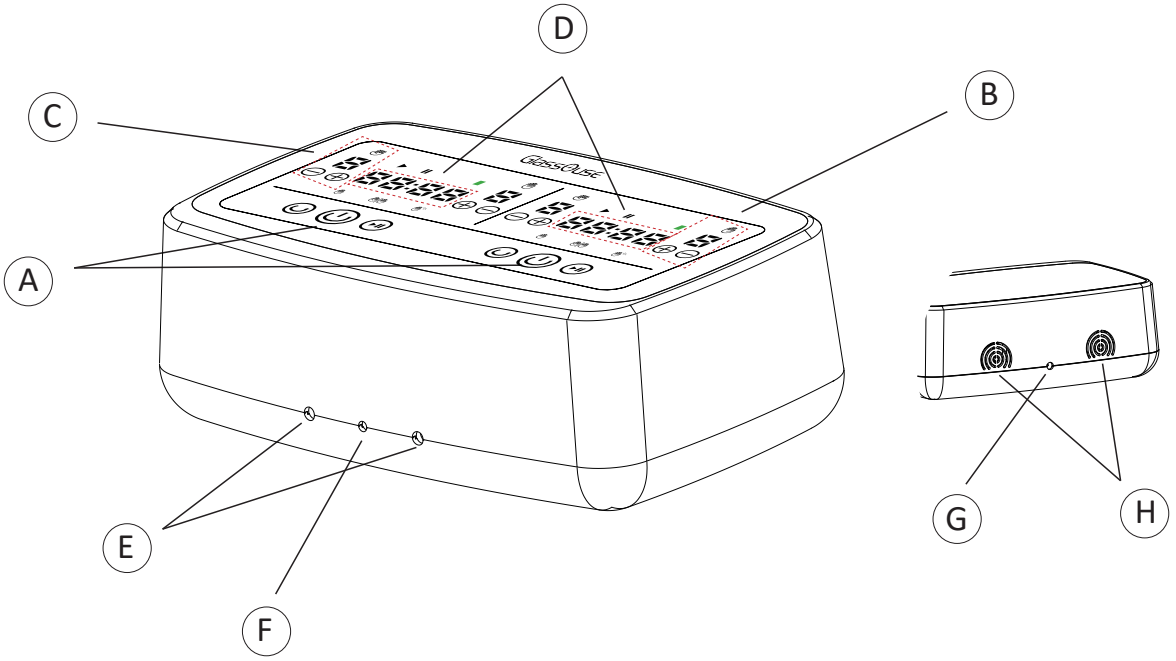
4. Ergonomic Interfaces:

Dedicated ports for Power and Mirror Gloves.
Heat dissipation system for safe, prolonged use.

5. Integrated Hand Warming Function:

The gloves feature a built-in heating mechanism to warm the user's hands.

Description



A . On/Off Button

B. Palm Extension Duration Adjustment

C. Grip Duration Adjustment

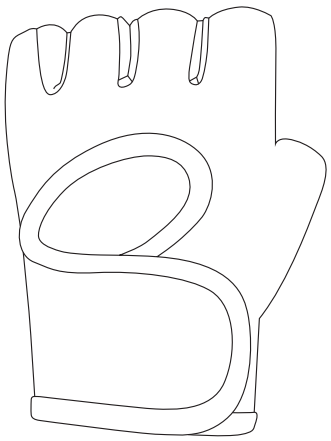
D. Duration Display Area

E. Power Glove Interface (L,R)

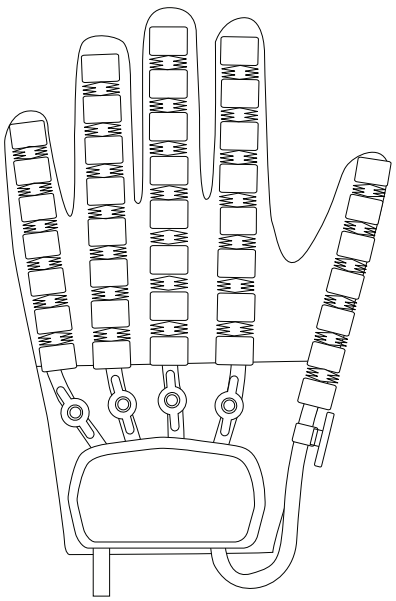
F. Mirror Glove Interface

G. Charging Port

H. Heat Dissipation Vent

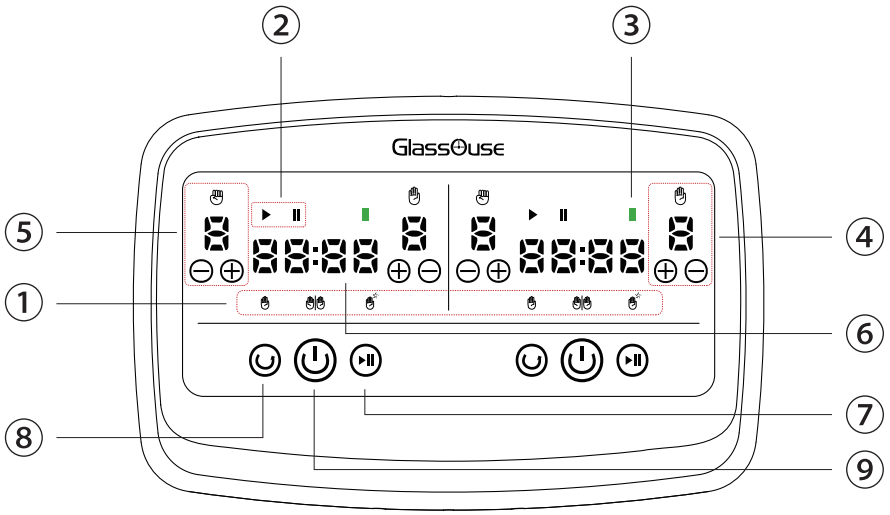


Mirror Glove (intact side hand)



Rehabilitation Glove (affected hand)

Control Unit



Display Area (Applicable to Both Left and Right Hands)

1. Mode Display Area: Shows available modes, including Automatic, Mirror, and Simple Training modes.

2. Status Display: Indicates the current status of the control unit—whether it is running or paused.

3. Battery Status Indicator: Displays the battery status of the control unit.

4. Palm Extension Duration Levels: Displays and allows adjustment of palm extension duration.

5. Grip Duration Levels: Displays and allows adjustment of grip duration.

6. Timing Function: Records and displays the duration of individual training sessions.

Touch Button Area

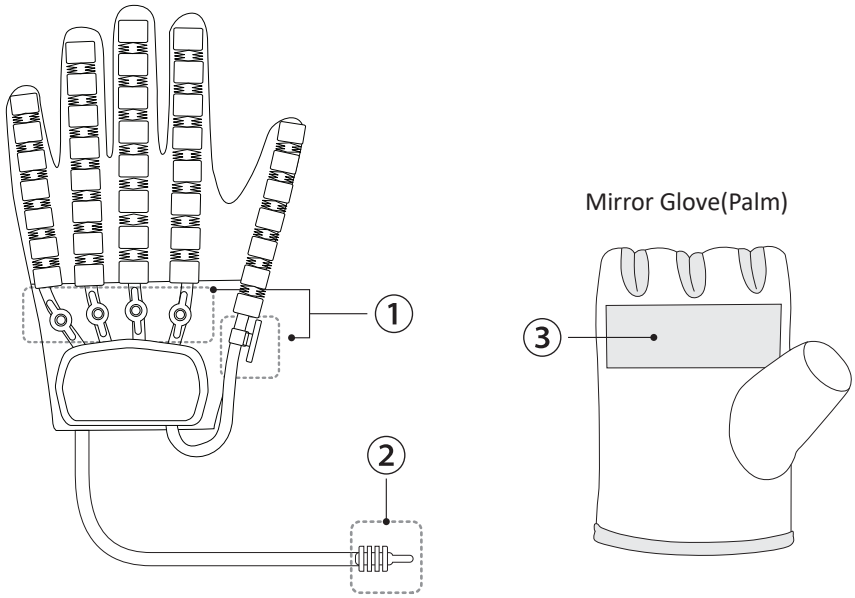
7. Pause/Start Button: Used to pause or resume the operation of the device.

8. Mode Adjustment Button: Allows switching between three modes—Automatic, Mirror, and Simple Training.

9. Power On/Off Button: Turn on/off the control unit.

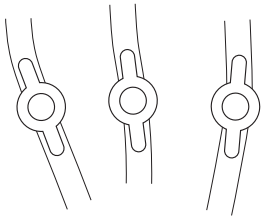
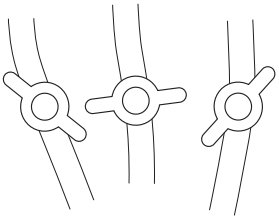
Note: In Automatic Mode, 9 duration levels are available for adjustment, while Simple Mode allows adjustment of 3 levels.

Gloves (Power, Mirror)



1. Single-Finger On/Off Valve

The valve is open when the wrench is aligned parallel to the air pipe.

	
Open when parallel	Closed when not parallel

2. Glove Connector

Connect the glove to the "Power" port on the control unit before use.

Note: Ensure the air hose of the power glove remains straight and is not bent during operation.

3. Mirror Glove Sensor

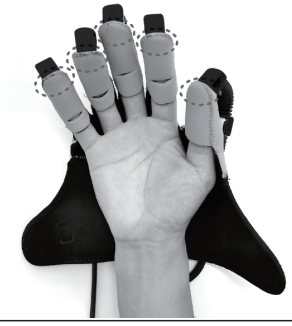
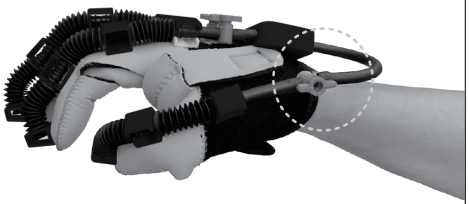
Make sure the sensor is placed properly inside the mirror glove for it to work.

Note: If the mirroring function fails or experiences lag, check that the connection cable is securely plugged in and functioning properly.

How to wear glove properly

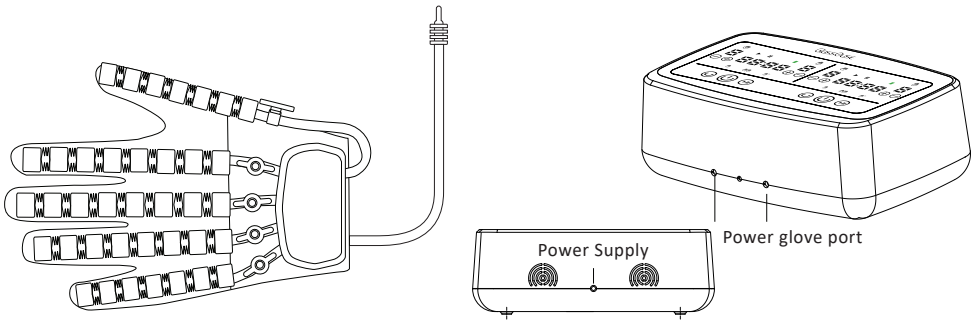
For those with stiff fingers due to high muscle tension and difficulty in wearing, you can knead the affected limb for 5 minutes first.

Note: It is recommended to wear gloves in a sitting or lying position.

	
Step 1: Put the fingers of the affected hand into the glove one by one, pull the entire glove towards the arm.	Note: your fingers should reach the top of the glove.
	
Step 2: Tighten the wrist, the Velcro sticks firmly.	Note: Pull the inside of the glove finger back as far as possible
	
Step 3: Fix the auxiliary fixing strap as shown in the picture	Note: Wear correctly, there is no gap in the wrist when making a fist.

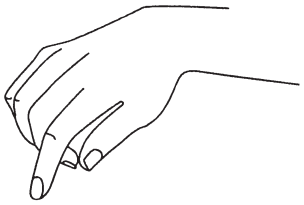
MODE 1: Automatic Training

1. Connect the rehabilitation gloves to the "Power" interface of the host, and wear the rehabilitation gloves on the affected hand.



2. Click the" ⏻ "power-on button, the default initial state of the host is: "Automatic " Mode ✋ ", set at Level 4.

3. During training, ensure the affected hand is placed in the "functional position" and avoid the "rest position."

	
Functional position	Rest position

4. Click the " ▶II " button, the rehabilitation gloves can flexibly drive the affected hand to start the automatic flexion and extension training of the hand.

5. Use the "+" and "-" buttons to adjust to a suitable level.

Note: Automatic Mode offers a total of 9 duration levels, ranging from 1 to 9 seconds.

Duration Levels:

Levels 1-3: Recommended for paralysis or low muscle tension.

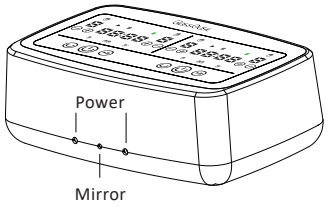
Levels 4-6: Ideal for mild to moderate stiffness.

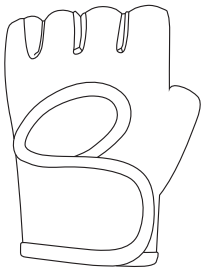
Levels 7-9: Suitable for significant stiffness (use massage or heat therapy beforehand if necessary).

MODE 2: Mirror Training

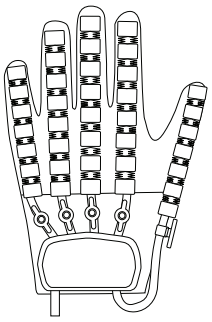
Mirror training, which is commonly known as synergistic movement of the affected hand and the healthy hand, stimulates the primary motor cortex, significantly improves the patient's limb perception, highly restores the real scene of hand function movement, and more effectively reduces hand numbness while improving finger mobility.

1.Connect the power glove to the "Power" power port and the mirroring glove to the mirroring port of the control unit, with the power glove on the affected hand and the mirroring glove on the healthy hand.





Mirror Glove



Power Gloves

2. Click the “ ⏻ ” power-on button, and select the "mirror 🤚|🤚 " mode by lightly pressing the “ ↻ ” button.

3. When the intact hand is clenched (touching the mirror glove sensor), the rehabilitation glove drives the affected hand to make a fist simultaneously. When the intact hand opens (no longer touching the sensor), the rehabilitation glove drives the affected hand to open in sync.

	
Synergistic hand holding	Synergistic hand opening

4. The user needs to actively focus on the mirror motion of the hands during the left and right hand mirror image training, so that it can stimulate the brain motor central nervous system more efficiently to enhance the rehabilitation effect.

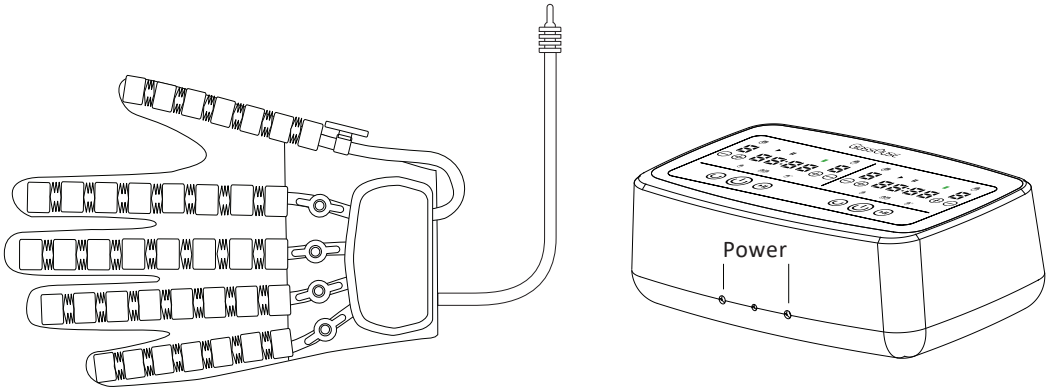
5. To pause the training, softly press the " ▶II " button.

Note: If the mirroring function fails or experiences lag, check that the connection cable is securely plugged in and functioning properly.

MODE 3: Simple Mode

Simple Mode offers three adjustable duration levels for passive rehabilitation exercises. Use the (+) or (-) buttons to select your preferred duration, making it ideal for users aiming to build strength and control as they progress.

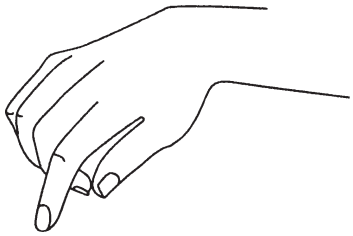
1. Connect the rehabilitation gloves to the "Power" port of the control unit, and wear the rehabilitation gloves on the affected hand.



2. Click the “⏻” power-on button, and select the "Simple Mode " by lightly pressing the “↻” button. At this time, it is Level 1.

3. To pause the training, softly press the " ▶II " button.

4. During training, ensure the affected hand is placed in the "functional position" and avoid the "rest position."

	
Functional position	Rest position

Note: Simple Mode allows adjustment of 3 duration levels (from 1 to 3 seconds).

Intensity Levels:

Levels 1: Recommended for paralysis or low muscle tension.
Levels 2: Ideal for mild to moderate stiffness.
Levels 3: Suitable for significant stiffness (use massage or heat therapy beforehand if necessary).

Product Specifications

Product Name	GlassOuse Finger Rehab Trainer
Dimensions	L:220mm×W:140mm×H:75mm
Weight (Control Unit)	1060g
Weight (Power Glove)	230g×2
Weight (Mirror Glove)	35g×2
Rated charging voltage	5V
Rated charging current	2A

Safety Instructions For Use

1. Before training, confirm whether it is necessary to prepare the hand in a non-rigid state. If the hand is stiff, start with manual manipulation, hot compresses, or flexible massage gloves to achieve a relaxed and supple state before proceeding.

2. Do not allow individuals who lack behavioral awareness or young children to use this product unsupervised.

3. For individuals with hand sprains, trauma, unknown bone injuries, untreated or severe fractures, or those requiring immobilization after treatment, consult a professional to determine if the product is suitable before use.

4. Do not wash the gloves directly in water. Instead, clean them with a soft cloth dampened with water or a mild detergent, ensuring the cloth is fully wrung out. If necessary, use a cloth with a small amount of medical alcohol for cleaning or disinfection. Allow the gloves to dry thoroughly before using them again.

5. Ensure the power connector remains dry and free of water. This operation should not be performed by individuals lacking behavioral awareness or by children.

Power Glove Hand Warming

1. Each power glove comes with inbuilt heating pad to warm up hand with exercising or wearing it casually.
2. To use it , connect the inbuilt heat warming cable to separate USB-A port.
3. Then press the power button on the controller present on the heat USB-A cable. You can then control the heating level to your preference.

Note: It will make few minutes for the power glove to warm up.

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