



CerebralFit

train your brain

SEMICONDUCTOR LASER TREATMENT DEVICE

USER MANUAL

CF40



CerebralFit
train your brain

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RoHS 

Product: Physiotherapy Product
Model: CF40
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Caution

Semiconductor laser treatment device (after referred to as apparatus), according to GB 7247.1-2012 ((Safety requirements and user's guide)), please read the instructions carefully before using, knowing functions and contraindication of our product, ensuring the safe and effective use.

1. Laser is high brightness, please do not make direct view or observation via optical instrument to the laser beam.
2. Do not point laser beam at other people when using, it is forbidden to straight irradiate at others' eyes.
3. Light-sensitive and weakness people should use in low power and short time, less than 15min for each time. twice a day.
4. The following conditions are strictly prohibited: pregnant, cancer and hemorrhagic disease.

Product Introduction

[Product name] Semiconductor laser treatment device
[Merchandise name] Laser therapeutic apparatus
Wuhan Cozing Medical Devices Co., ltd
[Product Model] CF40
[Safety Assortment] II Class internal electric source. BF
[Therapeutic method] Laser vitro vascular irradiation therapy

[Function mechanism] The CF40 applies 650nm- wavelength low-intensity laser to irradiate nasal cavity /ear, through low-intensity laser light irradiation to produce a series of energy effects and biological effects, which can change the blood rheology, reduce blood viscosity, reduce the body molecules, promote microcirculation, thereby improving the oxygen carrying capacity and the deformability of red blood cells, and finally achieving auxiliary treatment effect on hypertension, hyperlipidemia, cardiovascular and cerebrovascular diseases.

Ear Laser acupuncture: LLL T has a beneficial effect on the recovery of cochlear hair cells after acute hair cell loss, increases cell proliferation, synthesis of ATP and collagen, release of growth factors, promotes local blood flow in the inner ear and activates repair mechanisms in the inner ear through photochemical and photophysical stimulation of the hair cell mitochondria. Thus adjuvant therapy Otitis media, deafness, tinnitus, Meniere-s syndrome.

In a similar way, it also has good curative effect of treating acute rhinitis, chronic rhinitis and nasal sinusitis simultaneously.

Application Range

Nose Laser has good adjuvant therapy effect to reduce blood viscosity, decrease blood fat and cardiovascular disease, meanwhile, it also has good curative effect on acute rhinitis, acute exacerbation of chronic rhinitis, allergic rhinitis.

Ear laser: adjuvant therapy the Otitis media, deafness, tinnitus, Meniere-s syndrome.

Contraindications

Because this product is not for the following crowd that haven't dedicated experiments and observations about the side effects, it is not clear whether it's harm to these crowd, based on patient safety reasons, we DON'T recommend these crowd to use the product.

1. Pregnancy 2. Cancer 3. Patient with hemorrhagic diseases

Specification

Laser wavelength	650nm±20nm
A single laser output maximum power	5mW±20%
Terminal laser output mode	Pulse/Continuous
Terminal laser output instability	< ±10%
Horizontal beam divergence angle	Min:5° Typical:9° Max:12°
Vertical beam divergence angle	Min:30° Typical:36° Max:42°
Timing range	15min-60min adjustable, intervals in 15 mins
Display mode	Liquid crystal display
Class of safety	Internal power supply equipment
Power source	Lithium battery
Battery voltage	DC5V
Input power	< 10VA
Working environment	Temperature 5°C-40°C Relative humidity < 80%

Product Stucture

The product is composed of a host machine and laser nasal treatment probe(ear treatment probe option) with laser is hereinafter referred to as phototherapy probe.

CF40 Nasal Cavity Irradiation Semiconductor Laser Treatment Device



The cap of the phototherapy probe



Phototherapy probe



USB Line

The operation instructions for CF40 Semiconductor Laser Treatment Device

1. Preparation before treatment: Wipe the phototherapy probe with the a clean cotton cloth which dip a little medical alcohol, then insert into the nose/ear.
2. Turn on the device: Short Press "on/off" key, display is shining.
3. Treatment: After the device is turn on, short press "Time +" or "Time-" key adjust the treatment time, it has 15mins/30mins/45mins/60mins can choose; short press "Power" key for power adjustment, there are 3 intensity adjustable.
4. Treatment recommendation:
 - A. It is recommended that adults be treated 2-3 times a day, both treatment interval should over 3 hours; and 15 minutes/ laser intensity 3 in each treatment time.
 - B. Children and old aged are advised to choose 15 minutes/laser intensity 1-2 .

Screen disply countdown, and treatment is beginning.

5. Shutdown: Long press on/off key, screen no display, treatment is over.

6. Charge: The device is equipped with lithium battery, when the device has "tick, tick,tick " prompted sound automatically,then you should charge the CF40. Each charge time of 2-3 hours; the treatment not available during the charging. (The adapter is not included in the package, you can use the adapter technical parameter is , Input:11 0V-240V 50/60Hz; output:DC 5V-1 A Or DC 5V-1.5A or DC 5V-2A)

Remark: the laser diode in the phototherapy probe.

Controlling, Adjustment Operation and Maintenance

1. Please read the operation instruction earnest and particular, learning the cope of the product, contraindication. In strict accordance with the instructions to use, ensure safety used correctly .
2. Please wipe the phototherapy probes with a clean cloth dipped in a little medical alcohol before and after using it.
3. Please do not put the instrument in a wet, high temperature, direct sunlight, strong magnetic and not nearby strong microwave field.
4. Please do not put the instrument in a place that children can reach.
5. If the instrument is dirt on the surface, we can wipe it with a clean cloth dipped in a little medical alcohol, don't clean it with organic solution and gasoline etc.
6. Please be gently when you use it, avoid throwing, pressuring, impacting and shocking.
7. Do not disassemble the instrument if you are not technical staff, if it needs to disassemble, adjustment or repair, please contact CerebralFIT medical.
8. In order to ensure the consistency of product, you could let the manufacturer and maintenance power calibration regular after bought (each 3years).
9. The solution of the phototherapy probe on laser output lighted up:
 - a) The phototherapy probe and the jack is not plugged closely, unplugging it and replugging.
 - b) The screen is not display, please operate the device as the operation guide steps again.

c) If it can not be turned on while charging, please use it after charging is completed.

d) Malfunction: contact our service center.

10. The device power value will decrease as the usage frequency increased, and the decrease rate is 0.5% . The phototherapy probe warranty is 3 months , please purchase and change it in time.
11. Suggested use the 650nm wavelength lights, the protection device which density >4.

***Notice:** When battery is low, please use the adapter connect to the USB wire for charging, and during the charging, NO LASER OUTPUT.

Storage and Transportation Condition

- 1) Ambient temperature range:-40°C-+70°C;
- 2) Relative humidity range: < 90%;
- 3) Atmospheric pressure range: 50KPA - 106 KPA.

Environment Protecting

Please do not discarded scrap product, please return to company.

Product List

After the user opens the therapeutic instrument package, the following components should be checked:

Name	Quantity
Semiconductor Laser Treatment Instrument	1
Product user manual	1
Warranty Card	1
USB cable	1

Warranty Provisions

Our core value is to meet user's need as the starting point, so we are willing to provide you with comprehensive pre-sales and after-sales consulting and maintenance services;

The Instrument (except the phototherapy probe) from the date of purchase, non-human damage warranty time is one year. Because the phototherapy probe is consumables, warranty time is three months.

Product Warranty Card

Our core value is to meet user's need as the starting point, so we are willing to provide you with comprehensive pre-sales and after-sales consulting and maintenance services;

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WARRANTY CARD (STUB)

Purchasing type: _____

Fuselage coding: _____

Date of purchasing: _____

Network of purchasing: _____

WARRANTY CARD (STUB)

Purchasing type: _____

Sales Unit: _____

Purchasing site: _____

Name of user: _____

Address: _____

Tel: _____

Main question: _____