



High Power Handy Laser Therapy Device

HD-CureX



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Precautions

- * NEVER look directly into a laser with the naked eye. Should wear laser - protective glasses or goggles.
- * Laser equipment should be placed in a controlled area with minimal access to avoid inadvertent exposure.
- * Do not continuously use the device more than 10 minutes.
- * Be careful treating children and sensitive adults. Start with a the smaller dosage for the first treatment.
- * Avoid treating or significantly reduce the dosage for patient that may be photosensitive or have a stronger reaction to light like patients that are taking any light sensitive drugs including thyroid medication, Retin-A, tetracycline and St. John's Wort.
- * Do NOT treat while pregnancy.
- * NEVER treat a known or suspected cancer or tumor without approval from an oncologist or primary physician. There is the potential that the laser could stimulate the cells and promote growth.
- * Do NOT treat patients that are on immune suppression therapy because the light may boost the immune system.
- * Do NOT treat a patient with Epilepsy. Especially with a pulsing laser that could trigger an attack.
- * Do NOT treat directly over a pacemakers, cocklear implant or any internal electronics.
- * Avoid treating anyone with a coagulation disorder. Lasers can increase blood flow and this could result in unexpected consequences.

Introduction

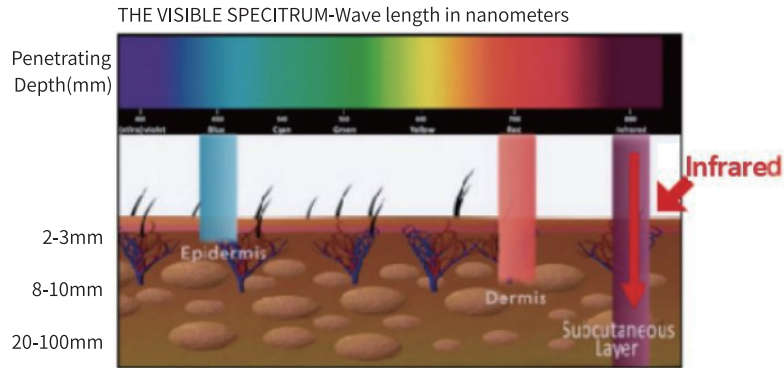
What is Laser Therapy?

Laser therapy, also called photobiomodulation, has been investigated for medical uses since 1960. There are two different types of therapeutic lasers, hot and cold. Hot lasers are typically used during surgery while cold lasers are generally used to speed tissue healing. Early laser research included the use of cold laser treatments to kill cancer tumors in rats. Although the laser therapy was not successful in killing the tumors, it was found to accelerate tissue healing at the surgical sites. Since that time, the laser has been extensively researched and is considered a highly beneficial medical invention.

The Food and Drug Administration (FDA) cleared the use of low-level therapy lasers in 2002 and class IV therapy lasers in 2003. The recent development of higher-power, class IV laser systems allow clinicians to deliver adequate doses of light deep into tissue to reduce pain and inflammation and accelerate healing. A class IV cold laser cleared and strictly controlled by ISO standards to be safe, painless and non-invasive.

How do Lasers work?

The Gallium Arsenide (GaAs) infrared laser provides the deepest penetration of body tissue of any laser currently available and can be utilized in treating a wide range of painful conditions.



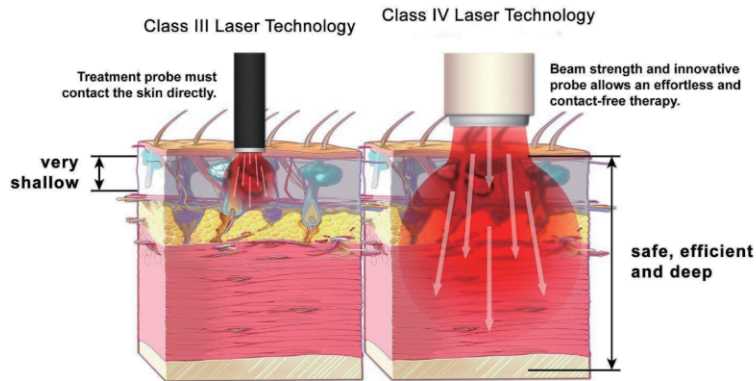
Lasers work by stimulating the body's natural healing response to relieve pain, improve function and reduce swelling without medication or surgery.

Lasers deliver penetrating light energy into the deep tissues and cells to stimulate the body's natural healing response and increase circulation. Lasers emit photons which are absorbed into the cells and converted into energy. A series of metabolic effects occur resulting in physiological changes at the cellular and intracellular levels.

This laser light stimulates absorption of nutrients by the cell and elimination of waste from the cell, thereby accelerating cell growth and reproduction. The energized cells work together to promote the release of growth factors, increase the immune response, and balance hormones and proteins (endorphins and bradykinin) for pain relief.

What is difference between Low Level Laser Therapy and High Power Laser Therapy

An output power of less than 0.5 Watts is classed as Low Level Laser Therapy LLLT (class III in the USA) whereas lasers with an output powers greater than 500mW or 0.5 Watts are termed High Power Laser Therapy HPLT (Class IV lasers in the USA). HPLT creates heat on the surface of the skin due to their higher power density (irradiance).



DEPTH OF EFFECTIVE DOSAGE AS A FUNCTION OF TREATMENT TIME

Due to specific nature of laser production, it also has specific characteristics

Monochromaticity - 'mono' means single. 'Chromaticity' meaning color. Laser when emitted produces single pure color because it has one specific wavelength.

Coherence-Laser rays are synchronous to each other. The crest and trough of individual rays matches each other.

Collimation- It is also termed as non-divergence. Laser rays travel parallel to each other.

Indications

Class IV Laser Therapy Device is intended to treat:

Alleviate pain: reduces muscle and joint pain and pain from chronic arthritis and repetitive stress disorders.

Reduce inflammation/arthritis: promotes healing and boosts circulation.

Recover from injury: decreases pain and inflammation; breaks down scar tissue; loosen stiff joints.

Skin conditions: wound healing, lacerations, hyalomma tick bite necrosis, hotspots, abscesses, saddle sores etc.



Application Areas



Features

- Natural Drug Free Chemical Free Non-Invasive
- Non-Ablative (does not damage the skin)
- Painless (does not itch, burn or sting)
- No Adverse Short or Long Term Side Effect
- Portable and rechargeable use outdoor

Included

- Handheld laser therapy device
- Protective eyeglasses
- AC adapter
- EVA carrying bag
- User manual
- Keys



Keys



AC Adaptor



Goggles

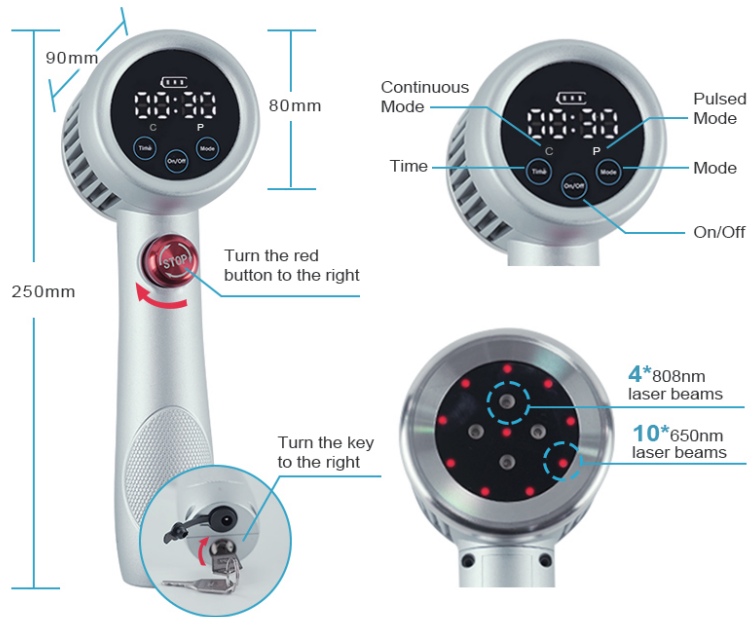


Device



EVA bag

Device Parts



Specifications

Laser medium	GaAIAs Semiconductor
Laser wavelength	808nm and 650nm
Terminal laser output	4×808nm laser beams, 500mW each beam 10×650nm laser beams, 30mW each beam
Total output power	2300mW
Battery capacity	Built-in lithium battery 5200mAh
Working mode	Continuous and pulsed mode 10Hz
Case Material	Aluminum
Display	White LED display
Time setting	30s-3 minutes options, each grade increases 30 seconds
Battery charger	Standard 2 hours on a full charge

Operations

1.Functions Setting and Keys Operations

1.1 Turn on

- 1) Turn the key and red button to the right.
- 2) Buzzer will “tick “ and all the icons on LED screen will light up when the device turned on, The default status is 30 seconds, “P” icon (Pulsed working mode) without Laser power output (Figure 1).



Figure 1

1.2 Working mode setting

- 1) Switch to “Continuous” working mode by pressing “Mode” button. The screen will display “C” icon (Figure 2).



Figure 2

1.3 Timer setting

- 1) Select the working time 30s-3 minutes by pressing “Time” button.

1.4 Start and Pause

- 1) Press “ON/OFF” button to start, pressing again to pause.

Tip: 1) When the laser diodes are working, if user wants to adjust the time, need to click “OFF” to pause firstly.

- 2) Instantly shut down: Press red button or turn the key to the left.

Automatically shut down: When stay in standby situation, will automatically shut down after 3 minutes.



Figure 3

1.5 Shut down

- 1) Press red button, and turn the key to the left (Figure 3).

2.Treatment Recommendation &Guidelines

Week	Time	Frequency	Mode
1	30s-1 minutes	2-3 times	Pulsed
2	1-2 minutes	2-3 times	Continuous
3+	2-3 minutes	2-3 times	Continuous

Attention: All treatment session increase or decrease have to be adjusted according to actual conditions.

Charging Instructions

Please charge timely when the battery icon appears almost empty (one or no more bars) on the LED screen to ensure the normal service life of the battery.

Please insert end A of the power adaptor to a household socket, and insert end B of the power adaptor to the jack of the device for charging (Figure 4). Buzzer "ticks" twice and the icon of the battery on the LED screen shows that the device is charging. When the device is fully charged, the icon of the battery displays all the bars.



Power adapter

Figure 4

Frequently Asked Questions

Q: HOW TO DEFINE CLASS IV LASER THERAPY?

Class IV laser therapy, also known as high-power or high-intensity laser therapy, is a type of medical treatment that uses a laser to penetrate deep into tissues to promote healing and reduce pain and inflammation. Class IV lasers are the most powerful type of therapeutic lasers, with an output of over 500 milliwatts. They are typically used to treat acute and chronic musculoskeletal pain, including back pain, arthritis, and sports injuries. The therapy works by stimulating cellular activity and increasing blood flow, which helps reduce inflammation and accelerate tissue repair.

The treatment is typically administered by a healthcare professional, such as a physical therapist or chiropractor or veterinary, who will use a handheld laser device to apply the laser energy to the affected area. The treatment is painless and typically lasts between several minutes, depending on the size and location of the treatment area.

It is important to note that while class IV laser therapy is generally considered safe, it is not recommended for use on patients with certain medical conditions or for those who are pregnant. As with any medical treatment, it is important to consult with a healthcare professional before undergoing class IV laser therapy.

Q: WHERE CAN USE CLASS IV LASER THERAPY DEVICE FOR?

A: It can be used on the chest, belly, upper back, neck, head,scalp, thighs, hips legs, feet and so on. WARNING! Never use it over your eyes, as the lights can damage your eyes.

Q: IS CLASS IV LASER THERAPY DEVICE SAFE?

Answer: Yes, this Class IV laser therapy device is safe, and treatments are well-tolerated. One of the biggest reasons so many patient use laser therapy is because it is a quick, simple, and safe treatment with few, if any, major side effects. This is backed by peer-reviewed clinical research, too.

Q: Have Physiotherapists use laser therapy device for pain relief?

A:Yes, laser therapy is one of the fastest growing treatments among physiotherapist. It is frequently used in rehabilitation settings for pain reduction, inflammation reduction, and wound care and healing. physiotherapist also widely use it for chronic pain and mobility issues associated with arthritis treatment. Laser therapy is also used for pain relief and injury and wound healing, especially after surgeries.

Q:HOW OFTEN CAN I USE THE CLASS IV LASER THERAPY DEVICE?

A: If you have skin wound, we recommend starting off with 30 seconds treatment sessions with Class IV laser therapy device at the first week and working your way up to 1-minute session. For acute pain or a sprain, we recommend starting off with 1 minute treatment sessions with it at the first week and working your way up to 2 minutes session. For arthritis, inflammation, or chronic pain, we recommend starting off with 2 minutes treatment sessions at the first week. You can use it 2-3 times a day in either scenario. We recommend using Class IV laser therapy device 5 days per week, depending on the wellness goals. Do not use continuously for more than 10 minutes, and wait at least 6 hours between 10 minutes sessions.

What can I expect from Laser Therapy?

Your physical therapist will identify areas for treatment and the length and number of treatments you may require. The Lightforce machine is a small box with an attached laser wand. You will feel a soothing warmth as laser energy penetrates the tissue. Treatments are painless and last 5 to 10 minutes. Results can be immediate but most observed results are after three to five sessions. The body continues to benefit from the effects of the therapy for 18-24 hours after the treatment. During this time, the changes in cell activity work to decrease pain and inflammation while promoting tissue healing in the areas where the laser was applied.

Can cold laser therapy be used at home?

Cold laser therapy devices are readily available to use at home. If you're considering purchasing a device for home use, there are a few important things to consider.

First, lasers vary in their output and some may not have the output they claim. Some are actually nonlaser light-emitting diodes (LEDs).

Second, some cold therapy products sold for home use make bold claims about what they can do.

Troubleshooting

1. The device is not turning on.
 - a. Press the ON/OFF button for 3 seconds.
 - b. Connect the AC adaptor to charge for 2 hours more.
2. System shuts off automatically.
 - a. Connect the AC adaptor to charge for 2 hours more.
 - b. Allow Device to cool down for several minutes, then attempt to turn on again.
3. Some lights appear not to be on.

The infrared (IR) light spectrum is not visible to the human eye. Therefore, these lights will look as if they are not on, but they are operating correctly.

Maintenance and Preservation

- 1) If the device breaks down, please check below “Trouble-shooting Instructions”, or directly contact the seller. Do not disassemble or repair by yourself without permission.
- 2) Please use an alcohol base rub to clean and sterilize the contact surface of the device.
- 3) Please keep the device away from humidity, high temperature and direct exposure to sunlight.
- 4) Please do not place the device together with hard objects.
- 5) To maximize the life of the battery, please charge for at least 8 hours for the first three times.
- 6) Regardless of use, please charge the battery at least every 4 to 6 months, which is beneficial for battery maintenance.

Warranty

Lascure Class IV Laser Therapy Device offers 1 year free warranty. Once it happens to any quality problem in this period, we will free send new parts or device for exchange. You just inform us of the product series number, short video or photos to point out the after-sales issue.

Warranty Card

User name		Tel		Responsible person	
Product name		Product model		Serial number	
Date of purchase		Add			
The fault phenomenon					
Repair record					