



LASER LIPOLYSIS
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Diode lipo laser machines

*12 diode paddles(336 diodes)

*650nm+940nm

LN-310 User Manual



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For the safety of your treatments and the protection to the system, please read this manual carefully before your operations.

Honorable Clients

Thanks for your attention to our product Lipolaser System.

★ For better use this machine, please read through the user manual and follow the instruction of this machine in detail when you operate the machine.

★ It forbids someone to open and remove the mainframe of this machine besides authorized from the company.

★ Please contact our in time if there are any question during operation.

★ Professional technique from our company to satisfy your kinds of requirements in a good way.



Chapter 1 Safety System

1. Safety device

For customer's safety, we design the protection system as followed:

Key switch: Operator qualification restriction, Switch on the power supply, turn to the standby state, screw to the original part anticlockwise to power off.

Emergency stop: To stop the machine easily when some emergency happens. Push it down, the power is off. When screwed clockwise, the power supply is on. Otherwise, the system remains OFF.

Air-blast circuit breaker: To avoid overloading of the power supply and control and protect the power supply.



The key should be removed after every usage and kept by the professionally trained or appointed operator.

2. Electrical safety

Lipolaser system uses single-phase AC220V/110V power supply; the capacity of power supply is more than 500VA.

The machine should be well connected with the electric al source net, which is measured up and well earthing . Power supply line and socket are in accordance with standard 10A 250V.



Do not open the cover of the machine without our guidance .

3. Background

Excessive body fat can damage people's appearance and athletic ability, may also cause various diseases. Excessive adipose tissue may be located in various parts of the body, such as: thighs, buttocks, abdomen, knee, back, face, arms and other areas. And excessive fatty tissue will form a honeycomb of ugly appearance. Excessive body fat may be associated with health risks, and therefore the need for effective control or elimination of excess fat approach. To diminish the stubborn body fat, in addition to the use of RF heating, laser-assisted liposuction and high-intensity focused ultrasound to speed up their metabolism, you can try using fresh Lipolaser technology to thin layer of fat, thereby achieving self-cultivation and plastic shaped effect.

For which a reasonable diet, regular exercise but still throw off the fat of the local people, the latest technology Lipolaser technology condensate is a godsend. Whether it is a relatively dense area of fat, smaller parts, such as hips above the waist on both sides of relaxation of the fat, belly and back fat, the fat soluble refrigeration technology can produce stunning results.



Chapter 2 Descriptions And Installation

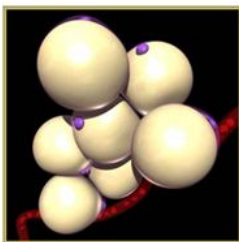
1. Theory of Lipolaser

The main role of the low-energy laser bio-stimulation (Bio stimulation), that is, through the give appropriate energy to stimulate the biological cells and induce or strengthen a number of physiological responses, including to promote local blood circulation, regulate cell function,

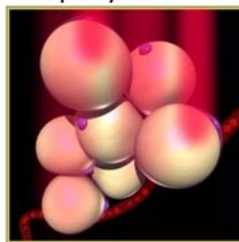
enhance immune function, promote cell metabolism and proliferation.

Wavelength of 650nm-660nm red laser just in human eye color of the visible spectrum, so we can see the red light 650nm -660nm can penetrate the organization up to 8-10mm, the effective activation and repair cells, stimulate the synthesis of cell metabolism, for the superficial cells biochemical stimulation and hyperemia. Irradiation meridian points to stimulate the meridian points related organizations, the skin tissue will not cause harm to exempt patients fear of needles, and also have the function to stimulate the meridians in a healthy way.

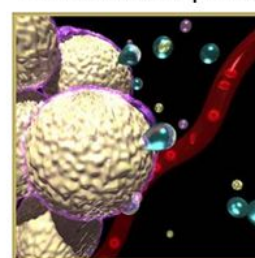
Adipocytes at rest



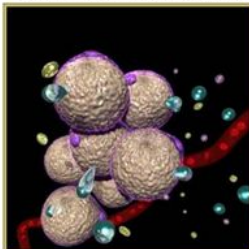
Laser energy from laser lipo irradiates adipocytes



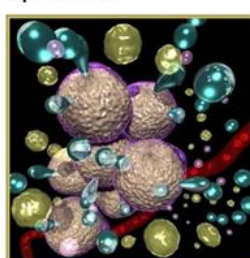
Pores have formed on the adipoc allowing Contents to spill out



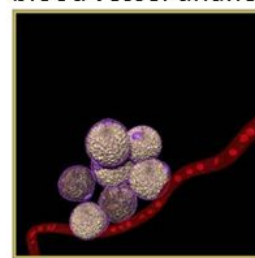
Water, glycerol and free fatty acids move out into interstitial space



More water, glycerol and free fatty acids spill out



Adipocytes significantly reduced in size while blood vessel unaffected



- 1. Never connect this equipment with any other equipment! Otherwise it will cause damage and risk of electric attack!**
- 2. The electrical line of this machine is equipped with power plug, which is standard single-phase three-pin. Also, please make sure that the socket of power supply is well grounded. voltage attack!**

2. Installation

1) Parts Introduction



**Big
laser pads**



**Small
laser pads**



Goggles



**Shelf for
laser pads**



**Screws
for shelves**



Bind tie



Keys



Power line

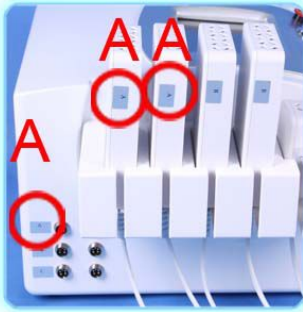
2) Installation:

- ① First: Install the Annex Shelf
- ② Second: Install the all paddles according to the Arabic alphabet
- ③ Third: Power on and test the function of the machine.

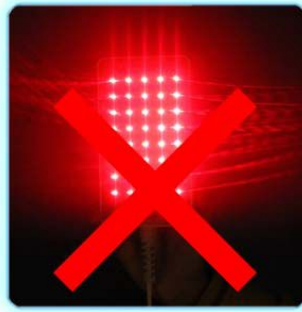
Tips:

1. Match connections for all the paddles with A,B,C,D,E,F,D.
2. Avoid directly eye contacting with the laser lights.
3. Press “STOP” button when there is an emergency.

Tips



A match A
B match B



Avoid direct
eye contact



Press
Emergency
Button

3) Operate Interface Instruction

Treatment screen interface

Make sure the power line has been installed correctly; make sure the hand piece is well connected with the equipment; Ensure the circuit breaker (if any) at the back of the machine is pressed to “on”. The red button of the emergency stop switch set to standby state. Turn the locking -switch key to “on” and the machine are powered. the working menu will appear automatically. Turn the key switch rightwards, the screen is on. Choose the Language. Choose the right parameter to do the treatment according to the needs of customer.



Fig.1 Opening interface with four Languages

Into the language touch, as shown in picture(**Fig.1**), click the interface under the flag, select the appropriate language, the interface below the flag from left to right represent: English, Spanish, Portuguese, Russian. Click the appropriate language touch, Choose the right intelligent parameter to do the treatment according to the needs of customer.(**Fig.2**)

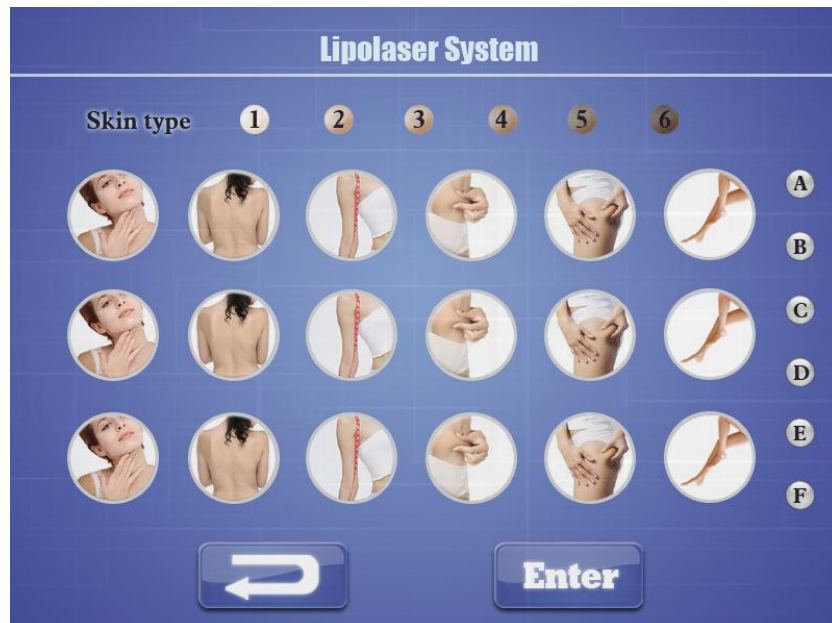


Fig.2

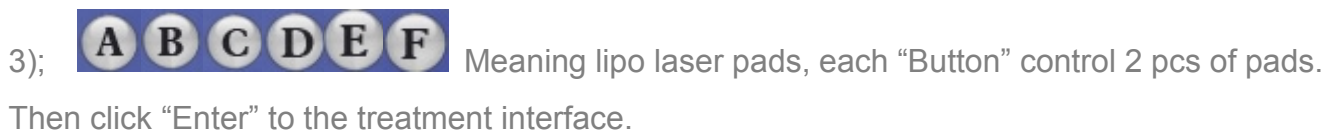
Setting the intelligent interface:



means skin color from light to deep, choose the suitable skin type.



Means different treatment body parts, including chin and neck, back, arm, abdomen, thigh, calves.



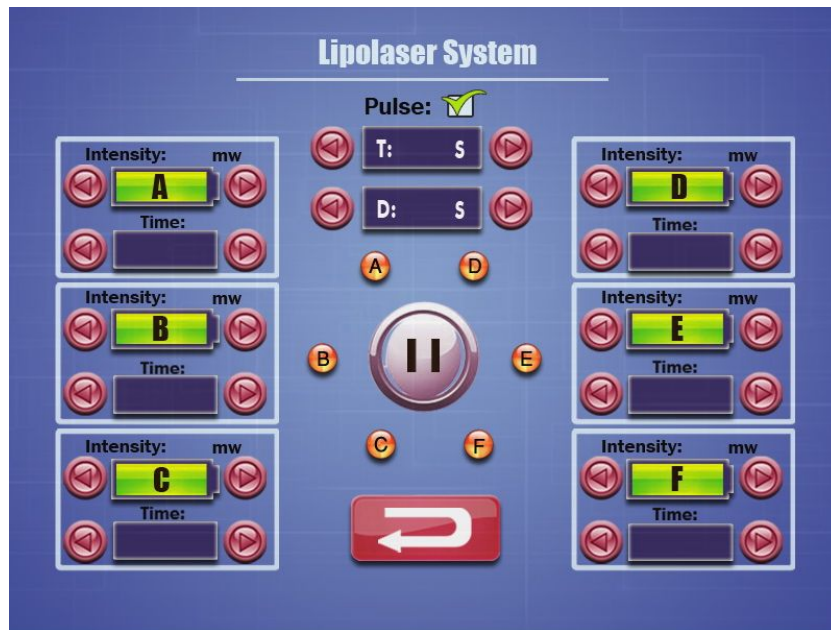


Fig.3

Treatment Setting and Methods:

1. “**A. B. C. D. E. F**” means the group number , total 6 groups , 12 pads , each group control 2 pads ;
2. Power setting : click “ ” “ ” to adjust the intensity.
3. Working time setting, click “ ” “ ” to adjust the treatment time.
4. **Pulse:** means continuous mode, **Pulse:** means pulse mode. **T: S** means interval time between pulse mode , **D: S** means pulse time.
5. “ ” means the control (start /stop) button for each group.
6. “ ” Total control key (start /stop) . To control all groups .
7. Click “ ” , the interface will return to home page .

All groups can work independently, and also can work together at the same time . It depends on the treatments.

8. When the client’s ready, cleaning the treatment area, using the bandages to fix the lipolaser pads on the treatment areas (Abdomen, waist, stomach, thighs, buttocks, upper arms etc).

9. The machine will pause automatically if the setting time is over.



Chapter 3 Notice Before Using

1. Notice before operation

Discuss with customers about the treatment thoroughly, make sure you have 100% understand customer's requirements about the treatment; then decide whether to start the treatment or not. Explain the treatment to customer as clear as possible. Clean the treatment area, make sure there is no grease, scruffs nor cosmetics, and the pores are clear to see. Firstly, use hot towel to warm the skin, and then wipe up the skin.

2. Operation Cautions

1). The equipment must be operated by professionals

2). Patients using the following medical electrical equipment can not use the equipment.

Implanted cardiac pacemakers or other implanted electronic devices;

Life-sustaining artificial heart-lung machines and other equipment;

Portable ECG measurement equipment;

3).The following patients should be agreed by the professional doctors before using the equipment. Patients with acute disease.

Malignancy

Patients with Infectious diseases

Pregnant women;

Patients with heart diseases

Patients with fever

Patients are receiving treatment or those with abnormal body phenomenon.

3. Contraindications

Liver problems, the raynaud's disease, severe cold urticaria, cryoglobulinemia, cold fiber hypoproteinemia, severe frostbite, a serious disease of sugar and the quiet old age, young children, frail and so on frozen not tolerate the treatment.

4. Treatment Setting

One part of a working time about 10-40 minutes (depending on the capacity of the human body set).

For the cellulite removal for the parts of body, each time just can only be for a cellulite removal for one part, regarding the Cellulite of waist, if you want cellulite removal for the whole waist, it need to receive multiple treatments to complete items for what your want..

Recommend treatment time and schedule:

Treated Body Area	Recommended Treatment Time	Recommended Treatment Schedule
Stomach, Thigh	20-30 minutes	8-12 sessions,2 per week for 4-6 weeks, each session should be followed by at least 30 minutes of cardio vascular exercise within 24 hours
Arms, Back, Buttocks, Male Breast	15-20 minutes	8-10 sessions,2 per week for 4-5 weeks, each session should be followed by at least 30 minutes of cardio vascular exercise within 24 hours
Calves	15-20 minutes	6-8 sessions,2 per week for 3-4 weeks, each session should be followed by at least 30 minutes of cardio vascular exercise within 24 hours
Cheeks, Chin, Neck	10-15 minutes	6-8 sessions,2 per week for 3-4 weeks, each session should be followed by at least 30 minutes of cardio vascular exercise within 24 hours

5. Treatment course

The suggested treatment course is eight sessions per target area. These can be performed up to twice or three times per week so body reshaping can be completed in under four weeks. Thereafter, the client can treat other target areas as desired. We advise that only one treatment area is treated on any one day to maximize the client's results.

6. Operation Process

- 1) Check the thickness of the fat.
- 2) Clean treatment area; Clear the hair of the treatment area.
- 3) Mark the size of treatment area.
- 4) The Lipolaser treatment, using the belt to fixed the pads on the treatment parts of body. wearing goggles and glasses.



Chapter 4 Maintenance

1. Cleaning of the system

Clean this system once a week minimally. Switch off the equipment, and wipe the surface with a soft, wet tissue, especially the window of the hand piece. Please take care that you don't pour any liquids on to the system. After each treatment, the window of the hand piece should

be cleaned.

2. Maintenance Instruction

1) Medical equipment or appliances close to the device may be resulting in operational failure due to interference,

2) The machine is a precise apparatus; do not use it at place with high temperature, humidity, dusty, smokes, and vapor.

3) If there comes a failure, please shut down the power immediately, and send it to the distributor or manufacturer for maintenance. Do not repair on your own.

4) Exclusion of liability

If fire, earthquake, war occurred.

The fault of the user, operator error;

Damage caused by using other method (not included in the use manual).

Operate without the manual's guide.

3. The usual problems and their solutions

Abnormality	Check
No Power The screen is off	1. Whether the mains has power. 2. Whether the power plug is plugged in well. 3. Whether the emergency stop switch is lifted; 4. Whether the lock-switch is turned on.
The screen is off	1. Whether the urgent stop is uplift 2. Whether the key switch is closed

4. Environmental protection and safety precautions

To abandon or disassemble the equipment should under the guidance of the local law, sent to specialized agencies.

Names and contents of Toxic and hazardous substances or elements

Hazardous Substances							NOTE
Part name	Pb	Hg	Cd	Cr(VI)	PBB	PBDE	

Plastic parts	○	○	○	○			
Metal structures/ decorations		○	○	○	○	○	
Circuit board Components		○	○	○	○	○	
Power Line		○	○	○	○	○	
Power bond		○	○	○	○	○	
Relay	○	○		○	○	○	
Buzzer		○	○	○	○	○	

Remarks said that the content of hazardous substance in all materials in the parts below the standard of SJ/T11363-2006 limit requirement. Indicates that the content of toxic or hazardous substance in at least one of the homogeneous materials for this part exceeding the SJ/T11363-2006 limit requirement.1363-2006.

Technical Note

Hardware structure of the machine parts, injection molded parts, and the majority of electronic components, connectors meet the requirements of the EU and China RoHS directives, only a few parts as the global technology limitations that may affect product reliability and not find a substitute for the toxic and hazardous substances, please be assured to use, use under normal conditions will not cause health effects on users

Parameter

Main Power output	220v/110v; 50Hz-60Hz
Safety	On Board Diagnostics
Classification	Electrical Class II, Type B applied part
Pads	12 pcs,8 big pads and 4 small pads
Laser type	low intensity diode laser
Laser source	Mitsubishi diode laser ML101J27
Wave length	dual wavelength, 650nm and 980nm
Each lamp energy	130mW~350mW (pulse)
Quantities of lamps	336 pcs

Laser working mode	Continue and pulse
Ingress Rating	IPXO
Environmental requirement	10°C to 40°C Non-condensing Humidities Below 75%RH
Cooling requirements	Air cooled
Gross Weight	31KGS
CE	CE WITH LVD AND EMC
Touch screen	8" TFT touch screen
Packing size	48CM*59CM*54CM

Accessories list

Item	Qty(pc)	Item	Qty(pc)
Main body	1	Power line	1
Laser pads	12	Bind ties	1 set
Annex shelf	2	Screws	4
Key	1	Glasses	3

Frequently Asked Questions (FAQ)

Q1. How many treatments will I need?

A1. We recommend 2 treatments per week for 4 weeks.

Q2. Can I have more than one area treated at one time?

A2. Yes. if you are prepared to do more cardio vascular exercise.

Q3. Will the inches stay off after a treatment?

A3. If you maintain a healthy diet and exercise routine then yes.

Q4. What actually happens to the fat?

A4. The fat cells are undamaged, but due to the reaction of the laser light on the cell it will empty the contents. The contents consist of Water, Glycerol and free fatty acids. Following a treatment the Glycerol or sugar is rapidly absorbed by the body. The water carries the free fatty acids, through the lymphatic system, through the kidneys and are then passed out of the body in your urine.

Q5. Does the treatment hurt?

A5. No. There is no pain at all.

Q6. How many centimeters loss will I achieve from this treatment?

A6. A typical client will lose between 2-6cm over three measurement areas during a single session around the stomach; this is also heavily dependent on the depth of the fat layer. Results in other target areas will be more varied. Commitment to the treatment and a decent eating plan will ensure maximum results. The exercise programmer after each treatment is important to allow the fat released during the treatment, to be used up as energy. A typical client can expect to reduce an area by 1-2 dress sizes during a course of treatments.

Q7. How long will the results last?

A7. As long as you maintain your weight, diet and exercise, the centimeter loss will be long-lasting. If exercise is not undertaken soon after the lipolaser treatment, the results will be temporary. Booster sessions following a course of treatments are highly recommended to keep your body in its ideal shape.

Q8. What areas of the body can be treated?

A8. The Lipo treatment can be performed on the following areas:

Stomach

Face

Hips

Thighs

Calves

Back fat

Baby bulge

Male breasts

Chin and fat around the face - using specially designed facial pads

Q9. Are the laser treatments safe?

A9. Not only is the procedure safe but quick, pain-free and healthy. There is no recovery time needed, and you can return to normal activities directly after the treatment.

Q10. What exercise should they do following an inch-loss treatment?

A10. Any cardio-vascular exercise adjusted for each clients fitness level, such as; running machine, swimming, power walking, etc. It is important to check the clients age and fitness level before suggesting any exercise. Whichever exercise is chosen must get the heart rate up to the point of perspiring.

Q11. Why do some people achieve better results than others?

A11. All Laser Lipo Inch-loss treatments are not a miracle cure. However we achieve fantastic results more so with the clients that follow the advice of a sensible diet in addition the more exercise you can do the better the results.

Q12. How can I monitor my results?

A12. At every session you will be weighed and measured and you will be photographed before your first treatment and following your last.

Q13. Client is reluctant to do cardio work or change diet?

A13. Do not sign them up for the course, as they will not gain from the treatment. After eight

sessions with no visible loss it is quite likely they will want a refund. The importance of cardio-vascular exercise must be stressed to the client prior to commencing the course.

Q14. My client is putting inches back. Why ?

A14. There are potentially three reasons for this:

1. Over eating or drinking
2. Under eating
3. Not exercising enough within 24 hours post treatment.

Q15. Must I wear laser glasses?

A15. Protective glasses/goggles should be worn at ALL times.

Q16. How long will the treatment take?

A16. Treatments take between 10 and 40 minutes dependent upon what system is being used. All systems work equally.