



Body Contouring WITHOUT the SURGERY

introducing the

LAPEX-2000  
**LIPO LASER**



## Low Level Laser treatment has revolutionized the Aesthetic Industry.

Low Level Laser is the latest medical technology for spot fat reduction and the treatment of cellulite and has showed superior results over any other existing non-invasive methods.

The initial purpose of Low Level Laser technology was pain relief, skin regeneration, and cell activation following surgery or other wounds. However, one clinical trial using different wave length demonstrated that Low Level Laser was effective on spot fat reduction and after continued clinical studies, it has been recognized that Low Level Laser is safe and effective for this situation.

The LIPOLASER works by irradiating the cold red laser into the fat cells where the fat (LDL) is extracted out through the cellular wall and is liquefied in the intercellular area. The outgoing pathway of Liquefaction fat is through Lymph drainage.



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## Understanding the laser

Laser is an acronym for light amplification by stimulated emission of radiation produced by electric generation of light quantum and light amplification. *Treatment with low level laser therapy (LLLT) is not based on heat development, but on photochemical and photo biological effects on cells and tissue.* Laser is light energy that is amplified to have high density and one of biggest outcomes of 20-century quantum physics. Unlike normal light (e.g.. Sunlight, electric light), laser cannot be generated naturally and is only generated through work process.



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## Physical Properties of the Laser



**User caution due to its properties:** When certain lasers are focused, they have an enormous destructive force. With High power laser or hot laser the output of laser energy is between 3000 to 10000 mW (milliwatts). It is usually used to solidify the bleeding and to cut the tissues, called "laser knife" or also known as "surgical lasers". On the other hand, low power laser or low-level laser, the output is lower between 1 and 500 mW.

The power is low and will not damage the hydrogen bonds in the tissues, nor does not it cause any change but the photochemistry effect. Sometimes, low power laser is also called "cold laser" or "soft laser". Focused low power Laser may cause damage to eyes, therefore, the LipoLaser should not be radiated directly towards the eyes. Operator should wear the Laser goggles and cover the patient's eyes with gauze and fix with a sleep mask to protect the patient from Laser light.

**\* Do not wear sunglasses for protection purposes.**

Sunglasses cause pupils to dilate and this could be dangerous.

Use only specially made Laser goggles, which are designed to block Laser light waveforms.



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## Intensity of Laser and Medical Application (Law of Bio-modulation)

### 1. Low power ( - 50mW) => Cold Laser

- Physiological effect
- Functional stimulation, acceleration of cell regeneration, acceleration of metabolism

### 2. Medium power (80 – 160mW)

- Pain relief effect
- Physiotherapeutic effects such as decreased inflammation and edema
- Reduction in the appearance of cellulite / improved body contouring

### High power (1000mW +) => Hot Laser

- Tissue destruction effect
- Application - precision surgery, bloodless operation, etc.

## Laser Wavelength and Physiological Effect

### 1. Red: 635-680 nm

- Physiologic effects (functional stimulation, acceleration of regeneration, acceleration of metabolism)
- 2-3 cm penetration with little power loss
- Mainly applied on skin, subcutaneous fat, lymphatics

### 2. IR: 760-940 nm

- Pyrogenic effect
- Good penetration
- Mainly application - musculoskeletal pain



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## LIPOLASER Clinical Application

Over 80% of the adult female population suffers from the appearance of cellulite in the skin. Cellulite appears early in life and tends to increase through the years. As skin ages, collagen and connective tissue lose their elasticity and the skin's dermis is weakened.

The aging process also affects the metabolic, endocrine and vascular systems, which may result in an inability to efficiently discharge waste products. Lymph drainage and microcirculation are particularly affected. The resulting accumulation of waste products causes alterations in connective tissue and the fat cells which are held in a framework of collagen. Fat cells enlarge, impact blood vessels and cause edema or swelling.

The fat cells are displaced upwards into the lower dermis and the fibrous bands that normally maintain skin tension become less elastic and trap the displaced cells. The cottage cheese appearance is caused by the restriction of fibrous strands as they pull down the skin at their attachment points.

Diet and exercise alone rarely clears the cellulite and whereas liposuction helps to reduce localized fat, it is not effective for cellulite. Numerous thigh creams, massages, vibrators, botanical wraps have been tried in the United States, all with virtually no long term results.

Low Level Laser will assist in decreasing the appearance of cellulite painlessly and safely.



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## Advantages of LIPO LASER.

The biggest advantage of LipoLaser is that it is a non-surgical treatment procedure that reduces the appearance of cellulite and assists in body contouring.



- Safe and Non-Invasive
- Quick and Measurable Results
- No Swelling, Bruising or Dimpling, A Regenerating Effect
- Very Easy to Use
- Minimal Time and Effort Involved
- No Side Effects or Recovery Time
- Revenue Generating and Rewarding
- Rapid Return of Investment

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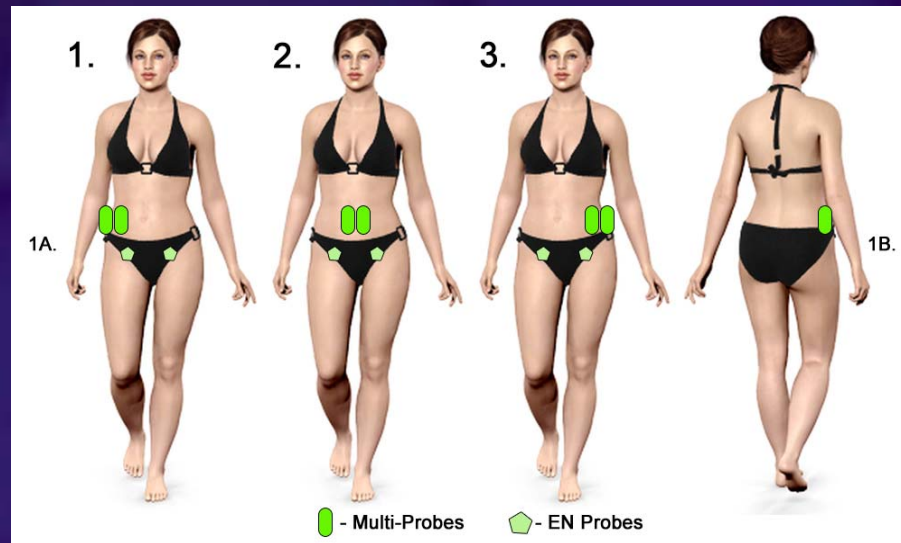


## Example of Abdomen Treatment Application

After selecting treatment area, multi probe should be placed directly against the skin. The point probes are applied to the lymphatic areas (see diagram) in order to enhance the effect of the multi probe.

When treating a smaller, narrower area (upper arm), place point probe on antecubital fossa to improve circulation.

1. Apply one multi probe on the Left lateral waistline, one probe to be placed posterior waistline for 10 minutes. (See 1B)
- 1A. Place EN probes to both sides of inguinal region during the entire 30 minutes of treatment.
2. Apply both multi probes on medial waistline for 10 minutes.
3. Repeat #1 to the Right lateral / posterior waistline for 10 minutes. (See 1B)



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# BEFORE & AFTER LIPOLASER

Total Loss: UPPER : -1.5cm MIDDLE : -5cm LOWER : -2.5cm



10 Dec. 2005



10 Dec. 2005



12 Dec. 2005



12 Dec. 2005



**Before**  
Upper: 93.5cm  
middle: 104 cm  
lower: 109.5cm

**AFTER 1<sup>st</sup>.**  
upper: 92cm  
(-1.5cm)  
middle: **100.5cm**  
(-3.5cm)  
lower: 107cm  
(-2.5cm)

**Before**  
upper: 93cm  
middle: 101.5 cm  
lower: 108cm

**AFTER 2<sup>nd</sup>.**  
upper : 92cm  
(-1cm)  
middle : 99.cm  
(-1.5cm)  
lower : 107cm  
(-1cm)

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### Cases the LipoLaser should not be used

- \* Pregnancy
- \* Epilepsy
- \* Children
- \* Thyroid Gland Dysfunction
- \* Hypertension
- \* Pacemakers
- \* Cancer, Radiation Therapy
- \* Kidney / Liver Disorder



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## Features of LIPOLASER

- Wavelength 630 – 680 nm
- Output Power 150mW + 60mW
- High power output  
(40mW X 4 – Multi probe, 40mW X 2 – Point probe)
- Easy and convenient to control (Large TFT- LCD screen)
- Multi probe treats large areas and Point probe can pinpoint more specific smaller areas
- High efficiency (direct contact of the probe to skin)



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## LIPOLASER Product Specification



Power Supply	100-240Vac, 50/60Hz
Power Consumption	Max. 50W
Dimensions	245mm(W) × 240mm(H) × 342.1mm(D)
Weight	6.2kg
LCD Display, Safety Class	320 × 200 Graphic LCD, Class I, type BF
<b>MULTI PROBE</b>	1 channel
Source	Laser Diode AlGaInP
Type	Continuous & Modulated Continuous
Wavelength	630nm ~ 680nm
Output Power	150mW ± 20 %
Modulation Frequency	0 ~ 10kHz
<b>EN PROBE</b>	2 channel
Source	Laser Diode AlGaInP
Type	Continuous & Modulated Continuous
Wavelength	630nm ~ 680nm
Output Power	30mW ± 20 %
Modulation Frequency	0 ~ 10Hz

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### Multi Laser Probe (CW: Continuous Wave)

- Multi-Beam Shower method (broader coverage)
- High Power Laser Array
- Variable modulation frequency
- 2 channel simultaneous treatment



### Single Laser Probe (CW: Continuous Wave)

- Laser probe for localized area
- High power laser array
- 2 channel simultaneous treatment



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