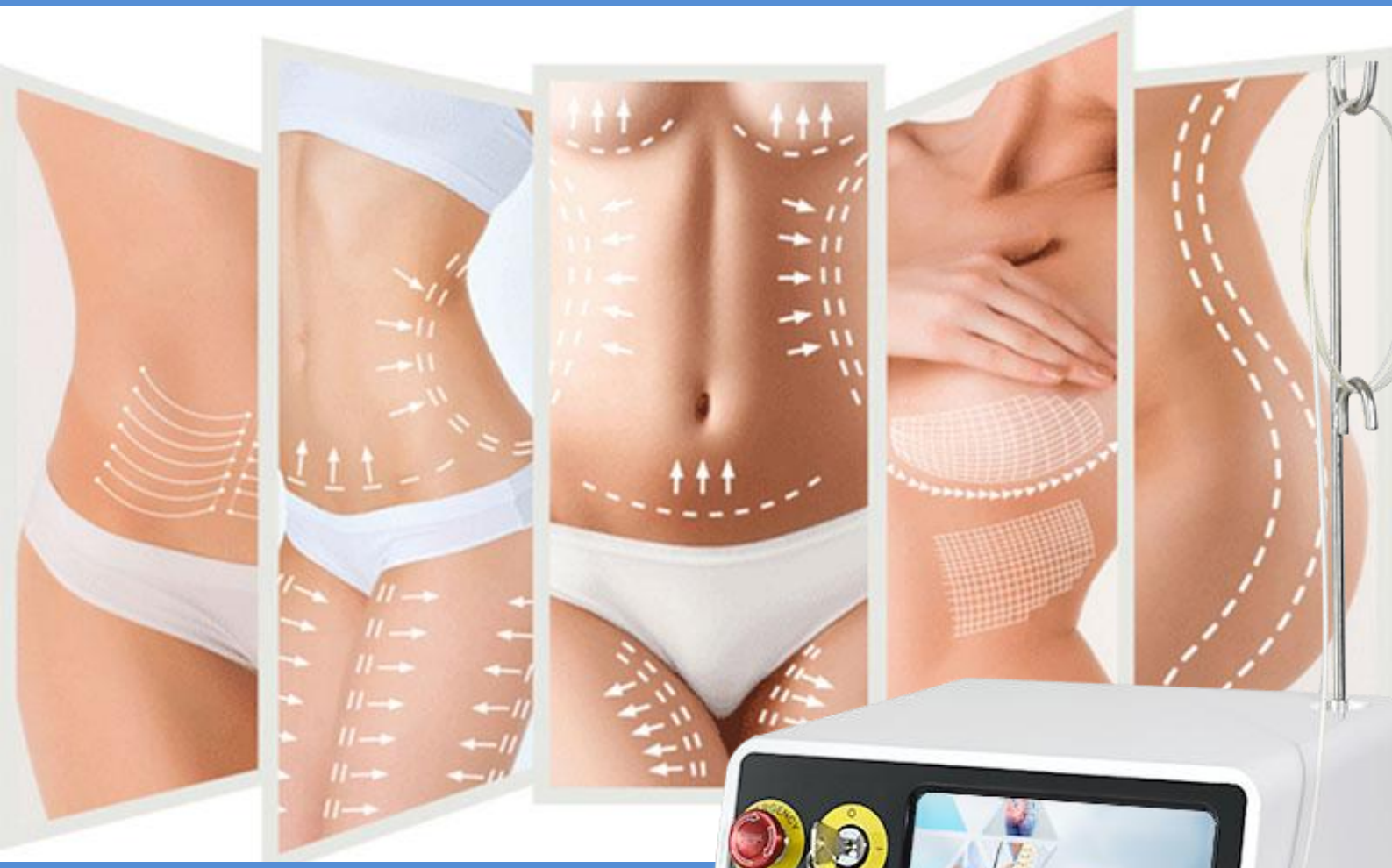
TRIANGEL

# Laser Lipolysis with 980nm 1470nm

Minimally invasive laser therapy for the reduction of adipose cells and body contouring




◇ Precise fiber guidance

◇ Excellent hemostasis

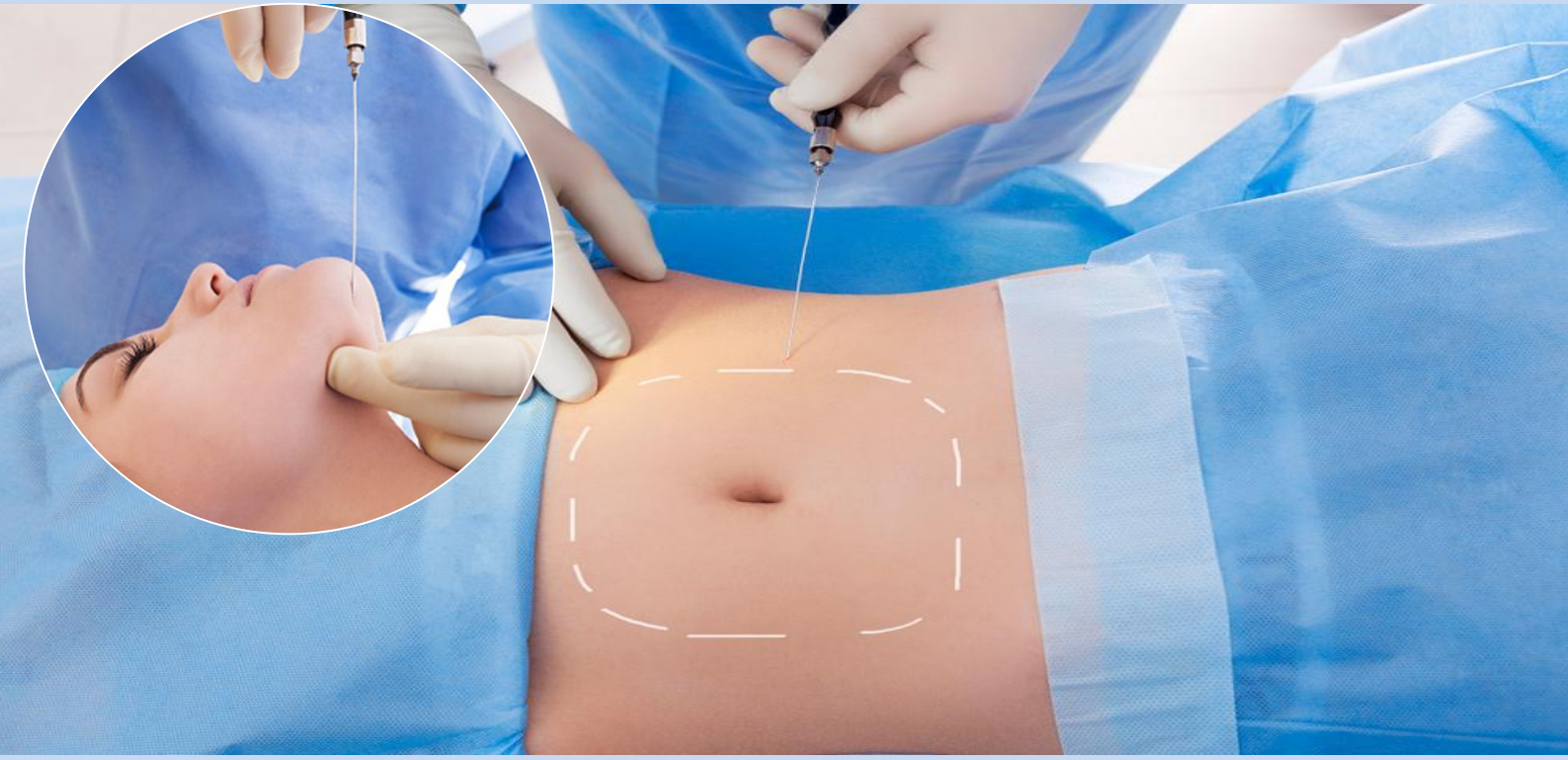
◇ Cutting, coagulating, vaporizing

◇ Very versatile

◇ Noticeable fat reduction and tissue firming

## Laser lipolysis -"Fat reduction"

With the Dual waves 980nm 1470nm diode laser system, Company Triangelaser presents its latest innovation in the field of laser technology for minimally invasive contour shaping: a laser procedure performed in an outpatient clinic under local anesthesia in which, via tiny incisions in the skin, fatty tissue is targeted and gently liquefied and the overlying skin is tightened.



## The benefits compared to conventional liposuction are:

Improved skin tightening due to the laser stimulating the collagen under the skin.
Can also be performed in very small areas where the standard techniques are associated with esthetic risks.

Low blood loss due to the simultaneous laser coagulation of the small blood vessels, under the skin.

Quicker healing and less downtime.

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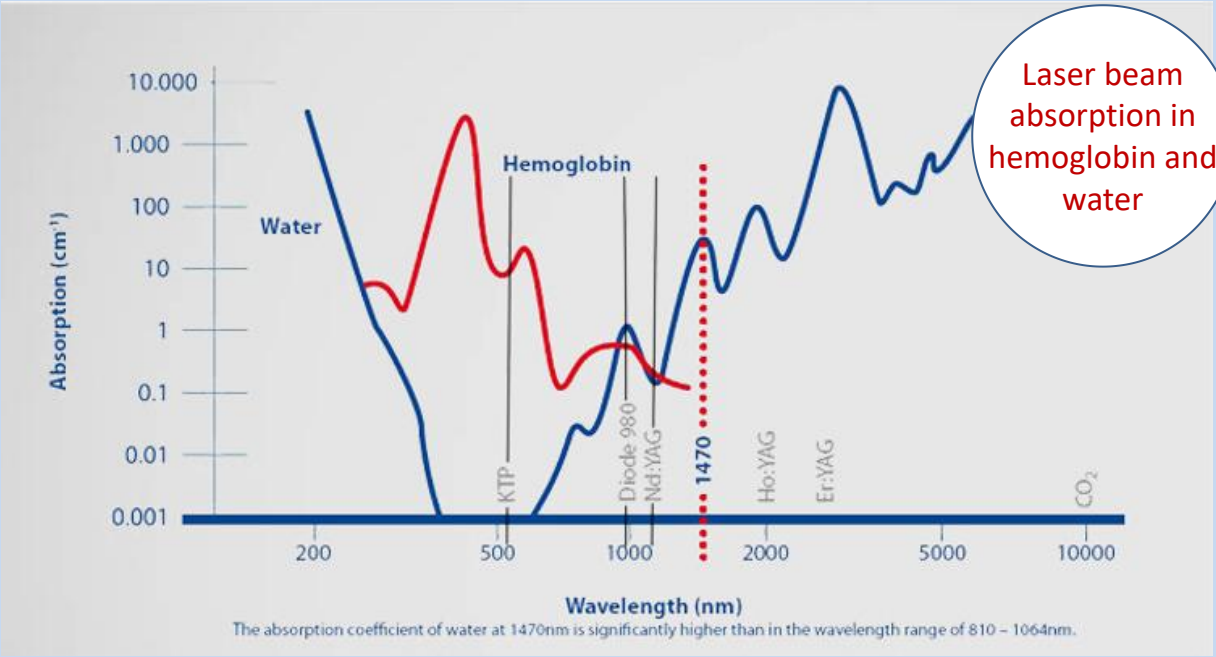
## Mode of action 980nm +1470nm

With laser lipolysis carried out with the TRIANGELASER Dual waves 980nm +1470nm, fat cells are liquefied using a very precise laser beam. The energy of the diode laser is converted into heat and this gently dissolves the fat tissue. The capillaries supplying blood and the surrounding connective tissue are also heated during the process. This heating results in immediate hemostasis and, via the regeneration of collagen fibers, leads to a visible tightening of the subcutaneous connective tissue and skin.




## The described effect on the tissue is achieved by means of an indication-specific combination of wavelengths – for instance:

-The 1470 nm wavelength specifically targets water in soft tissue and features a higher absorption rate in water and fat than all other competing devices. This allows for optimal fat removal with minimal tissue damage. Laser energy is delivered at a low power density for maximum safety, minimizing the risk of burns.

-In addition to achieving effective lipolysis, the thermal energy generated by the 1470 nm diode laser contracts existing collagen and elastin fibers and stimulates the formation of new collagen for firmer, tighter-looking skin.

-Coagulation of the blood vessels, on the other hand, is achieved by using a complementary wavelength of 980 nm.

## Outpatient treatment

Laser lipolysis with the TRIANGELASER Dual 980nm 1470nm can be performed in an outpatient clinic.The procedure involves a tumescent local anesthetic (TLA) being injected in advance at the operating field. Only tiny incisions in the skin are required for the intervention itself to enable the optical fibers to enter the tissue to be treated. The fat cells are targeted and liquefied there by a controlled and precise emission of laser energy.The position of the optical fibers is controlled at all times by the pilot beam shining through the skin.

The liquefied fat is

– depending on the size of the area to be treated

– disintegrated naturally or extracted manually by means of suction.

After treatment,the incisions in the skin are not sutured but are simply covered with a thin strip of adhesive bandage.

## Outstanding treatment results

The thermal effect of the laser causes the skin to gradually adapt smoothly to its new substructure. As an adult's fat cells at the treatment site do not reform, the results are permanent – in terms of both the reduction of the fat tissue and the optimization of body shape.

## Low risk and only minor side effects

As a general anesthetic is not needed, the procedure is even safer. The obliteration of the small blood vessels caused by the laser promotes post-operative healing. This means that pain, bruising and swelling are all much less in evidence compared with conventional liposuction. They will normally have completely faded within the first week.

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# TRIANGEL lasers in esthetic surgery

## Expansion of the treatment spectrum

Whether in the operating room of a large hospital, in an outpatient surgery center or in private practice, the use of the 980nm 1470nm significantly expands treatment options for the doctor.

For instance, laser contour shaping with dual waves 980nm 1470nm is especially suitable for smaller and more sensitive areas of fat that standard liposuction has hitherto been only able to treat to a limited degree. These include treatment for cheek fat, double chins, the upper abdomen, upper arms and the knee area.

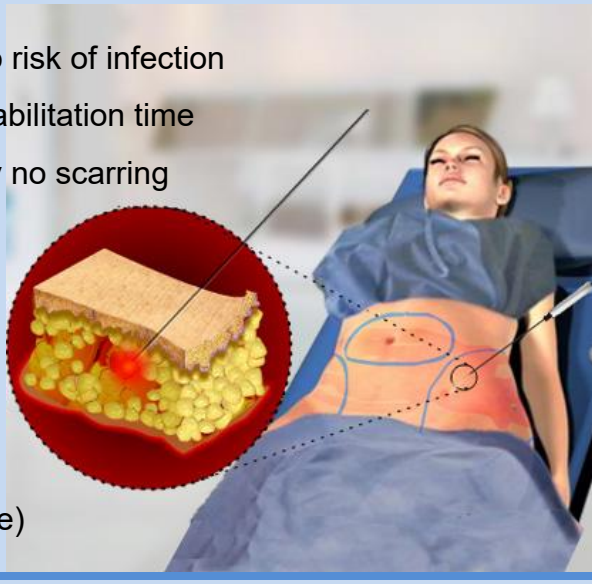
It is also ideally suited for treating benign adipose tumors, also called lipomas, and skin dimples, also called cellulite.

## Applications for fat reduction and tissue firming

__ Upper eyelid (“blepharochalasis”)
__ Lower eyelid (“lacrimal sacs”)
__ Cheeks (“chubby cheeks”)
__ Chin (“double chin”)
__ Neck (“turkey neck”)
__ Upper arm (“arm flab”, “batwings”)
__ Breast (“breast lift”)
__ Abdomen (“belly fat”)
__ Back (“flank fat”)
__ Hip (“love handles”)
__ Bottom (“cellulite”)
__ Thigh (inside and outside, “saddlebags”)
__ Lipoedema
__ Knee (“sagging knee fat“)

## Benefits

◇ Less post-operative swelling of the tissue
◇Clear view of the operation site
◇Minimal side effects from the operation
◇Long-lasting tissue firming
◇Very little bleeding during the operation
◇Outpatient treatment with local anesthetic possible
◇Optimum protection of the surrounding tissue
◇Few complications and only minor side effects
◇No post-operative bleeding or edema formation (as a rule)
◇Almost no risk of infection
◇Short rehabilitation time
◇Practically no scarring



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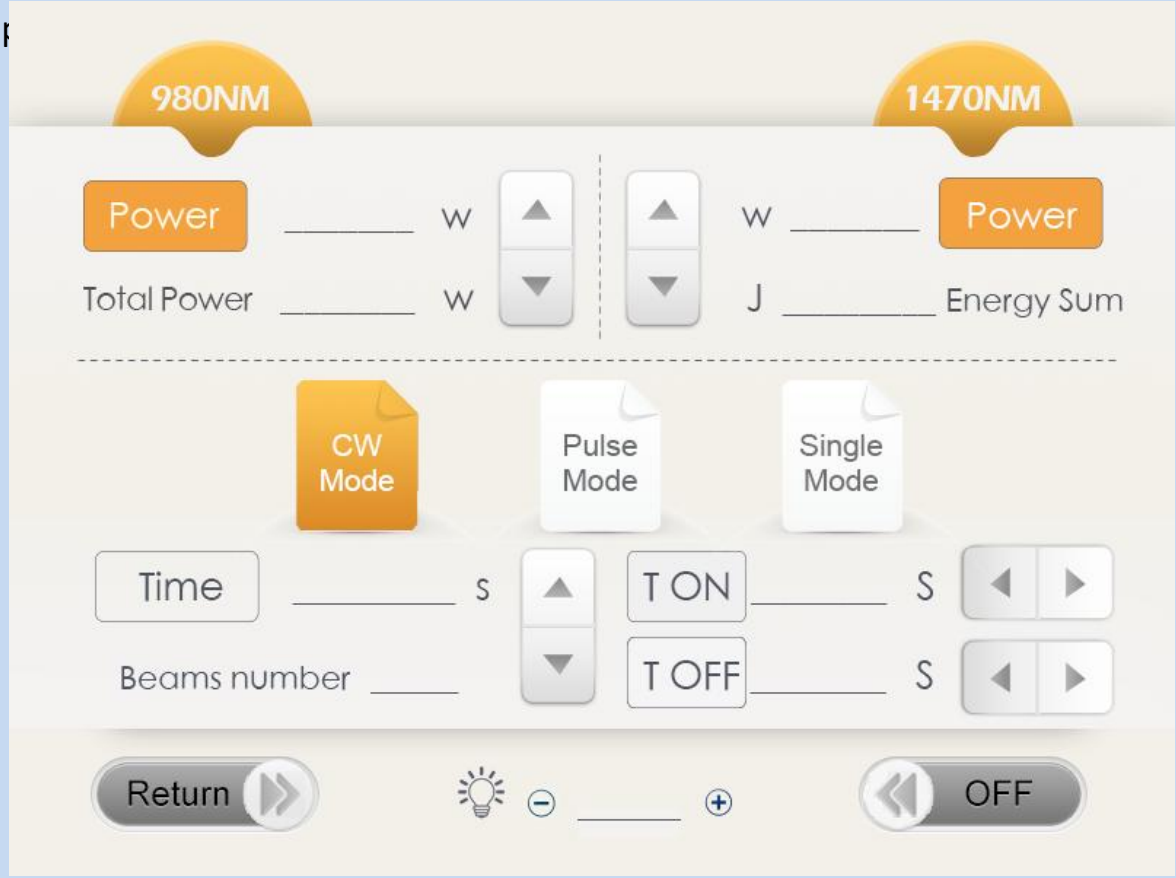
# TRIANGELASER diode laser system is characterized by its compact and user-friendly design.

## 2D Power Control system

The intuitive 2D Power Control system enables the user to combine different wavelengths（single 980nm ,single 1470nm ,dual waves 980nm+1470nm) and




## New fiber and cannulas

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## Technical parameter

| Laser type | Diode Laser Gallium-Aluminum-Arsenide GaAlAs |
|---|---|
| Wavelength | 980nm+1470nm |
| Power | **1-30W for 980nm,17w for 1470nm** |
| Working Modes | CW, Pulse and Single |
| Aiming Beam | Adjustable Red indicator light 650nm |
| Fiber diameter | 600 um fiber |
| Fiber connector | SMA905 international standard |
| Pulse | 0.00s-10.0s |
| Delay | 0.00s-10.0s |
| Voltage | 100-240V, 50/60HZ |

## Accessories