



DioLixX

Superior Medical Diode Laser Systems



Epilation

***Treatment of Cutaneous
and Vascular Lesions***

General Surgery

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most powerful diode laser



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DioLix-Epi

For permanent hair reduction

For effective and long term epilation the *DioLix-Epi* laser emits 90 Watt of laser power at 808 nm. Laser radiation at these parameters is effectively absorbed by melanin and shines through the underlying tissue. There is close to no absorption in the epidermis and dermis.

Laser Hair Removal

The *DioLix-Epi* laser radiation is effectively absorbed by the Melanin chromophore which is part of any hair shaft, hair bulb and the hair itself.

The intense laser pulse energy is instantly converted into localized heat resulting in irreversible thermal damage to the hair structure.

Clinical evaluation has shown that the regrowth of the irradiated hair is significantly and permanently reduced after only one to three treatments. Additionally the regrown hairs were softer and lighter compare to before the laser treatment.

Pulse Duration

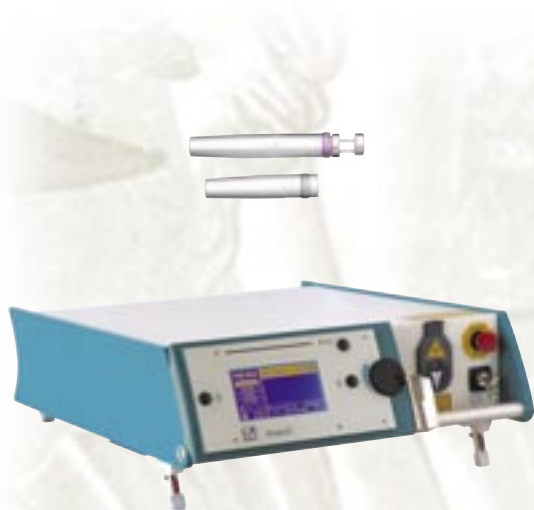
The wide tuning range for the laser pulse duration allows the user to adjust the laser to the individual patient allowing for the treatment of different hair and skin types.

Clinical studies support the use of long laser pulses (larger than 100 ms) applied by a cold tip laser applicator like LISA's *BeautyCool*. The cool touch provides protection to the epidermis and reduces any possible pain sensation. In addition long laser pulses reduce the thermal load to the skin and allows for more effective cooling. The *DioLix-Epi* diode laser offers long laser pulses and is best suited for the treatment of patients with any skin type.

High Fluence

The high output power of the *DioLix-Epi* laser provides effective treatment even at large laser spot diameters.

The cold tip *BeautyCool* applicator allows selecting the laser fluence in a range of 1 to 550 J/cm². Even higher values are available from the MultiFoc handpiece. The laser display automatically shows the delivered laser fluence to the skin according to the selected laser parameters and applicator configuration.



DioLix-Vas

For the treatment of benign vascular and cutaneous lesions

For the treatment of multiple types of vascular and cutaneous lesions the *DioLix-Vas* laser is tuned to 940 nm emission wavelength. This wavelength is absorbed by haemoglobin and thus causes effective photosclerosis of vessel under treatment.

Benign Vascular Lesions

Benign Vascular Lesions

The high power *DioLix-Vas* laser system treats successfully benign vascular lesions like facial and leg telangiectases, haemangiomas, port wine stains, post-sclerotherapy matting and angio fibromas.

For uniform coagulation of larger blood vessels the *DioLix-Vas* laser delivers 90 Watts of peak power. In comparison to other lasers which emit visible laser radiation like green or yellow the *DioLix-Vas* laser coagulates deeper through the entire volume of the vessel. No vascular perforation occurs and no purpura can be observed.

For the treatment of different vessel diameters the *MultiFoc* focussing handpieces are available with different spot sizes in the range from 0.6 through 1.5 mm. Thanks to the plug-on design the focussing optics can be exchanged for a different spot size within seconds.

Endovascular treatment

Endovascular Treatment

The *DioLix-Vas* laser is used for the minimally invasive endovascular treatment of varicose veins. The treated vessel shrinks from the inside due to the generated laser heat.

Benign Cutaneous Lesions

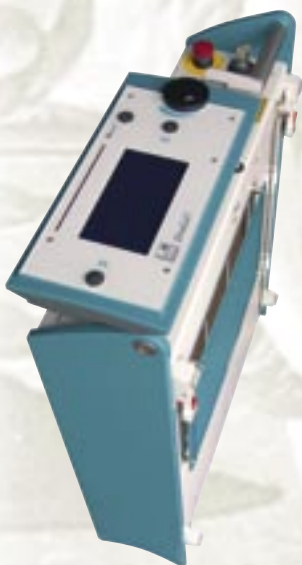
Benign Cutaneous Lesions

The *DioLix-Vas* laser is well suited for the treatment of diverse benign skin anomalies like different types of warts, condylomatas, xantelasmas and atheromas. The *DioLix-Vas* laser treatment is bloodless and less painful compared to conventional procedures.

Pulse Duration

Pulse Duration

The laser pulse duration can be varied from 10 to 200 ms. Shortening the laser pulse makes the laser treatment almost imperceptible. The selectable pulse duration range allows the user to adopt the laser settings according to the individual requirements of the patient under treatment.



DioLix-Srg

For surgical applications

The *DioLix-Srg* is the universal laser for smaller surgical office applications. The diode laser may be operated as well in pulsed as in continuous emission - thus offering excellent thermal control to the surgical situs. The *DioLix-Srg* laser is available in different power configuration and matches with any office requirement.

Tissue Effect

Laser surgery with the *DioLix-Srg* laser is performed in contact and non-contact mode. In contact mode the *DioLix-Srg* laser enables precise haemostatic incision. Vaporization of tissue is performed in non-contact mode with bare and gas-cooled fibres.

The *DioLix-Srg* laser is accepted as a superior replacement for out-dated Nd:YAG lasers.



Urology

In urology the *DioLix-Srg* laser is used for soft tissue surgery like coagulation of bladder tumours, haemostasis, BPH treatment like LITT and ablation of condylomata.

ENT

In ENT the *DioLix-Srg* laser is ideal for tonsillectomy, turbinectomy, treatment of polyps and treatment of snoring.

General Surgery

The *DioLix-Srg* also targets at applications in gastroenterology, laparoscopy and endoscopy. Surgeon and patient benefit from the lasers potential in coagulation and vaporization of tissue.

Proportional Foot Pedal

The *DioLix-Srg* laser uniquely offers proportional foot pedal control on the output power. This feature allows the surgeon to adjust the amount of laser power instantaneously in response to his visual impression without the aid of a helper.



