

Technical Specifications

Laser type	Ruby
Wavelength	694 nm
Operating mode	Q-switched
Energy density	2-14 J/cm ²
Pulse width	20 nsec
Beam diameter	3/4/5/6 mm
Repetition rate	0.5-2 Hz
Power requirements	230 V +- 10%, 16 A, 50/60 Hz
Dimensions	(LxWxH) 84x35x102 cm
Weight	73 kg
Compliance	EC Medical Device Directive (MDD) 93/42/EEC (CE mark), FDA/US 510k*

*Intended uses may differ from this flyer



SINON

Q-SWITCHED RUBY LASER SYSTEM

The safest and most precise laser treatment solution available for pigmented lesions and multi-color tattoo removal

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Introduction

The SINON Q-switched Ruby laser (QSRL), with an optimal 694nm wavelength and an extraordinarily short pulse width of only 20nsec, is the safest and most precise laser treatment solution available for pigmented lesions and multi-color tattoo removal.

A high pulse repetition rate and easy spot size changes allow for faster treatments and greater penetration depth, while low fluence values ensure minimal side effects while achieving excellent clinical outcomes.

The Q-Switched Ruby Laser Advantage

Q-Switched Laser >>

The Q-Switched (QSW) laser is the most effective way to remove natural or artificial (tattoo) pigmentation, while minimizing the risk of damage to surrounding tissue. SINON uses an active Q-switched laser to deliver photo acoustic shockwaves to the target area through high laser intensities in short nanosecond pulses. The mechanical Q-switched effect works by vibrating and breaking up the pigment in the lesion or the ink particles in the tattoo. As the area heals, the body's immune system flushes away the shattered pigment, revealing lighter, clear skin with minimal risk of scarring or hypopigmentation.

Ruby Wavelength >>

The Ruby laser has a proven track record as the most effective of all Q-switched lasers for pigmented lesions as well as yielding excellent results for multi-colored tattoo removal. With a 694nm wavelength, the Ruby laser is selectively absorbed by the melanin or tattoo pigment in the skin, with very low absorption by hemoglobin and minimal risk of bleeding. The high absorption by the melanin chromophore allows for effective treatment of both superficial and deep pigmentation using low fluence values, which significantly reduces the risk of side effects.

Ultra-short Pulses >>

The SINON system features ultra-short pulses of only 20nsec. This is the shortest pulse duration of all Ruby lasers available in the market. The short pulse produces very high peak power for optimal clinical efficiency with minimal patient pain. With highly efficient treatment, it is possible to maintain low fluence values and still achieve excellent results. Low fluence also allows for the application of large spot sizes for faster treatment as well as for targeting deep lying pigmentation.

Treatment Safety

In addition to the QSW Ruby laser's long track record of proven efficacy and safety, the SINON system has been designed with state-of-the-art innovations that maximize the safety of the treatment.

- SINON uses a divergent beam with the focus point located within the handpiece rather than on the skin. This removes the risk of creating hot spots during treatment.
- SINON offers a 3mm soft spot size tip allowing for safe and effective treatment of darker skin types.
- Small Q-Switched fluences of 2 J/cm² and single pulses allow for detailed work as well as safe treatment of sensitive skin.
- The SINON handpiece is compact, providing an unobstructed view of the area to be treated for maximum visibility.
- An oval spot shape reduces treatment overlap, minimizing the risk of side effects.
- A cold air cooling device further reduces pain and maximizes patient comfort.

Indications

Benign Pigmented Lesions

Using a nanosecond laser pulse- the gold standard for treating pigmented lesions, SINON is the optimal choice for treating naturally-occurring hyperpigmentation including:

- *Solar lentigos*
- *Café-au-lait spots*
- *Lesions affecting the oral mucosa and the lips*
- *Deeper lesions such as Nevus of Ota and Ito*

Multi-colored Tattoos

The QSW Ruby laser delivers the high energy required to effectively remove tattoos of all types and depths, and is particularly effective for treating resistant tattoo ink colors such as lime-green, sky-blue and teal. With precise ink targeting and high peak power, SINON removes tattoo pigments in fewer treatments, yielding greater patient satisfaction.

Testimonials

Physician reviews of the SINON Q-Switched Ruby Laser System:

“The removal of tattoos with the SINON Q-switched ruby laser system yields excellent results for almost all colors. With high energy output and the optimal adjustment of spot size and impulse, often only a few treatments are needed. The removal of natural pigment spots is achieved even faster.”

*Prof. Dr. Uwe Paasch,
University Clinic of Leipzig, Germany*

“The SINON Q-switched laser is the most advanced Ruby Laser I have ever used. The machine is very reliable. In a comparative study with the Q-switched Alexandrite laser, pigmented lesions responded better to treatment with faster and more complete clearing using the SINON.”

*Mitchel Goldman, M.D., Goldman,
Butterwick & Associates, Cosmetic Laser Dermatology,
San Diego, USA*



Courtesy of: Moshe Lapidoth M.D,
MPH Dermatologist, Israel



Courtesy of: Moshe Lapidoth M.D,
MPH Dermatologist, Israel



Courtesy of:
Eric Bernstein, MD, Ardmore / PA, USA



Courtesy of:
Dr. Rao, University of Alberta, Canada