

UltraLight Q

Tattoo & Pigmented Lesion
Removal Laser System

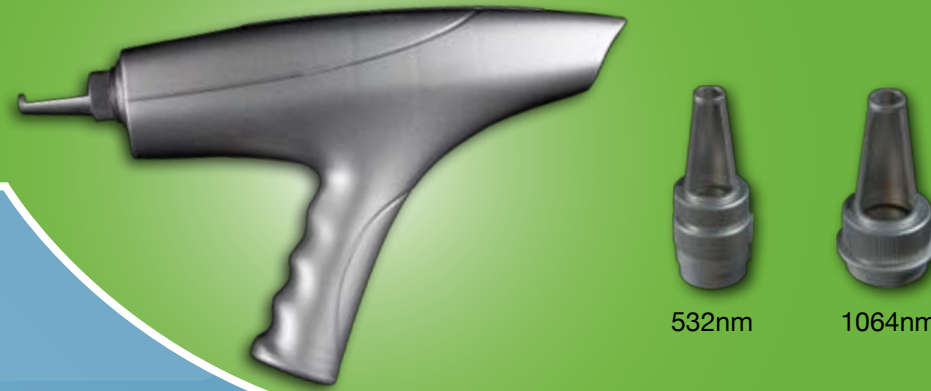
THE POWER OF LIGHT

DUAL WAVELENGTH Q-SWITCHED Nd:YAG




sandstone
Medical Technologies

*A New Generation of the UltraLight-Q
Dual Wavelength Q-Switched Nd:YAG Laser System*



Two Pure Light Wavelengths

The UltraLight-Q features two specific wavelengths (1064nm and 532nm). Unlike other Q-Switch lasers, the UltraLight-Q encompasses the Nd:YAG energy inside the handpiece. The raw YAG power travels from the laser cavity directly to the treatment area. To convert the 1064nm wavelength to a 532nm wavelength, a KTP tip can be attached to the handpiece. The double convex concave KTP lens absorbs little energy; therefore, the UltraLight-Q will emit up to 1000 mJ of energy for both wavelengths. This provides physicians and their patients outstanding treatment results.

Smart Engineering by Sandstone Medical Technologies

Sandstone Medical Technologies has created a paradigm shift in Q-Switch laser technology by evolving the core physics design of the UltraLight-Q. Engineered with the physician in mind, the UltraLight-Q is an affordable Q-Switch laser with perfectly balanced parameter options and a simple but technologically advanced laser beam delivery method.

Unique Technology

The UltraLight-Q is ergonomically designed to eliminate untimely maintenance costs associated with older Q-Switched YAG lasers that still use an articulated arm delivery system. The entire laser cavity of the UltraLight-Q is housed inside the handpiece. The design of the UltraLight-Q creates a more reliable and more stable “workhorse” Q-Switch laser that will benefit both the treating technician and the patients.

Ease of Use

The lightweight compact dimensions of the UltraLight-Q are an advantage when utilizing the laser in small rooms with stationary treatment tables. The technician can freely position the handpiece anywhere on the skin without having to move the laser and wrestle with an articulated arm.



Specific Technical Advantages of the UltraLight-Q

- High Peak Power & Short Pulse Width**

The UltraLight-Q maintains a consistent high peak power and 10ns pulse width that causes a more selective PhotoMechanical injury to the chromophore without damaging the surrounding healthy cellular structures.
- “Top Hat” Uniformed Beam Profile**

The “Top Hat” output pulse delivers even, predictable energy that targets pigments in the sub-dermal tissue with minimal risk of Post Inflammatory Hypopigmentation (PIH), scarring or other side effects.
- Adjustable Fluence**

Fluence settings are customizable for each patient’s treatment needs. Physicians can easily select sufficient energy levels to ensure that the target chromophore safely reaches a PhotoMechanical disrupting point.
- Multiple Spot Sizes**

The UltraLight-Q provides appropriate spot size choices for the treatment area. Multiple spot sizes include: 1.5, 2, 2.5 & 5 mm.
- Variable Pulse Rate**

The UltraLight-Q features an adjustable pulse rate from 1–5 Hertz. The treatment speed choices of the UltraLight-Q ensures the treating technician and patient an accurate and effective treatment session.



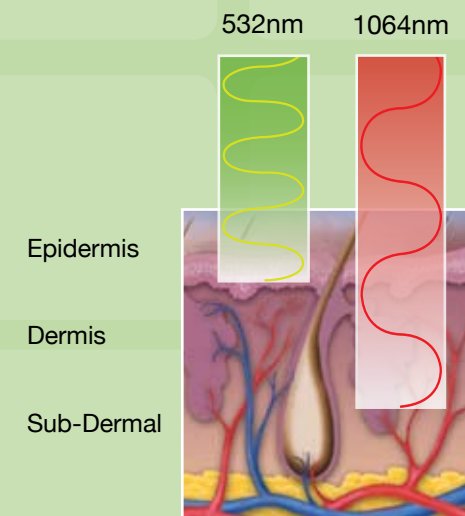
Distinctive Wavelength Features

532nm

- Laser emits a visible, bright green light
- Due to the shorter ‘KTP’ wavelength properties, the 532nm wavelength penetrates the superficial papillary dermis for the removal of epidermal pigmented lesions such as: freckles, solar lentigines, seborrheic keratosis and café-au-lait
- Targets hemoglobin & red pigments for the removal of superficial vascular lesions and telangectasia
- Effectively clears vibrant tattoo ink colors such as red, pink and orange

1064nm

- Energy in the near infrared range
- Penetrates deep into the skin (5–7 mm)
- Highly absorbed by black and dark blue ink colors
- Safely treats dermal pigmented lesions, including Nevus of Ota, ABNOM (*Acquired Bilateral Nevus of Ota-Like Macules*), Hori’s Nevi, etc.



A Safe & Effective PhotoAcoustic Treatment for Tattoos and Pigmented Lesions

When treating benign pigmented lesions and tattoo ink, the safety profile of the UltraLight-Q’s nanosecond pulse width makes it possible to attain reliable and predicable clinical results with minimal risk of adverse reactions and textural changes to the skin. The PhotoAcoustic power of the UltraLight-Q selectively shatters and destroys the target chromophore while preserving the surrounding healthy cellular structures. The macrophages of the skin’s immune system will then start cleansing the fragments from the body. Impressive clinical results with the UltraLight-Q are easily obtained and repeatable; therefore, providing your practice with a dependable reputation of service to your patients.





Return on Investment

The UltraLight-Q is a cost effective, smart investment that provides aesthetic laser facilities a cash based procedure that will fulfill a specific niche for their practice. With the UltraLight-Q your patient base will increase and a high yield return on investment will be quickly realized!

System Specifications

Laser Medium	Nd:YAG
Wavelengths	1064nm / 532nm
Operating Mode	Q-Switched
Beam Profile	Top Hat Mode
Energy	1 Joule / 1000 mJ
Maximum Fluence	18 J/cm ²
Spot Size	1.5, 2, 2.5, 5 mm
Pulse Width	10 Nanoseconds
Treatment Repetition Rate	1 - 5 Hertz
Beam Delivery System	Direct
Operating Controls	Push Button with Touch Screen Display, Footswitch
Cooling	Self Contained Closed Loop
Input Power	AC 100-110V/20A, Single Phase 50/60 HZ



Physician Testimonial

“I have been using the UltraLight-Q for the removal of tattoos over one year. After three treatments I have seen at least a 50% improvement.”

> Richard Fitzpatrick, M.D.
Dermatology Associates
Encinitas, CA



About Sandstone Medical Technologies

Sandstone Medical Technologies, LLC was founded in 2000 with the goal of providing physicians and qualified practitioners state of the art, easy to use, aesthetic lasers and light based technology at an affordable price. Applications of our products include: fractional skin resurfacing, permanent hair reduction, treatment of vascular and pigmented lesions, active acne and tattoo removal.

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