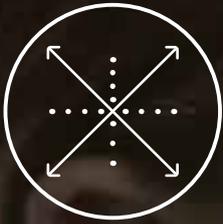


Alma

For You. For Life.



ALMA-Q



**MAXIMUM POWER
DUAL Q-SWITCH
ND:YAG AND
QUASI LONG PULSE
LASER SYSTEM**

2 PULSE DURATIONS ⊗ 4 DISTINCTIVE WAVELENGTHS ⊗ MULTIPLE INDICATIONS



INTRODUCTION

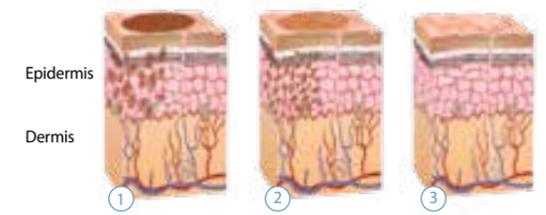
ALMA-Q presents the most powerful double mode Nd:YAG laser treatment solution available, featuring Q-switched, and Quasi-Long Pulsed modes on a single, dedicated platform.

With Double Pulse technology offering up to 2,000mj per pulse; an extraordinarily short pulse width of 7nsec; unique technological innovations including **depth control** and **fractional delivery** and additional options of working with the Quasi-Long Pulsed Nd:YAG 1064nm laser, ALMA-Q is unmatched in its **power and versatility** for treating a wide range of aesthetic dermal indications.

THE Q-SWITCHED LASER ADVANTAGE

The Q-Switched Laser

The high powered Q-switched laser is the most effective method for removing natural or artificial pigmentation, while minimizing the risk of damage to surrounding tissue. ALMA-Q's **fractional** capabilities further extend the potency of the Q-switched laser, opening the door to additional treatment possibilities, including challenging skin imperfections associated with aging.

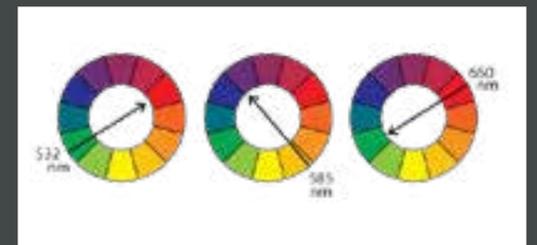


1. Pigment in the skin
2. Due to photoacoustic effect pigment particles are selectively fragmented
3. Fragmented pigment particles are carried away by phagocytes

ALMA-Q's powerful Q-switch Nd-YAG laser delivers high energy and ultra short pulses of 7nsec. The laser energy is absorbed by chromophores in the skin, resulting in a photo acoustic effect which fragments the pigment, maintaining the surrounding tissue intact. This results in subsequent fading and clearing of the pigment due to the body's immune system response.

Four Distinct Wavelengths

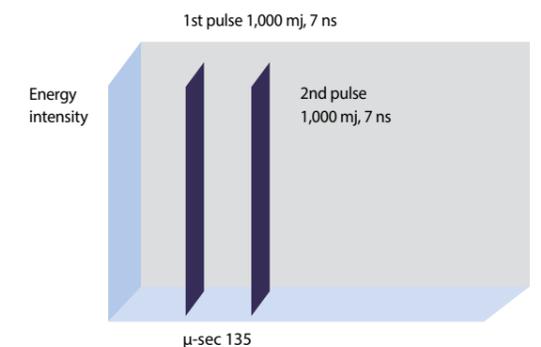
ALMA-Q offers four distinct wavelengths targeting the full spectrum of ink colors found in multi colored tattoos.



Single and Double Pulse Technologies

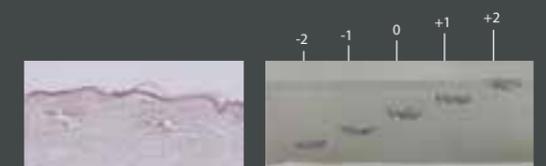
ALMA-Q offers energy delivery in both Single Pulse and Double Pulse modes. Double Pulse technology disperses the laser energy into two consecutive pulses, mitigating peak power while delivering maximum energy of up to 2J per pulse. Double pulse delivery provides dispersion of maximum energy output while maintaining patient safety, minimizes side effects and pain, and allows the use of larger spot sizes, ideal for skin rejuvenation.

Both Single and Double Pulse modes are available in all ALMA-Q QSW wavelengths including: 1064nm, 532nm, 585nm and 650nm.



Pixel Fractional Q-Switched Laser with Depth Control

ALMA-Q's Pixel applicator offers the first fractional Q-switched laser for skin rejuvenation that features unique depth control capabilities. Variable depth control allows practitioners to combine both deep and superficial treatment approaches depending on the area being treated, the skin type or the indication. Variable depths can also be used for combination work on the same area to achieve optimal results.

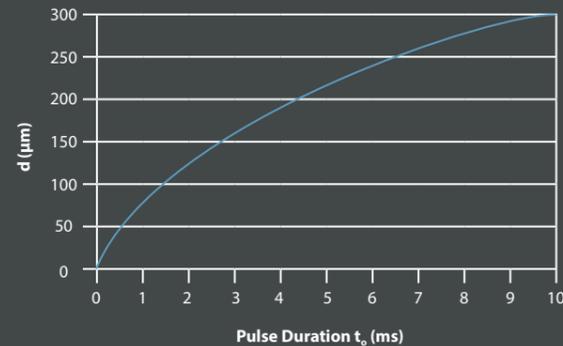


THE QLP ADVANTAGE

Quasi-Long Pulsed Nd:YAG Laser (QLP)

The Quasi-Long Pulsed Nd:YAG laser generates microsecond pulse widths at a high repetition rate of 5Hz to provide both skin rejuvenation and microvascular treatments.

The QLP laser achieves safe and effective sub-dermal heating, stimulating the growth of new collagen and tightening skin laxity. At the same time, its ultra-short pulse duration makes it ideal for treating microscopic blood vessels with diameters of less than 50 microns.



Listen to our experts:

I have been using all kinds of laser technologies in my private clinics for more than 20 years now. Having that said, I can safely say that ALMA-Q is one of the most efficient platforms I have worked with. The use of different pulse durations; nanoseconds, microseconds enabled me to use it for the same indication with different combinations. It is powerful for tattoo and pigment removal treatments, and I like the depth controlled-non-ablative fractional capabilities. In my opinion, every patient that walks into a dermatology clinic from early ages to later years is a candidate for a treatment with ALMA-Q."

*Dr. Şerafettin Saraçoğlu, MD, Dermatology Specialist,
Clinic Estesense Nisantasi, Istanbul
Elit Polyclinic, Bakirkoy, Istanbul*

APPLICATORS

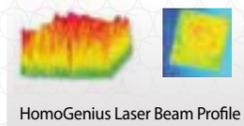
Focus

Offers 7 distinct spot sizes: from 1 to 7mm, to address various degrees and depths of pigmented lesions and varying types of tattoos. The Focus applicator may be used in either Q-Switched, or Quasi-Long Pulsed Nd:YAG laser modes.



HomoGenius

Treats pigmented lesions and tattoos using a flat-top homogenized laser beam profile with uniform energy intensity, preventing hot spots. A square beam with 3x3 mm² or 5x5 mm² spot sizes allow for coverage of treatment areas without overlap. The Homogenizer applicator may be used in Q-Switched laser mode and with 1064 or 532 wavelengths.



Pixel

(With depth control)

Employs a pixel delivery method which creates pixel-sized perforations in a 7x7 nonablative pattern, leaving the surrounding tissue intact. These micro-injury sites trigger a wound healing process that strengthens collagen and stimulates neo collagenesis, completely rejuvenating the target tissue. Five distinct treatment depths are available for maximum flexibility and precision.



Collimated

The collimated 8mm applicator delivers parallel beams of energy to the target tissue with minimal dispersion, regardless of distance from the skin. This allows practitioners to administer treatment without having to maintain continuous contact with the skin while also allowing better visualization of larger treatment areas. With an 8mm spot size, this applicator offers an excellent coverage rate and high speed treatment. The Collimated applicator may be used in either Q-Switched, or Quasi-Long Pulsed Nd:YAG laser modes.



INDICATIONS

Pigmented Lesions

ALMA-Q is highly effective for treating various degrees and depths of pigmented lesions as well as melasma. The high power Q-switched Nd:YAG 1064nm laser treats deep pigmented lesions, while the monochromatic 532nm wavelength addresses superficial pigmented lesions. The treatment mechanically breaks up the melanin in the lesions without causing thermal damage, revealing lighter, unblemished skin.



BEFORE AFTER

Courtesy of: Clinical Department, Alma Lasers Ltd.

Skin Rejuvenation

ALMA-Q features **the first fractional non-ablative Q-switched laser** that offers **depth control**, allowing practitioners to use the powerful benefits of a high intensity Q-switched laser for the treatment of age-related skin imperfections including wrinkles, fine lines, photodamage, uneven skin tone and skin laxity.



BEFORE AFTER

Courtesy of: Clinical Department, Alma Lasers Ltd.

These indications may also be addressed using the Quasi-Long Pulsed Nd:YAG 1064nm laser which achieves neo-collagenesis and skin rejuvenation through photothermal effect.

The QLP emits light through microsecond pulses at a high repetition rate to elevate dermal temperature. Their relatively long-pulse durations causes dermal coagulation and results in facial pore size reduction and new collagen synthesis.

Both treatments are safe and effective for even thin and delicate areas of the skin such as the face, neck and décolleté areas.

Small vascular lesions and pores

The Quasi-long pulsed 1064 nm laser treats small vessels and reduces facial pore size. The microsecond pulse duration causes a photothermal effect which induces dermal coagulation and new collagen formation in the papillary dermis.



BEFORE AFTER

Courtesy of: Dr. Lehaviv Akerman, MD

The microsecond pulse duration of the Quasi-Long Pulsed Nd:YAG 1064nm laser makes this mode ideally suited for treating microvasculature (<50µm in diameter), including angioectasias, telangiectasias and erythema in melasma lesions.

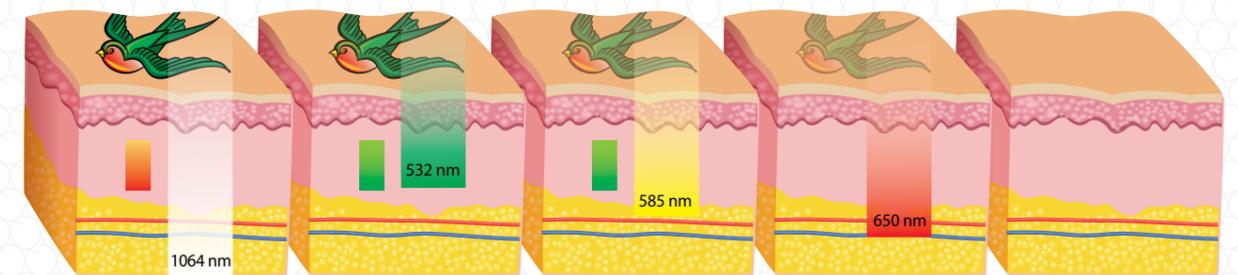
Tattoo Removal

Successful multi-color tattoo removal requires a high powered laser that can deliver enough energy within the absorption spectrum of a wide range of colors. Alma-Q offers four distinct Q-switched Nd:YAG laser wavelengths, each targeting a specific ink color for full-spectrum multi-color tattoo removal. The high power QSW 1064nm laser is ideal for treating darker ink colors, while the 532nm wavelength is effective for brighter ink colors, including red, orange and yellow. The 585nm wavelength specifically targets sky blue and the 650nm wavelength targets green and teal.



BEFORE AFTER 3RD TREATMENT

ALMA-Q mechanically breaks down the ink particles in the tattoo without causing thermal damage, revealing healthy, color-free skin with minimal risk of scarring or permanent hypopigmentation.



BENEFITS



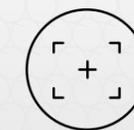
Combined Q-switched, and Quasi-LP Nd:YAG laser platform - offering maximum versatility



Multiple Wavelengths - for full spectrum multi-color tattoo removal



Double Pulse Technology - delivering maximum power



Unique Depth Control Capabilities - to target all levels of the skin tissue



Fractional Delivery - addressing a wide range of indications



Safe & Effective - for all skin types (I-VI) as well as for thin and delicate areas

ALMA-Q SPECIFICATIONS

Operation Mode	Wavelength	Applicator	Spot Size	Pulse Duration	Repetition Rate	Maximum Pulse Energy
QS 1064	1064nm	Focus	1-7mm	7nsec	Up to 10Hz	Single pulse: 1200mJ
		Collimated	8mm			Double pulse: 2000mJ
		Pixel	7x7 spots 11x11mm ²	7nsec	Up to 10Hz	Single pulse: 20mJ/pixel Double pulse: 32mJ/pixel
		HomoGenius	3x3mm ² or 5x5 mm ²	7nsec	Up to 10Hz	Single pulse 1050 mj Double pulse 1800mj
QS 532	532nm	Focus	1-7mm	7nsec	Up to 10Hz	Single pulse: 450mJ
		Collimated	8mm			Double pulse: 700mJ
		Homogenius	3x3mm ² or 5x5 mm ²			Single pulse: 400mJ Double pulse: 620mJ
QLP 1064	1064nm	Focus	1-7mm	400µsec	Up to 10Hz	4J
		Collimated	8mm			

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Brochure not for distribution
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