


# ALMA-Q

**Maximize your capabilities**  
with the optimal  
Q-Switch Laser



A photograph of the ALMA-Q laser machine. The machine is dark grey with a white articulated arm holding a laser handpiece. A control panel with a screen displaying 'ALMA-Q' and 'AESTHETIC APPLICATION' is visible. The background shows a modern interior with a shelf holding a vase of flowers and books.

**ALMA-Q presents a powerful double mode Nd:YAG laser treatment solution, featuring Q-Switch and Quasi-Long Pulse modes, on a single, dedicated platform.**

## The ALMA-Q Advantage

### The Q-Switch Laser

The high powered Q-Switch 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-Switch laser, opening the door to additional treatment possibilities, including challenging skin imperfections associated with aging.

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, while keeping the surrounding tissue intact. This results in subsequent fading and clearing of the pigment due to the body's immune system response.

### Single & 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. 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.

Single and Double Pulse modes are available in both Q-Switch wavelengths - 1046nm and 532nm.

# 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-Switch 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 1 Treatment

Courtesy of the Alma Clinical Department

## Skin Rejuvenation

ALMA-Q features **the first fractional non-ablative Q-Switch laser** that offers **depth control** for the treatment of age-related skin imperfections including wrinkles, photodamage, uneven skin tone and skin laxity.

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



Before After 3 Treatments

Courtesy of the Alma Clinical Department

## Small Vascular Lesions and Pores

The Quasi-Long Pulse 1064nm 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, making this mode ideally suited for the treatment of microvasculature (<50µm in diameter), including angioectasias, telangiectasias and erythema in melasma lesions.



Before After

Courtesy of Dr. Lehaviv Akerman, MD | Israel

Cherry Imaging

## Tattoo Removal

Successful tattoo removal requires a high-powered laser that can deliver enough energy within the absorption spectrum of a wide range of colors.

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.



Before After 7 Treatments

Courtesy of the Alma Clinical Department

# Applicators



## Focus

Offers seven 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-Switch or Quasi-Long Pulse Nd:YAG laser mode.



## Pixel (with depth control)

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



## Collimated

Delivers parallel beams of energy to the target tissue with minimal dispersion, regardless of distance from the skin. The 8mm collimated applicator 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-Switch or Quasi-Long Pulse Nd:YAG laser mode.



## Homogenius

Treats pigmented lesions and tattoos using a homogenized flat-top laser beam profile with uniform energy intensity, preventing hot spots. A square beam with 3x3 mm<sup>2</sup> or 5x5 mm<sup>2</sup> spot size allows for coverage of treatment areas without overlap. The Homogenius applicator may be used in Q-Switch laser mode and with 1064nm or 532nm wavelengths.



### Maximum Versatility

Offering combined Q-Switch, and Quasi-LP Nd:YAG laser, in one platform



### Maximum Power

Delivering Double Pulse technology



### Fractional Delivery

Addressing a wide range of indications



### Multiple Wavelengths

Enabling removal of tattoos and different kinds of pigmentations



### Unique Depth Control Capabilities

To target all levels of the skin tissue



### Safe & Effective

Suitable for all skin types (I-VI) as well as for thin and delicate areas





Change is a natural process, but it doesn't always go according to plan. That's where Alma's technology comes in, placing control back in our hands. As a leading company in the field of medical esthetics, we enable thousands of physicians to help millions of patients experience truly remarkable transformations. Alma enables you to provide the most effective, quick and safe treatment possible to each person that walks into your clinic. Clinical expertise, dedicated service and marketing support, as well as innovative technological developments: all these work together to create a comprehensive support system that benefits you. In a world that is constantly changing, one thing remains constant: patients need to know they are getting the best care possible – before, during and after their treatment. When our solution is in your hands - that promise becomes a reality.

## Alma Lasers GmbH

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