EXTREMELY POWERFUL AND COMPACT Q-SWITCH Nd:YAG LASER
**Studio**

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The Studio laser system consists of the laser source emitting at both Q-Switched 1064 nm and 532 nm. The optional free running functioning mode is also available, making this system one with great performance and flexibility. Q-Switched 1064 nm is very effective for the removal of the black and blue tattoo colors and both epidermal and dermal benign pigmented lesions removal. Q-Switched 532 nm is most effective for red, yellow and orange tattoo color removal and epidermal benign pigmented lesions removal.

**FLAT TOP OPTIBEAM TECHNOLOGY**

This feature enables safer and more effective treatments (no scars), as the energy is homogeneously delivered over the treated areas. The square spot allows minimal overlap of the pulses. The laser beam profile must be as much homogeneous as possible, otherwise longer healing time and side effects can occur. The extremely high peak power of the system is delivered on the skin without any «hot points» in the spot size.

The OPTIBEAM® handpiece assures a perfect flat top beam profile due to its advanced optical technology, able to distribute the laser power homogeneously all over the spot size. The OPTIBEAM® laser handpiece has a squared spot size that can dramatically help the operator during the procedures because of:

- Easier and more precise overlap of the pulses
- 20% reduced treatment downtime in tattoo removal
  (compared to traditional round spot shapes and Gaussian energy distribution)

**Q-SWITCHED MODE**

This modality delivers extremely short laser pulses, each one of just 6 ns, able to produce the very high optical peak power needed to enable an efficient photoacoustic effect and to cancel skin heating effect. As a result, the unwanted pigments are fragmented in small particles and subsequently removed by phagocytosis.

**FREE RUNNING MODE (OPTIONAL)**

Studio is able to treat the skin producing also a thermal interaction through the FR Mode. With this Mode, the Nd:YAG 1064 nm laser can deliver pulses with duration of 0.3 ms at very high repetition rates, to perform quick and effective treatments of all the skin types.
MILLIONS OF PEOPLE WITH TATTOOS

Stigmatisation by society for people with tattoos is a thing of the past: previously regarded as taboo symbols of «subcultures», tattoos have increased tremendously in popularity – a phenomenon that can be seen across the world. More than 45 million US Americans sport this permanent body art, and 40 % of 26 to 40 year-olds have at least one tattoo.

Since the end of the 1990s, business has been flourishing in Europe, too. In France alone, the number of tattooists has increased ten-fold within a decade. Twenty per cent of people between the ages of 25 and 34 have one. And in Germany according to estimates, approximately 10 % of the population has tattoos – that is more than eight million Germans. Currently, about 75 million people in Europe have a tattoo. And the trend is on up.

MARKET FOR PIGMENT REMOVAL

Having perfect skin is our idea of beauty, but it is rarely achievable in reality. The «flaws» can appear in various shapes, sizes and colours and are not always unwelcome. Freckles (ephelides), for example, emphasise a natural, youthful look and give the appearance of summer freshness, even on cold days. In western cultures particularly, freckles are considered a «fashion accessory», which can even be applied artificially with a stencil and rollerball pen.

Yet many people consider these small brown dots to be an aesthetic impairment, especially when they appear in large quantities on their face, arms and legs. Other pigmentation such as age spots (lentigines senilis) are also seen as cosmetically undesirable by those affected and, like wrinkles, they are considered to have an ageing effect. Whilst they are not a sign of age strictly speaking, but rather a sign of sun damage, they do usually occur later in life. And as a person gets older, the desire to look younger and more full of life increases and the demand for pigment spot removal is high.

As the name already suggests, age spots usually do not occur until one is older: from the age of 50, this condition affects 50 % of women and 20 % of men. From the age of 60, almost 90 % of light-skinned people develop these spots. This makes them the most commonly occurring pigmentation in central Europe. But these unsightly spots can also occur in younger people. This is more often the case in people with fair skin colour. Sunburn can also encourage the development of age spots. Therefore, these pigmentation are also known as «sun spots» (lentigines solaris) and occur in areas frequently exposed to the sun, i.e. the face, hands, chest and forearms.
LONG ARTICULATED MIRROR ARM

MODERN DESIGN

PLUG & PLAY HANDPIECES

COMPACT AND LIGHTWEIGHT

6ns PULSE DURATION

150 MW POWER

PULSE DURATION

POWER
Studio

Advantages

- High energy and frequency
- Automatic spot size detection
- Homogeneous laser beam profile
- Ergonomic and intuitive user interface
- Short warm-up time and low noise
- No pre-pulses

Studio uses an elegant design and the most advanced technologies in the field of Q-Switch Nd:YAG lasers.

The easy and intuitive user interface allows a fast and precise treatment for each patient.
High-Tech Handpieces

PRECISE TECHNOLOGY

The Studio uses a completely new handpiece design. The low weight and easy change offers the physician an easy tool for his daily work. The specially developed OPTIBEAM® technology produces a high-precision laser beam profile.
Asclepion Laser Technologies has been operating for more than 40 years as a leader on the international medical laser scene as manufacturer of advanced laser systems for dermatology, aesthetic medicine and surgery. Based in the Jena Optical Valley, famous throughout the world as the homeland of the German optics industry, the company invests continuously in research and development of new technologies. Today, customers in more than 70 countries trust in the Made in Germany technology of Asclepion and its proven scientific expertise.

Studio, the latest Q-Switched generation of Asclepion’s tattoo and pigment removal technology, boasts an unmatched success all around the world, proof of its effectiveness, safety and high quality.

High quality means for us also a customer oriented philosophy. That’s why we work hard every day in order to provide you not only the best technology but also a full range of services, to support you at 360°.

Both regional and international trainings are permanently organized in our training center in Jena. That’s how we provide our customers all the knowledge that they need for safely and effectively using our laser devices.

Find out more at: www.asclepion.com/academy

A wide range of marketing tools is available on the Asclepion’s WEBCLUB, an online platform designed for giving you a real time access to all the latest news and important documents for the success of your practice.

Find out more at: www.asclepion.com/webclub

Our highly specialized technical assistance, provided both directly and through a network of local distributors, follows the customer from the installation, to the assistance in case of defect, to the delivery of spare parts.

Find out more at: www.asclepion.com/service
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Laser</th>
<th>Nd:YAG</th>
<th>FR Modus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength [nm]</td>
<td>1064</td>
<td>532</td>
</tr>
<tr>
<td>Energy [J]</td>
<td>0.9</td>
<td>0.45</td>
</tr>
<tr>
<td>Pulse duration Q-Switch Mode [ns]</td>
<td>6</td>
<td>——</td>
</tr>
<tr>
<td>Pulse duration FR Mode [μs]</td>
<td>——</td>
<td>100 - 300</td>
</tr>
<tr>
<td>Frequency [Hz]</td>
<td>max. 10</td>
<td></td>
</tr>
<tr>
<td>Spot size [mm²]</td>
<td>2 x 2; 3 x 3; 4 x 4; 5 x 5*</td>
<td></td>
</tr>
<tr>
<td>Fluence Q-Switch Mode [J/cm²]</td>
<td>max. 22.5</td>
<td>max. 11.25</td>
</tr>
<tr>
<td>Fluence FR Mode [J/cm²]</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>Dimensions; Weight</td>
<td>25 (W) x 79.5 (D) x 80 (H) cm³; 60 kg</td>
<td></td>
</tr>
</tbody>
</table>

All specifications are subject to change without notice

* 3 spot sizes included in the standard delivery