AESTHETICS AND DERMATOLOGY
Laser Systems Range
A GLOBAL LEADER FOR OVER 40 YEARS
Since 1964, the beginnings of laser technology, Fotona has set industry standards of excellence in laser systems for medicine, communications, industry and defense. Our laser systems are the result of over 40 years of experience and expertise in producing high-technology products for these respective fields. Consequently, Fotona is a globally recognized leader and pioneer in the innovation, development and manufacture of laser systems.

A GLOBAL NETWORK OF LASER EXPERTS
Our global network of Fotona representatives and partners brings together the most capable and experienced laser experts in the world. By developing and nurturing close relationships with our partners we ensure that our products and services fulfill the latest market needs. Through our global Fotona network we guarantee exceptional customer service, support and training.

CHOOSE FOTONA, CHOOSE PERFECTION
Choosing Fotona ensures innovative solutions, superior product capabilities, technical perfection and unrivalled clinical results. Achieving unmatched levels of precision, efficacy, efficiency and safety are key to our laser systems. When you choose Fotona, you choose the highest performance, best made laser systems in the world.

ALL IN-HOUSE TECHNOLOGY
To fulfill market needs and maintain a short time-to-market, Fotona continues to invest in outstanding manufacturing and R&D facilities. In-house manufacturing and stringent testing of all our systems’ components, in compliance with all applicable international standards, ensures that our laser systems are of the highest quality, reliability and durability.

The Highest Performance
Best Made Laser Systems in the World
LASER SYSTEMS FOR AESTHETICS AND DERMATOLOGY

- Ensure Greater Patient Comfort and Satisfaction
- Provide Quicker Procedures and Minimize Downtime
- Reduce Invasiveness and Minimize Risk
- Gain Higher Precision and Control in Your Treatments
- Provide Superior Clinical Results
- Expand Your Practice With New Procedures and Services

THREE MAJOR WAVELENGTHS: ALL MAJOR APPLICATIONS

At the heart of Fotona’s laser systems are three complimentary wavelengths in terms of their effect on human skin: KTP Nd:YAG, Nd:YAG and Er:YAG.

**KTP Nd:YAG** (green, 532 nm): High absorption in oxyhemoglobin and melanin for selective photothermolysis of superficial vascular lesions.

**Nd:YAG** (infrared, 1064 nm): Most homogeneous absorption for treating deeper-lying structures such as hair follicles and vascular lesions.

**Er:YAG** (infrared, 2940 nm): Highest absorption for precise, micron layer-by-layer skin ablation.

CONTENTS

1 Three Major Wavelengths
2 VSP & EFC Technology
3 Fotona Laser Systems Platforms
4 Permanent Hair Reduction
5 Photo Rejuvenation
6 Vascular & Pigmented Lesion Treatments
7 Acne Treatments
8 Tattoo & Pigment Lesion Removal Treatments
VSP – VARIABLE SQUARE PULSE TECHNOLOGY

With its proprietary Variable Square Pulse (VSP) technology, Fotona has driven the precision and safety of laser treatments to another level. Our unique VSP technology ensures precision, patient comfort, safety and ease-of-use in all your treatments.

![Graph showing VSP technology](image)

Fotona’s square-shaped laser pulses provide unrivalled safety by avoiding the slow rise of laser pulse power and the even longer fall in pulse power, which is common in less-advanced laser technology platforms. Slow rises and long falls in laser pulse power deliver unnecessary laser energy to the skin, which is converted to heat in an uncontrolled way, thus increasing the risk of unwanted side effects and reducing the efficacy of the treatment. Conversely, the various VSP technology modes enable you to easily and precisely treat different tissues with unmatched efficacy, without heating surrounding tissue.

Our VSP technology allows you to accommodate the laser pulse duration and energy to specific applications and your desired clinical outcome, all at the touch of a button. To ensure the comfort of your patient and minimize the risk of unwanted side-effects, you can apply a minimum of laser energy for the maximum clinical effect.

EFC – ENERGY FEEDBACK CONTROL TECHNOLOGY

During laser operation, Fotona’s built-in Energy Feedback Control (EFC) technology actively matches the energy level of each generated laser pulse to your selected energy settings. This avoids uncontrolled loss of energy inherent in less-advanced laser technology platforms, and ensures efficient and effective operation every time you use the system. Our EFC technology provides you levels of safety and confidence in your Fotona system’s abilities, unmatched by any other laser system available today. In addition, with EFC technology, Fotona laser systems do not require tedious and inconvenient manual calibration procedures each time you switch on your system. Every time you switch on your Fotona laser system, you are ready to get to work. Lasers for aesthetics medicine and dermatology have never been as efficient, versatile and user-friendly as now!
Fotona’s innovative laser system platforms allow you to combine two effective treatment lasers in one system or to acquire them individually. You can choose from a range of high-quality, advanced laser systems to suit your practice’s needs. Also, when additional applications are required, you can upgrade your system to optimize your practice’s range of treatment services.

### Fotona Laser Systems Ranges

<table>
<thead>
<tr>
<th>System</th>
<th>Laser Type</th>
<th>Performance</th>
<th>Scanner Support</th>
<th>Skin Cooling</th>
<th>VSP</th>
<th>Adjustable Spot Sizes</th>
<th>EFC</th>
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<tr>
<td><strong>Fidelis</strong></td>
<td>KTP Nd:YAG</td>
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</table>

**Indications**

- **Fotona Nd:YAG**
  - Unwanted hair
  - Telangiectasia
  - Spider veins
  - Hemangioma
  - Reticular leg veins
  - Rosacea
  - Acne inflammation
  - Wrinkles and loss of skin elasticity

- **Fotona KTP Nd:YAG**
  - Port wine stains
  - Telangiectasia
  - Hemangioma
  - Spider veins
  - Nevus flammeus

- **Fotona Er:YAG**
  - Acne and facial scarring
  - Sun damaged skin
  - Wrinkles and loss of skin elasticity
  - Surgery
  - Superficial skin lesions

- **Fotona Q-switched Nd:YAG**
  - Unwanted tattoos
  - Pigmented lesions

- **Standard, Optional**
PERMANENT HAIR REDUCTION

● VSP-shaped Nd:YAG – Safe, Fast and Effective Hair Reduction
The specific properties of the Fotona Nd:YAG laser beam ensure energy penetration to the deepest follicles, while its low absorption in all skin types guarantees preservation of the surrounding tissues. Fotona Nd:YAG lasers allow you to offer your customers safe, fast and effective depilation treatments for even the darkest skin types, without the epidermal damage other light-based treatments inherently cause.

● Cold Air Cooling To Increase Patient Comfort Levels
Cold Air Cooling delivers a controlled flow of cold air to the treated area, conveniently cooling the skin before, during and after the treatment. The cooling air naturally adapts to any body shape without any additional reflection and loss of laser light. In addition, this cold air technique provides high visibility to the practitioner and does not require the ongoing purchase and replacement of refrigerant. The result is higher patient acceptance, allowing more energy to be delivered for a more effective and faster laser treatment.

● Scanner Support for Fast, Accurate and Painless Treatment of Larger Areas
Fotona’s latest scanner offers a range of features designed specifically to improve safety and patient comfort during hair removal processes. The industry’s largest scan area and three selectable spot sizes in conjunction with a unique non-sequential scan pattern ensure that large areas can be treated quickly, uniformly and completely, without any “hot spots”. You will be able to provide your patients with fast, safe, effective and comfortable hair reduction treatments with a level of ease-of-use you deserve.
PHOTO REJUVENATION

- Complete Spectrum of Rejuvenation Treatments
  The wider acceptance and increased accessibility of aesthetic medicine to an aging population have led to a booming demand for rejuvenation treatments. An increasing number of practitioners are turning to Nd:YAG and Er:YAG laser rejuvenation treatments to benefit from their unique advantages. Recognizing the need for laser systems that offer a complete range of rejuvenation treatments, Fotona provides you with the unique opportunity to fulfill your patients’ needs with two complementary laser sources.

- VSP-Shaped Nd:YAG for Non-Ablative Deep Rejuvenation
  The unique deep penetration capabilities of the Fotona VSP-shaped Nd:YAG laser ensures thermal rejuvenation of deeper skin structures without affecting the epidermis. Non-ablative, deep dermal rejuvenation is achieved through heating deeper skin structures only, regardless of skin type. The resulting laser-induced collagen remodeling and new collagen formation slows down skin aging. Its limited superficial thermal effects and non-aggressive nature, allow you to offer your patients comfortable, fast and efficient rejuvenation treatments with virtually no downtime.

- VSP-Shaped Er:YAG – From Resurfacing to Thermal Rejuvenation
  The Er:YAG laser is widely recognized as the golden standard for laser surgery and skin resurfacing. It has the highest absorption coefficient in skin of all the infrared lasers, allowing extremely precise, micron layer-by-layer ablation of the epidermis. Fotona’s underlying VSP technology enables you to precisely regulate the ratio between its cold ablative effects and thermal effects inside the skin.

  - Short Pulsed Er:YAG Laser Provides Cold Ablation
    With a short pulsewidth, the VSP-shaped Er:YAG laser induces minimal thermal effects to underlying tissue, while rejuvenating the superficial skin layers through ablation of the epidermis. This allows you to offer effective skin rejuvenation treatments with higher comfort levels and shorter recovery times.

  - Long Pulsed Er:YAG Laser Combines Ablation and Coagulation
    By increasing the pulse duration, more heat is diffused in the skin and a resulting collateral thermal effect is achieved. These thermal effects produce pronounced collagen contraction and new collagen stimulation in the dermis. Clinical trials have proven a light ablative effect on the epidermis, non-invasive stimulation of new collagen formation, and no post-treatment downtime.

  - SMOOTH Pulse Er:YAG Laser Offers Non-Ablative Dermal Rejuvenation
    Fotona’s stacked pulse technology allows you to choose the purely non-ablative Er:YAG laser SMOOTH mode for skin rejuvenation treatments. The thermal SMOOTH mode provides dermal remodeling and rejuvenation without affecting the epidermis.
VASCULAR & PIGMENTED LESION TREATMENTS

- **VSP-Shaped Nd:YAG and KTP Nd:YAG – Ideal Vascular Lasers**
  To accommodate the broad spectrum of absorption characteristics of skin, Fotona has combined the Nd:YAG and KTP Nd:YAG lasers for vascular and pigmented lesion treatments. KTP Nd:YAG laser light energy is strongly absorbed in oxyhemoglobin and melanin so targets smaller, superficial blood vessels and pigmented lesions. The homogeneously absorbed Nd:YAG laser penetrates deeper into the skin and is perfectly suited for treating both superficial and larger, deeper vascular lesions.

- **Long Pulse VSP-Shaped KTP Nd:YAG – Superficial Vascular and Pigment Exo-Therapies**
  KTP Nd:YAG vascular laser therapy is based on selective photo-thermolysis, where the green KTP light is absorbed strongly in blood vessels while the neighboring tissue remains practically unaffected. The green light heats the interior of the blood vessel and its walls, permanently occluding the vessel. Thus the KTP Nd:YAG laser is ideal for treating red-colored and superficial pigmented lesions.

- **Long Pulse VSP-Shaped Nd:YAG for Vascular Exo-Therapies**
  Fotona’s Nd:YAG laser energy penetrates deeply, efficiently delivering its thermal effects to the entire volume of both large and small blood vessels. The long pulse VSP-shaped Nd:YAG laser is therefore especially effective for treating larger, deeper-lying veins, while also being suitable for treating smaller, superficial vascular structures.

- **Continuous Nd:YAG Laser for Vascular Endo-Therapy**
  In pulsed, Quasi-Continuous Wave (QCW) mode the Fotona VSP-shaped Nd:YAG is absorbed effectively in both hemoglobin and water, making it ideal for many endo-vascular treatments. The laser energy, supplied from a fiber inserted into the blood vessel, is almost all absorbed within the vein wall, with minimal bulk heating of surrounding tissues and very little charring around the fiber tip. This results in a more comfortable, faster and safer treatment, without the potential complications other light-based methods hold.
ACNE TREATMENTS

- **VSP-Shaped Nd:YAG and Er:YAG for a Complete Spectrum of Acne Treatments**
  The VSP-shaped Nd:YAG and Er:YAG lasers, incorporated in the Fotona ranges, provide you with the opportunity to offer your customers the most complete spectrum of acne treatments. Fotona’s VSP-shaped Nd:YAG laser is perfectly suited for prevention and early reduction of acne inflammation, while the VSP-shaped Er:YAG laser is effectively and safely used for skin resurfacing in even the most severe of acne scarring cases.

- **Long Pulse VSP-Shaped Nd:YAG for the Treatment of Acne Inflammation**
  The homogeneous absorption and deep penetrative capabilities of Fotona Nd:YAG laser light in skin results in the eradication of bacteria in pores and induces collagen regeneration. The Fotona long pulse Nd:YAG laser is your ideal tool, not only to treat, but also to prevent acne inflammation.

- **Very Short Pulse Er:YAG for Precise Removal of Acne Scarring**
  The Fotona Er:YAG laser is ideally suited for micron layer-by-layer skin ablation which opens the pores and cleanses the epidermis, contributing to the prevention and early treatment of acne. Moreover, the Fotona Er:YAG’s Very Short Pulse mode is extremely adept at very precisely and rapidly removing complex acne scarring, because of its ablative capacities.

![Nd:YAG handpiece with adjustable spot sizes](image)

![The Er:YAG handpiece with adjustable spot sizes allows you to adapt to the treatment area.](image)

![Before and After photos of acne treatment](image)

Unmatched versatility for a complete spectrum of safe, effective and fast aesthetics treatments.
TATTOO & PIGMENT LESION REMOVAL TREATMENTS

- **Expand your treatment capabilities and change lives.**
  Unwanted tattoos and unsightly pigment lesions can have an enormous negative impact on people’s lives. Fotona’s Q-switched Nd:YAG and frequency-doubled KTP Nd:YAG lasers provide you with the opportunity to change your patients’ lives with fast, superior clinical results and gentleness.

- **Remove even the deepest, most complicated tattoos safely and effectively.**
  The absorption of high-power, nanosecond laser pulses in the skin breaks up the tattoo pigments into smaller particles which are more quickly and readily absorbed by the body’s immune system. The deep penetration of the Fotona Q-switched Nd:YAG laser beam into the skin ensures that even the deepest pigments in professional tattoos are reached, while its low absorption in surrounding skin structures significantly reduces the risk of unwanted side effects, such as hypopigmentation. While the extremely powerful Fotona Q-switched Nd:YAG laser pulses target blue, black and brown tattoo pigments in the dermis, the Fotona frequency-doubled KTP Nd:YAG laser pulses target red, tan, purple and orange pigments. This Fotona dual laser source combination is thus the ultimate tool to effectively remove multi-colored and complex unwanted tattoos.

- **Combined laser sources to treat a wide range of pigment lesions.**
  Based on the same principles as tattoo removal, the Fotona Q-switched Nd:YAG and frequency-doubled KTP Nd:YAG can also treat a wide array of pigment and vascular skin lesions effectively and safely. The combination of both laser sources allows you to treat, among many others, common nevi, solar and senile lentigines, café-au-lait birthmarks, seborrheic keratosis and post-inflammatory hyper-pigmentation. Fotona’s user-friendly technology platform provides an easy-to-use interface that allows you to quickly switch between laser sources and adapt laser parameters to suit your treatment needs, all at the touch of a button. In addition, both laser sources can be used with just one handpiece with easy spotsize selection, eliminating the necessity to switch handpieces, thus making your treatments more efficient and less time-consuming.
From the Heart of Europe

Fotona worldwide

Quality Assurance


ISO 13485:1996 - Development, Production and Sales of Medical Surgical Lasers. Certification by TÜV AMERICA INC.

GMP Quality System as required by the US FDA.
The Highest Performance
Best Made Laser Systems in the World

Over 40 Years of Experience

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