

# ADVANCED ESTHETICS SOLUTIONS

SOLE UK DISTRIBUTOR FOR EVLASER



**EV-Aesthetics** and **EV-Medicals** are the brand names of Elettronica Valserriana - EVLASER. Established in 1978 and available in 46 countries, they are one of the leading manufacturers of devices for professional aesthetics and platform medical lasers for hair removal, photo-rejuvenation, red vein removal and the treatment of problematic skin.

All of the systems produced by **EVLASER** are **100% made in Italy**, both in terms of design and construction of each and every component with absolute emphasis on service performance that guarantees quality and reliability in the fields of professional aesthetics and aesthetic medicine.

**ADVANCED ESTHETICS SOLUTIONS** was borne from a passion and true dedication of providing effective treatments for the medical, cosmetic and beauty industry with realistic and affordable opportunities for results-driven treatments.

Our advanced portfolio of machines include Laser, IPL, Radiofrequency and Ultrasound.

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# Alba 355

The first UVA1 laser@355nm in the world.  
*'PSORIASIS now has a solution'*







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Alba 355 can treat Atopic Dermatitis, Mycosis Fungoides, Lupus Erythematosus, Scleroderma and Vitiligo.

With leading clinical studies the Alba 355 effectively treat with the use of UVA1 laser for Psoriasis without aiding in contemporary chemical compounds. **A safe procedure for all ages starting from infancy with better penetration in to the derma layers on the skin.**

**Alba 355** works on Psoriasis a chronic, immune-mediated, genetically based inflammatory disorder with a 2-3% incidence among the Caucasian population in western countries.

During the past few years, light source therapies of chronic dermatopathological disease have aroused the attention of a growing effectiveness, specifically in synergy with chemical and biological drugs administration, allowing a rapid and long lasting improvement in symptoms and life quality, especially in the chronic pathologies and those ones resistant to topical treatments.

In a therapeutic perspective, exposition to the UVA1 radiation therapy can be divided into low (1-30j/cm<sup>2</sup>) medium (40-80 j/cm<sup>2</sup>) and high (80-120j/cm<sup>2</sup>) doses.

Low dose are administered with fluorescent lamps with low-cost instrumentation and maintenance costs. High energy fluencies can be delivered only with metal-halide lamps that are associated with high costs and time limited fluorescence.

**Alba 355 Goal.** The use of monochromatic laser source emitting in the UVA1 range (355nm) allowing to achieve higher and higher brightness if compared to the traditional gas discharged tubes dramatically lowering the exposition time while administrating always the same dose.

The qualitative and quantitative brightness of a monochromatic laser source would result way superior to all the devices used so far into the medial and aesthetic field.

**Alba Laser source.** The energy administrated in the UVA1 spectrum was produced using a new laser technology. The solid state laser used an active media and a Neodymium-doped yttrium orthovanadate (Nd:YVO4) crystal that is 'energetically pumped' by another laser with 808nm wavelength.

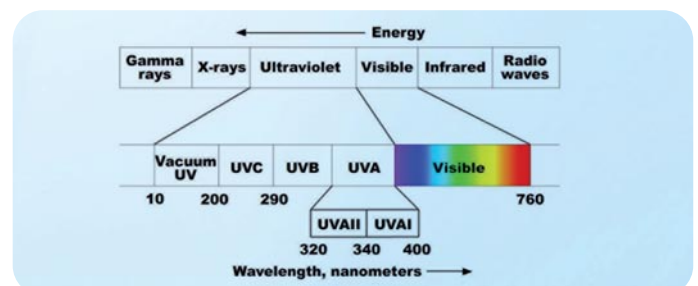
The light emitted by the Nd:YVO4 at a wavelength equal to 1064nm is impulse through an ear optic crystal called Qsw which produces a frequency of 20-50 Khz and transforms the laser light in an ultra short pulsed light (25 nanosec)

This pulse rate is higher than 20 kilowatt and it is sent to crystals in order to duplicate and triplicate the 1064nm wavelength producing second (532nm) and third (355nm) harmonic wavelength delivery.

The proposed MUAV1 is able to maintain a stable brightness for a number of hours consisting in 20000 deliveries and with the possibility to deliver up to 100j/cm<sup>2</sup> in 12 seconds. This leads to a psoriatic plaques in a minute if compared to UVA1 instruments that deliver a total body of nearly 100J in 45 minutes.



With Alba 355 unique colour touch screen interface, choosing the right settings could not be easier. The Alba 355 presents the operator with a series of questions determining the optimal settings based on the patient's individual criteria.



# Before and after Case Studies

Through worldwide experience and research, Evlaser have a comprehensive library of before and after pictures. Featured below is a small snapshot of images to reinforce the effectiveness of the Alba 355 treatments. Further imagery is available upon request.



## Alba 355 Results.

Complete remission of psoriatic plaques consisting in a 90.3%-95.65 reduction in the PASI Score was observed after 10 to 12 treatments over a period of 2 to 3 weeks from the beginning of therapy for patients affected by mild to medium psoriasis. Patients affected by severe psoriasis showed a partial remission of psoriatic plaques consisting in a 50% reduction in PASI score after a week treatment consisting in a total of 12 sessions. The mean PASI score decreased from a mean value of 24,56 at baseline (7,4-43,0) to a mean value of 2,93 at the third week of treatment (range 9,1-0,9). The highest regressions are related to energetic fluencies higher than 100J/cm<sup>2</sup>, that are almost impossible to reach with normal UVA lamps during short exposure.

# Technical Specification

- Laser Source: DPSS
- Active Material: ND:YVO4
- Wavelength: UV (355nm)
- Maximum Output 7W
- Beam Size 2.5mm
- Beam Quality TEM00
- Beam Divergence 1.5mrad
- Power Stability <1%
- Pulse Repetition Rate 20-25kHz
- Maximum Energy per Pulse 0.35mJ
- Pulse Width 10-15ns
- Air Cooling System

## TREATMENT BENEFITS

- A safe and effective treatment providing:
- Better penetration to the derma. A very selective delivery of the large amount of energy directly on the psoriatic plaques in times dramatically shorter than traditional lamps
- No protein denaturation caused by the heat—there is no tissues heating! -so to avoid any side effect or clinical complication.
- Coherence and brilliancy finally make very quick and effective therapeutic applications with no side effect caused by accumulation heat
- Stable brilliancy for more than 20000 hours
- Up to 100j/cm<sup>2</sup> in 12 seconds

## TREATMENT APPLICATIONS

- Atopic Dermatitis
- Mycosis Fungoides
- Lupus Erythematosus
- Scleroderma and vitiligo



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