Since 1978
The Italian Laser Technology
in the World

EVLASER

ELETTRONICA VALSERIANA

S-YAG is not a brand new laser source, a combination of different laser sources neither, nor a platform able to control different laser heads at the same time.

S-YAG is, very easily, something more than what you ever seen and tried by now.

More powerful, more complete, more versatile, faster than any other machines actually available, **S-YAG** is the first, and actually unique, example of new generation laser with a totally different way of thinking that uses the impressive amount of energy available not for destroying with violence but for eliminating with gentleness.

S-YAG operates thru cumulative, not selective photothermolysis. It works with spot size up to 21 mm, very high frequency, up to 10 pulses per second, each of them divisible in a 5 micro pulses burst, separated by a delay. So, up to 50 pulses per second that, divided by delays, allow the energy to accumulate with no side effects, reddening, pain, but unbelievable efficacy.

It means hair removal treatments dramatically faster and more effective than ever and without the limitations of the commonly used hair removal lasers, first of all photo type.

The extreme versatility of **Nd:YAG @ 1064 nm** remains, that means the very best wavelength for most of the applications in the aesthetic dermatology and dermatologic surgery fields, such as veins, pigmented lesions, small surgery in general, photo rejuvenation.

21 mm

Super Yag

S-YAG 120W @ 1064

WE CARE, WE CURE

Super Yag

The Selective Photothermolysis

The primary principle behind laser hair removal is selective **photothermolysis** (**SPTL**), the matching of a specific wavelength of light and pulse duration to obtain optimal effect on a targeted tissue with minimal effect on surrounding tissue.

Lasers can cause localized damage by selectively heating dark target matter, melanin, in the area that causes hair growth, the follicle, while not heating the rest of the skin.

Light is absorbed by dark objects, so laser energy can be absorbed by dark material in the skin, but with much more speed and intensity. This dark target matter, or chromophore, can be naturally-occurring or artificially introduced (*WIKIPEDIA*).

SuperYag Touch Screen

Our goal

EVLASER with **S-YAG**, works of course thru the same principle, so selective thermolysis, but in a totally different and new way, not with "high-energy bombs" rather thru the accumulation of energy delivering the heat to the skin with very high frequency and thru very short micro pulses separated by adjustable delay (**CUMULATIVE PHOTOTHERMOLYSIS**), irradiating the skin with up to 50 pulses per second separated by micro pauses to avoid the accumulation of heating in excess, dramatically improving the efficacy and tolerability of traditional lasers.

✓ MORE EFFECTIVE
✓ MORE TOLERABLE
✓ MUCH FASTER

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Evlaser Technology

EVLASER GROUP means synergies that allow to use the deep experience of the industrial field and so the very high power lasers with working cycle of 24h a day, 365 days a year, for the manufacture of very reliable and with unique performances medical lasers.

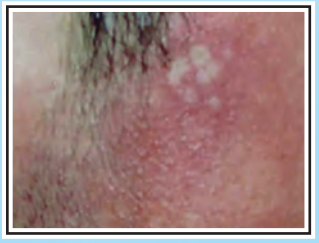
- ✓ **120W / 80J**
- ✓ Spot size up to **21 mm**
- ✓ Pulse width from **0,2** to **15 mS**
- ✓ Frequency of pulses to **10 Hz**
- ✓ Burst up to **5 micro pulses**
- ✓ Lamp up to **750000 pulses**
- ✓ Panel PC for the visualization and data uploading

S-YAG in spite of being a brand new and revolutionary laser is "born with experience" and comes from years of applications in much more stressful and difficult conditions than the most severe standards of the medical field.

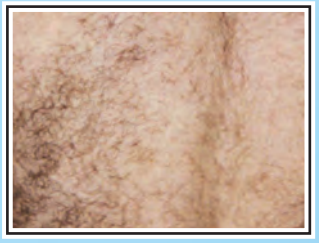
Applications



Nose Anxioma



Rosacea



Hair removal

S-YAG 120W @ 1064

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TECHNICAL SPECIFICATIONS

Super Yag

TYPE	Pulsed Laser	
AVAILABLE VERSION	1.0	
TECHNICAL SPECS	Wavelenght	1064nm
	Aiming beam	CW, 635nm 3mW max.
	Max output power	120
	Max output energy	80
	Max pulse repetition rate (Frequency)	10 Hz
	Pulse shaping	Singolo/Burst
	Pulse number in a single train	≤5
	Single pulse duration (ms)	0.2÷15
	Pause duration (ms)	1÷10
	Spot size (mm)	2÷6, 12, 15, 18, 21 with plug-in system
CLASSIFICATION	Electrical hazards (EN60825-1)	I
	Applied part (EN60825-1)	B
	IP	20
	Laser class (EN60825-1)	IV
POWER SUPPLY	Voltage	230V~ ±10%
	Frequency	50Hz
	Power	4000VA
COOLING	Internal	Chiller
	Recommended Water Quality	C≤3µS
	Water Quantity	5L

EVLASER may vary the technical specifications without any notice.

EV-Medicals is brand of **EVLASER Group**, which is one of the world leading manufacturer of medical lasers and platform since 1978. All the systems produces 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 medicine and cosmetic surgery.

EV-MEDICALS
EVLASER MEDICAL DIVISION

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