



## VELASII

Type	VELASII-15D	VELASII-30A/B/C	VELASII-60A/B/C
Wavelength	1470nm	810nm/980nm/940nm	810nm/980nm/940nm
Maximum Power	15w	30w	60w
Operation Mode	CW, Single Or Repeat Pulse		
Pulse Duration	10μs-3s		10ms-3s
Repetition Rate	0.2Hz-20KHz		0.2Hz-50Hz
Pilot Beam	Red Diode Laser Of 650nm, Power < 5mW		
Control Mode	Touch Screen, 8" True Color		
Dimension	200(H)*400(W)*385(L)mm		
Lifetime	Over 20000 hrs		
Warranty	12 months free warranty, 5 years technical support		
Weight	12Kg		13.4Kg
Packing	Carry case with carton		

### ABOUT GIGAA

GIGAALASER is specializing in the design, manufacture and sale of medical diode lasers and accessories. Our products cover some disciplines of human, dental and veterinary medicine. For each discipline, a broad range of high quality accessories is available.

We have a strong emphasis on research and development, production, service and training. Working in conjunction with hospitals and physicians is just as important as good communication. During April 2010, GIGAALASER have completed a new financing platform for cooperation. The Biolake which is China's largest medical bio-industry base has regarded our company as the largest manufacturer of medical diode laser systems and offered us new investment. We will take full advantage of this new platform, using the development, production, financial, human and other resources to accelerate the development. We will continue to provide new medical technology and good service to our honorable customers.



**FDA CE 0197**

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**GIGAA  
LASER**

# Lasers for VEIN

## EVLA Spider Vein (Telangiectasia)



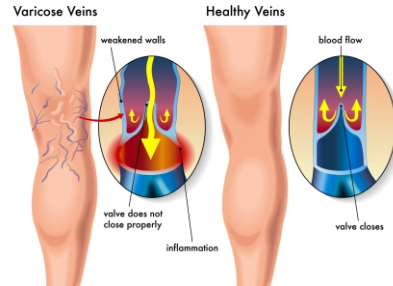
Wuhan Gigaa Optonics Technology Co.,Ltd.

## INTRODUCTION

### EVLA - Endovenous Laser Ablation of Varicose Veins

Endovenous laser ablation goes under several proprietary names e.g. EVLT, ELVeS, VeinSeal, depending on the manufacturer of the laser. We use the general term EVLA for Endovenous Laser Ablation, as all the various types of laser ablation are essentially the same.

EVLA is a new method of treating varicose veins without surgery. Instead of tying and removing the abnormal veins, they are heated by a laser. The heat kills the walls of the veins and the body then naturally absorbs the dead tissue and the abnormal veins are destroyed. It can be carried out in a simple treatment room rather than an operating theatre. EVLA is performed under local anaesthetic as a 'Walk-in, walk-out' technique.



## ADVANTAGES

- In-office procedure performed in less than an hour
- No hospital stay
- Instant relief from symptoms
- No unsightly scarring or large, prominent incisions
- Quick recovery with minimal post-procedural pain

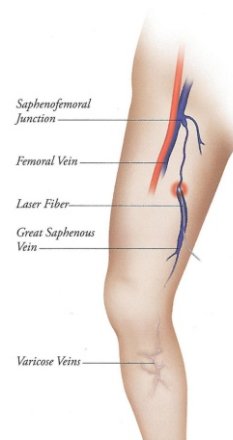
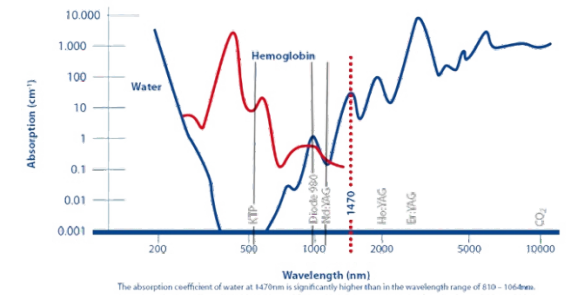


Diagram courtesy of Vascular Solutions

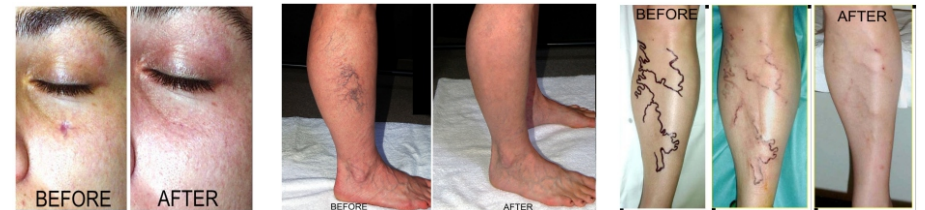
## WHAT IS ENDOVENOUS LASER ABLATION (EVLA)?

During the 45-minute procedure, a laser catheter is inserted into the defective vein. This is usually performed under local anesthesia using ultrasound guidance. The laser heats the lining within the vein, damaging it and causing it to shrink, and seal shut. Once this happens, the closed vein can no longer carry blood, eliminating vein bulging by correcting the root of the problem. Because these veins are superficial, they are not necessary for the transfer of oxygen-depleted blood back to the heart. This function will be naturally diverted to the healthy veins. In fact, because a varicose vein by definition is damaged, it can actually be detrimental to your overall circulatory health. Although not life threatening, it should be addressed before further complications develop.


The 1470nm laser energy is preferentially absorbed in the intracellular water of the vein wall and in the water content of blood. The irreversible photo-thermal process induced by the laser energy results in a complete occlusion of the treated vein. The lower energy level needed using the radial laser fiber significantly minimized adverse effects compared with the bare laser fiber.




## CONTRADISTINCTION



## Bare fiber

	Length: 3m
	Sterile packaging (ETO)
	NA 0.37
	400µm/600µm
	SMA 905 connector

## Radial fiber

	Length: 3m
	Sterile packaging (ETO)
	NA 0.37
	600µm
	SMA 905 connector

## EVLA kit

	Angiographic catheter:
	Fr.5 (1.70mm)
	Length: 100cm
	Guide wire:
	Diameter: 0.035" (0.89mm)
	Length: 150cm
	Flexible tip length: 3cm

## Focus handpiece

	Aluminum Alloys
	Length: 138mm
	Diameter: Ø 1.6mm
	Spot size: 1mm/ 2mm/ 3mm
	600µm with
	SMA905 on both sides
	Spider vein treatment