

**The QuadroStar+.**  
**Versatility for your success.**



Photo left: Cooling handpiece  
Photo right: Handpiece for various spot sizes

### Green light and more power for enhanced treatments

With our new QuadroStar+ we provide you with the perfect instrument that combines most modern aspects of laser technology on the one hand and can be applied universally on the other hand. The QuadroStar+ with an optimized power of **8 watts** in the green wavelength (532 nm) in combination with a diode laser that emits in the infrared range (810, 940 or 980 nm), is a unique innovation on the market. The high power at 532nm allows short, continuous pulse repetitions. For sensitive skin, we recommend the use of a specially developed **cooling handpiece** which protects the upper layer of skin. The new handpiece for the application at 532 nm wavelength guarantees the best possible results through its precise **flat-top-beam-profile**.

### From the Universal Application to the Specialized Treatment ...

The QuadroStar+ at 532 nm is used for the treatment of vascular and pigmented lesions. The infrared wavelength allows applications in surgery, dental medicine and endovascular therapy. To arrange a universal and individual application at the same time, two wavelengths – green and infrared – can be combined in one system. The use and handling of the laser remains simple, in that each user can choose his or her own individual optimal operating mode. The corresponding handpieces are flexible and compatible depending on the therapy.

### ... in Vascular Surgery

For endovascular laser treatments, we developed the **VARIX** mode. In this mode the physician makes all the settings himself and will be informed by an intelligent feedback system on all system parameters that are important to the treatment. This allows more freedom and improves the safety of the application. The accessories necessary for an endovascular operation are optionally offered as complete **EndoSet**. The development of the EndoSet emphasized the importance of simple handling and high safety.

The QuadroStar+.  
The clear exclusive design makes a good impression.



# Setting new standards in flexibility. The QuadroStar<sup>+</sup>.



Photo above: Scanner ScanStar

## Fast and Effective with the Scanner

The treatment of bigger areas with the 532 nm wavelength is simplified considerably by the use of a scanner. The operation of the ScanStar is straightforward. The size, shape of the scanned area (square or rectangular), as well as the spacing of the spots can be adjusted directly on the scanner handpiece. To protect the skin, an **optional skin cooling** can be added to the scanner. This is emphasizing the appealing shape of the scanner even more. The risk of side effects is very minor and the results are convincing.

## Sophisticated Concept for Continuous Use

By the use of high-grade materials we succeed in combining technology and functionality on their highest levels. With less than 20 kg weight, the QuadroStar<sup>+</sup> is light and easy to transport. Besides the fast operational readiness, and the intuitive touch screen user guidance, the casing was functionally developed also. Not only is the compact design convincing, but the **holders for fibers, handpieces and scanner** are ergonomically designed, and all guidelines for a sterile application in the operating theatre were considered. Upon request, we deliver the QuadroStar<sup>+</sup> in a handy chic suitcase. The device is developed for continuous use and is easy to upgrade.



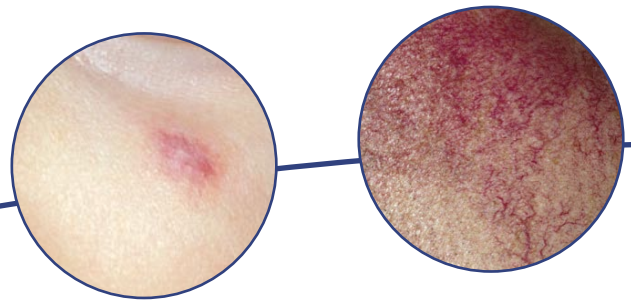
## Examples of Use

### Applications

... in dermatology
• Telangiectasia
• Spider nevus
• Angioma
• Lentigo
• Xanthelasma
... in minimally invasive surgery
• Endovenous treatment
• Endonasal surgery
• LAUP
• Laparoscopy
• Adhesiotomy
• Endometriosis
... in dental medicine
• Desinfection of periodontal pockets and root canals
• Gingivectomy
• Bleaching

### Wavelength

532 nm
532 nm
532 nm
532 nm
532 nm
940 nm
940 nm
940 nm
980 nm
980 nm
980 nm
810 nm
810 nm
810 nm



Hemangioma

Teleangiectasia

(Photos by courtesy of Dr. med. Welisar Petrow, Bonn, Germany)

#### QuadroStar<sup>+</sup> - specifications at a glance

Laser type	Diode pumped state laser, frequency doubled (LBO) or diode laser
Wavelength	532 nm (LBO); 810, 940 or 980 nm (Diode)
Power of tissue	532 nm: up to 5 or 8 Watt Diode: up to 25 Watt
Operation modes	CW, VARIX, REPEAT and SINGLE
Pulse duration	5 ms to 100s adjustable
Pulse interval	100ms to 10s (VARIX-mode)
Pulse rate	1 to 120Hz (REPEAT-mode)
User interface	Color display with touch screen and jog dial
Spot size	532 nm: 0.5; 1.0; 1.5 mm (standard) and 2.8mm (optional) Diode: bare fiber 0.4mm (optional 0.2; 0.3 and 0.6mm), Handpiece 0.6; 1.0 and 1.5mm (optional) Scanner: 0.6mm (optional)
Beam delivery	Flexible fiber
Pilot laser	635 nm, <1 mW, adjustable intensity, cw or blinking (approx. 1 Hz)
Dimensions	41 x 43 x 21 cm (W x D x H)
Weight	Approx. 19 kg
Power requirements	115 / 230 VAC, 50/60 Hz, max. 600 VA
Cooling	Internal cooling, power controlled
Laser class	4

Specifications are subject to change without notice.

QuadroStar <sup>+</sup> models	QuadroStar <sup>+</sup> 532
	QuadroStar <sup>+</sup> 810
	QuadroStar <sup>+</sup> 940
	QuadroStar <sup>+</sup> 980
	Combination of two lasers:
	QuadroStar <sup>+</sup> 532/810
	QuadroStar <sup>+</sup> 532/940
	QuadroStar <sup>+</sup> 532/980

#### Our Mission

As a personal partner for professional users, we create systems of the highest quality and performance for gentle treatments in medical and cosmetic therapy.

#### Features

- 532nm with 8 watts power
- Flat-top-beam-profile
- Big spots up to 2.8 mm
- Two wavelengths can be combined in one device
- Portable system
- Fast operational readiness
- Optional scanner
- Optional skin cooling for handpieces and scanner
- Holders for fibers, handpieces and scanner
- VARIX mode for endovascular treatments



FDA pending

Certified according to  
DIN EN ISO 9001:2000,  
DIN EN ISO 13485:2003  
Medical Device Directive  
93/42/EWG, Annex II

