



**SPECTRUMHR**  
HIGH POWER DIODE 808

THE "EVER MOVE" HAIR REMOVAL SOLUTION

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**EUFOTON**  
medical lasers

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Before and after photographs used in this brochure are courtesy of A. Crippa MD

## SPECTRUM HR - HIGH POWER DIODE 808 FOR HAIR REMOVAL

Because of its selective wavelength the SPECTRUM HR diode laser 808 nm has become globally a synonym for safe, progressive and permanent hair removal. Its high power targets hair follicles at their deepest levels. Even when using higher fluences, the treatment always remains delicate, guaranteeing low risk and gentle feeling for patients. The 808 nm light penetrates the superficial skin layers, and the melanin pigments contained in the hair follicles absorb selectively the 808 nm wavelength. This absorption turns the light energy into heating, damaging the surrounding cell layers, which are responsible for hair regrowth.

When treating hair, Spectrum HR is used to eliminate and prevent the hair's regrowth. In order to do this the wavelength has to penetrate some millimeters into the skin to reach the hair root. When it meets the brown hair's melanin laser light is absorbed and it is converted into heat. Thicker, denser and darker the hair, more heat is created. This heat damages the hair's surrounding cells, which are responsible for hair regrowth. This ensures a drastic hair reduction in the treated zone.

## WAVELENGTH AND VELOCITY: THE "EVER MOVE" MODE

The wavelength (808 nm) was chosen because the absorption is high in melanin, but lowest in water (important substance consisting 65% of the skin) moreover the SPECTRUM HR handpiece includes a strong skin cooler, which always chills the skin preventing any skin burn and scars.

It also makes the treatment more comfortable for patients. To increase the treatments' velocity a special new modality "Ever move" for larger areas can be used with SPECTRUM HR making the laser pulse perception hard to feel, even for the most sensitive patients.

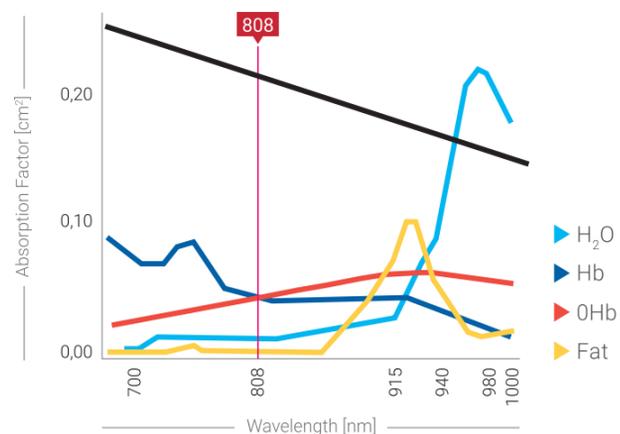
Due to the technical innovation of SPECTRUM HR, side effects of more than swelling and moderate redness around dark hair are very rare. Multiple treatments are needed with an interval of 4 to 8 weeks, as the hair grows in different phases and melanin, containing hair shaft, is connected to hair's root in anagen phase only. But different hairs are never in this phase at the same time. It is individually different how many sessions (average three to five) are needed depending on hair type, skin phototype, genetic and hormones predisposition.

### WHICH ARE THE ADVANTAGES OF SPECTRUM HR?

- ▶ Higher safety.
- ▶ Simple, painless and quick.
- ▶ Cosmetically effective thanks to the combined rejuvenating process.
- ▶ No side effects.
- ▶ Suitable for all hair and skin types up to IV phototype.
- ▶ No consumables needed.
- ▶ Long life working system.



**SPECTRUM HAIR REMOVAL**  
High power diode 808 for hair removal.



Thanks to its wavelength, which is optimally absorbed by melanin and scarcely by water, it is possible to achieve the mathematical photothermolysis of the hair follicles, reducing the risk of damaging surrounding healthy tissues.

## CLINICAL RESULTS

### HAIR REMOVAL

Before and after 3 treatments.

ARMPIT: Before - after 3 tx



SIDEBURNS: Before - after 2 tx



## ACCESSORIES



**WATER COOLED "EVER MOVE" HANDPIECE**  
Non-stop movement treatment, ideal for delicate patients.



**PROTECTIVE GLASSES & EYE PROTECTORS**  
For the operator and the patient.



**SMART TROLLEY**  
For a safe and easy transport.

## SPECTRUM HR - TECHNICAL DATASHEET

Wavelength (nm)	808 nm
Cooling system	Water based skin cooling chiller integrated into the handpiece
Part of the handpiece is in contact with the skin and it is Peltier	Liquid cooled (0 degrees)
Source	Water cooled high power diode
Operation mode	"Ever move" mode or pulsed mode
Spot size	10x10 mm
Pulse time	5 - 100 ms (step 5 ms)
Fluence	1-36 J/cm <sup>2</sup>
Frequency	1 - 10 Hz (step 1 Hz)
Shots	15.000.000
Liquid cooling	2 lt
Weight	16 kg
Dimensions	51 x 35 x 46 (L x A x P)
Length of the cable of the handpiece	180 cm