

Lasers for Life-Science  
& Medical Applications

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- Laser Hair Removal

# Hair Removal

**High Power Diode Lasers** are widely used in Hair Removal.

Monocrom has a wide experience in supplying hair removal laser components and modules.

We offer a range of **wavelengths** and power, mechanical options and accessories, and fiber-coupling to a liquid fiber output of high power laser diodes.

## Laser Hair Removal Benefits:

- Reduces hair growth by 90-95 %
- Less risk of damaging the skin around the hair follicles
- Safe treatment for patients with darker and tanned skin tones
- Pain-free treatment

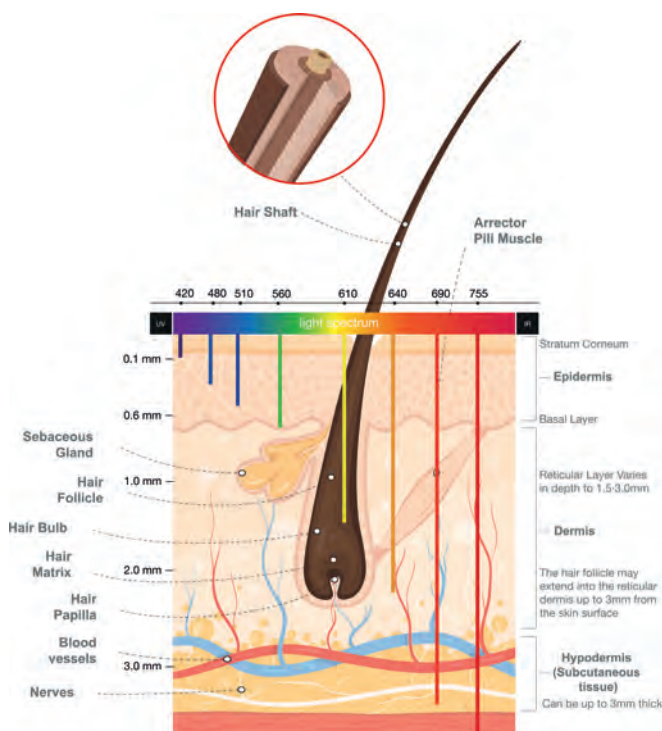


## Diode Lasers:

### Today's top Hair Removal solution

High power diode lasers are the best trade-off between **versatility**, **effectiveness** and **cost**. Their emitting wavelength is in the range from 760 nm to 1064 nm (and beyond) for light-assisted hair removal applications.

High power diode laser technology could be applied to any skin phototype and replace any other existing light-assisted hair removal system.



# Laser Bar Stacks

We offer conductive or water-cooled stacks with no mechanical stress, nor a “smile” effect. Monocrom CLAMPING™ technology allows less thermal resistance even without need of microchannels. This unique system adds great value to our products: higher brightness, longer life-time of the diode and less maintenance.

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Horizontal Stacks

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Vertical Stacks

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Single Bar Mounts

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## Horizontal Laser Stacks

Conduction or water-cooled horizontal diode laser stacks and arrays operating in CW/QCW mode. Wavelength range starts at **640 nm** up to **2020 nm**. The stacks are mounted using a patented **Solder-free CLAMPING™** own Technology that eliminates “smile effect”, enhances efficient cooling and extends laser useful life-time.

Our CLAMPING™ Patented technology is unique of its kind and is exclusively used in Monocrom diode laser packages.



Wavelength (nm)	Output Power (W)	Operation Mode	Cooling	Collimation
640-2200	250 W bar	CW	Active	FAC / SAC / BT
640-2200	500 W bar	QCW	Active	FAC / SAC / BT
640-2200	800-830	CW	Active	FAC / SAC / BT
640-2200	800-830	QCW	Active	FAC / SAC / BT
640-2200	2000-2200	CW	Active	FAC / SAC / BT
640-2200	2000-2200	QCW	Active	FAC / SAC / BT

## Vertical Laser Stacks

Vertical laser diode assemblies, efficiently cooled with conduction or millimeter water channels circuit. Our vertically structured packages are mounted with a Patented **Solder-free CLAMPING™** technique that allows high **cooling efficiency** and large operation and storage temperature range. The Innovative **CLAMPING™** technology, designed and developed by Monocrom, eliminates the undesired “smile effect” and prolongs lifetime.

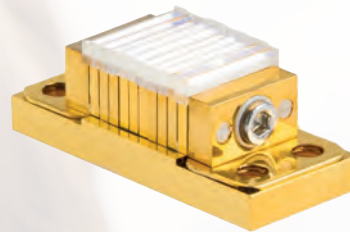


Wavelength (nm)	Output Power (W)	Operation Mode	Cooling	Collimation
<b>A-Stack 1.8</b>				
760	up to 720-1200	CW	Active	FAC / SAC / BT
760	up to 480-1200	QCW	Active	FAC / SAC / BT
808	up to 800-2000	CW	Active	FAC / SAC / BT
808	up to 1200-3000	QCW	Active	FAC / SAC / BT
940	up to 480-1200	CW	Active	FAC / SAC / BT
940	up to 1200-3000	QCW	Active	FAC / SAC / BT
1060	up to 480-1200	CW	Active	FAC / SAC / BT
1060	up to 1400-3500	QCW	Active	FAC / SAC / BT
1470	up to 140-350	CW	Active	FAC / SAC / BT
1470	up to 240-600	QCW	Active	FAC / SAC / BT
1550	up to 100-250	CW	Active	FAC / SAC / BT
1550	up to 180-450	QCW	Active	FAC / SAC / BT
1940	up to 60-150	CW	Active	FAC / SAC / BT
1940	up to 100-250	QCW	Active	FAC / SAC / BT
<b>A-Stack</b>				
808	up to 100	CW	Active	FAC / SAC / BT
808	up to 500	QCW	Active	FAC / SAC / BT
880	up to 100	CW	Active	FAC / SAC / BT
880	up to 500	QCW	Active	FAC / SAC / BT
915	up to 200	CW	Active	FAC / SAC / BT
915	up to 200	QCW	Active	FAC / SAC / BT
940	up to 120	CW	Active	FAC / SAC / BT
940	up to 300	QCW	Active	FAC / SAC / BT
976	up to 150	CW	Active	FAC / SAC / BT
976	up to 400	QCW	Active	FAC / SAC / BT
1060	up to 100	CW	Active	FAC / SAC / BT
1060	up to 250	QCW	Active	FAC / SAC / BT



## Do it custom

Choose between different architectures, number of laser bars per stack and tune the central wavelength to your needs..



Wavelength (nm)	Output Power (W)	Operation Mode	Cooling	Collimation
<b>C-Stack</b>				
808	up to 100	CW	Passive	FAC / SAC / BT
808	up to 500	QCW	Passive	FAC / SAC / BT
880	up to 100	CW	Passive	FAC / SAC / BT
880	up to 500	QCW	Passive	FAC / SAC / BT
915	up to 200	CW	Passive	FAC / SAC / BT
915	up to 200	QCW	Passive	FAC / SAC / BT
940	up to 120	CW	Passive	FAC / SAC / BT
940	up to 300	QCW	Passive	FAC / SAC / BT
976	up to 150	CW	Passive	FAC / SAC / BT
976	up to 400	QCW	Passive	FAC / SAC / BT
1060	up to 100	CW	Passive	FAC / SAC / BT
1060	up to 250	QCW	Passive	FAC / SAC / BT
<b>M-Stack</b>				
808	up to 100	CW	Passive	FAC / SAC / BT
808	up to 500	QCW	Passive	FAC / SAC / BT
915	up to 200	CW	Passive	FAC / SAC / BT
915	up to 220	QCW	Passive	FAC / SAC / BT
940	up to 120	CW	Passive	FAC / SAC / BT
940	up to 320	QCW	Passive	FAC / SAC / BT
1060	up to 100	CW	Passive	FAC / SAC / BT
1060	up to 250	QCW	Passive	FAC / SAC / BT



## Single Bar Lasers

Laser diode packages for a single laser bar with conduction or water macro-channels cooling with great heat dissipation and an unprecedented low smile. Our single bar diode laser mounts are clamped with Monocrom **Solder-free** laser bar CLAMPING™ Technique that improve overall performance and prolong laser diode life-time.



Wavelength (nm)	Output Power (W)	Operation Mode	Cooling	Collimation
780 – 830	up to 100	CW	Active	FAC / SAC / BT
780 – 830	up to 500	QCW	Active	FAC / SAC / BT
780 – 830	up to 100	CW	Passive	FAC / SAC / BT
780 – 830	up to 500	QCW	Passive	FAC / SAC / BT
870 - 890	up to 100	CW	Active	FAC / SAC / BT
870 - 890	up to 500	QCW	Active	FAC / SAC / BT
870 - 890	up to 100	CW	Passive	FAC / SAC / BT
870 - 890	up to 500	QCW	Passive	FAC / SAC / BT
910 - 920	up to 200	CW	Active	FAC / SAC / BT
910 - 920	up to 200	QCW	Active	FAC / SAC / BT
910 - 920	up to 200	CW	Passive	FAC / SAC / BT
910 - 920	up to 200	QCW	Passive	FAC / SAC / BT
930 – 950	up to 120	CW	Active	FAC / SAC / BT
930 – 950	up to 300	QCW	Active	FAC / SAC / BT
930 – 950	up to 120	CW	Passive	FAC / SAC / BT
930 – 950	up to 300	QCW	Passive	FAC / SAC / BT
960 – 980	up to 150	CW	Active	FAC / SAC / BT
960 – 980	up to 400	QCW	Active	FAC / SAC / BT
960 – 980	up to 150	CW	Passive	FAC / SAC / BT
960 – 980	up to 400	QCW	Passive	FAC / SAC / BT
1040 - 1080	up to 100	CW	Active	FAC / SAC / BT
1040 - 1080	up to 250	QCW	Active	FAC / SAC / BT
1040 - 1080	up to 100	CW	Passive	FAC / SAC / BT
1040 - 1080	up to 250	QCW	Passive	FAC / SAC / BT



# Laser Diode Modules

We supply Plug & Play Laser Diode modules with single or multiple laser stacks (single or combined wavelengths). Encapsulated laser stacks are easier to handle because the laser bar is kept into a sealed case isolated from exterior. No clean room conditions are necessary when manipulating these laser devices. A variety of tips and optics are available.

- \_\_\_\_\_
- Laser Diode Modules
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- Laser Diode Modules with tip
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Modules	Optics
<b>D36:</b> ø 36 mm - one stack per module	<b>Spot Size Options***[mm]:</b> 7x7, 8x8, 9x11, 9x18, 10x21, 10x25, 10x9, 12x14, 12x30, 13x14, 15x25, 25x14
<b>D49:</b> ø 49 mm - one or two stacks of same/different wavelengths	<b>Beam Collimation:</b> Fast-axis collimation lenses Slow-axis collimation lenses

\*\*\*Customized optics available on request

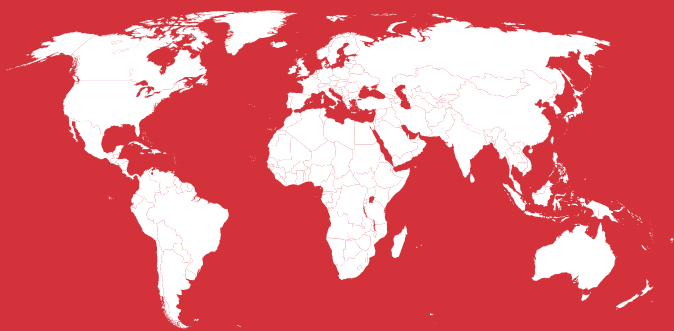
# OEM Laser Solutions for Dermatology and Aesthetics

Monocrom has more than 25 years of experience and expertise delivering laser solutions for the Dermatology and Aesthetics markets. We adapt to customers needs, offering a high degree of flexibility and versatility for their most demanding applications.



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