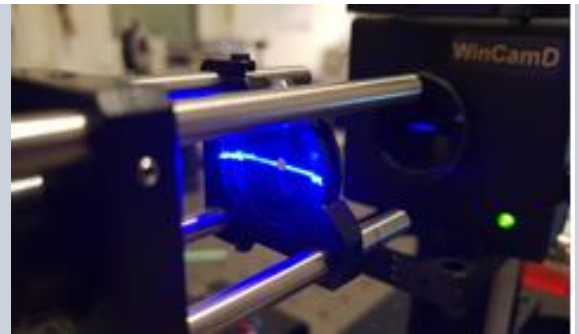


Customized Diode Laser Modules



For many applications, the standard laser modules are not an optimal solution. Therefore, TOPAG offers customized adaptations of all our laser modules. We also manufacture single pieces.

With a strong team of physicists and engineers, TOPAG works closely with you as a development partner to design the optimal laser or beam shaping optics for your application in order to meet your wishes.

CUSTOMIZATION OPTIONS INCLUDE:

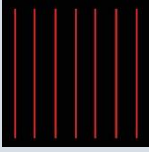
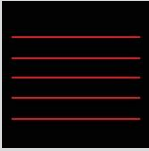
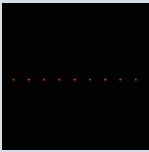
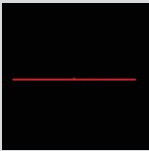

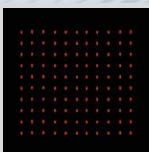

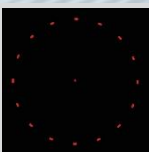

- ▲ Custom Wavelengths
- ▲ Beam-Shaping Optics for Light Distribution
- ▲ Custom Electronic Drivers with Firmware and Software
- ▲ Mechanical Design
- ▲ Fiber-Coupled Versions (Multimode, Single Mode and Polarization-Preserving)

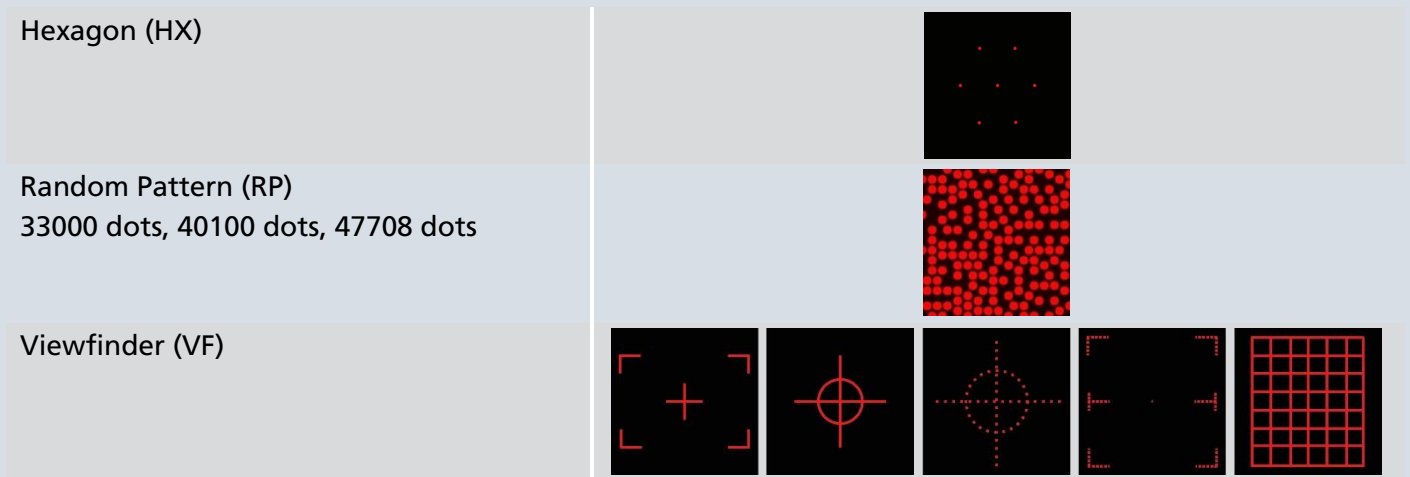
We are looking forward to discuss your specific applications and to provide you with an effective and advanced solution. Please provide the following information in your request:

- ▲ Wavelength (center and bandwidth)
- ▲ Field of view / Diffraction angle
- ▲ Wanted light distribution (shape and uniformity)
- ▲ Working distance
- ▲ Quantity for samples

Pattern Generators for Customized Diode Laser Modules

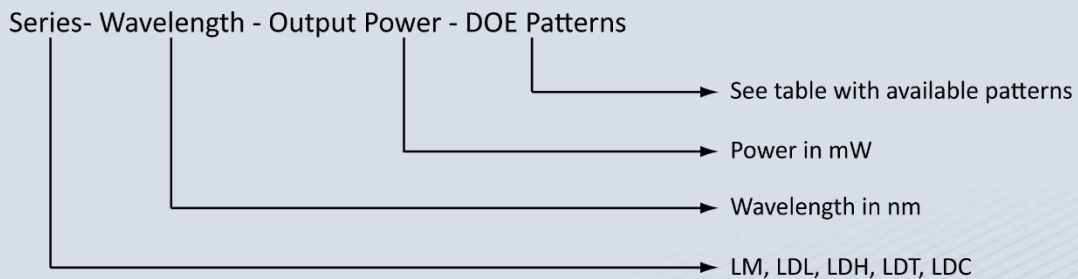
Diffractive optical elements (DOE) can be integrated in customized diode laser modules. A wide range of different patterns like multi lines, dot lines, crosshair, circles, dot matrix and random patterns are available. Please request for availability of DOEs and their fan angle. Possible material is PMMA or PC.

Description	Pattern
Square Line (LS) 5, 7, 11, 25, 65 lines	
Rectangular Line (LR) 3, 5, 7, 10, 15, 41, 81 lines	
Dot lines (DL) 1:5, 1:9, 1:11: 1:19, 1:99	
Quasi continuous line (QCL) 5°, 20°, 30.1°, 30.5°, 36°, 45°, 45.5°	
Cross Hair (CH) 2°, 5°, 10°, 15°, 25°, 30°, 45°, 52°, 60°, 75°	
Dot Matrix (DM) 2x2 +1, 4x6, 5x5, 6x6, 10x10, 11x11, 13x13, 16x16, 17x17, 21x21	
Line Circle (LC) for 488 nm, 520 nm and 592 nm	
Dot Circle (DC) 1:16, 1:36, 1:72	
Multiple Circles (MC) 5 rings, 10 rings	



ORDERING INFORMATION

To order please add the appropriate DOE pattern code to the selected laser module:



DOE Pattern	Short cut	Available Design Wavelengths (nm)
Line square	LS	635-660
Line rectangular	LR	520-650-660
Line Square	LS	635-660
Dot line	DL	635-650-660-670
Quasi continuous line	QCL	532-633-660-639-940
Crosshair	CH	450-515-520-532-633-635-640-645-650
Dot matrix	DM	532-635-660-690
Line circle	LC	488-520-592
Dot circle	DC	515-532-635
Multiple Circles	MC	515-645
Hexagon	HX	780
Random pattern	RP	645-658-830-850
Viewfinder	VF	532-633-635-645-650

E.g. LDH-850-40-DC-1:16: Laser module LDH-Serie with 850 nm, 40 mW Power and dot circles 1:16 pattern.

LM-635-1-CH30: Cross Hair laser with 30° fan angle, 635 nm and 1 mW output power.